THE PORT OF LOS ANGELES
425 S. Palos Verdes Street Post Office Box 151 San Pedro, CA 90733-0151 TEL/TDD 310 SEA-PORT www.portoflosangeles.org

Karen Bass | *Mayor, City of Los Angeles*

Board of Harbor Commissioners | Lucille Roybal-Allard *President* | Diane L. Middleton *Vice President* | Michael Muñoz *Commissioner* | Edward R. Renwick *Commissioner* | I. Lee Williams *Commissioner*

Eugene D. Seroka | *Executive Director*

DATE: March 13, 2024

SUBJECT: REQUEST FOR PROPOSALS FOR TRUCK DRAYAGE CHARGING DEPOT OPERATOR

Pursuant to the Truck Drayage Charging Depot Request for Proposals (RFP), all proposers were to submit any questions regarding this RFP by no later than February 20, 2024. Questions were to be submitted in writing, and all questions and responses were to be posted on the Department's website and www.rampla.org.

Below is a list of questions received from proposers, and the Department's response:

1. **Q: Would there be any way to get a summary of what has changed as compared to the original RFP (or even better, shown as a redline version)?**
   A: No. Proposers are responsible for reviewing the materials published in connection with this solicitation.

2. **Q: Please confirm if the $6M from METRO/MSRC funding is solidified/set-aside particularly for this project. The link to the meeting minutes does not provide certainty of funding availability.**
   A: Confirmed by Los Angeles Cleantech Incubator.

3. **Q: Please provide an estimated timeline for LADWP to deliver power to the site.**
   A: See Section 2. The Harbor Department has notified LADWP that electrification support is required to implement this project; however, the timeline is typically 24+ months.

4. **Q: Are bidders expected to have a BTRC prior to submission? Or is this a requirement for the successful bidder only?**
   A: The requirement is for successful bidders only.

5. **Q: We see the 12-hour public accessibility requirement the POLA put in the RFP. Given this new electric truck charging model, could an acceptable proposal include a limited number of charging ports having public accessibility, with the rest being contracted night-dwell spots?**
   Will the public accessibility only pertain to drayage trucks? Will passenger vehicle charging be subject to public access?

   A: Proposals that conform to the RFP requirements will be considered and will be evaluated in accordance with the evaluation criteria. See Section 3 of the RFP. The premises may only be used for heavy-duty drayage truck charging.

Proposers are referred to the Permitted Uses section of the draft Term Permit – Section 5.

6. **Q: Section 2.7 lists potential funding opportunities and that the following are separate from this RFP. The last bullet included in this section, however, lists the [up to] $3M in funding from the POLA Clean Truck Fund. Then at the top of page 14, the RFP names the [up to] $3M to be given to the successful proposer to be put towards the construction of the project (except for soil remediation). These two conflicting pieces of information in different places is confusing. Is the [up to] $3M guaranteed to be given to the successful proposer? Is there an instance where the successful proposer is not given access to this funding?**

   Related to this, there are funding requirements if seeking outside funding. If it is guaranteed that the successful proposer gets this [up to] $3M award, will the successful proposer need to abide by additional requirements if the [up to] $3M award is the only funding being sought out by proposer?

   A: As noted in the RFP, this solicitation does not serve as a grant funding opportunity notification. Grant funds may be available via a separate funding contract between the successful Proposer and the funding entity. Up to $3 million will be made available to the successful proposer, subject to completion of required approval processes, under a funding agreement between the Harbor Department and the Proposer. That agreement is subject to approval by the Board of Harbor Commissioners. The funding agreement will be separate and apart from the Term Permit arising from the RFP Process. A copy of the funding agreement is not available at this time. It is not anticipated that there will be any restrictions on seeking outside funding.

   The effectiveness of the proposed Term Permit and funding agreement with the Harbor Department is contingent upon full completion of all review and approval processes required by the Los Angeles City Charter and Administrative Code, inclusive of approval by the Board of Harbor Commissioners. Such processes have not yet commenced, and their outcomes are unknown and subject to the full, unfettered discretion of all reviewing bodies. As such, the Harbor Department is unable to make any guarantees.

7. **Q: The first statement in the soil management activities section on page 6, states that the "Successful Proposer will develop the site in accordance with a soil management plan to be prepared by the Harbor Department". The last sentence then states that "Although the Harbor Department is providing this summary, nothing relieves the Proposers from determining for themselves the condition of the Premises, level of site remediation necessary to execute the project, and associated costs". How will this division of responsibility be structured if the ultimate soil management plan is to be prepared by the Harbor department, but the successful proposer is to be responsible for determining the current condition and level of site remediation necessary to execute the project?**

   A: Attached is the soil management plan. It is the Proposers' responsibility to review the known environmental impacts at the properties and then determine actual costs for soil disposal, based on their proposed development. Management of

contaminated soil should not change from what is provided in the Soil Management Plan.

8. **Q: Please expand on 97% uptime requirements if seeking funding opportunities. How will reporting work?**
   A: Uptime requirements will follow CEC guidelines.

9. **Q: Is there a specific amount of time before a charging session that changes the contractual model from a simple reservation ahead of time, to pre-existing utilization contract? Would day-of charging reservations be considered differently than a week in advance? Does this change if the reservation is placed hours before a charging session?**
   A: Proposals that conform to the RFP requirements will be considered and will be evaluated in accordance with the evaluation criteria. See Section 2 of the RFP.

10. **Q: Would an applicant who does not want to maintain a pre-existing utilization contract-based reservation system, but requires the stability it provides to the business model during a period of slow demand growth be considered eligible? Would the POLA consider a contract which allows for a phased approach to reservations that would expire at agreed upon dates?**
    A: Proposals that conform to the RFP requirements will be considered and will be evaluated in accordance with the evaluation criteria. See Section 2 of the RFP.

11. **Q: Would an eligible applicant be able to underwrite utilization for MHDEV charging while market demand materializes? Is there room for discussion on contractual flexibility?**
    A: Proposals that conform to the RFP requirements will be considered and will be evaluated in accordance with the evaluation criteria. See Section 2 of the RFP.

12. **Q: Given the new information in the RFP around both parcels' environmental assessments, does the Port anticipate allowing applicants to reduce a portion of their payment to the Port? Either annually for a period of time, or in fact forgoing one or more initial payments?**
    A: See Section 4.3.3 of the draft Term Permit.

13. **Q: Are there any parameters around public access respondents should consider beyond the 12-hour daily minimum?**
    A: Proposals that conform to the RFP requirements will be considered and will be evaluated in accordance with the evaluation criteria. See Section 2 of the RFP.

14. **Q: I am reaching out to seek clarification on the bond requirements associated with the Truck Drayage Charging Depot Operator solicitation in Port of Los Angeles, CA. Could you kindly verify if a bond is mandated for this solicitation?**
    A: A proposal bond is not required. However, proposers are referred to the draft Term Permit to confirm the bonds and security instruments that will be required under that instrument.

15. **Q: Exhibit C- Appraiser Qualifications – Draft Term Permit**
    Propose to modify metric as it relates to the Successful Bidder. Propose that the appraisal should be based on comparable properties with same of

similar use, rather than "highest and best use." Moreover, the appraisal should not be based on the "income approach" but rather on comparable leases (or purchases) with the City. Lastly, Cap Rates, if used in the appraisal analysis, should not vary amongst the respondents based upon their (our) creditworthiness. Otherwise, the Successful Bidder could be penalized for being more creditworthy than a less capitalized entity.

A: Proposers are referred to the Uniform Standards of Professional Appraisal Practice. Any changes to the draft Term Permit will be reflected in the final draft Term Permit which will be published prior to the proposal due date.

16. Q: Exhibit D – Limitations on Use – Draft Term Permit

- **Propose that the City provide commercial standard representations and warranties as to the condition and fitness of the Premises upon delivery to the Successful Bidder.**

- **Additionally, while the Lessor generally has a right to make repairs to certain utilities due to tenant neglect, the Successful Bidder should not be required to absorb all costs attributable to such repairs, including the negligence and egregious misconduct of the City in performing repairs and related assessments.**

- **Propose that such costs shall be limited by the gross negligence or willful misconduct of the City and subject to a commercially reasonable limitation of liability covering the lease.**

A: The Harbor Department does not provide representations and warranties. The property is provided "as-is". No changes will be made to Exhibit D.

17. Q: Section 3.3 – Holdover - Draft Term Permit

Propose to align with commercially standard holdover construct. Successful Bidder should be responsible for holdover rent as liquidated damages as the City's sole and exclusive remedy for the holdover, and not cumulative of other remedies for breach; provided that such holdover penalties shall be in addition to damage caused to the Premises and any other applicable penalties as specifically set forth in the lease terms.

A: No changes will be made to this section.

18. Q: Section 5.3 – Operating Covenant. 5.3.1 Business and Operations Plan - Draft Term Permit

Subject to negotiation with the City and Successful Bidder.

A: Section 5.3 notes the following: [Note: The content of the Business and Operations Plan is to be prepared following selection of the successful proposer based on RFP responses.]

19. Q: Section 102.2 – Reservations - Draft Term Permit

Propose that the City's right to enter the Premises for certain specific purposes set forth in Section 102.2 should be subject to reasonable advance notice to the Successful Bidder, during normal business

hours and any such entry subject to Successful Bidder's standard operating procedures governing access, security, and reasonable restrictions.

A: No changes will be made to this section. Section 102.2 of the draft Term Permit already states that the reservations and exclusions contemplated within the Section be "reasonable", "shall not unreasonably interfere with the conduct of Tenant's business…" and be preceded by "advance written notice".

20. Q: Section 102.9 – Liens; Indemnity - Draft Term Permit
Propose modification to terms to clarify that the Successful Bidder shall not be subject to restraints on incurring liabilities or a security interest against materials and equipment related to its business operation purposes. Propose modest revisions to indemnification language to align with commercially standard terms.

A: No changes will be made to this section.

21. Q: Section 103.2.4 – Annual Financial Statements - Draft Term Permit
Propose reasonable limitations around financial accountability reporting. Successful Bidder should not be required to make reports on its financial condition unless and to the extent Successful Bidder's financial position materially degrades in a manner that would affect its ability to pay its debts when due.

A: The Harbor Department will consider deletion of this section. Any changes to this section will be reflected in the final draft Term Permit which will be published prior to the proposal due date.

22. Q: Section 103.2.6 – Deposits – Draft Term Permit
Propose to align with standard deposit use and application terms under commercial leases as provided by governing law, to include a contractual obligation for the City to return amounts held as a deposit after the City regains control.

A: The Harbor Department will consider changes to this section. Any changes to this section will be reflected in the final draft Term Permit which will be published prior to the proposal due date.

23. Q: Section 104 – Tenant's Environmental Obligations During Term of Agreement – Draft Term Permit
Propose more focused review of the terms as applicable to the specifications of use of the Premises as well as commercially reasonable terms governing a financial cap on remediation. Propose to align with agreed upon limitation of liability under the lease terms.

A: No changes will be made to this section. The Harbor Department will not insert a financial cap. Grant funds may be available to potentially offset proposer's costs. Please see the RFP.

24. Q: Section 108.1 – Tenant's Default – Draft Term Permit
Propose that Successful Bidder should have a right to withhold rent if City is in material violation of the lease that adversely affects Successful Bidder's use of the Premises for its intended purpose.

A: No changes will be made to this section.

25. **Q: Section 108.2 – City's Defaults - Draft Term Permit**
Propose that Successful Bidder have standard termination rights for uncured material breach of City, subject to commercially reasonable cure provisions.
A: No changes will be made to this section.

26. **Q: Section 110 – 110.1.2 – Indemnity and Insurance – Draft Term Permit**
Propose standard, mutual indemnity terms for commercial Lessor/Lessee engagements, to include indemnity for negligence and willful misconduct, breach of applicable law and breach of the lease terms, in each case to the extent not attributable to the indemnification obligations of the other party.
Propose a mutual indirect/ consequential damages waiver; with the exception of damages which cannot be restricted under applicable law and the gross negligence and willful misconduct of the parties.
A: No changes will be made to this section.

27. **Q: Section 110.2 – Insurance – Draft Term Permit**
Propose that insurance terms be subject to revision based on applicability.
A: No changes will be made to this section

28. **Q: Section 117.19 – Supervision of Business Practices – Draft Term Permit**
Propose that Successful Bidder have reasonable accountability for use of Premises as intended, appropriate commercial use of the Premises and the avoidance of waste; provided, however, the function and control of the board may not act as a restraint on Successful Bidder in making use of the Premises in accordance with the lease terms. Propose that certain functions and oversight of the Boars may extended in the event of breach or in the event Successful Bidder's financial position materially degrades in a manner that would affect its ability to pay its debts when due.
A: No changes will be made to this section.

29. **Q: Proposed Additional Terms – Standard Representations and Warranties of City – Draft Term Permit**
Propose standard representations and warranties of Lessor for commercial Lessor/Lessee engagements.
A: The Harbor Department does not provide representations and warranties.

30. **Q: Proposed Additional Terms – Confidentiality**
Propose standard confidentiality provisions, taking into consideration reporting requirements of government entities.
A. Proposers are referred to Section 113.1 of the Draft Term Permit regarding confidentiality.

31. **Q: Draft Term Permit - Not exact language, but to add in that the Harbor department would indemnify lessee for any losses regarding the soil**

remediation activities: Lessor (Harbor Department) to indemnify and hold harmless Lessee from and against losses and liabilities to the extent arising out of any soil remediation activities.

A: The Harbor Department will not indemnify the lessee. Further the Harbor Department will not entertain changes to the indemnity provisions in the draft Term Permit.

32. Q: Draft Term Permit - Not the exact language, but to add in that Lessee will have the right to terminate the agreement if Lessee cannot get the adequate power or permits necessary to build and operate an EV charging depot.

A. The Harbor Department will consider changes to Section 3. Any changes to this section will be reflected in the final draft Term Permit which will be published prior to the proposal due date.

33. Q: General – Draft Term Permit
Any language that requires tenant to maintain documents at the premises should be revised to be "provided upon City's written request".

A: The Harbor Department will consider changes to Section 113.1 of the draft Term Permit. Any changes to this section will be reflected in the final draft Term Permit which will be published prior to the proposal due date.

35. Q: Section 3.3 – Holdover – Draft Term Permit
Comment: Delete "or one hundred fifty percent (150%) of the fair market rental at the time of the commencement of the holdover, whichever is greater"; same change would need to be made throughout the lease (i.e., Section 108.1.2.1(f))

A: No changes will be made to this section.

36. Q: Section 4.3.2 – Optional Market Base Rent Adjustments – Draft Term Permit
Comment: Strike this section.

A. This provision will not be stricken. Proposers are referred to Section 607 of the Los Angeles City Charter.

37. Q: Section 4.4 – Draft Term Permit
Comment: Request 90 days notice prior to rent adjustment

A. No changes will be made to this section. The final measurements are generally known by the Effective Date of the Term Permit.

38. Q: Section 103.2.6.1 – Draft Term Permit
Comment: Delete requirement that security deposit (3 months rent) automatically increases every time base rent increases.

A: No changes will be made to this section.

39. Q: Section 105.1.1 – Draft Term Permit
Comment: Strike the performance and payment bond requirements.

A. The section will not be stricken. These sections are required for public works projects.

40. Q: Section 106.2 – Draft Term Permit
Comment: Increase 24 hours to 72 hours.

A. The Harbor Department will consider changes to Section 106.2 of the draft Term Permit. Any changes to this section will be reflected in the final draft Term Permit which will be published prior to the proposal due date.

41. Q: Section 106.3 – Draft Term Permit
Comment: If the City requires the relocation of any utility lines to accommodate a City project, the cost of such relocation should be City responsibility, not tenant's.

A. No changes will be made to this section.

42. Q: Section 107.1 – Draft Term Permit
Comment: Exclude reasonable wear and tear from tenant's maintenance obligations.

A. No changes will be made to this section.

43. Q: Section 108.1.1(a) – Draft Term Permit
Comment: Increase 3 business days to 10 business days

A. No changes will be made to this section.

44. Q: Section 108.1.5 – Draft Term Permit
Comment: Strike

A. No changes will be made to this section.

45. Q: Section 108.2.1 – Draft Term Permit
Comment: We propose reducing City's cure period to 30 days or alternatively, to increase tenant's cure period in Section 108.1.1(b) to 60 days to match the City's.

A. The Harbor Department will consider changes to Section 108.1.1(b). Any changes will be reflected in the final draft Term Permit which will be published prior to the proposal Due Date.

46. Q: Section 110.1.1 – Indemnification – Draft Term Permit
Comment: strike section (e), add "beyond any applicable cure period" in (g)

A. No changes will be made to this section.

47. Q: Section 110.1.2 – Draft Term Permit
Comment: Strike

A. No changes will be made to this section. It will not be stricken.

48. Q: Section 111.6 – Damage to Wharf – Draft Term Permit
Comment: Strike - not applicable.

A. The Harbor Department will consider striking Section 111.6 of the draft Term Permit. Any changes will be reflected in the final draft Term Permit which will be published prior to the proposal Due Date.

49. Q: Section 112.1.1– Draft Term Permit
Comment: Strike the last 4 sentences of this paragraph.

A. No changes will be made to this section.

50. Q: Section 112.6 – Draft Term Permit

Comment: add "such approval not to be unreasonably withheld or delayed" after "Board approval"

A: No changes will be made to this section.

51. Q: Section 113.4 – Draft Term Permit

Comment: The obligation to report to the Executive Director should be limited to "materially" adverse incidents.

A. No changes will be made to this section.

52. Q: Section 116.1 – Draft Term Permit

Comment: Strike sections (i), (iii), and (iv) as well as the remainder of the paragraph following "Additionally, in lieu of demolition,…"

A. The Harbor Department will consider changes to Section 116.1 of the draft Term Permit. Any changes will be reflected in the final draft Term Permit which will be published prior to the proposal Due Date.

53. Q: Section 116.6/116.7 - Draft Term Permit

Comment: Delete. Any removal and restoration should occur after the term of the lease has expired.

A. The Harbor Department will consider changes to the draft Term Permit as it relates to the restoration holdover period. Any changes will be reflected in the final draft Term Permit which will be published prior to the proposal Due Date.

54. Q: Section 117.19 - Draft Term Permit

Comment: Strike.

A. No changes will be made to this section – it will not be stricken.

55. Q: Section 117.20 - Draft Term Permit

Comment: Add "such consent not to be unreasonably withheld or delayed" after "Executive Director" in the first sentence.

A. No changes will be made to this section

56. Q: Section 117.21

Comment: Strike "but shall revert to the City if the Executive Director elects to have any or all of such Tenant Improvements revert to the City."

A. The Harbor Department will consider changes to Section 117.21of the draft Term Permit. Any changes will be reflected in the final draft Term Permit which will be published prior to the proposal Due Date.

SOIL MANAGEMENT PLAN

1517-1519 AND 1520 EAST I STREET
WILMINGTON, CALIFORNIA

October 19, 2023

Prepared for:

PORT OF LOS ANGELES
ENVIRONMENTAL MANAGEMENT DIVISION
425 SOUTH PALOS VERDES STREET
SAN PEDRO, CALIFORNIA 90731

PROJECT DIRECTIVE #20
AGREEMENT NUMBER 23-9930
APP NUMBER 230330-511 H

Prepared by:

Pacific Edge Engineering, Inc.
26431 Crown Valley Parkway, Suite 270
Mission Viejo, CA 92691

Craig A. Stolz, P.E.
Principal Engineer

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1.0 INTRODUCTION

On behalf of the City of Los Angeles Harbor Department's Environmental Management Division (EMD), Pacific Edge Engineering (Pacific Edge) has prepared this Soil Management Plan (SMP) for handling and disposal of contaminated soils that are anticipated to be encountered during future redevelopment activities to be conducted at two vacant properties located at 1517-1519 East I street (north parcel) and 1520 East I Street (south parcel) in Wilmington, California. The location of the north and south parcels, collectively referred to as the Site, is shown on **Figure 1**.

1.1 SITE DESCRIPTION

The north and south parcels are separated by East I Street which trends west-east between the parcels. Both parcels are currently vacant, unpaved, with little vegetation.

The north parcel (1517-1519 E I Street) has remained undeveloped and unused. The approximate size of the north parcel is 0.6 acres.

The south parcel (1520 E I Street) was previously used as a salvage and storage yard for automobiles, boats and recreational vehicles. Prior to the parcels use as a salvage and storage yard, two above ground oil storage tanks (ASTs) were located on the western portion of the parcel (Lots 14 and 15) and one oil AST was located on the southeastern portion of the parcel at Lot 20. Oil production well NWU31-27 was located at the northeastern portion of the parcel at Lot 20. This well was operated by Warren Resource, Inc. until it was properly plugged and abandoned in 2011 in compliance with California Energy Management Division (CalGEM) requirements. The approximate size of the south parcel is 1.3 acres.

1.2 PREVIOUS ENVIRONMENTAL ASSESSMENTS

In 2007 and 2008, Pacific Edge conducted a Phase I Environmental Site Assessment and a Supplemental Subsurface Investigation for the south parcel. The results for both investigations are included in the Supplemental Subsurface Investigation Report dated February 17, 2009. These investigations identified total petroleum hydrocarbon (TPH), volatile organic compounds (VOC), metals, polycyclic aromatic hydrocarbons (PAH) and polychlorinated biphenyls (PCB) impacted soil, TPH and VOC impacted groundwater, and VOC and methane impacted soil gas.

In 2018, Parsons conducted a Baseline Environmental Assessment for both the north and south parcels. The objective of this assessment were to evaluate changes in contaminant concentrations

at the south parcel since Pacific Edge's Supplemental Subsurface Investigation and to assess potential contaminants at the north parcel. The following is a summary of the Pacific Edge and Parson investigations.

1.2.1 North Parcel Chemical of Concern (COCs)

TPH, VOCs, PAHs, metals, and PCBs were detected in soil. Detected TPH, VOC, PAH and PCB concentrations do not exceed current industrial screening levels. Arsenic is the only COC that exceeds the screening level of 12 mg/kg [California Department of Toxic Substances Control (DTSC) background concentration in Southern California]. Analytical data indicate that lead and mercury concentrations are indicative of a California Hazardous Waste (non-RCRA Hazardous) in the upper 2-feet of soil when removed/excavated.

1.2.2 South Parcel COCs

Soil is impacted with a variety of chemicals including TPH, VOCs, PAHs, metals, and PCBs. TPH in soil has been detected from near the surface to 10-feet bgs at the western former AST but was not detected during the 2018 assessment. Detected TPH concentrations do not exceed current industrial screening levels. Light non-aqueous phase liquid (LNAPL) globules and elevated methane soil gas concentrations were also detected near the eastern AST in 2018. VOCs, PAHs, and PCBs were detected at concentrations below current industrial screening levels. Arsenic was detected in several samples at a concentration that exceeds the DTSC background concentration of 12 mg/kg. Lead was detected in several samples at a concentration that exceeds the current industrial screening level of 500 mg/kg. Additionally, analytical data indicate that lead concentrations in the upper 2-feet of soil are indicative of a California Hazardous Waste (non-RCRA Hazardous) when removed/excavated.

Groundwater is impacted by TPH and VOCs. TPH in groundwater was detected at a maximum concentration of 34,000 micrograms per liter (µg/L). An oil sheen was noted on the surface of the groundwater sample collected at the western ASTs indicating the potential for LNAPL. Low concentrations of VOCs, including benzene and methyl tert-butyl ether (MTBE), were detected in groundwater.

Soil vapor is impacted with methane, VOCs, and gasoline range organics. Methane concentrations are equal to the City of Los Angeles mitigation threshold and would require mitigation measures for building constructed at the Site.

A copy of the Parson Baseline Environmental Assessment Report and the Pacific Edge Supplemental Subsurface Investigation Report are provided as **Appendix A**.

2.0 SITE REDEVELOPMENT

2.1 SMP OBJECTIVE

The objective of the SMP is to provide a protocol for ensuring the proper handling and disposal of contaminated soil that could be encountered during redevelopment in a manner that is protective of human health and in compliance with applicable regulations.

Proper implementation of this SMP will provide human health protection for construction workers during initial redevelopment activities. Installation of an asphalt and/or concrete surface cover and subsequent maintenance and repair of the cover will prevent contact with known COCs and provide human health protection for future Site occupants/workers and the visiting public. After the Site has been redeveloped this SMP is still in effect if soil disturbance is required, such as but not limited to, additional soil excavations or utility installations and repairs.

2.2 PLANNED CONSTRUCTION ACTIVITIES

The Site will be redeveloped as an electric vehicle charging depot. Current plans require the removal of the upper 14-inches of the Site's ground surface to prepare for Site redevelopment, trenching for installation of below ground electrical utilities (assumed to be no deeper than 5-feet bgs), installation of aboveground charging stations, and resurfacing with asphalt and/or concrete. Future vehicle charging stations and below ground utility locations are currently unknown. Above ground building structures are not planned at the Site. If enclosed buildings are constructed at the Site, an additional methane investigation to comply with Los Angeles City methane requirements and a soil vapor investigation to evaluate vapor intrusion must be conducted.

2.2.1 Recommended Areas for Special Handling

Based on previous environmental assessments any soil excavated at both the north and south parcels must be sampled to determine proper disposal as described in **Section 8.1** of this SMP. In addition, known areas of potential hazardous waste soil should be segregated from other site soils as described below.

North Parcel

Soil at borings B-10, B-11, and B-14 (see **Figure 2**) are known to be contaminated with lead and/or mercury in exceedance of hazardous waste criteria. Soil in the vicinity of these borings must be

segregated, sampled, and disposed of in accordance with the procedures described in this SMP. If soil in these areas are not disturbed during construction, these areas must be covered with asphalt or concrete to mitigate any future potential health risk.

South Parcel

The upper 2-feet of soil are known to be contaminated with lead in exceedance of hazardous waste criteria or with elevated total lead that was not analyzed to determine if it exceeds the hazardous waste criteria (see **Figure 3**). Therefore, the upper 2-feet of soil excavated within the south parcel must be segregated, sampled, and disposed of in accordance with the procedures described in this SMP. If there are areas of the south parcel that will not be disturbed during construction, these areas must be covered with asphalt or concrete to mitigate any future potential health risk.

3.0 KEY ROLES AND RESPONSIBILITIES

The following are the key roles and associated responsibilities for implementation of the SMP.

3.1 DEVELOPER

The Developer will be responsible for selecting the redevelopment General Contractor (GC) and ensuring they are properly trained, capable of implementing the SMP and monitoring the GC's implementation to ensure compliance with the SMP requirements.

3.2 GENERAL CONTRACTOR

The GC and/or their authorized representative shall implement the SMP and be responsible for ensuring proper handling of the following:

- Stockpiling of excavated soil. Stockpile requirements are further discussed in **Sections 5.4.1 and 6.1**.
- Waste segregation and characterization.
- Documentation and labeling of waste drums/containers, including pre-transport requirements (packing, marking, labeling, storing, and placarding of hazardous wastes before shipping).
- Tracking and maintaining waste inventory.
- Procurement of waste profiles and manifests, signatures, qualified transporter, and disposal records (e.g., weight tickets, bill(s) of lading, and waste manifests).
- Preparation of all plans, procurement of all necessary permits, and implementation of all SMP requirements discussed in **Sections 4.0 through 9.0**.

3.3 HARBOR DEPARTMENT

The Harbor Department will review the Developers site-specific Application for a Port Permit (APP). An approved APP must be received by the Developer prior to any activities that require ground disturbance at the Site.

For questions regarding this SMP the contact is Ms. Rita Brenner, rbrenner@portla.org, of the Harbor Department's EMD.

Ms. Brenner shall be notified of all unexpected observances and occurrences of soil and/or groundwater contamination (e.g., discolored soil, odorous soil, free product, etc.)

4.0 HEALTH AND SAFETY PLAN, TRAINING, AND CERTIFICATIONS

4.1 HEALTH AND SAFETY PLAN

A Health and Safety Plan (HaSP) must be prepared for the Site by the GC and signed by a Certified Industrial Hygienist (CIH). Information to be used by the CIH regarding known COCs at the Site are provided in **Appendix A**. The HaSP must outline the minimum health and safety requirements to safely conduct work at the Site. The HaSP must provide guidance for the handling of known and unknown hazards that may be encountered at the Site as well as guidance to ensure a safe work environment for GC and subcontractor personnel working at the Site. The HaSP must incorporate the requirements specified by Cal-OSHA Hazardous Waste Operations Standards (Title 29 CFR, Section 1910.120) and California Code of Regulations (Title 8 CCR, Section 5192). If deemed necessary by the CIH, the HaSP must incorporate the requirements for lead monitoring specified in Cal-OSHA Title 8 CCR, Section 1532.1. The HaSP must outline the anticipated physical and chemical hazards that may be encountered at the Site during construction. The HaSP must include protocols for the safe entry by personnel of excavations (utility trench) under confined space conditions as defined by Cal-OSHA (Title 8 CCR, Subchapter 4, Article 6, Section 1540).

The HaSP must address the appropriate level of Personal Protective Equipment (PPE) for onsite workers during construction activities at the Site. At a minimum, Level D PPE, including steel-toed boots, hard hats, safety goggles, hearing protection, and work gloves, for all construction work. The HaSP must include a description of conditions, events, action levels, or encounters that will require an upgrade in the level of PPE.

The Contractor must hold tailgate safety meetings to discuss potential hazards at the beginning of each workday, when new personnel are introduced to the Site, and when new conditions or hazards arise to warrant such meetings. These meetings will identify potential workplace hazards and problems so that appropriate control measures can be implemented. Copies of tailgate safety meeting notes and a list of attendees will be kept onsite by the Contractor until the completion of the project for documentation purposes.

4.2 TRAINING

Field personnel implementing the project scope at the Site must complete the training requirements of Occupational Safety and Health Administration (OSHA) hazardous communication 29 Code of

Federal Regulations (CFR) 1910.1200. This training will be updated continuously, as environmental concerns are addressed at tailgate safety meetings, or as needed. In addition, construction personnel must complete a Hazardous Waste Operations and Emergency Response (HAZWOPER) 24-hour or 40-hour training course, as applicable to their responsibilities, and an annual 8-hour refresher course, according to OSHA standard 29 CFR Part 1910.120 and 8 CCR § 5192.

Personnel visiting the Site shall, at a minimum, follow the health and safety requirements as described in the approved Site-specific HASP as well as the instructions of the designated Site Health and Safety Officer (SHSO) when work is in progress. Equipment operators will be instructed regarding moving equipment in a manner that minimizes job hazards and any impacts to the environment.

The GC must provide a trained competent person to design and oversee the safe entry of excavations under confined space conditions.

4.3 CERTIFICATIONS

Contractors testing and handling different types of waste must have appropriate qualifications, licenses, registrations, and required permits including, but not limited to, California contractor and/or hazardous waste remediation contractor license (for excavation and handling of hazardous waste), California Department of Transportation (DOT) registration (for the transportation of hazardous waste), and South Coast Air Quality Management District (SCAQMD) Rules 403, 1166 and 1466 (**Appendix B**), as necessary, to complete the proposed redevelopment work.

The GC's Storm Water Pollution Prevention Plan (SWPPP) must be prepared by a California certified Qualified SWPPP Developer (QSD) and SWPPP monitoring must be conducted by a California certified Qualified SWPPP Practitioner (QSP).

5.0 GENERAL REQUIREMENTS

Chemically impacted soil (CIS) as documented in Section **1.2** will be encountered in surface and subsurface soil at the Site during construction activities. This section presents the requirements for the sampling, handling, and management of soils and water removed from beneath the Site.

5.1 SITE CONTROL

The Site will be controlled to prevent access by unauthorized personnel using temporary fencing and gates. Gates will be closed and secured/locked during non-work hours. Inside the fenced area additional temporary fencing, delineators, cones, caution tape, or other measures will be employed to designate and isolate excavations and soil stockpiles.

5.2 DUST AND AIR POLLUTION CONTROL

To reduce the generation and potential migration of fugitive dust and VOC containing vapors, the GC will implement control measures described in SCAQMD Rules 403, 1166, and 1466. Rule 403 and the specified fugitive dust control measures are applicable during the excavation, loading, stockpiling, transport, grading, and compaction of all soil within the boundary of the Site. Rule 1166 applies to the handling, excavation, loading, stockpiling, and transporting of VOC contaminated soil. Rule 1166 defines VOC contaminated soil as "a soil which registers a concentration of 50 ppm or greater of VOCs as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane". Because TPH and VOCs are known Site COCs it is likely that VOC contaminated soil will be encountered during construction activities. Therefore, the GC would require a various location or site-specific Rule 1166 permit issued by the SCAQMD. Rule 1466 is also applicable for the control of particulate emissions from soil with toxic air contaminants. A copy of SCAQMD Rules 403, 1166 and 1466 requirements are provided as **Appendix B.**

5.3 STORMWATER CONTROL

Stormwater pollution controls will be implemented by the GC for earthwork activities. The GC will be responsible for preparing a project SWPPP by a California certified QSD prior to the start of work. The SWPPP will specify stormwater Best Management Practices (BMPs) and controls to be implemented. Implementation and monitoring of the SWPPP will be conducted by the GC's

California certified QSP. Prior to construction work, a SWPPP Notice of Intent (NOI) application will be completed by the GC's QSD using the California Water Boards online Stormwater Multiple Application and Report Tracking System (SMARTS - https://smarts.waterboards.ca.gov/). At the completion of construction activities the GC's QSP will file a Notice of Termination (NOT) using SMARTS.

5.4 OTHER AIR MONITORING REQUIREMENTS

Other potential air monitoring requirements to ensure the safety of construction personnel and general public must be evaluated during the CIH's preparation of the HaSP, and if deemed necessary additional air monitoring requirements shall be incorporated into the HaSP. This may include but is not limited to lead compliance monitoring in conformance with Cal-OSHA Title 8 CCR, Section 1532.1.

5.4.1 Soil Stockpile and Container Staging

Excavated soil that will be temporarily stockpiled on-site must be segregated into CIS stockpile(s) and stockpile(s) for excavated soil that is believed not to be chemical impacted (non-CIS). Known CIS Site areas are described in **Section 1.2**.

CIS and non-CIS stockpile staging areas must not be located near storm drain inlets, channels, or high stormwater flow or accumulation areas. The stockpile staging area must be grubbed of vegetation and surface obstructions removed (debris, rocks, etc.) that could puncture a tarp or plastic sheeting. Soil stockpiles must be placed on and covered with a relatively impermeable liner such as tarp or heavy plastic sheeting. The impermeable liner and cover must be overlapped a minimum of 24-inches and properly secured to prevent wind and rain damage. A stockpile barrier, such as berms, dikes, silt fences, or sand/gravel bags must be constructed around the stockpile perimeter. Stockpile management must comply with SWPPP BMPs and if appropriate SCAQMD Rule 1166 for VOC contaminated soil.

Excavated soil that will be temporarily stored on-site in containers must also be segregated into CIS and non-CIS containers. Appropriate containers include a roll-off bin or a Department of Transportation (DOT) approved 55-gallon drum. The container staging areas must not be located near storm drain inlets, channels, or high stormwater flow or accumulation areas.

Soil stockpiles and waste containers will be removed from the Site and disposed of in a timely manner following chemical profiling. Stockpiled or containerized soil that is determined to be hazardous waste will be stored in accordance with hazardous waste regulations and removed from the Site within 90 days of accumulation. Stockpiled soil that has been determined to be VOC contaminated soil and subject to SCAQMD Rule 1666 must be removed from the Site within 30 days from its excavation.

6.0 SAMPLING AND ANALYSIS

Soil must be sampled to properly characterize soil for disposal (CIS) or to determine if the soil can be reused on-site (Non-CIS). Under no circumstances can non-CIS soil, determined to be suitable for reuse, be used at a location other than the Site. All sampling must be conducted by the GC's qualified personnel having adequate experience with sampling techniques to ensure collection of representative samples, proper sample preservation, equipment decontamination procedures, and chain-of-custody procedures and documentation.

6.1 STOCKPILES AND CONTAINERS

Soil sampling, stockpiles or containers, for both CIS and non-CIS material shall be conducted in accordance with the Port of Los Angeles Environmental Guidance for Industrial Fill Material, December 2021 (**Appendix C**). This guidance document details the number of samples required (sample frequency), analysis to be performed, and acceptable chemical concentrations for reuse at the Site.

Pursuant to **Appendix C**, the number of samples required is based on the total volume of stockpiled or containerized soil as follows:

- Soil volume is estimated to be less than or equal to 1,000 cubic yards (cy), the total number of samples to be collected will be one (1) per 250 cy.
- Soil volume is estimated to be 1,000 to 5,000 cy, the total number of samples to be collected will be four (4) samples for the first 1,000 cy, plus one (1) for each additional 500 cy.
- Soil volume is estimated to be greater than 5,000 cy, the total number of samples to be collected will be 12 for the first 5,000 cy, plus one (1) for each additional 1,000 cy.

It is imperative that the samples collected are representative of the overall soil volume. To ensure the collection of representative samples, sample locations must include areas where soil is observed to be discolored, odorous, or other evidence of contamination is observed. If contamination is not evident, then random sampling can be conducted. Random sampling must include a horizontal and vertical distribution of sample locations across the stockpile or container. Collecting samples below the stockpile or container soil surface (vertical sample distribution) may require the use of a hand auger or backhoe/excavator to reach the desired sample depth. Such

equipment must be properly decontaminated prior to use and between sample locations (**Section 7.2**).

6.2 IN-SITU SAMPLING

In-situ sampling in advance of soil excavation can be conducted. In-situ sampling provides the advantage of characterizing and profiling soil for disposal so that direct loading during excavation and immediate transportation to the appropriate disposal facility can be conducted. This approach may also be necessary if sufficient area is not available to stage stockpiles or containers. However, in-situ sampling does not provide the same level of confidence compared to sampling a stockpile where contamination can be observed. As a result, the number of samples needed for in-situ sampling is usually more than from a stockpile or container. If in-situ sampling is conducted, a sampling plan must be prepared and approved by the Harbor Department's EMD. The sampling plan must include the volume and depths of excavation, a map showing the proposed sample locations and depths, and sample collection method(s).

6.3 LABORATORY ANALYSIS

Based on known COCs at the Site, CIS and Non-CIS material must be analyzed by a National Environmental Laboratory Accreditation Program (NELAP) analytical laboratory for the following:

- TPH (C_6-C_{44}) by EPA Method 8015M.
- Title 22 Metals by EPA Methods 6010B/7471A.
- VOCs by EPA Method 5035/8260B (using either Terracore® or Encore® sample kits for 5035 sample preparation).
- PAHs by EPA Method 8270C SIM.
- PCBs by EPA Method 8082.
- Soluble Threshold Limit Concentration (STLC), as necessary.
- Toxicity Characteristic Leaching Potential (TCLP), as necessary, if the total concentration of each analyte meets or exceeds its respective 20 times TCLP value.

Trip blanks provided by the laboratory must also be analyzed when samples are submitted to the laboratory for VOC analysis. Sample preparation and analysis shall be completed within the required method holding time.

Samples must be logged on a chain-of-custody form and stored on ice in a thermally insulated cooler at a temperature of 4 degrees Celsius (°C) ± 2°C immediately following collection of samples, and during transport to the laboratory.

Additional analyses may be required if excavated soil is further segregated due to odors, discoloration, or other evidence of contamination. Harbor Department's EMD must be notified if for any reason workers suspect evidence of contamination other than those identified as Site COCs.

6.4 WATER SAMPLING AND ANALYSIS

Generation of water (equipment decontamination water, and stormwater) must be sampled to properly characterize the waste stream for on-site discharge or off-site disposal. If the GC plans on discharging liquid wastes on-site, such discharge must meet the requirements of an approved National Pollutant Discharge Elimination System (NPDES) permit. For off-site liquid waste disposal (not utilizing an NPDES permit) each liquid waste stream type must be sampled separately in appropriately preserved laboratory-supplied containers and analyzed, at a minimum, for the following:

- TPH (C_6-C_{44}) by EPA Method 8015M.
- Title 22 Metals by EPA Methods 6010B/7471A.
- VOCs by EPA Method 8260B.
- PAHs by EPA Method 8270C SIM.
- PCBs by EPA Method 8082.

Trip blanks provided by the laboratory shall also be analyzed when samples are submitted to the laboratory for VOC analysis. Sample preparation and analysis shall be completed within the required method holding time.

7.0 DECONTAMINATION PROCEDURES

Decontamination procedures must be implemented for sampling equipment and trucks, to prevent cross-contamination of waste streams/material or track-out of contamination. Decontamination will be conducted on plastic sheeting (visqueen) or within secondary containment to prevent potential dispersal of CIS and decontamination wastewater. CIS removed during general decontamination shall be collected and containerized or stockpiled for disposal as described in **Section 6.1**. Wastewater shall be accumulated in either DOT approved 55-gallon drums or temporary storage tanks (e.g., Baker tanks) and sampled for discharge and/or disposal as described in **Section 6.4**.

7.1 HEAVY EQUIPMENT AND TRUCKS

Prior to leaving the site, all vehicles including heavy equipment and trucks entering areas of possible contamination will be decontaminated. Decontamination of trucks will include wheel shakers to remove gross soil particles, followed by brushing off the tires/wheels. If brushing does not prove effective, the GC will use a pressure washer to thoroughly clean the tires. If wash fluids are used at the Site, care must be taken to clean vehicles such that the wash fluids remain within a visqueen lined decontamination area. Where possible, personal vehicles will not be driven or parked in areas of potential contamination to minimize the generation of decontamination fluids.

7.2 SAMPLING EQUIPMENT

Reusable sampling equipment, such as hand augers, shovels, trowels, etc., must be decontaminated prior to use and between each sample to be collected. Sampling equipment must be decontaminated in a three stage process using buckets or containers. Prepare and fill a container with a solution consisting of Liquinox and tap water (Container #1). The equipment must be brushed and cleaned thoroughly in this container. Once the equipment is observed to be clean it must be rinsed with tap water (Container #2). A final rinse must be conducted with deionized water (Container #3). At any time the containers contents are soiled to the point decontamination is not effective, then the decontamination liquid must be changed with fresh liquid and the contaminated liquid place in DOT approved 55-gallon drum for sampling and disposal as described in **Section 6.4**.

8.0 WASTE HANDLING

To classify the waste and determine appropriate disposal requirements, analytical results of waste samples (soil, storm water, decontamination liquid) will be compared to applicable federal, state, and local waste characterization criteria, including but not limited to hazardous characteristics (corrosivity, reactivity, ignitability, and toxicity), Resource Conservation and Recovery Act (RCRA) TCLP and California TTLC and STLC values, and landfill waste discharge requirements issued by the Regional Water Quality Control Board or other local governing agency. Waste soil being assessed for on-site reuse potential must meet all testing requirements as stated in the POLA industrial fill requirements, which are included in **Appendix C.**

8.1 WASTE CLASSIFICATION

Soil and liquid wastes may be classified as one or more of the following categories:

- **Non-hazardous:** wastes that are not listed, do not exhibit hazardous characteristics, and contain concentrations of regulated chemical constituents below federal (RCRA) and state (non-RCRA) hazardous waste limits.
- **California hazardous (non-RCRA hazardous) waste:** wastes that are listed, exhibit hazardous characteristics, and/or contain concentrations of regulated chemical constituents above hazardous waste limits (TTLCs and/or STLCs) according to California (non-RCRA) hazardous waste criteria, but that are not federal (RCRA) hazardous wastes.
- **Federal hazardous (RCRA hazardous) waste:** wastes that are listed, exhibit hazardous characteristics, and/or contain concentrations of regulated chemical constituents above federal (RCRA) hazardous waste limits (TCLP values).

8.2 WASTE DISPOSAL

All solid and liquid waste transported for offsite disposal/treatment must be accompanied by a non-hazardous or uniform hazardous waste manifest signed by an authorized representative. Disposal/treatment facilities must be established by the generator (Developer). For acceptance of the waste, a waste profile filled out by the generator, will be required by disposal/treatment the generator. At no time with the City of Los Angeles Harbor Department be named as the generator.

If a waste stream is determined to be a non-RCRA California hazardous waste or RCRA hazardous waste the developer must obtain a generator hazardous waste EPA identification number that is specific to the Site. To obtain the appropriate site-specific generator hazardous waste number refer to https://dtsc.ca.gov/apply-for-hazardous-waste-epa-id-number/.

8.3 WASTE DOCUMENTATION

Original copies of laboratory analytical reports associated with waste characterization and disposal profiling; work logs documenting field activities involving waste sampling, handling, management, transportation, and disposal; and waste disposal records, including signed waste manifests, bills of lading, and weight tickets, shall be retained by the Developer and available for review by the Harbor Department, if requested.

9.0 POLLUTION PERVENTION AND CONTROL

Preventative measures must be used within the Site to ensure no accidental release of hazardous materials. The GC's Manager or designee will conduct visual inspection of the worksite to ensure compliance with this SMP and keep written records of inspection.

9.1 MATERIAL AND EQUIPMENT STAGING AREA

Material and equipment staging areas must be clearly demarcated and diesel fuel, gasoline, oil, grease, and/or chemical products used during construction must be properly labelled and stored in this area. The staging area must be bermed around the perimeter with a 110% containment capacity. Maintenance of equipment must take place in a designated maintenance area or offsite. Preventative measures must be employed to minimize the potential of a spill.

9.2 TRUCK LOADING

Trucks will be loaded with soil at a specified loading area for transport to the designated disposal/treatment facility. Plastic sheeting must be placed on the ground at the truck loading area in a manner sufficient to capture soil that falls from the loader bucket or in the event the truck is accidently overloaded. This plastic sheeting should be disposed of with the last truck load(s) of soil being transported off-site for disposal/treatment.

9.3 REFUELING

Equipment refueled on-site must be conducted in a specified location determined by the GC. A spill kit with absorbent material must be kept near the designated fueling area in case of accidental discharge of fuel. If an accidental fuel discharge occurs, the spill kit and absorbent material must be employed to remove as much free-flowing fuel as possible. Used absorbent and waste fuel shall be stored in proper containers, labeled, manifested, and disposal at an appropriate facility. As soon as the discharged is contained, the GC must notify the Harbor Department. The Harbor Department will inspect the discharge area and determine if additional measures or further cleanup is required by the GC.

10.0 LIMITATIONS

Our judgments and conclusions in this SMP are based upon the analytical data and information acquired during previous investigation and our experiences on similar projects. Changes in subsurface conditions found could occur at some time in the future due to variations in rainfall, temperature, land use (both on-site and off-site), or other factors. These changes can affect the behavior of materials and contaminants in soil, soil vapor, and groundwater.

The data obtained from the collected samples does not preclude the presence of other chemical materials at the Site that may or may not be considered a chemical of concern. Further, changes in applicable regulatory standards periodically occur as a result of legislative actions and/or studies. This may result in the findings of this report being invalidated, wholly or in part, by changes beyond our control.

Opinions and judgments expressed within this report are based upon our understanding and interpretation of current regulatory standards and should not be used as legal opinions. The services provided for this project have been performed in accordance with the Scope of Work and the contract with the City of Los Angeles Harbor Department. The services performed have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in Southern California. Pacific Edge Engineering, Inc. makes no warranty, expressed or implied.

Figures

0 50' 100' 150' 200'

SCALE
1" = 100'

NORTH AND SOUTH PARCELS
WILMINGTON, CALIFORNIA

SITE LOCATION MAP

Pacific Edge Engineering, Inc.

CHECKED BY:	CAS
DRAFTED BY:	CAS
FILENAME:	
DATE:	10/10/2023

FIGURE
1

NORTH PARCEL BOUNDARY

PARSONS BORING (2018)

RED BORING INDICATES SOIL EXCEEDS HAZARDOUS WASTE CRITERIA FOR LEAD/AND OR MERCURY.

0 15' 30' 45' 60'

SCALE
1" = 30'

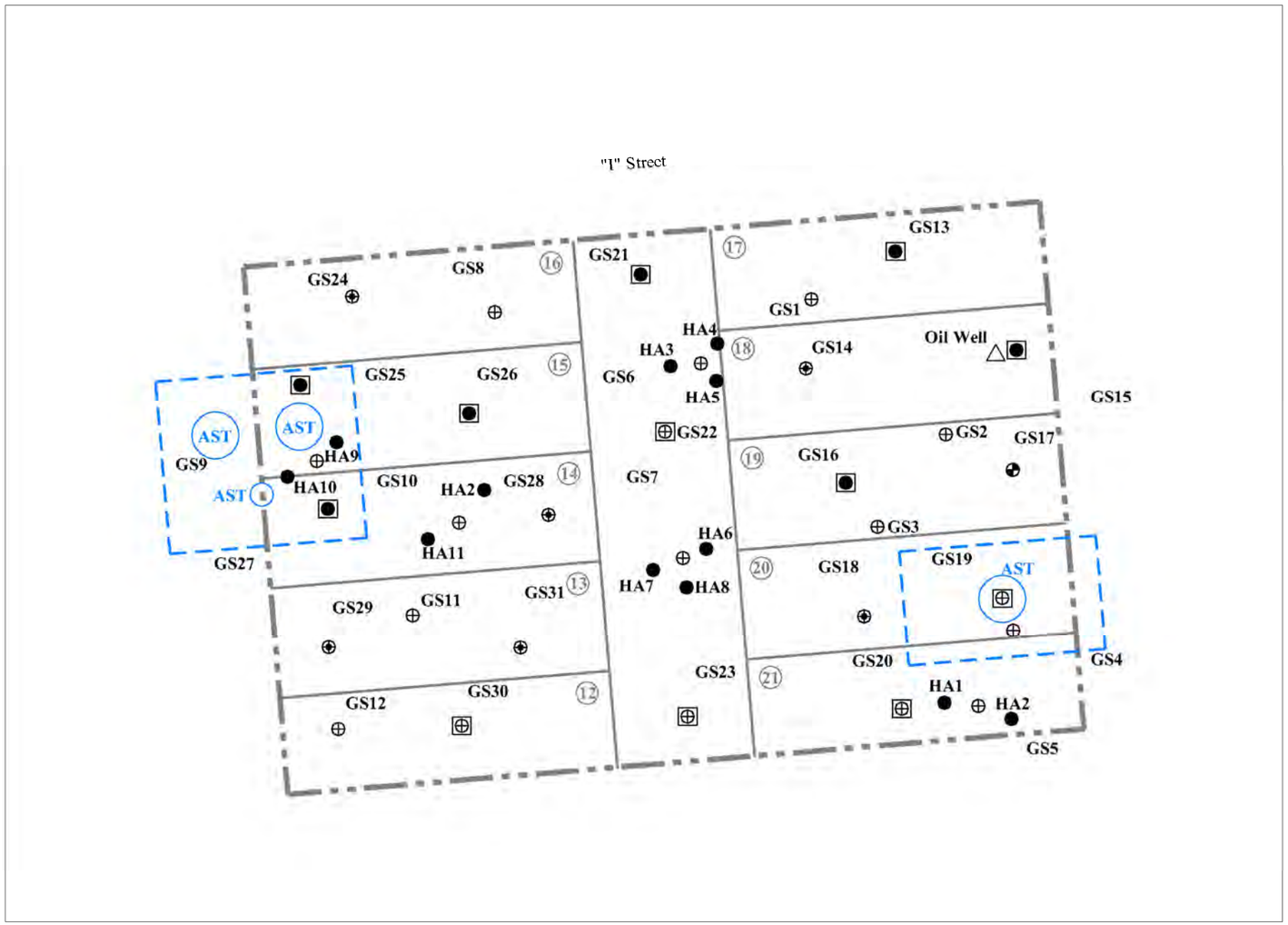
1517-1520 EAST "I" STREET
WILMINGTON, CALIFORNIA

NORTH PARCEL

Pacific Edge Engineering, Inc.

CHECKED BY:	CAS
DRAFTED BY:	CAS
FILENAME:	
DATE:	10/19/2023

FIGURE
2



LEGEND

- △ = Oil Well
- ● = Hand Auger Location - Oct 2008
- ⊕ = Soil & Soil Gas Sample Locations - Oct 2007
- ⊕ = Soil Sample Location - Oct 2008
- ◒ = Soil & Soil Gas Sample Location - Oct 2008
- ⊞ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank

PORT OF LOS ANGELES
1510 E "I" STREET
WILMINGTON, CA

FIGURE 3
SOUTH PARCEL

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		

PACIFIC EDGE ENGINEERING, INC.
JENKINS ENVIRONMENTAL ASSOCIATES

Appendix A

PREVIOUS INVESTIGATION REPORTS

PACIFIC EDGE ENGINEERING
(949) 470-1937; (949) 470-0943 (FAX)

1517-1519 AND 1520 EAST I STREET BASELINE ENVIRONMENTAL ASSESSMENT WILMINGTON, CALIFORNIA

APP 160720-109

Prepared for
City of Los Angeles Harbor Department

June 15, 2018

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

1517-1519 and 1520 East I Street Baseline Investigation
WILMINGTON, CALIFORNIA
APP 160720-109

Prepared for

City of Los Angeles Harbor Department

June 15, 2018

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

Reviewed by: _____ 6/15/18

Carrie Crozier, PG — Date

Reviewed by: _____ 6/15/18

Jim Goepel
Project Manager — Date

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ACRONYMS

ASTM	American Society for Testing and Materials
bgs	below ground surface
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
EB	Equipment Blank
EMAX	EMAX Laboratories, Inc.
EMD	Environmental Management Division
EPA	Environmental Protection Agency
ft	feet
IDW	investigation-derived waste
ILWU	International Longshore and Warehouse Union
L	Liter
LACDPH	Los Angeles County Department of Public Health
LAHD	City of Los Angeles Harbor Department
LNAPL	Light non-aqueous phase liquid
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
PAH	Polyaromatic hydrocarbon
PCB	Polychlorinated biphenyl
PID	photoionization detector
ppm	parts per million
PVC	polyvinyl chloride
RCRA	Resources Conservation and Recovery Act
RSL	risk screening level
Site	1517 to 1520 East I Street
STLC	Solubility threshold leaching characteristic
TB	Trip Blank
TCLP	Toxicity characteristic leaching procedure
TPH	Total petroleum hydrocarbons
TPHd	Total petroleum hydrocarbons as diesel (C13-C22)
TPHg	Total petroleum hydrocarbons as gasoline (C5-C12)
TPHmo	Total petroleum hydrocarbons as motor oil (C23-C40)
VMP	vapor monitoring probe
VOCs	volatile organic compounds

1.0 INTRODUCTION

This *East I Street Parcels Baseline Investigation* was prepared by Parsons on behalf of the City of Los Angeles Harbor Department (LAHD) Environmental Management Division (EMD). This report documents the procedures and results for the installation of five temporary groundwater monitoring wells and a depth-discreet soil and soil gas investigation at the site which consists of two vacant properties (Site) located at 1517-1519 East I Street (north of I Street), and 1520 East I Street (south of I Street), in Wilmington, California (**Figure 1**). This work was conducted to provide a baseline assessment for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), metals and polychlorinated biphenyl (PCBs). The Site is vacant and unpaved with minimal vegetation and is divided by the 1500 block of East I Street which runs approximately east-west.

The sampling was implemented at the request of EMD to provide baseline soil, soil gas, and groundwater concentrations prior to leasing the properties. Previous investigations of the southern property including *Phase I Environmental Site Assessment* (Pacific Edge Engineering, 2007) and a *Supplemental Subsurface Investigation Report* (Pacific Edge Engineering, 2009) indicate TPH, VOCs, metals, and PCB-impacted soil, TPH and VOC-impacted groundwater, and VOC and methane-impacted soil gas. The scope of the baseline site assessment was developed with EMD to evaluate changes in site contaminant concentrations since 2009 for the southern property and provide a summary of current site conditions for both properties prior to leasing the property.

1.1 Site Background

The Site is located in Wilmington, California (**Figure 1**). The surrounding area consists of industrial and commercial use properties. Two properties within a quarter mile of the Site have open environmental cases. A Texaco service station to the south at 1625 Anaheim Street has active remediation for TPH as gasoline (TPHg). The International Longshore and Warehouse Union (ILWU) Local 13 Dispatch Hall Project to the south at 1500 East Anaheim Street is in post-remediation monitoring for petroleum impacts to soil, groundwater and soil gas. These cases are downgradient to crossgradient from the Site.

Historically, the southern property (1520 E I Street) was used as a salvage and storage yard for automobiles, boats and recreational vehicles. In 2007 a Phase I Environmental Assessment was conducted by Pacific Edge Engineering Inc. (PEE) and found an oil well and above-ground storage tanks located on Site from 1955 through at least 2007. The oil well was removed after 2007. Soil impacts including TPH, metals, and PCBs from automobiles, boats and recreational vehicle scrap yard activities have been detected on-site. The northern property (1517-1519 E I Street) has remained undeveloped and unused, although some historical topographic maps indicate that there may have been an oil well located near the eastern property boundary. No previous environmental investigations of the northern property were identified. Both properties are currently unpaved lots with no aboveground structures (**Figure 2**).

1.2 Site Hydrogeologic Conditions

The lithology at the Site is discontinuous layers of sand and silt with occasional clay and gravel. The top of a continuous fine gray sand was encountered between 8 and 14 feet (ft) below ground surface (bgs) in borings on both properties. Groundwater is generally within the light gray sand at approximately 10 ft bgs; groundwater was detected as shallow as 9.5 ft bgs and as deep as 14 ft bgs. Groundwater in the Site vicinity is designated as beneficial for municipal, agricultural, industrial, and industrial process

water. Depth to water in groundwater wells near the Site typically ranges from between 6.7 to 12.5 ft bgs. The groundwater gradient is generally to the southwest (GeoTracker, 2018).

1.3 Chemicals of Potential Concern

The chemicals of potential concern based on site history and previous investigations include: petroleum hydrocarbons, VOCs, PAHs, metals (including arsenic, cadmium, lead), and PCBs. According to the Phase II Supplemental Subsurface Investigation Report (Pacific Edge Engineering, 2009), several of these contaminants were detected above acceptable regulatory screening levels (industrial preliminary remediation goals (PRG), California Human Health Screening Levels (CHHSL), Maximum Contaminant Level (MCL), and hazardous waste levels) on the southern property.

2.0 OBJECTIVES AND WORKSCOPE

The objectives of this scope were to provide a baseline assessment of soil, groundwater, and soil gas conditions including concentrations of TPH, VOCs, PAHs, metals and PCBs.

1. Soil was sampled from 16 borings ranging in total depth from 5 to 15 ft bgs (**Figures 3 through 5**).
    a. Six soil boring locations on the southern property (B1 to B6) were selected based on historical site data. Samples were collected to assess changes to TPH concentrations since the 2008 sampling event, and to further define the extent of historical detections of metals, PAHs, and PCBs.
    b. No historical data existed for the northern property, therefore a grid of approximately 50 by 50-foot cells was developed. The soil boring locations on the northern property (B7 to B15) were biased to collect samples from the lowest surface point within each cell, otherwise the soil sample location was approximately the center of the cell.
2. Groundwater samples were collected from temporary groundwater monitoring wells installed in B1 and B2 on the southern parcel, and B7, B11, and B14 on the northern parcel (**Figures 6 and 7**). An attempt was made to collect a groundwater sample from B2 and is discussed in detail in Section 3.3 below.
3. Soil gas samples were collected by installing soil vapor probes with screens at 5 ft bgs. Soil vapor probes were installed at boring locations B-1, B-2 and SG-2 on the southern property and B8, B10, B12, and B14 on the northern property (**Figure 8**).

The following sections describe the investigative methods and procedures, sample analysis program, sample handling, decontamination procedures, and management of investigation-derived wastes (IDW). Site work was conducted in accordance with the *Parsons Health, Safety, Security, and Environmental Plan* (2018).

Field work was implemented in accordance with California Department of Water Resources (DWR) Bulletin 74-90 and County of Los Angeles requirements.

2.1 Pre-Drilling Procedures

Prior to field mobilization and temporary monitoring well installation, approved monitoring well permits were obtained from the County of Los Angeles Department of Public Health (DPH). Copies of the approved monitoring well permits are provided in **Appendix A**. The temporary monitoring wells were installed in accordance with applicable Los Angeles County requirements.

Prior to drilling and well installation, boring locations were geophysically surveyed for underground utilities and other potential subsurface structures by Geovision, a licensed geophysical survey contractor based in Corona, California. White paint and stakes were placed on the ground at each proposed drilling location and Underground Services Alert was notified a minimum of 48 hours in advance of drilling operations. Prior to drilling, the proposed drilling locations were cleared a minimum of five feet bgs using a hand auger.

2.2 Soil Borings and Soil Sample Collection

Fifteen borings were advanced using a limited-access direct push drill rig by Gregg Drilling and Testing, Inc. Sampling was conducted with a 2-inch diameter direct push rod lined with an acetate sleeve. Samples were continuously cored in 48-inch intervals. One soil boring (SG-2) was advanced to total depth of 5 ft bgs using a hand auger. The borings were continuously sampled and logged below a depth of 5 ft bgs. The field geologist prepared boring logs (**Appendix B**) in the field, and recorded information which included the boring and sample identification and location, date and time, sample depth, lithologic description in accordance with the United Soil Classification System, description of any visible evidence of soil impacts (e.g., odor, staining), and organic vapor readings.

Soil samples for chemical analyses by a fixed laboratory were collected during drilling at approximately 0.5, 2, 5, 10, and 15 feet bgs. Samples were collected by opening the acetate sleeves and placing soil into the laboratory-provided sample container. TPHg and VOC samples were collected in Terracore sampling kits. All soil sample containers were labeled and placed in sealed plastic bags, which were then placed in a cooler with ice for shipment to the analytical laboratory. Soil samples were transported under chain-of-custody to EMAX Laboratories, Inc. (EMAX), a California Department of Health Services-certified laboratory, in Torrance, California. EMAX's Analytical Laboratory Reports are included as **Appendix C**.

A Mini-Rae® 3000 photoionization detector (PID) was calibrated daily with 100 parts per million (ppm) isobutylene gas. The PID was used to monitor the presence and concentration of organic vapors in the borings and to screen soil samples, as well as breathing space around the borehole.

For field screening of soil samples for VOCs by headspace screening, PID was held approximately 3 inches from the core at 6-inch intervals to evaluate soil concentrations between sampling intervals. At sampling intervals, soil was placed into a resealable plastic bag. Each bag was allowed to sit exposed to the sun for approximately 5 minutes, at which time the VOC concentration in the headspace was measured by inserting the PID probe inside the plastic bag. The PID readings were recorded on the boring logs prepared by the field geologist during drilling activities.

Soil cuttings generated during drilling were placed in a properly labeled Department of Transportation (DOT) approved 55-gallon drum. The drum will be removed from the Site for proper offsite disposal.

2.3 Temporary Well Drilling and Construction

The five temporary monitoring wells were drilled to 15 feet bgs. The temporary monitoring wells were constructed with 3/4-inch diameter, flush-jointed and threaded, Schedule 40 polyvinyl chloride (PVC) casing, and screen. The screens were capped at the bottom with a threaded end cap. All well materials (e.g., riser pipe, screen, end cap, etc.) were kept clean prior to down-hole placement. Screen intervals in all temporary wells extended from 10 to 15 ft bgs.

Groundwater samples were collected from the temporary wells in borings B1, B7, B11, and B14 with a disposable bailer, and placed in laboratory-provided glassware. Grab groundwater samples were analyzed by EMAX for TPH, VOCs for all wells and PAHs for B7, B11, and B14. An attempt was made to collect groundwater samples from a temporary well in boring B2, however globules of light non-aqueous phase liquid (LNAPL) were observed in the bailer. At the completion of sampling, the temporary well point was removed from the boring, and the boring was grouted from the bottom up via tremie pipe with a cement/bentonite grout.

2.4 Soil Gas Probe Construction

Temporary soil gas probes B1-5, B2-5, B8-5, B10-5, B12-5, B14-5, and SG7-5 were installed as temporary vapor monitoring probes (VMPs). A 2-inch long polyethelyene soil gas probe tip was connected to ¼-inch outer diameter Nylaflow tubing, which extended from ground surface to approximately 5 ft bgs. The screens were centered within approximately 1 foot of #2/12 sand so that approximately 5 inches of sand extends above and below the screen. One foot of dry granular bentonite was placed immediately above each sand interval and then topped with hydrated bentonite chips. The vapor monitoring probes were allowed to equilibrate at least 48 hours prior to leak testing, purging, and sampling. The probes were sampled in accordance with *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations* (DTSC, 2015).

2.5 Soil Vapor Sampling and Analysis

Prior to purging and sampling, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. If there was any observable loss of vacuum, the fittings were adjusted until the vacuum did not change during the shut-in test.

Prior to purging and sampling, a tracer gas mixture of n-pentane, n-hexane, or n-heptane was placed at the surface next to the tubing to determine if there were any leaks into the subsurface due to improper installation of the probe. No leak detection compound was detected in any of the soil gas samples.

Purge volumes were calculated for each sample probe using the volume of the soil vapor probe, filter pack, dry granular bentonite, and all tubing in the purge/sampling train from the inlet probe to the purge pump. Three purge volumes were removed prior to collecting each vapor sample. The sampling rate was approximately 200 milliliters per minute.

Soil vapor was collected in glass gas-tight syringes equipped with Teflon plungers. The soil gas VOC samples were analyzed by Jones Environmental Laboratory (Jones) mobile laboratory on-site using Environmental Protection Agency (EPA) Method 8260B. Methane samples were collected in 1 liter (L) Tedlar bags and submitted to Jones's fixed laboratory for analysis and analyzed using American Society for Testing and Materials (ASTM) D1946 for Methane (**Appendix D**). Soil gas laboratory analyses were conducted in accordance with DTSC guidelines. One replicate soil vapor sample was collected from B1-5.

3.0 RESULTS

3.1 Lithology

The lithology at the Site is discontinuous layers of sand and silt with occasional clay and gravel. The top of a continuous fine gray sand was encountered between 8 and 14 ft bgs in borings on both properties. Groundwater is generally within the light gray sand at approximately 10 ft bgs, groundwater was detected as shallow as 9.5 ft bgs and as deep as 14 ft bgs. The lithology encountered above is consistent with previous investigative work in the local area.

3.2 Soil Analytical Results

Fifty-four primary soil samples and five duplicate soil samples were collected between the surface and 15 ft bgs. The soil samples were analyzed by EMAX for TPH by EPA Method 8015, VOCs by EPA Method 8260B, Metals by EPA Method 6010, Mercury by EPA Method 7471A, PCBs by EPA Method 8082, and PAHs by EPA Method 8270C-SIM. Copies of the certified analytical laboratory reports are provided in **Appendix C**. Analytical data are tabulated on **Tables 1 through 6** and displayed on **Figures 3 through 5**. Detections of chemicals of potential concern in soil were compared to the DTSC industrial soil Screening Levels from Note 3 (DTSC, 2018) and the EPA (2018) industrial soil Regional Screening Levels (RSLs). TPH concentrations were compared to San Francisco Regional Water Quality Control Board Environmental Tier 1 Screening Levels (SFRWQCB ESLs). The following compounds were detected in the soil above the screening levels during this investigation:

- Total petroleum hydrocarbons as diesel (TPHd) was detected above the SFRWQCB ESL of 1,078 milligrams per kilogram (mg/kg) in boring B2 at 5, 10 and 15 ft bgs. The maximum concentration was 8,600 mg/kg TPHd at 10 ft bgs (**Table 1**).
    - At the northern property, TPH in soil does not exceed screening levels.
    - At the southern property TPH in soil is above SFRWQCB screening criteria near boring B2 and has historically been detected near both of the former ASTs at the property (Pacific Edge Engineering, 2009).
- Arsenic exceeded the DTSC background level for Southern California of 12 mg/kg (DTSC, 2008) in 14 samples analyzed with concentrations ranging from 12.8 to 86.5 mg/kg (**Table 3**).
    - At the northern property, arsenic in soil exceeds the DTSC background concentration of arsenic in soil at all boring locations except B7 and B15. Arsenic in soil exceeds the background level between the surface and 2 ft bgs in B8 through B14. Arsenic in soil exceeds the background level as deep as 10 ft bgs in B9, B13, and B14. Arsenic did not exceed the background level in the three 15 ft bgs soil samples from the northern property.
    - At the southern property arsenic in soil does not exceed the DTSC background concentration of arsenic in soil of 12 mg/kg.
- There were three detections of cadmium above the DTSC industrial soil screening level of 7.3 mg/kg in B3 from 0.5 to 2 ft bgs with concentrations ranging from 10.7 to 18.5 mg/kg. These samples are vertically delineated by a concentration of 0.396 J mg/kg at 5 ft bgs in B3 (**Table 3**).
    - At the northern property cadmium in soil does not exceed the industrial screening level (Figure 4).

- At the southern property, current and historical concentrations indicate that cadmium in soil exceeds the screening level in the central portion of the Site between Lots 15 and 18, and in the eastern portion of Lot 13.

- Lead exceeds the DTSC industrial soil screening level of 320 mg/kg in five samples from B3 and B4 with concentrations ranging from 386 to 1,250 mg/kg from the surface to 2 ft bgs (**Table 3**).
  - At the northern property lead in soil does not exceed the industrial screening level.
  - At the southern property, the exceedances are vertically delineated by concentrations below the screening level at 5 ft bgs in B3 and B4. Consistent with historical data, lead exceeding the screening level is present in the central portion of the Site, and along the southern portion of the Site in Lots 12 and 13.
- Mercury exceeds the DTSC industrial soil screening level of 4.5 mg/kg in B11 (northern property) at 0.5 ft bgs with a concentration of 38.6 mg/kg. No other sample exceeded the screening level for mercury (**Table 3**).
- Soluble Threshold Limit Concentration (STLC) analysis was run for cadmium, chromium, copper, lead, and mercury to determine whether the soil from the Site would be considered a California Hazardous waste. Cadmium from B3-2D at 2 ft bgs, lead from B3-2D, B4-0.5, B10-0.5, B11-0.5, and B14-0.5 ft bgs, and mercury from B11-0.5 ft bgs exceeded the STLC criteria. Based on the data obtained, soil from the top two feet at both properties may be characterized as California hazardous waste. California hazardous concentrations of lead were detected across both properties; California hazardous concentrations of cadmium and mercury in were limited to a portion of the southern parcel.
- Toxicity Characteristic Leaching Procedure (TCLP) analysis was run for lead concentrations in B3-2D and B4-0.5 (southern property), concentrations ranged from 0.343 to 2.72 milligram per liter (mg/L) which are under the TCLP level of 5 mg/L for lead. Thus, no site soils would be characterized as RCRA Hazardous waste.
- VOCs, PCBs, and PAHs were below EPA and DTSC industrial soil screening levels in all samples from this investigation (**Tables 2, 4, and 5**). No further assessment of these compounds is warranted at the northern property.
  - PCBs were historically detected above EPA industrial soil screening levels at the southern property, in the southern portion of the site in Lots 12, 13, 20 and in the central portion of the site. Analytical results from this investigation adequately define the extent of PCBs at the Site.
  - VOCs and PAHs detected in soil at the southern property detected during this and during previous investigations (Pacific Edge Engineering, 2009) were below current EPA and DTSC industrial screening levels.

3.3 Groundwater Analytical Results

Four grab groundwater samples were collected from temporary wells. The groundwater samples were analyzed by EMAX for TPH by EPA Method 8015, VOCs by EPA Method 8260B, and PAHs by EPA Method 8270SIM. Copies of the certified analytical laboratory reports are provided in **Appendix C**.

Analytical data are tabulated on **Tables 7 and 8** and displayed on **Figures 6 and 7**. Detections of chemicals of potential concern in groundwater were generally J flagged low-concentration detections. The only constituent that exceeded the SFRWQCB Tier 1 ESLs is TPHd with a maximum concentration of 1.0 mg/L compared to the ESL of 0.1 mg/L. The following compounds were detected in grab groundwater samples during this investigation:

- Total petroleum hydrocarbons (TPH) was detected ranging from 1.31 to 1.93 mg/L.
    - TPH at the northern property was widespread, and no source for dissolved TPH was identified.
    - TPH at the southern property has changed since the 2009 sampling event. A TPH concentration of 34 mg/L at GS27 in 2008 near the western former ASTs, but lower at a concentration of 1.74 mg/L in a nearby temporary well B1 during this investigation. In the vicinity of the eastern AST, TPH concentration detected in the 2008 sample was 0.140 mg/L, and LNAPL globules were detected at B2 during this investigation. The driver for the change is TPH in groundwater distribution has not been identified.
- VOC detections include toluene (0.29 J µg/L), acetone (up to 13 J µg/L), cis-1,2-dichloroethene (0.38 J µg/L), and MTBE (0.27 J µg/L). No other VOCs were detected in groundwater. VOCs detected in groundwater do not exceed ESLs at either property.
- A single detection of 0.022 J µg/L phenanthrene was the only PAH detected in groundwater. No PAH detections exceed ESLs.

3.4 Soil Vapor Analytical Results

Soil gas samples B1, B2, B8, B10, B12, B14, and SG7 were analyzed for VOCs by TAL using EPA Method 8260B and methane using ASTM D1946. For screening purposes, the soil gas results were compared to US EPA RSLs for industrial soil gas for VOCs and City of Los Angeles Methane requirements. The following compounds were detected in the soil gas samples collected during this investigation:

- Isopropylbenzene, n-propylbenzene, and sec-butylbenzene were detected in the soil-gas sample at B2-5. No other VOCs were detected in the soil gas samples. No VOCs in soil gas exceed the EPA RSL for industrial soil gas. The highest VOC soil gas concentration was 0.566 µg/L sec-butylbenzene detected at B2 at 5 ft bgs. Petroleum odor, staining, and LNAPL globules were noted in this boring during soil and groundwater sampling.
- Methane was detected at a concentration of 0.1% in B2-5; this is equal to the City of Los Angeles Department of Building Safety (LADBS, 2009) criteria for methane mitigation if an aboveground structure is to be constructed in this area. Methane was not detected in any other soil gas samples.

Table 9 summarizes soil gas analytical results which are also depicted on **Figure 8**. Copies of the CoC form and certified laboratory analytical report are included in **Appendix D**.

The leak check compound of n-pentane, n-hexane, and n-heptane was analyzed by EPA Method 8260B. The leak check compound was not detected in the soil gas samples.

3.5 Data Quality Assurance/Quality Control

Three trip blanks (TB) and one equipment blank (EB) samples were submitted to the analytical laboratory for VOC analysis using EPA Method 8260B. The laboratory reported no VOC detections above the respective compounds laboratory reporting limits in the TB and EB water samples. The EB was also analyzed for TPH, metals, and PAHs, a single detection of 0.014 J mg/L TPHg was detected in the EB sample. The laboratory data were reviewed and are considered useable from a decision-making perspective.

4.0 CONCLUSIONS

4.1 Summary

This report documents the baseline sampling work conducted in April 2018 to assess potential constituents of concern in soil, soil gas and groundwater. This investigation included the installation of five temporary groundwater monitoring wells, 16 soil borings, and seven temporary soil gas probes. Detections of metals in soil occurred on both properties, and with the exception of arsenic, metals above industrial screening levels are generally limited to the top two feet.

TPH was detected in soil on the southern property, and in groundwater at both properties. LNAPL globules and methane at levels of potential concern were detected at boring B2 on the southern property.

Historical detections of PCBs in soil were defined on the southern property during this investigation.

4.2 Conclusions

Southern Property

Based on review of the site characterization data collected to date for the southern property, the soil from the center portion of the Site and Lots 12 and 13 are impacted from the surface to 2 ft bgs with a variety of chemicals of concern including metals (cadmium and lead) and PCBs at concentrations exceeding industrial-use screening criteria. Analytical data indicate that lead concentrations in these areas are indicative of a California Hazardous Waste (non-RCRA Hazardous) when removed/excavated. TPH in soil at the southern property has been detected historically from near the surface to 10 ft bgs at the western former AST, but was not detected during the 2018 assessment. TPH in soil was detected from the surface to 15 ft bgs near the eastern AST in 2018. LNAPL globules and elevated methane soil gas concentrations were also detected near the eastern AST in 2018. Methane concentrations at B2 are equal to the City of Los Angeles mitigation threshold. Additional methane investigation to comply with City requirements will be needed if a structure will be built over this area.

Northern Property

Based on review of the site characterization data collected to date from the northern property, the soil in the top 2 ft bgs is impacted with metals (arsenic and mercury) at concentrations above industrial soil screening levels. Deeper soils (to at least 10 ft bgs) are also locally impacted with arsenic at concentrations above the DTSC background concentration in Southern California (12 mg/kg). Elevated arsenic concentrations have been detected to a total depth of 10 ft bgs. Analytical data indicate that lead concentrations in these areas are indicative of a California Hazardous Waste (non-RCRA Hazardous) when removed/excavated.

5.0 REFERENCES

Department of Toxic Substances Control (DTSC), 2008. Determination of a Southern California Regional Background Arsenic Concentration in Soil. March.

DTSC, 2015. Advisory - Active Soil Gas Investigations. July.

DTSC, 2018. HERO HHRA Note Number 3, DTSC-Modified Screening Levels (DTSC-SLs). January.

GeoTracker, 2018. https://geotracker.waterboards.ca.gov/

Los Angeles Department of Building Safety (LADBS), 2004. Ordinance No 175790 Los Angeles Municipal Code. March 29.

Los Angeles Department of Building Safety (LADBS), 2009. Ordinance No 180619 Los Angeles Building Code. May 12.

Pacific Edge Engineering, 2007. Phase I Environmental Site Assessment (ESA). October 3.

Pacific Edge Engineering, 2009. Supplemental Subsurface Investigation Report. February 17.

Port of Los Angeles (POLA), 2016. Environmental Guidance for Industrial Use Soil. February.

San Francisco Regional Board (San Francisco Bay Regional Water Quality Control Board), 2016. Environmental Screening Levels.

USEPA (US Environmental Protection Agency), 2018. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May.

TABLES

Table 1 -Summary of TPH in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Total TPH	TPH-g (8015)	TPH-d (8015)	TPH-mo (8015)
Units		mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**SFRWQCB**	NA	**3875**	**1078**	**139,513**
South Parcel					
B1-0.5	4/16/2018	659	23	46 J	590
B1-2.0	4/16/2018	ND	ND	--	--
B1-5.0	4/16/2018	ND	ND	--	--
B1-10.0	4/16/2018	ND	ND	--	--
B1-15.0	4/16/2018	ND	ND	--	--
B2-0.5	4/16/2018	1180	0.95 J	79	1100
B2-2	4/16/2018	1330	ND	130	1200
B2-5	4/16/2018	14150	450	**7000**	6700
B2-10	4/16/2018	17290	790	**8600**	7900
B2-15	4/16/2018	11370	670	**5500**	5200
B3-0.5	4/16/2018	730	ND	30	700
B3-2	4/16/2018	470	ND	20 J	450
B3-2D	4/16/2018	604	ND	34	570
B4-0.5	4/16/2018	2211	1.4	210	2000
B4-0.5D	4/16/2018	1550	ND	150	1400
B4-2	4/16/2018	261	ND	21	240
North Parcel					
B7-0.5	4/17/2018	ND	ND	ND	ND
B7-2	4/17/2018	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND
B8-0.5	4/17/2018	815	ND	65	750
B8-2	4/17/2018	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND
B9-0.5	4/17/2018	267	ND	7.1 J	260
B9-2	4/17/2018	140	ND	ND	140
B9-5	4/17/2018	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND
B10-0.5	4/17/2018	169	ND	8.9 J	160
B10-2	4/17/2018	182	ND	12	170
B10-5	4/17/2018	2180	ND	180	2000
B10-10	4/17/2018	ND	ND	ND	ND
B11-0.5	4/18/2018	359	ND	19	340
B11-2	4/18/2018	157	ND	6.9 J	150
B11-5	4/18/2018	690	ND	ND	690
B11-10	4/18/2018	ND	ND	ND	ND

Table 1 -Summary of TPH in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Total TPH	TPH-g (8015)	TPH-d (8015)	TPH-mo (8015)
Units		mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**SFRWQCB**	NA	**3875**	**1078**	**139,513**
B11-15	4/18/2018	ND	ND	ND	ND
B12-0.5	4/18/2018	307	ND	27	280
B12-2	4/18/2018	283	ND	13	270
B12-5	4/18/2018	72	ND	ND	72
B12-10	4/18/2018	ND	ND	ND	ND
B13-0.5	4/18/2018	130	ND	ND	130
B13-2	4/18/2018	172	ND	12	160
B13-5	4/18/2018	ND	ND	ND	ND
B13-10	4/18/2018	ND	ND	ND	ND
B14-0.5	4/17/2018	2135	ND	35 J	2100
B14-2	4/17/2018	951	ND	41 J	910
B14-5	4/17/2018	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND
B15-0.5	4/17/2018	110	ND	ND	110
B15-2	4/17/2018	99	ND	ND	99
B15-5	4/17/2018	ND	ND	ND	ND
B15-10	4/17/2018	37	ND	ND	37

Notes:
Shaded cell indicates detection above the lower of the SFRWQCB Tier 1 ESLs.

J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
Total TPH = Total Petroleum Hydrocarbons, which was calculated as the sum of the results for TPH C5-C12, C13-C22, and C23-C40 by EPA Method 8015M.
TPH-g = Total Petroleum Hydrocarbons as gasoline (C5-C12)
TPH-d = Total Petroleum Hydrocarbons as diesel (C13-C22)
TPH-mo = Total Petroleum Hydrocarbons as motor oil (C23-C40)

Table 2 - Summary of VOCs in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	1,1,1,2-TETRACHLOROETHANE	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,1-DICHLOROPROPENE	1,2,3-TRICHLOROBENZENE	1,2,3-TRICHLOROPROPANE	1,2,4-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,2-DIBROMO-3-CHLOROPRO	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3,5-TRIMETHYLBENZENE	1,3-DICHLOROBENZENE	1,3-DICHLOROPROPANE	1,4-DICHLOROBENZENE	2-BUTANONE	2-CHLOROTOLUENE	2-HEXANONE	4-CHLOROTOLUENE	ACETONE	BENZENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**8.8**	36000	**2.7**	**5**	**16**	**1000**	-	930	0.11	**110**	**1800**	**0.064**	**0.16**	**9300**	**2**	**11**	**1500**	-	23000	**11**	**190000**	23000	**1300**	23000	**670000**	5.1
	DTSC	8.9	**7300**	**2.7**	-	**16**	-	-	**310**	**0.021**	-	-	-	**0.16**	-	-	-	-	-	**2200**	-	-	**2600**	-	**2300**	-	**1.4**
		South Parcel																									
B1-5.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND
B1-10.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0088 J	ND
B1-15.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065 J	ND
SG-2-5	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.031	ND
		North Parcel																									
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0082 J	ND	ND	ND	0.061	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0098	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.037	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0064 J	ND
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	0.051	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.038	ND
B9-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079 J	ND	ND	ND	0.068	0.0019 J
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0078 J	ND
B10-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0024 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	0.065	0.0022 J
B10-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035	0.0016 J
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	0.084	0.0022 J
B11-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND	ND	ND	0.1	0.0031 J
B11-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	ND	ND	ND	0.13	0.002 J
B11-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	0.0017 J
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0046 J	ND	ND	ND	ND	ND	0.0017 J	ND	ND	ND	0.01 J	ND	0.0091 J	ND	0.087	0.0012 J
B12-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019	0.0013 J
B12-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND
B13-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND
B13-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	ND
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.046	ND
B14-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	0.044	0.003 J
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0084 J	ND
B15-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	0.071	0.0056
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.039	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND

Notes
Shaded cell indicates detection above the lower of the EPA RSL and the DTSC Note 3.
J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
[1] - analytical results for VOCs are reported in units of micrograms per kilogram (µg/kg) in the laboratory reports (Appendix C).

Table 2 - Summary of VOCs in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	BROMOBENZENE	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	DIBROMOCHLOROMETHANE	DICHLORODIFLUOROMETHANE	ETHYLBENZENE	ISOPROPYL BENZENE	M,P-XYLENES	MIBK	METHYLENE CHLORIDE	MTBE	NAPHTHALENE	N-BUTYLBENZENE	N-PROPYLBENZENE	O-XYLENE	P-ISOPROPYLTOLUENE	SEC-BUTYLBENZENE	STYRENE	TERT-BUTYLBENZENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**1800**	**630**	**1.3**	**86**	**30**	**3500**	2.9	**1300**	**57000**	**1.4**	**460**	2300	8.2	39	**370**	**25**	**9900**	**2400**	**140000**	1000	**210**	**17**	58000	**24000**	**2800**	-	120000	**35000**	120000
	DTSC	-	-	**1.3**	87	-	-	**0.43**	-	-	-	-	**86**	**2.6**	**4.2**	-	-	-	-	-	**24**	-	-	**6400**	-	-	-	**12000**	-	**12000**
		South Parcel																												
B1-5.0	4/16/2018	ND	ND	ND	0.0064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-10.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-15.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-2-5	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		North Parcel																												
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-2	4/17/2018	ND	ND	ND	ND	0.0022 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-2	4/17/2018	ND	ND	ND	ND	ND	0.0037 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-2	4/17/2018	ND	ND	ND	ND	ND	0.002 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	ND	0.0052 J	ND	ND	ND	ND	ND	ND	ND	0.002 J	ND	ND	ND
B10-5	4/17/2018	ND	ND	ND	ND	ND	0.0013 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-2	4/18/2018	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0031 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-5	4/18/2018	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	ND	0.0023 J	ND	ND	ND	ND
B12-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-2	4/18/2018	ND	ND	ND	ND	ND	0.0024 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-2	4/17/2018	ND	ND	ND	ND	0.0023 J	0.0012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0024 J	ND	ND	ND	ND	ND	ND	0.001 J	ND	ND	ND	ND
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-2	4/17/2018	ND	ND	ND	ND	0.0036 J	0.0027 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013 J	ND	0.0029 J	ND	ND	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2 - Summary of VOCs in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPEN	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	VINYL ACETATE	FREON113	DIBROMOMETHANE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	100	47000	23000	8.2	**6**	350000	1.7	**3800**	**28000**	**99**
	DTSC	**2.7**	**5400**	**600**	**2.6**	-	**5400**	**0.15**	-	-	-
		South Parcel									
B1-5.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-10.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B1-15.0	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SG-2-5	4/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		North Parcel									
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-2	4/17/2018	ND	0.0024 J	ND	ND	ND	ND	ND	ND	ND	ND
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-2	4/17/2018	ND	0.0039 J	ND	ND	ND	ND	ND	ND	ND	ND
B10-5	4/17/2018	ND	0.0018 J	ND	ND	ND	ND	ND	ND	ND	ND
B10-10	4/17/2018	ND	0.0021 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-2	4/18/2018	ND	0.0053 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-5	4/18/2018	ND	0.0019 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-10	4/18/2018	ND	0.0014 J	ND	ND	ND	ND	ND	ND	ND	ND
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-2	4/18/2018	ND	0.0015 J	ND	ND	ND	ND	ND	ND	ND	ND
B12-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-2	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-5	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-2	4/17/2018	ND	0.0047 J	ND	ND	ND	ND	ND	ND	ND	ND
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-2	4/17/2018	ND	0.0068	ND	ND	ND	ND	ND	ND	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3 - Summary of Metals in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**470**	3	**220000**	2300	980	1800000	**350**	**47000**	800	46	**5800**	22000	**5800**	5800	**12**	5800	**350000**
	DTSC	-	**12***	-	**210**	**7.3**	**170000**	-	-	**320**	**4.5**	-	**3100**	-	**1500**	-	**1000**	-
		South Parcel																
B2-0.5	4/16/2018	--	7.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-2	4/16/2018	--	4.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-0.5	4/16/2018	--	--	--	--	**10.7**	--	--	--	**722**	--	--	--	--	--	--	--	--
B3-2	4/16/2018	--	--	--	--	**14**	--	--	--	**929**	--	--	--	--	--	--	--	--
B3-2D	4/16/2018	--	--	--	--	**18.5**	--	--	--	**1250**	--	--	--	--	--	--	--	--
B3-5	4/16/2018	--	--	--	--	0.396 J	--	--	--	8.74	--	--	--	--	--	--	--	--
B4-0.5	4/16/2018	--	--	--	--	--	--	--	--	**386**	--	--	--	--	--	--	--	--
B4-0.5D	4/16/2018	--	--	--	--	--	--	--	--	**417**	--	--	--	--	--	--	--	--
B4-2	4/16/2018	--	--	--	--	--	--	--	--	66.7	--	--	--	--	--	--	--	--
B4-5	4/16/2018	--	--	--	--	--	--	--	--	6.33	--	--	--	--	--	--	--	--
B5-0.5	4/16/2018	--	4.82	--	--	--	--	--	--	46.1	--	--	--	--	--	--	--	--
B5-2	4/16/2018	--	4.64	--	--	--	--	--	--	85.5	--	--	--	--	--	--	--	--
B6-0.5	4/16/2018	--	4.98	--	--	--	--	--	--	31.6	--	--	--	--	--	--	--	--
B6-2	4/16/2018	--	4.68	--	--	--	--	--	--	6.94	--	--	--	--	--	--	--	--
	North Parcel																	
B7-0.5	4/16/2018	ND	7.17	181	0.594 J	0.184 J	31	13.3	30.6	15.4	ND	0.752 J	21.4	1.36	ND	ND	50	100
B7-2	4/16/2018	ND	10.6	203	0.848 J	ND	40.7	16.5	27.2	10.2	0.0901 J	ND	27	1.77	ND	ND	66.5	76.3
B7-5	4/16/2018	ND	8.77	212	0.639 J	ND	31.1	13.1	20.1	6.73	0.0395 J	ND	21.8	1.59	ND	ND	51	57.5
B7-10	4/17/2018	ND	7.16	224	0.742 J	ND	42.2	20.4	43.9	9.84	0.0547 J	ND	34.8	2	ND	ND	67.7	100
B7-15	4/17/2018	ND	3.5	27.4	ND	ND	7.64	2.24	2.23	1.24	ND	ND	2.89	ND	ND	ND	11.6	10
B8-0.5	4/17/2018	1.34 J	**19.9**	159	0.334 J	1.62	26.4	9.84	73.4	150	0.364	2.34 J	26.2	1.53	ND	ND	38	213
B8-2	4/17/2018	ND	11.5	126	0.813 J	ND	38.2	15.8	26.1	11.5	0.0387 J	0.824 J	27.3	2.09	ND	ND	64.3	70.1
B8-5	4/17/2018	ND	11	108	0.612 J	ND	34.8	16	21.9	8.64	ND	0.608 J	24.1	1.97	ND	ND	57.8	62
B8-10	4/17/2018	ND	9.28	250	0.589 J	ND	35	18	30.1	7.02	ND	ND	29.4	1.25	ND	ND	55.3	80.6
B9-0.5	4/17/2018	2.37 J	**14.9**	274	0.381 J	1.71	45.8	11.8	205	124	0.087 J	5.04	39.8	1.6	1.11	ND	40.4	633
B9-2	4/17/2018	1.28 J	**24.2**	165	0.392 J	0.459 J	32.1	12.3	49.2	56.2	0.0858 J	4.01 J	25.6	1.45	ND	ND	42.2	159
B9-5	4/17/2018	ND	10.4	132	0.764 J	ND	39	15.9	23.3	8.26	ND	1.2 J	25.2	2.12	ND	ND	63.9	58.6
B9-10	4/17/2018	ND	**31.5**	230	0.755 J	ND	39	16.4	23.9	7.96	ND	ND	27.6	1.2	ND	ND	59.2	67.2
B10-0.5	4/17/2018	ND	**12.8**	219	0.38 J	1.46	43.7	12	477	127	0.0855 J	2.48 J	30.6	1.2	ND	ND	41.5	399
B10-2	4/17/2018	ND	**14.3**	178	0.365 J	0.696 J	64.3	11.9	493	110	0.184	3.34 J	33.1	1.39	ND	ND	43.5	176
B10-5	4/17/2018	ND	7.9	139	0.334 J	0.289 J	35.7	11.9	26.9	45.5	0.0704 J	0.998 J	20.3	1.09	ND	ND	43.5	96.2
B10-10	4/17/2018	ND	10.5	84.9	0.29 J	0.145 J	15.1	7.16	11.3	5.6	ND	ND	8.88	0.822 J	ND	ND	22.1	38.9
B11-0.5	4/17/2018	1.34 J	**12.5**	190	0.53 J	2.6	62.1	14.5	74.6	124	**38.6**	8.08	40	ND	ND	ND	50.8	476

Table 3 - Summary of Metals in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	**470**	3	**220000**	2300	980	1800000	**350**	**47000**	800	46	**5800**	22000	**5800**	5800	**12**	5800	**350000**
	DTSC	-	**12***	-	**210**	**7.3**	**170000**	-	-	**320**	**4.5**	-	**3100**	-	**1500**	-	**1000**	-
B11-2	4/17/2018	ND	**14.7**	142	0.429 J	1.01 J	32.5	11.3	35.5	47.1	3.59	1.55 J	23.5	ND	ND	ND	39.1	154
B11-5	4/17/2018	ND	7.7	173	0.451 J	0.562 J	25.7	16.7	24.2	8.54	0.0261 J	0.722 J	23.2	ND	ND	ND	51.5	94.1
B11-10	4/18/2018	ND	5.01	182	0.437 J	0.519 J	25.4	16.8	21.7	4.79	ND	ND	21.9	ND	ND	ND	50.9	83.3
B11-15	4/18/2018	ND	2.82	86.7	0.452 J	0.255 J	19.2	7.67	13.1	4.68	ND	ND	14.1	ND	ND	ND	28.3	39.4
B12-0.5	4/18/2018	ND	**15**	171	0.518 J	1.42	36	14.2	74.8	167	0.0639 J	2.12 J	31.2	ND	ND	ND	50.7	157
B12-2	4/18/2018	ND	11.8	148	0.461 J	1.3	28.7	12.2	59.8	140	0.0731 J	1.44 J	24.2	ND	ND	ND	44.7	148
B12-5	4/18/2018	ND	7.12	182	0.505 J	0.466 J	27.9	17.6	27	6.61	0.0313 J	ND	24	ND	ND	ND	55.9	92.7
B12-10	4/18/2018	ND	3.48	108	0.281 J	0.208 J	17.2	10.7	12.7	3.25	0.0421 J	ND	14.3	ND	ND	ND	34.9	56.8
B13-0.5	4/18/2018	1.83 J	**22.5**	153	0.444 J	0.774 J	27.1	12.2	35.8	50	0.123	1.81 J	23.3	ND	ND	ND	40.7	182
B13-2	4/18/2018	3.01 J	**31.7**	153	0.386 J	0.614 J	28	11.2	32.2	53.9	0.0423 J	1.63 J	21.9	ND	ND	ND	38.8	102
B13-5	4/18/2018	ND	5.18	152	0.364 J	0.477 J	22.9	14.6	19.4	7.32	0.0362 J	ND	19.7	ND	ND	ND	44.1	78.2
B13-10	4/18/2018	ND	**86.5**	70.1	0.316 J	0.281 J	15.8	8.89	10.6	3.46	ND	0.762 J	12	ND	ND	ND	26.5	30.2
B14-0.5	4/18/2018	2.55 J	9.29	265	0.302 J	2.64	52.8	9.23	282	120	0.106	5.46	31.3	1.21	0.327 J	ND	30.1	543
B14-2	4/18/2018	1.56 J	**16.5**	178	0.343 J	0.723 J	40.4	10.7	48	187	0.078 J	3.05 J	23.5	1.17	ND	ND	37.9	152
B14-5	4/18/2018	ND	6.61	166	0.624 J	ND	30.2	13.1	18.2	6.67	ND	ND	24	1.81	ND	ND	51.2	52.3
B14-10	4/17/2018	ND	**16.2**	38.5	ND	ND	12.1	3.32	4.64	1.71	ND	ND	5.32	0.644 J	ND	ND	17.2	14.6
B14-15	4/17/2018	ND	2.06	21.3	ND	ND	6.38	2.08	3.53	1.2	ND	ND	2.9	0.603 J	ND	ND	15.5	7.86
B15-0.5	4/17/2018	ND	6.23	145	0.358 J	0.605 J	21.1	7.35	29.8	38.2	ND	2.29 J	20.7	1.15	ND	ND	31.4	160
B15-2	4/17/2018	ND	7.77	156	0.401 J	0.379 J	31.4	10.2	55.3	30.1	0.0381 J	2.21 J	18.8	1.69	ND	ND	37.2	121
B15-5	4/17/2018	ND	6.41	286	0.569 J	ND	27.7	12.8	20.5	7.04	0.0418 J	ND	26.9	1.31	ND	ND	43.9	57.5
B15-10	4/17/2018	ND	6.14	61.3	0.27 J	ND	14.4	9.15	10.2	3.83	ND	ND	10.4	0.9 J	ND	ND	24	31.1

Shaded cell indicates detection above the lower of the EPA RSL and the DTSC Note 3.
J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
* = DTSC Southern California Regional Background Arsenic Concentration in Soil

Table 4 - Polychlorinated Biphenyls in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	RSL	27	0.83	0.72	0.95	0.95	0.97	0.99
	South Parcel							
B4-0.5	4/16/2018	ND	ND	ND	ND	ND	0.19	0.16
B4-0.5D	4/16/2018	ND	ND	ND	ND	ND	0.23	0.17
B4-2	4/16/2018	ND	ND	ND	ND	ND	ND	ND
B6-0.5	4/16/2018	ND	ND	ND	ND	ND	ND	ND
B6-2	4/16/2018	ND	ND	ND	ND	ND	ND	ND
	North Parcel							
B7-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B8-0.5	4/17/2018	ND	ND	ND	ND	ND	0.25	0.23
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B9-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	0.063
B9-2	4/17/2018	ND	ND	ND	ND	ND	ND	0.021 J
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B10-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	0.085
B10-2	4/17/2018	ND	ND	ND	ND	ND	ND	0.052
B10-5	4/17/2018	ND	ND	ND	ND	ND	ND	0.034 J
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B11-0.5	4/18/2018	ND	ND	ND	ND	ND	ND	0.061
B12-0.5	4/18/2018	ND	ND	ND	ND	ND	ND	0.035 J
B13-0.5	4/18/2018	ND	ND	ND	ND	ND	ND	0.045 J
B14-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	0.028 J
B14-2	4/17/2018	ND	ND	ND	ND	ND	ND	0.04 J
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-0.5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND

J = concentration below reporting limit
ND = Non-detect
mg/kg = milligrams per kilogram
PCBs = Polychlorinated Biphenyls
[1] - analytical results for PCBs are reported in units of micrograms per kilogram (µg/kg) in the laboratory reports (Appendix C).
Screening level is the EPA RSL.

Table 5 - Polyaromatic Hydrocarbons in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(G,H,I)PERYLENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	2-METHYLNAPHTHALENE	1-METHYLNAPHTHALENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	45000	-	230000	21	2.1	21	210	-	2100	2.1	30000	30000	21	17	-	23000	3000	73
	North Parcel																		
B7-0.5	4/17/2018	ND	ND	ND	0.0066	0.006	0.0069	ND	0.0085	0.0072	ND	0.0059	ND	0.0034 J	ND	0.0036 J	0.0066	ND	ND
B7-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-0.5	4/17/2018	ND	ND	ND	0.13	0.072 J	0.11 J	ND	0.13	0.12 J	ND	0.16	ND	ND	ND	0.11 J	0.16	ND	ND
B8-2	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-0.5	4/17/2018	ND	ND	ND	0.08	0.066	0.084	0.017 J	0.089	0.1	ND	0.078	ND	0.036	ND	0.046	0.087	ND	ND
B9-2	4/17/2018	ND	ND	ND	0.061	0.044	0.048	ND	0.052	0.096	0.013 J	0.033	ND	0.023 J	ND	0.035	0.054	ND	ND
B9-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10-0.5	4/17/2018	ND	ND	0.018	0.068	0.065	0.077	0.019	0.063	0.085	0.011 J	0.11	ND	0.033	0.0077 J	0.063	0.11	0.0085 J	ND
B10-2	4/17/2018	ND	0.0084 J	0.02	0.028	0.026	0.027	ND	0.064	0.03	ND	0.023	ND	0.013 J	ND	0.018	0.033	ND	ND
B10-5	4/17/2018	ND	ND	ND	0.028 J	ND	ND	ND	0.055	ND	ND	ND	ND	ND	ND	ND	0.028 J	ND	ND
B10-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-0.5	4/18/2018	ND	0.0084 J	0.0093 J	0.051	0.05	0.059	0.013 J	0.073	0.078	0.011 J	0.062	ND	0.03	0.0099 J	0.037	0.079	0.012 J	ND
B11-2	4/18/2018	ND	ND	ND	0.023	0.019	0.019	ND	0.026	0.026	ND	0.025	ND	0.011 J	ND	0.018	0.033	0.011 J	ND
B11-5	4/18/2018	ND	0.032	0.017 J	0.13	0.14	0.13	0.043	0.12	0.13	0.019 J	0.19	ND	0.077	ND	0.069	0.24	ND	ND
B11-10	4/18/2018	ND	0.0081 J	ND	0.028	0.033	0.032	0.0078 J	0.027	0.025	ND	0.047	ND	0.018	ND	0.019	0.063	ND	ND
B11-15	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B12-0.5	4/18/2018	ND	ND	ND	0.031	0.029	0.032	0.0086 J	0.036	0.036	ND	0.043	ND	0.018	ND	0.021	0.054	ND	ND
B12-2	4/18/2018	ND	ND	ND	0.035	0.031	0.034	0.0097 J	0.046	0.039	ND	0.037	ND	0.021	ND	0.018	0.052	ND	ND
B12-5	4/18/2018	ND	0.045	0.018	0.13	0.16	0.15	0.04	0.12	0.15	0.019	0.19	ND	0.081	ND	0.044	0.27	ND	ND
B12-10	4/18/2018	ND	0.0058 J	ND	0.025	0.023	0.024	0.0058 J	0.019	0.02	ND	0.031	ND	0.012	ND	0.0079	0.043	ND	ND
B13-0.5	4/18/2018	ND	0.0095 J	0.025	0.15	0.11	0.14	0.033	0.092	0.24	0.026	0.21	ND	0.054	ND	0.12	0.22	ND	ND
B13-2	4/18/2018	ND	ND	0.012 J	0.091	0.072	0.068	0.017	0.066	0.22	0.024	0.047	ND	0.032	ND	0.058	0.083	ND	ND
B13-5	4/18/2018	ND	0.017	0.0071 J	0.073	0.077	0.078	0.016	0.062	0.092	0.01 J	0.11	ND	0.04	ND	0.029	0.14	ND	ND

Table 5 - Polyaromatic Hydrocarbons in Soil
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(G,H,I)PERYLENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	2-METHYLNAPHTHALENE	1-METHYLNAPHTHALENE
Units[1]		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Screening Criteria	**RSL**	45000	-	230000	21	2.1	21	210	-	2100	2.1	30000	30000	21	17	-	23000	3000	73
B13-10	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-0.5	4/17/2018	ND	ND	ND	0.098 J	ND	ND	ND	0.11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-2	4/17/2018	ND	ND	ND	0.085 J	ND	ND	ND	0.068 J	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-10	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14-15	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-0.5	4/17/2018	ND	ND	ND	0.022	0.019	0.025	ND	0.025	0.027	ND	0.023	ND	0.0096 J	ND	0.013 J	0.025	ND	ND
B15-2	4/17/2018	ND	ND	ND	0.018	0.014	0.016	ND	0.017	0.022	ND	0.015	ND	0.007 J	ND	0.012	0.019	ND	ND
B15-5	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B15-10	4/17/2018	ND	ND	ND	0.022	0.019	0.024	ND	0.024	0.02	ND	0.026	ND	0.01 J	ND	0.014 J	0.024	ND	ND

J = concentration below reporting limit
mg/kg = milligrams per kilogram
ND = Non-detect
PAHs = Polyaromatic hydrocarbons
[1] - analytical results for VOCs are reported in units of micrograms per kilogram (µg/kg) in the laboratory reports (Appendix C).
Screening Level is the EPA RSL.

Table 6 - Metals STLC/TCLP Data
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Cadmium	Cadmium STLC	Chromium	Chromium STLC	Copper	Copper STLC	Lead	Lead STLC	Lead TCLP	Mercury	Mercury STLC	Mercury TCLP
Units		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
Screening Value		**10**	**1**	**50**	**5**	**250**	**25**	**50**	**5**	**5**	**4.5**	**0.2**	
		South Parcel											
B3-2D	4/16/2018	**18.5**	**1.19**	--	--	--	--	**1250**	**90**	**2.72**	--	--	--
B4-0.5	4/16/2018	--	0.214 J	--	--	--	--	**386**	**32.7**	**0.343**	--	--	--
		North Parcel											
B10-0.5	4/17/2018	1.46	--	43.7	0.708	477	3.06	**127**	**6.47**	--	0.0855 J	--	--
B11-0.5	4/18/2018	2.6	--	62.1	0.389	74.6	3.23	**124**	**7.79**	--	**38.6**	**7.72**	**0.0564**
B14-0.5	4/17/2018	2.64	--	52.8	--	282	3.69	**120**	**5.51**	--	0.106	--	--

Shaded cell indicates detection above the STLC and TCLP screening levels of 5 mg/L.
STLC = Soluable Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
J = concentration below reporting limit
mg/kg = milligrams per kilogram
mg/L = milligrams per liter

Table 7 -Summary of TPH and VOCs in Groundwater
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	Total TPH	TPH-g (8015)	TPH-d (8105)	TPH-mo (8015)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Acetone	CIS-1,2-DICHLOROETHENE	MTBE	All Other VOCs
Units		mg/L	mg/L[1]	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Screening Criteria - SFRWQCB ESL		NA	0.1	0.1	NA	1	13	40	20	1500	6	5	NA
South Parcel													
B1	4/16/2018	**1.74**	ND	**1**	0.74	ND	ND	ND	ND	7.4 J	0.38 J	0.27 J	ND
North Parcel													
B7	4/17/2018	**1.93**	ND	**0.73**	1.2	ND	ND	ND	ND	ND	ND	ND	ND
B11	4/18/2018	**1.785**	0.015 J	**0.37 J**	1.4	ND	ND	ND	ND	13 J	ND	ND	ND
B14	4/17/2018	**1.31**	ND	**0.52**	0.79	ND	ND	0.29 J	ND	12 J	ND	ND	ND

ND = Non-detect
mg/L = milligrams per liter
µg/L = micrograms per liter
Total TPH = Total Petroleum Hydrocarbons, which was calculated as the sum of the results for TPH C4-C12, C13-C22, and C23-C40 by EPA Method 8015M.
TPH-g = Total Petroleum Hydrocarbons as gasoline (C4-C12)
TPH-d = Total Petroleum Hydrocarbons as diesel (C13-C22)
TPH-mo = Total Petroleum Hydrocarbons as motor oil (C23-C40)
VOCs = Volatile Organic Compounds

[1] - analytical results for VOCs are reported in units of micrograms per liter (µg/L) in the laboratory reports (Appendix C).

Table 8 - Summary of Polyaromatic Hydrocarbons in Groundwater
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(G,H,I)PERYLENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PYRENE	2-METHYLNAPHTHALENE	1-METHYLNAPHTHALENE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Screening Criteria - SFRWQCB ESL		20	30	0.73	0.027	0.014	0.012	0.017	0.01	0.049	0.0034	8	3.9	0.034	0.17	4.6	2	2.1	NA
	North Parcel																		
B7	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022 J	ND	ND	ND
B11	4/18/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B14	4/17/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Non-detect
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
Screening level is the SFRWQCB ESL.

Table 9 - Summary of VOCs in Soil Gas
Port of Los Angeles
1517-1520 E I Street

Sample Description	Date Sampled	ISOPROPYL BENZENE	N-PROPYLBENZENE	SEC-BUTYLBENZENE	ALL OTHER VOCS	METHANE
Units[1]		µg/L	µg/L	µg/L	µg/L	%
Screening Criteria - US EPA RSL		3600	8800	3600	NA	0.1
South Parcel						
B1-5.0	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B1-5DUP	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B2-5	4/23/2018	**0.407**	**0.455**	**0.566**	ND	**0.1**
SG7-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
North Parcel						
B8-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B10-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B12-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01
B14-5	4/23/2018	ND<0.020	ND<0.020	ND<0.020	ND	ND<0.01

Notes
µg/L = microgram per liter
ND = Non-detect
Screening level is the DTSC Soil gas screening level.

FIGURES

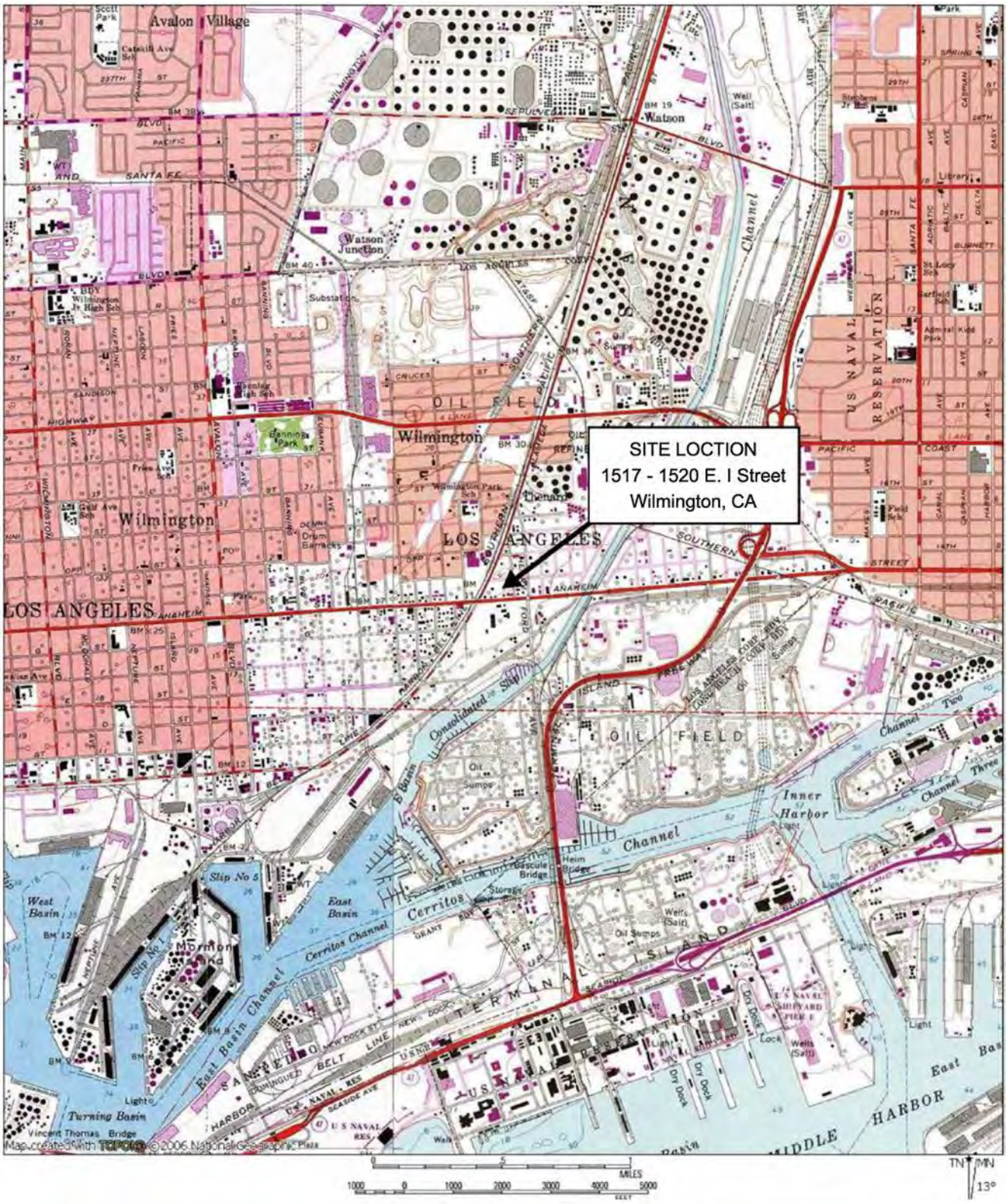


Figure 1

VICINITY MAP

Port of Los Angeles
1517- 1520 East "I" Street
Wilmington, CA

PARSONS

K: De ts Dept48\POLA MSA (2017 8-03 East Street Investigation\Figures\Figure Vicinity Map.dwg

Parcel Boundary

B-1 Soil Boring

N

0 60 120

SCALE IN FEET

Figure 2

SITE PLAN

Port of Los Angeles
1517- 1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 2 - Site Plan.dwg

"I" Street

Depth	TPH
5.0'	ND

GS24

Depth	TPH
0.5'	4,700
2.5'	6,700

GS8

Depth	TPH
10.0'	5.9

GS21

Depth	TPH
0.5'	ND
2.5'	ND

GS1

GS13

Depth	TPH
5.0'	ND
10.0'	ND

Depth	TPH
1.0'	14,000
5.0'	ND
10.0'	6.5

GS25

Depth	TPH
0.5'	4,400
2.5'	92

GS6

HA4

HA3

B3

HA5

Depth	TPH
5.0'	9.3
10.0'	7.1

GS26

Depth	TPH
0.5'	730
2.0'	470

GS14

Depth	TPH
5.0'	ND
10.0'	70

Oil Well

GS15

Depth	TPH
5.0'	ND
10.0'	11

Depth	TPH
0.5'	659
2.0'	ND
5.0'	ND
10.0'	ND
15.0'	ND

AST

AST

HA9

B1

GS9

Depth	TPH
5.0'	11
10.0'	10

GS22

Depth	TPH
0.5'	2,211
2.0'	260

GS16

Depth	TPH
0.5'	420
2.5'	51

GS2

GS17

Depth	TPH
5.0'	ND
10.0'	ND

HA2

Depth	TPH
0.5'	13,000
2.5'	8.6
5.0'	ND
10.0'	ND

B4

Depth	TPH
5.0'	ND
10.0'	6.6

Depth	TPH
0.5'	13,000
2.5'	30,000

AST

HA10

Depth	TPH
0.5'	350
2.5'	4,100

GS10

GS28

HA11

GS27

Depth	TPH
0.5'	150
2.5'	1,300

GS3

B2

AST

Depth	TPH
1.0'	130
2.5'	ND
5.0'	ND
10.0'	9.6

GS19

GS4

Depth	TPH
0.5'	160
2.5'	35

Depth	TPH
5.0'	10
10.0'	ND

HA6

GS7

HA7

HA8

Depth	TPH
1.0'	160
5.0'	5.6
10.0'	21,000

Depth	TPH
5.0'	ND
10.0'	ND

GS18

GS11

GS29

Depth	TPH
0.5'	81
2.5'	5.6

Depth	TPH
5.0'	ND
10.0'	6.6

GS31

Depth	TPH
5.0'	45
10.0'	ND

Depth	TPH
5.0'	ND
10.0'	ND

GS23

Depth	TPH
0.50'	1,180
2.0'	1,330
5.0'	14,150
10.0'	17,290
15.0'	11,370

GS20

HA1

GS5

HA2

Depth	TPH
5.0'	13
10.0'	ND

Depth	TPH
0.5'	320
2.5'	79

GS12

Depth	TPH
0.5'	190
2.5'	250

GS30

Depth	TPH
5.0'	ND
10.0'	ND

12 13 14 15 16 17 18 19 20 21

LEGEND

- = Oil Well
- = Hand Auger Location - Oct 2008
- = Soil & Soil Gas Sample Locations - Oct 2007
- = Soil Sample Location - Oct 2008
- = Soil & Soil Gas Sample Location - Oct 2008
- = Soil & Groundwater Sample Location - Oct 2008
- = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- **= Soil Boring Location, 2018**
- **= TPH (C6-C44) concentration above 1,000 mg/kg**

NOTE: All TPH data = Total TPH in mg/kg

Pacific Edge Data Are Included

N

0 30 60

SCALE IN FEET

Figure 3

TPH (C6-C44) CONCENTRATIONS IN SOIL (mg/kg) (South Parcel)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 3 - TPH Concentrations In Soil.dwg

"I" Street

16 17 18 19 20 21 15 14 13 12

GS24
GS25
GS8
GS21
GS13
GS1
GS6
HA4
HA3
HA5
GS14
Oil Well
GS15
AST
AST
HA9
GS9
GS26
GS22
GS2
GS16
GS17
B4
HA2
AST
HA10
GS10
GS28
HA11
GS27
GS3
HA6
GS7
HA7
HA8
GS19
AST
GS18
GS4
GS11
GS29
GS31
HA1
GS5
HA2
GS20
GS12
B6
GS30
GS23

Depth	A1248	A1254
0.5'	<0.05	0.12

Depth	A1248	A1254
0.5'	0.063	0.064

Depth	A1248	A1254
0.5'	<0.05	0.074

Depth	A1248	A1254
1.0'	2.1	1.1

Depth	A1248	A1254
0.5'	<0.5	0.088

Depth	A1248	A1254
0.5'	<0.17	0.23
2.0'	<0.17	ND

Depth	A1248	A1254
0.5'	0.22	<0.05

Depth	A1248	A1254
0.5'	<0.05	0.068
1.0'	<0.05	0.12

Depth	A1248	A1254
0.5'	<0.25	2.1

Depth	A1248	A1254
0.5'	1.7	0.85
1.0'	0.54	<0.05

Depth	A1248	A1254
0.5'	<0.05	0.073

Depth	A1248	A1254
0.5'	33	<0.5
1.0'	0.32	<0.05

Depth	A1248	A1254
0.5'	1.8	0.99

Depth	A1248	A1254
0.5'	<0.18	<0.18
2.0'	<0.18	<0.18

Depth	A1248	A1254
0.5'	4.4	<0.5

Depth	A1248	A1254
0.5'	1.6	0.59

Depth	A1248	A1254
0.5'	0.097	0.094

Depth	A1248	A1254
0.5'	<0.05	0.081

LEGEND

- = Oil Well
- = Hand Auger Location - Oct 2008
- = Soil & Soil Gas Sample Locations - Oct 2007
- = Soil Sample Location - Oct 2008
- = Soil & Soil Gas Sample Location - Oct 2008
- = Soil & Groundwater Sample Location - Oct 2008
- = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- = Aroclor-1248 concentration of 2.1 mg/kg & Aroclor-1254 concentration of 1.1 mg/kg at 1'.
- NA = Not Analyzed
- = PCB concentration above the Industrial RSL values.
- **= Soil Boring Location, 2018**

NOTE:
All PCBs Data in mg/kg. PCBs not shown are ND
Pacific Edge Data Are Included

N

0 30 60
SCALE IN FEET

Figure 5

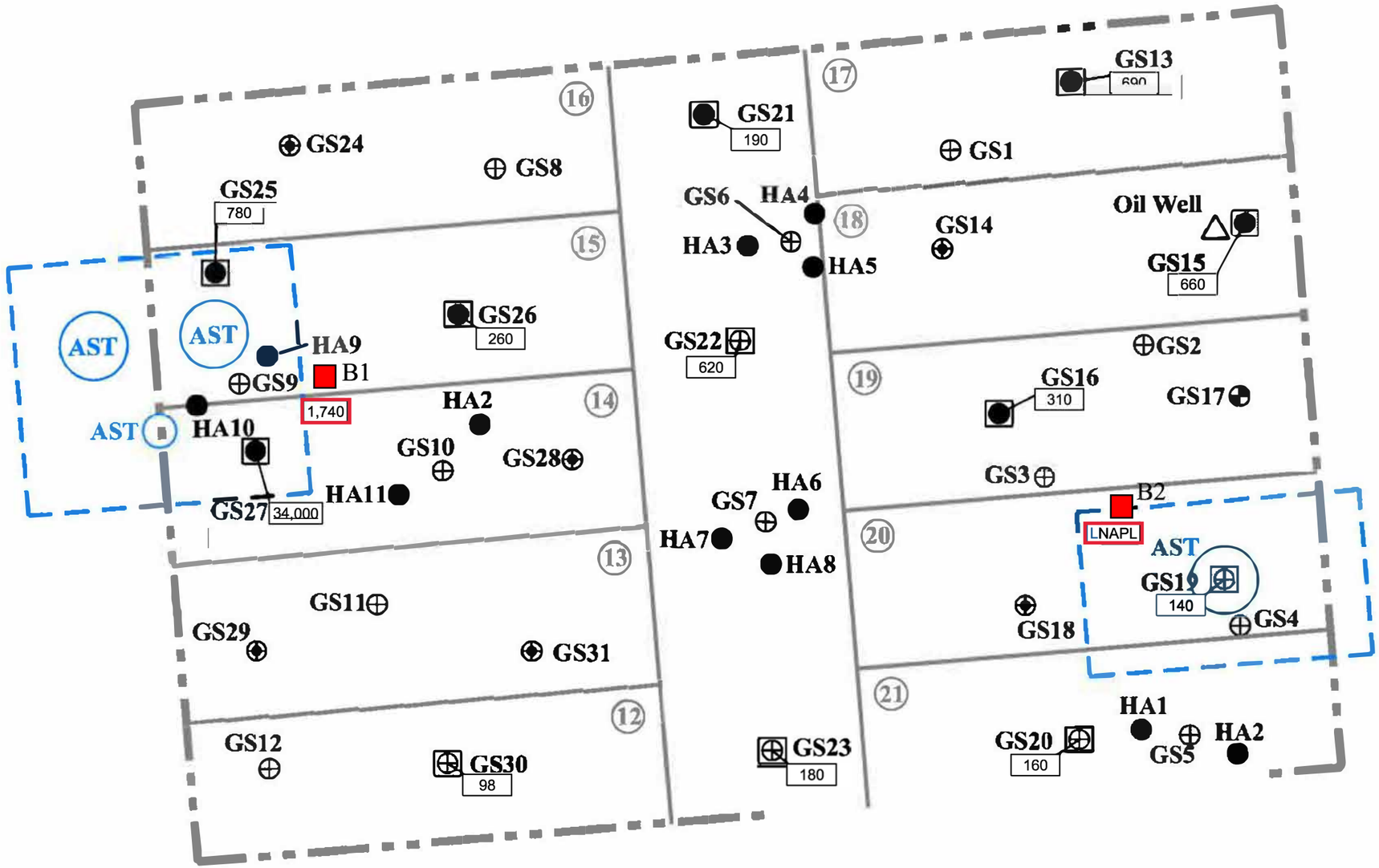
PCB CONCENTRATIONS IN SOIL (South Parcel)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 5 - PCB Concentrations In Soil.dwg

"I" Street



LEGEND
△ = Oil Well
● = Hand Auger Location - Oct 2008
⊕ = Soil & Soil Gas Sample Locations - Oct 2007
⊕ = Soil Sample Location - Oct 2008
◒ = Soil & Soil Gas Sample Location - Oct 2008
⊕ = Soil & Groundwater Sample Location - Oct 2008
● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
(12) = Lot Number
– – – = Former Concrete Dyke
AST = Former Aboveground oil storage tank
ND = Not Detected
■ = **Soil Boring Location, 2018**

Pacific Edge Data Are Included

N

0 30 60

SCALE IN FEET

Figure 6

TOTAL TPH CONCENTRATIONS IN GROUNDWATER (µg/L) (South Parcel)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 6 – Total TPH Conc In GW (South Property).dwg

Legend

B-7 Sampling Location

NOTE: Concentrations exceeding POLA screening criteria are shown in bold

N

0 20 40

SCALE IN FEET

Figure 7

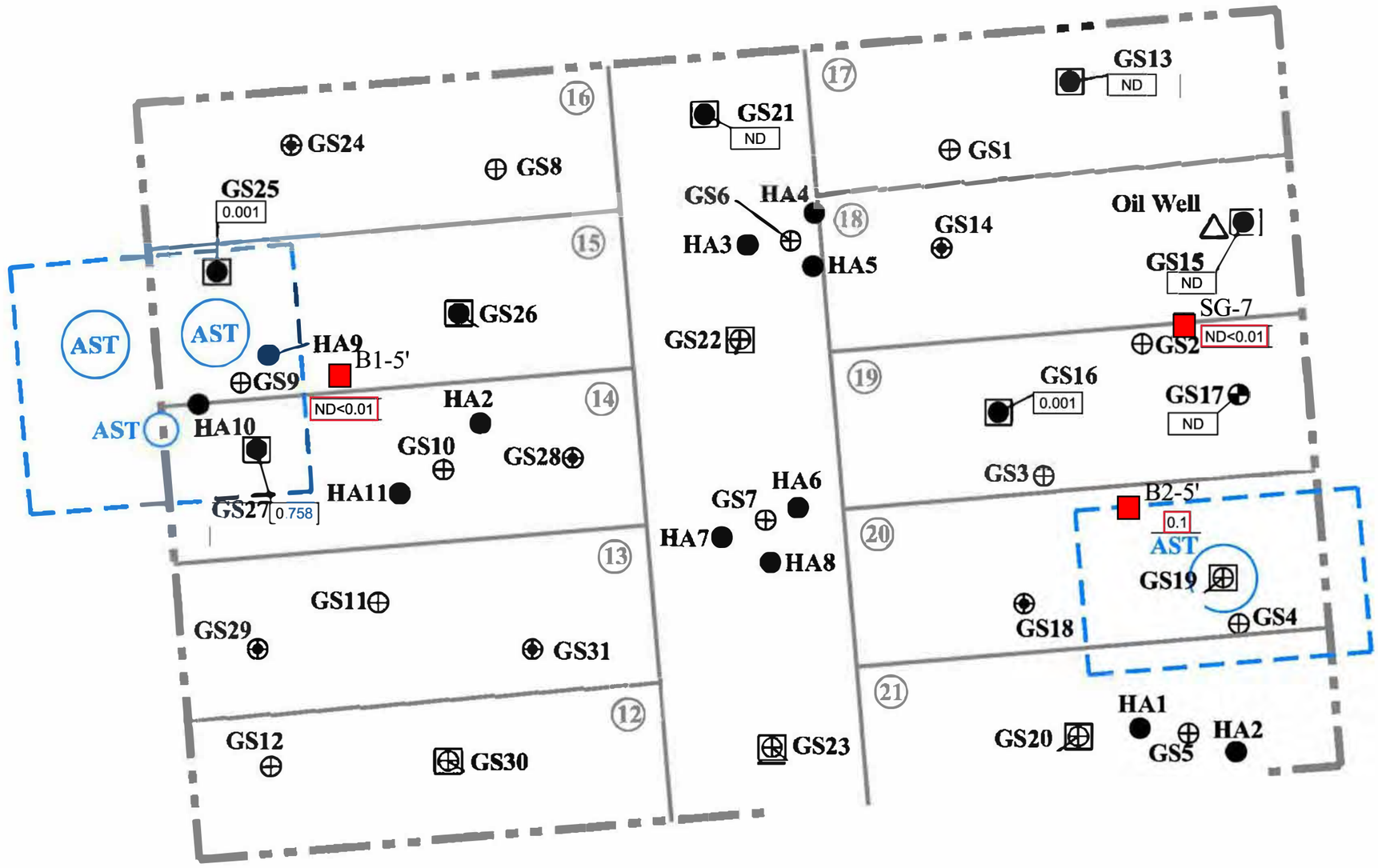
TPH CONCENTRATIONS IN GROUNDWATER (NORTH PARCEL)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 7 - Total TPH Conc In GW (North Property).dwg

"I" Street



LEGEND
△ = Oil Well
● = Hand Auger Location - Oct 2008
⊕ = Soil & Soil Gas Sample Locations - Oct 2007
⊕ = Soil Sample Location - Oct 2008
◒ = Soil & Soil Gas Sample Location - Oct 2008
⊕ = Soil & Groundwater Sample Location - Oct 2008
● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
(12) = Lot Number
– – – = Former Concrete Dyke
AST = Former Aboveground oil storage tank
ND = Not Detected
10.8 = **Methane concentrations in %**
■ = **Soil Boring Location, 2018**

Pacific Edge Data Are Included

N

0 30 60

SCALE IN FEET

Figure 8

METHANE CONCENTRATIONS IN SHALLOW SOIL GAS (5-FEET BGS)

Port of Los Angeles
1517-1520 East "I" Street
Wilmington, CA

PARSONS

K:\Depts\Dept48\POLA MSA (2017)\2018-03 East I Street Investigation\Figures\Figure 8 – Methane Conc In Shallow Soil Gas.dwg

APPENDIX A

Monitoring Well Permits

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

SERVICE	FEE	QTY	TOTALS
PRODUCTION WELLS			
☐ residential drinking water, ☐ public/municipal, ☐ irrigation			
☐ construction	$ 844.00	×	= $ 0
☐ decommission ☐ renovation	$ 1103.00	×	= $ 0
NON-PRODUCTION WELLS			
☐ monitoring, ☐ piezo, ☐ injection, ☐ water extraction, ☐ sparge, ☐ test, ☐ SVE, ☐ geothermal heat exchange			
☐ construction ☐ decommission			
☐ *less than twenty-five (25) wells per parcel (first 24 wells)*	$ 519.00	×	= $ 0
☐ *twenty-five (25) or more wells per parcel*	$ 130.00	×	= $ 0
CATHODIC WELLS			
☐ construction	$ 844.00	×	= $ 0
☐ decommission	$ 1103.00	×	= $ 0
CPT/HYDROPUNCH/SOIL BORINGS			
☑ 1-4 Boring	$ 129.00		
☐ 5+ Borings	$ 516.00		
Larger projects requiring more than 4 hours review may be subject to additional plan review fees (**hourly rate at $129.00**)			
WELL SITE PLAN REVIEW	$ 584.00	×	= $ 0
WATER SUPPLY YIELD EVALUATION			
☐ commercial	$ 1038.00	×	= $ 0
☐ residential four (4) connections or less	$ 844.00	×	= $ 0
☐ residential each additional connections beyond four (4)	$ 519.00	×	= $ 0
WATER TREATMENT SYSTEM EVALUATION	$ 519.00	×	= $ 0
WATER SAMPLING commercial food service facility for USDA certification	$ 714.00	×	= $ 0

Applications are nontransferable. Field Personnel cannot accept payments. DO NOT SEND CASH.
Make checks or money orders payable to:
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH

Allow **10** business days for work plan review and response. Cancellations of service requests are subject to a $65.00 processing fee plus additional plan review fees (hourly rate as applicable).

Effective July 1, 2017, additional fees (hourly rate of $129) will be applied when field inspection is delayed in the field for more than one hour due to the driller not being ready or unable to complete the process.

1517-1519 E I St	Wilmington	90744	Alameda/7425-043-903/7425-043-901	3/26/18
WORK SITE ADDRESS	CITY	ZIP	CROSS STREET/PARCEL#	DATE

SITE/PERMIT#	INSPECTOR:	DATE:	RECEIPT #

Revised: October 2016

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

WORK SITE ADDRESS	CITY	ZIP	NUMBER OF WELLS	START DATE
1519 E I Street	Wilmington	90744	3	4/16/18

OWNER		EMAIL	
Port of Los Angeles		psun@portla.org	
ADDRESS: 425 S Palos Verdes St	CITY: San Pedro	ZIP: 90733-0151	TELEPHONE: (310) 732-0335

DRILLER	C-57 LICENSE HOLDER	C-57 LICENSE NUMBER
Gregg Drilling and Testing	John Gregg	485165
ADDRESS: 2726 Walnut Avenue	CITY: Signal Hill	ZIP: 90755
EMAIL: jmckeehan@greggdrilling.com	TELEPHONE: 562-427-6899	MOBILE:

CONSULTANT	PROJECT CONTACT	PROJECT MANAGER
Parsons	Carrie Crozier	Jim Goepel
ADDRESS: 100 W Walnut St	CITY: Pasadena	ZIP: 91124
EMAIL: carrie.crozier@parsons.com	TELEPHONE: 626-440-2747	MOBILE: 626-482-4088

ATTACH ALL SUPPORTING DOCUMENTS, INCLUDING:

☐ written narrative describing work plan details

☐ vertical well diagram detailing depths, sizes, thicknesses, and materials of: (1) the casing, (2) the annular (sanitary) seal, (3) the screens/slotting, and (4) any pertinent geological features

☐ scaled drawing of roads, property lines, private sewage disposal systems, surface water features, blue line streams, and other possible sources of contamination within 200 feet of the well site

FOR WELL DECOMMISSION: ☐ well construction logs, ☐ the method of assessment, ☐ type and amount of sealant, and ☐ the method of upper seal pressure application (including PSI and time applied)

PRODUCTION WELLS	
☐ PUBLIC (MUNICIPAL UTILITY)	☐ PRIVATE RESIDENCE
☐ IRRIGATION	☐ CATHODIC PROTECTION
☐ GEOTHERMAL HEAT EXCHANGE	
☐ OTHER _____	
NAME OF C-57 LICENSEE	
SIGNATURE	

NON-PRODUCTION WELLS	
☐ MONITORING	☐ PIEZOMETER
☐ INJECTION	☐ WATER EXTRACTION
☐ AIR SPARGE	☐ TEST HOLE (PRE-PRODUCTION)
■ HYDROPUNCH	☐ CONE PENETROMETER (CPT)
☐ SOIL BORING	☐ SVE
NAME OF APPLICANT	
Carrie Crozier	
SIGNATURE	

BY SIGNING ABOVE, I HEREBY AGREE TO COMPLY IN EVERY RESPECT WITH ALL THE REGULATIONS, ORDINANCES, AND LAWS OF THE STATE OF CALIFORNIA, THE COUNTY OF LOS ANGELES, THE DEPARTMENT OF PUBLIC HEALTH, AND THE ENVIRONMENTAL HEALTH DRINKING WATER PROGRAM

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
1517-1519 EAST I STREET	WILMINGTON	90744	CARRIE.CROZIER@PARSONS.COM

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 3 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0139069	**DATE:**	April 5, 2018

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- As indicated on your work plan, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Isabella C. Kwok, MPA, REHS
5050 Commerce Drive
Baldwin Park, Ca 91706
(626) 430-5420

7996

ENVIRONMENTAL HEALTH

Drinking Water Program

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County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

SERVICE	FEE	QTY	TOTALS
PRODUCTION WELLS			
☐ residential drinking water, ☐ public/municipal, ☐ irrigation			
☐ construction	$ 844.00	×	= $ 0
☐ decommission ☐ renovation	$ 1103.00	×	= $ 0
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☐ monitoring, ☐ piezo, ☐ injection, ☐ water extraction, ☐ sparge, ☐ test, ☐ SVE, ☐ geothermal heat exchange			
☐ construction ☐ decommission			
☐ *less than twenty-five (25) wells per parcel (first 24 wells)*	$ 519.00	×	= $ 0
☐ *twenty-five (25) or more wells per parcel*	$ 130.00	×	= $ 0
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☐ decommission	$ 1103.00	×	= $ 0
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☑ 1-4 Boring	$ 129.00		
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Larger projects requiring more than 4 hours review may be subject to additional plan review fees (**hourly rate at $129.00**)			
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WATER SUPPLY YIELD EVALUATION			
☐ commercial	$ 1038.00	×	= $ 0
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LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH

Allow **10** business days for work plan review and response. Cancellations of service requests are subject to a $65.00 processing fee plus additional plan review fees (hourly rate as applicable).

Effective July 1, 2017, additional fees (hourly rate of $129) will be applied when field inspection is delayed in the field for more than one hour due to the driller not being ready or unable to complete the process.

1520 E I St	Wilmington	90744	Alameda/7425-044-900	3/20/18
WORK SITE ADDRESS	CITY	ZIP	CROSS STREET/PARCEL#	DATE

SITE/PERMIT#	INSPECTOR:	DATE:	RECEIPT #

Revised: October 2016

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

County of Los Angeles Public Health

APPLICATION FOR WELL PERMIT

WORK SITE ADDRESS	CITY	ZIP	NUMBER OF WELLS	START DATE
1520 E I Street	Wilmington	90744	2	4/9/18

OWNER		EMAIL	
Port of Los Angeles		psun@portla.org	
ADDRESS	CITY	ZIP	TELEPHONE
425 S Palos Verdes St	San Pedro	90733-0151	(310) 732-0335

DRILLER	C-57 LICENSE HOLDER	C-57 LICENSE NUMBER
Gregg Drilling and Testing	John Gregg	485165
ADDRESS: 2726 Walnut Avenue	CITY: Signal Hill	ZIP: 90755
EMAIL: jmckeehan@greggdrilling.com	TELEPHONE: 562-427-6899	MOBILE

CONSULTANT	PROJECT CONTACT	PROJECT MANAGER
Parsons	Carrie Crozier	Jim Goepel
ADDRESS: 100 W Walnut St	CITY: Pasadena	ZIP: 91124
EMAIL: carrie.crozier@parsons.com	TELEPHONE: 626-440-2747	MOBILE: 626-482-4088

ATTACH ALL SUPPORTING DOCUMENTS, INCLUDING:

☑ written narrative describing work plan details

☒ vertical well diagram detailing depths, sizes, thicknesses, and materials of: (1) the casing, (2) the annular (sanitary) seal, (3) the screens/slotting, and (4) any pertinent geological features

☒ scaled drawing of roads, property lines, private sewage disposal systems, surface water features, blue line streams, and other possible sources of contamination within 200 feet of the well site

FOR WELL DECOMMISSION: ☐ well construction logs, ☐ the method of assessment, ☐ type and amount of sealant, and ☐ the method of upper seal pressure application (including PSI and time applied)

PRODUCTION WELLS	
☐ PUBLIC (MUNICIPAL UTILITY)	☐ PRIVATE RESIDENCE
☐ IRRIGATION	☐ CATHODIC PROTECTION
☐ GEOTHERMAL HEAT EXCHANGE	
☐ OTHER _____	
NAME OF C-57 LICENSEE	
SIGNATURE	

NON-PRODUCTION WELLS	
☐ MONITORING	☐ PIEZOMETER
☐ INJECTION	☐ WATER EXTRACTION
☐ AIR SPARGE	☐ TEST HOLE (PRE-PRODUCTION)
■ HYDROPUNCH	☐ CONE PENETROMETER (CPT)
☐ SOIL BORING	☐ SVE
NAME OF APPLICANT	
Carrie Crozier	
SIGNATURE	

BY SIGNING ABOVE, I HEREBY AGREE TO COMPLY IN EVERY RESPECT WITH ALL THE REGULATIONS, ORDINANCES, AND LAWS OF THE STATE OF CALIFORNIA, THE COUNTY OF LOS ANGELES, THE DEPARTMENT OF PUBLIC HEALTH, AND THE ENVIRONMENTAL HEALTH DRINKING WATER PROGRAM

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
1520 EAST I STREET	WILMINGTON	90744	CARRIE.CROZIER@PARSONS.COM

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 2 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0139072	**DATE:**	April 5, 2018

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- As indicated on your work plan, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Isabella C. Kwok, MPA, REHS
5050 Commerce Drive
Baldwin Park, Ca 91706
(626) 430-5420

7996

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3016
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

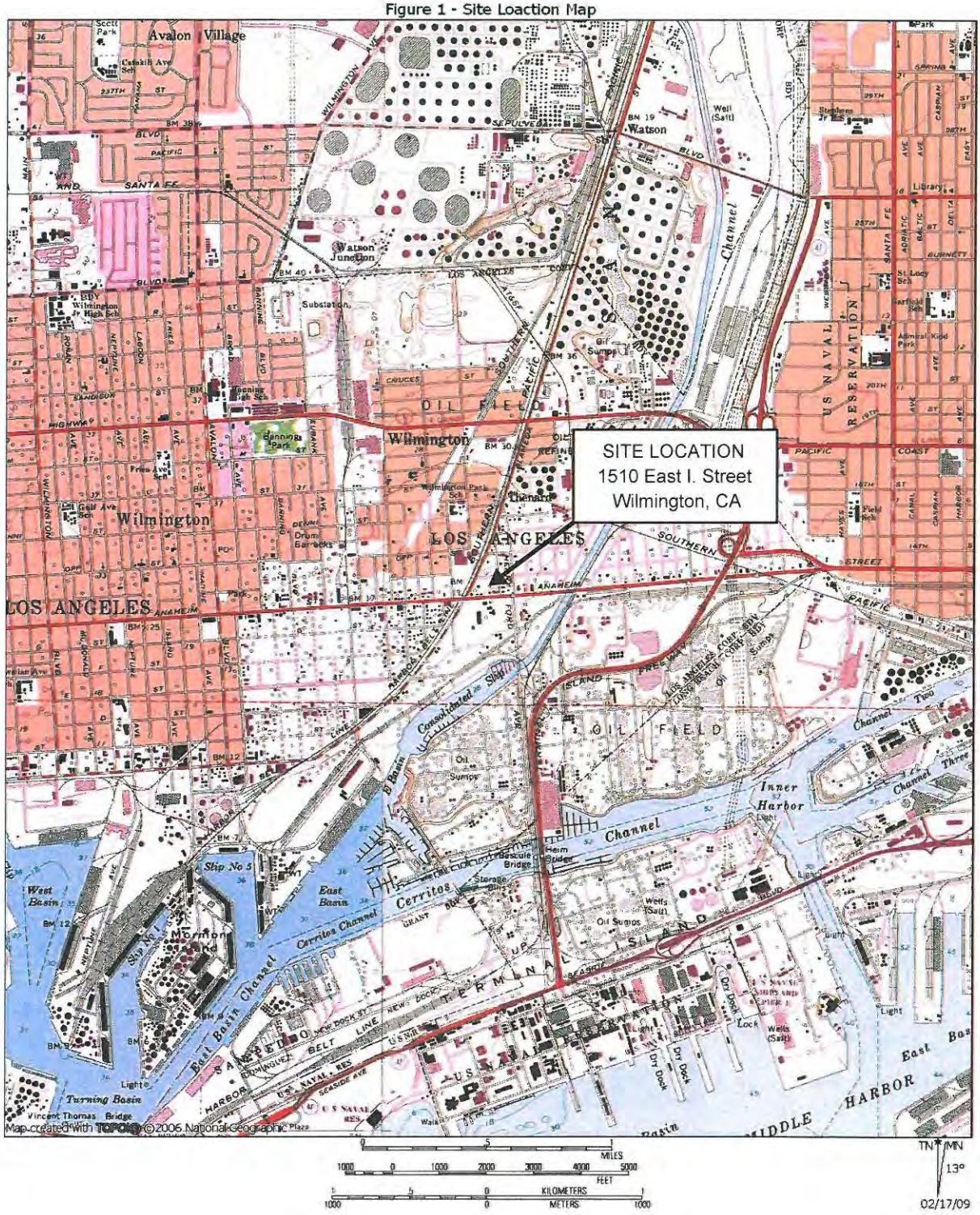
Application submission process:

Completed and signed Application for Well Permit, corresponding Fees and scope of work can be mailed or hand-carried to Environmental Health Headquarters (Attention: Drinking Water Program) at 5050 Commerce Drive, Baldwin Park, 91706. Do not send cash. Make check or money orders payable to Los Angeles County Department of Public Health.

If you wish to pay at one of our satellite offices located at 26415 Carl Boyer Dr., Santa Clarita, CA 91350; or 335-A East Avenue K-6, Lancaster, 93536, please contact the Drinking Water Program at 626-430-5420 to e-mail a copy of your application for processing prior of going to make a payment. Please note that Application for Well Permit with associated documentation must be mailed to Environmental Health Headquarters (Attention: Drinking Water Program) at 5050 Commerce Drive, Baldwin Park, 91706 for further processing.

Application for Well Permit are nontransferable. Cancelations of service requests are subject to a $65.00 processing fee plus additional plan review fees (hourly rate as applicable).

Figure 1 - Site Loaction Map



Site Testing Locations
Legend
1517 E I Street
1519 E I Street
1520 E I Street
E I St
Ventura Ave
Cristobal Ave
Santa Fe
Ensenada St
N Henry Ford Ave
Google earth
N

TABLE 1
Work Plan
Port of Los Angeles 1500 Block East "I" Street Investigation

Feature of Concern/Release Mechanism	Available Data	Sampling Objective	Proposed Location	Proposed Depth (ft)	Proposed Soil Analyses			Groundwater Sample	Soil Gas Sample
					Surface (0-2 ft bgs)	Vadose Zone (2-10 ft bgs)	Saturated Zone (>10 ft bgs)		
Southern Parcel - used for oil production from at least the 1950s. ASTs were located on-site through the early 1970s. A oil production well was destroyed in 2011. The parcel has mostly been used as an auto dismantling facility trucking terminal since at least 1980. Three ASTs were removed from the Site, two along the western boundary and one from the southeastern corner of the Site. The site has been vacant since 2009, and is unpaved with no structures. Pacific Edge Engineering (2009) conducted a Phase II site assessment and detected petroleum hydrocarbons, PCBs, VOCs, PAHs and metals in soil, groundwater, and soil gas. PAHs were not detected above PRGs. The only metals above the screening levels were arsenic, cadmium, and lead. VOCs Based on site history and historical sampling, metals (arsenic, cadmium, and lead), petroleum hydrocarbons (TPH) and PCBs would be the primary COPCs.									
Western ASTs - unknown (assumed surficial release mechanism)	TPH in soil up to 30,000 mg/kg at GS9 at 0-2.5 ft bgs, and in adjacent boring GS27 VOCs above screening levels at 10 ft bgs. Arsenic consistent with CA background concentration of 12 mg/kg in GS 9 at 0.5 ft bgs. GS27 at 5 ft bgs exceeded the industrial screening level for Ethylbenzene in soil gas with a detection of 1.64 ug/L. LNAPL was detected in the temporary well at GS9.	Confirm and vertically define historical TPH concentrations near GS9.	B-1	15 ft bgs	@0-0.5 ft bgs TPH @1.5-2 ft bgs TPH	'@5 ft bgs TPH, VOCs	@10' TPH, VOCs @15' TPH, VOCs	**Set Temp Well, collect groundwater sample for TPH, VOCs if no LNAPL**	SG-1 at 5 ft bgs for VOCs
Eastern AST - unknown (assumed surficial release mechanism)	TPH in soil up to 1,300 mg/kg at GS3 at 2.5 ft bgs. Arsenic in GS3 at a concentration of 14.4 mg/kg at 2.5 ft bgs.	Confirm and vertically define historical TPH and metals concentrations between GS19 and GS3.	B-2	15 ft bgs	@0-0.5 ft bgs TPH, Arsenic @1.5-2 ft bgs TPH, Arsenic	@5 ft bgs TPH, hold Arsenic	@10' TPH, hold Arsenic @15' TPH, hold Arsenic	**Set Temp Well, collect groundwater sample for TPH, VOCs if no LNAPL**	None
Oil well - unknown (well now destroyed)	No surficial soil samples, maximum concentration from samples at 5 and 10 ft bgs was 11 mg/kg.	No further assessment required	--	--	None	None	None	None	None
Metals in soil - 0-2.5 ft bgs, limited data below 2 ft bgs	Cadmium, and Lead exceed DTSC screening Levels in 10 samples in the top 2 ft bgs. Seven samples exceed the Southern California background level for arsenic of 12 mg/kg. Total Chromium elevated above 30 mg/kg at GS5 and GS6.	Confirm and vertically define historical TPH and lead near GS6.	B-3	10 ft bgs	@0-0.5 ft bgs TPH, Lead, Cadmium @1.5-2 ft bgs TPH, Lead, Cadmium	'@5 ft bgs hold TPH, Lead, Cadmium	@10 ft bgs hold TPH, Lead, Cadmium	None	None
		Confirm and vertically define historical TPH, Metals, and PCBs near GS7 and HA8.	B-4	10 ft bgs	@0-0.5 ft bgs TPH, Lead, PCBs @1.5-2 ft bgs TPH, Lead, PCBs	'@5 ft bgs hold TPH, Lead, PCBs	@10 ft bgs hold TPH, Lead, PCBs	None	None
		Horizontally define metals near GS29.	B-5	10 ft bgs	@0-0.5 ft bgs Arsenic, Lead @1.5-2 ft bgs Arsenic, Lead	'@5 ft bgs hold Arsenic, Lead	@10 ft bgs hold Arsenic, Lead	None	None
		Horizontally define PCBs and metals near GS30.	B-6	10 ft bgs	@0-0.5 ft bgs Arsenic, Lead PCBs @1.5-2 ft bgs Arsenic, Lead PCBs	'@5 ft bgs hold Arsenic, Lead PCBs	@10 ft bgs hold Arsenic, Lead, PCBs	None	None
VOCs in Soil Gas	Maximum concentration of 0.984 µg/L benzene at GS2 at 5 ft bgs in 2007 southwest of former oil well and north of eastern ASTs.	Assess current soil gas concentrations at location with maximum soil gas concentrations in 2007/2008 to ascertain if there is a potential vapor intrusion risk.	SG-2	Install probe at 5 ft bgs	None	@ 5 ft bgs VOCs	None	None	SG-2 at 5 ft bgs for VOCs

TABLE 1
Work Plan
Port of Los Angeles 1500 Block East "I" Street Investigation

Feature of Concern/Release Mechanism	Available Data	Sampling Objective	Proposed Location	Proposed Depth (ft)	Proposed Soil Analyses			Groundwater Sample	Soil Gas Sample
					Surface (0-2 ft bgs)	Vadose Zone (2-10 ft bgs)	Saturated Zone (>10 ft bgs)		
Northern Parcel - appears to have been a vacant lot from aerial photos from 1952 through 1980. The lot was used for auto dismantling/storage in the 1990s and is now a vacant lot again. No soil, groundwater, or soil gas data is available for this property. Groundwater flows to the southwest, and a there are multiple industrial properties up-gradient to the northeast that provide a potential source for impacted groundwater under the property.									
No known sources on-site except sitewide auto dismantling.	No data available	Establish a baseline value for potential contaminants in soil, soil gas, and groundwater. Borings B-7 through B-15 will be on a rectangular grid with approximate 50 foot spacing. One sample will be collected within each grid cell; the specific location of the boring within each grid cell will be determined in the field.	B-7 through B-15	15 ft bgs	@0-0.5 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH @1.5-2 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@5 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@10 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs @15 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	**Three temporary wells will be installed and grab groundwater samples will be collected for TPH, VOCs, and SVOCs. Locations will be selected after historical site review and site walk.**	Vapor probes GS-3 through SG-11 will be installed at 5 ft bgs and sampled for VOCs.
				10 ft bgs	@0-0.5 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH @1.5-2 ft bgs TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@5 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	@10 TPH, Title 22 Metals, Mercury, PCBs, PAH, VOCs	None	

Estimated depth to water between 10.5 and 12.5 ft bgs.

All borings to be backfilled with hydrated bentonite chips at conclusion of sampling.

Hydropunch samples to be collected through a hydropunch sampler or a temporary PVC casing. All hydropunch borings to be destroyed less than 24 hours after drilling.

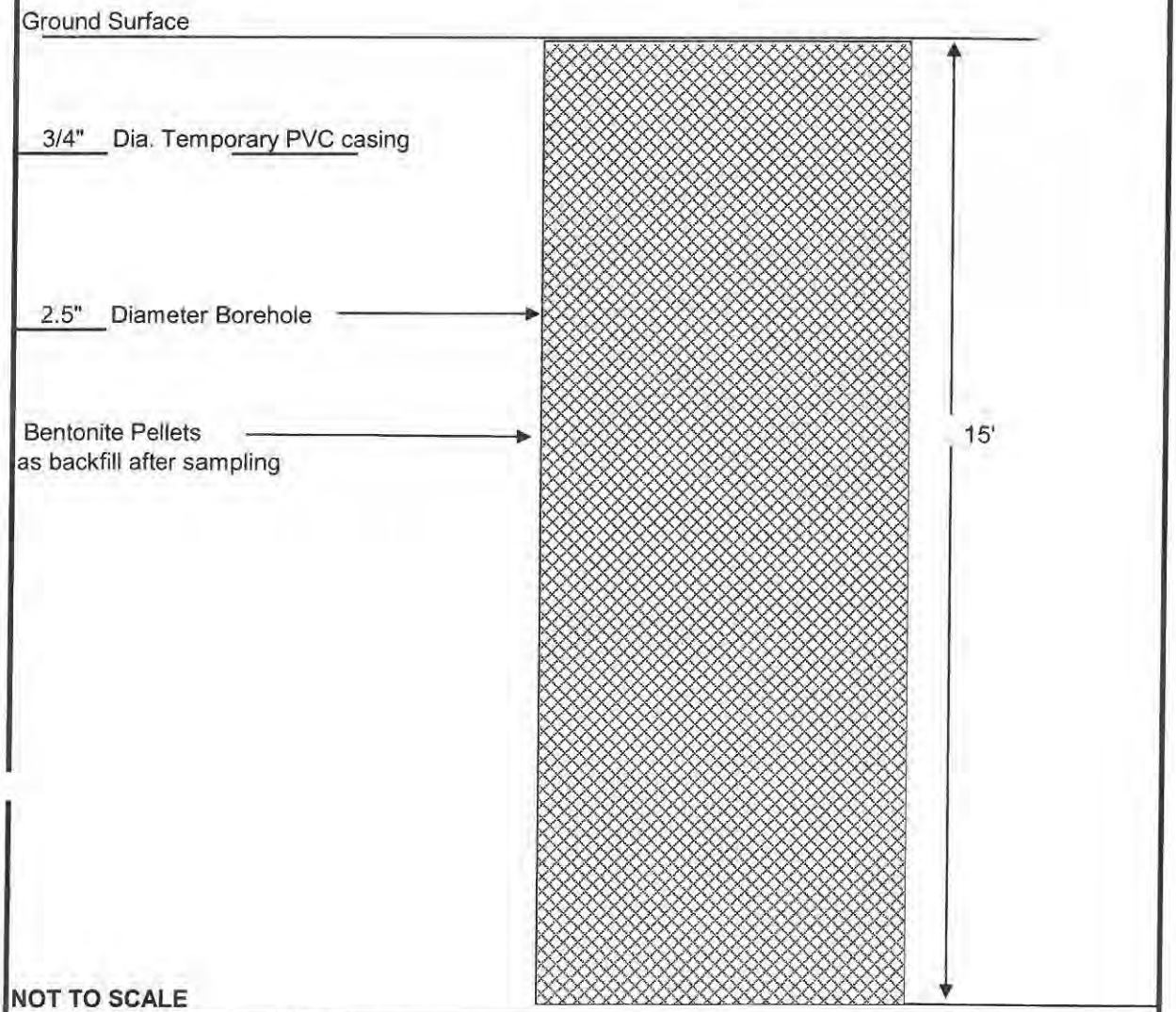
All soil gas points will be temporary, tubing will be removed after sampling is completed.

All borings will be hand augered to 5 ft bgs. Borings deeper than 5 ft bgs will be completed with a direct push drill rig by a C57 licensed driller (Gregg Drilling and Testing).

PARSONS

HYDROPUNCH BORING CONSTRUCTION DIAGRAM

Figure 1 Monitoring Well



NOT TO SCALE

PARSONS	Well Construction Diagram
Drawn: CC 3/19/2018 Approved: CC 3/19/2018	

APPENDIX B

Boring Logs

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number SG-2
Sampling Method: HA	Sheet 1 of 1
Weather Conditions: Sunny	Drilling Start Date 4/16/15 Time 0745 / Finish Date / Time
Surface Conditions: Dirt	
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0		
							1		bentonite chips
							2		
							3		#8
							4		
	0753	—		0.0			5		SAND with gravel, trace silt, dark brown, dry, angular gravel to 3/4"
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B1
Sampling Method: HA	Sheet 1 of 2
Weather Conditions: Sunny	Drilling Start Date 4/16/19 Time
Surface Conditions: Dirt	Finish Date Time
Notes:	

Geologist: C. Crozier
Reviewed By:
Type or Instrument/Serial No.
Calibration Date/Gas:
Sample Container:
Sample Analyses:
Personal Sampling: ☐ Yes ☐ No
Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
				0.4			0	SM	SAND w/ silt and tar balls. Tar balls up to 3" found in medium plasticity brown, fine sand, dry
							1		
				0.1					@ 2 ft. red brown finer tar balls w/ max diameter ½"
							2		
							3		
							4		
	1036	—		0.1			5	ML	SILT with SAND, red/brown, moist, f sand, trace c sand, loose.
							6		
							7	SP	SAND, trace fine gravel, f-c sand moist, loose gray
							8		@ 7.5' m gravel, mottled gray w/ red oxidation bands & cobble
							9		
	1049			0.1			10	SM	SAND with silt medium gray mottled w/ oxidized bands & white cobble bands

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B1
Sampling Method:	Sheet 2 of 2
Weather Conditions:	Drilling Start Date 9/15/18 Finish Date
Surface Conditions:	Time / Time
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0	SM	as above
							1		
							2		
							3	SP	SAND, brown, f, moist, loose, MTG medium grained sand, some gravels
							4		G/A gray, as above
							5		Installed temp well, screen 10-5' Backfilled w/ sand Installed vapor probe 2 ft west w/ screen 6-5' #3 sand from 5.5-4' #8 bentonite from 4.5-2' [illegible] chips 2-1'
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B2
Sampling Method: HAND	Sheet 1 of
Weather Conditions: Sunny	Drilling Start Date 4/16/15 Finish Date
Surface Conditions: Dirt	Time 0902 Time
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No. PID Mini RAE 3000

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0909	–					0	SP	Sand with gravel dark brown dry coarse gravel to 1.5" angular, some silt loose fine sand @ 0.5' hard
							1		
	0915	–		0.0				SM	Sand w/ silt, dark brown, dry dense fine sand
							2		
							3		
							4		
	0851			4.2			5	CL	CLAY Dark gray brown, moist hard, trace silt & sand, petroleum odor, low plasticity
							6		
								SM	SAND with silt mottled dark gray & medium olive fine sand, petroleum odor slight odor dense
							7		
							8		
							9		
	0902			3.5			10	SM	Sand w/ silt & clay, dark gray fine sand petroleum odor, moist Water

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B2
Sampling Method:	Sheet: 2 of 2
Weather Conditions:	Drilling Start Date: 4/16/19
Surface Conditions:	Drilling Finish Date:
Notes:	Start Time:
	Finish Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							10		
							11	SM	Silty SAND - mottled light gray + dark gray, petroleum odor, f sand, moist, loose
							12		
							13		
	0911			5.1			14	SP	SAND, fine, dark gray, saturated, trace petroleum odor
							15		Temp well installed w/ screen 10-15 ft bgs
							16		Vapor filter installed w/ screen 0-5', sand from 5-16', 1' bentonite from 3-5' bentonite chip from 0-3'
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B3
Sampling Method: HA / OF	Sheet 1 of 1
Weather Conditions: Sunny, windy	Drilling Start / Finish
Surface Conditions: Dirt	Date: 9/16/18 / Date:
Notes:	Time: 1405 / Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1406						0	SM	Silty SAND with gravel, f-c sand dry loose glass shard
							1	SP	SAND w/ Silt red brown, w/ glass metal debris, f+c Sand dry, loose
							2		
							3		
							4		
	1427						5	ML	Silt w/ sand f clay, brown, f sand moist micq
							6		
							7		
							8		
							9	SP	SAND lt gray-brown, moist, f sand zones of red oxidation
	1432						10	FCB	

Field Boring Log

PARSONS

Location of Boring/Well:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B4
Sampling Method: HA/DP	Sheet: 1 of
Weather Conditions: Sunny / windy	Drilling Start Date: 4/16/18 Finish Date:
Surface Conditions: Dirt	Drilling Start Time: 1305 Finish Time:
Datum:	Notes:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

☐ No ☐ Yes

Personal Sampling:

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1315 1317			0.0			0	SM	Silty SAND with gravel, brown dry / loose gravel to 2", glass
							1		as above red brown, no glass
							2		
							3		
							4		
	1402						5	ML	Sandy SILT, brown f sand moist dense
							6		
							7	SP	SAND w/ silt, light brown-gray
							8	SP	@ 8.25' lots white gravel @ 8-8.5 fine gray sand moist
							9	SP	
	1408						10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B5
Sampling Method: HA/DP	Sheet: 1 of
Weather Conditions: sunny, windy	Drilling Start Date: 4/15/19 Time: 1102
Surface Conditions: Dirt	Drilling Finish Date: Time:

Notes:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1107	—		0.1			0	SP	SAND w/silt and gravel f-c sand red-brown rounded gravel to 1.5" loose dry
							1		
	1112			0.1					as above w/ charcoal chunks to 3/4"
							2		
							3		
							4		
	1135						5		as above, no tar balls, moist
							6	SP	SAND, lt gray-brown mottled w/ calcite bands, moist, f sand
							7		
							8		as above w/ oxidation in veins
							9		
	1138						10	FOB	

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B6
Sampling Method: HA / DP	Sheet: 1 of
Weather Conditions: Sunny, windy	Drilling: Start Date: 4/16/19; Finish Date:
Surface Conditions: Dirt	Start Time: 1230; Finish Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1233						0	SM	Silty SAND, brown, f-c sand, trace rounded gravel to ½", dry, loose
							1		
	1238								95 gloves
							2		
							3		
							4		
	1300						5	SP	SAND, red-brown, f sand, moist, mica
							6		
							7		@7' mx'd w/ red-orange staining
							8		
							9	SP	Gray SAND w/ silt, moist, f sand, mica
	1302								
							10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B7
Sampling Method:	Sheet 1 of 2
Weather Conditions:	Drilling Start Date: 4/17/18 Finish Date:
Surface Conditions: Dirt	Time: 0838 Time:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

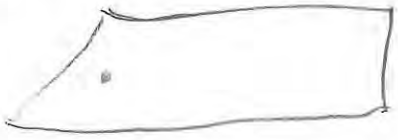
Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	Notes
	0839			0.0			0	SM	Silty SAND, brown, dry, f-c sand, some subangular gravel to 1.5 inches
	0844			0.0			1	ML	Sandy SILT, medium brown, f sand, moist
	0909			0.0			5		as above
							8	SP	SAND, f sand, lt yellowish brown, moist, caliche
							9		@9.5' saturated
	0919			0.0			10		

PARSONS **Field Boring Log**

Location of Boring/Well:



Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B7
Sampling Method: HA/CP	Sheet 2 of 2
Weather Conditions: Sunny	Drilling Start Date / Finish Date
Surface Conditions: D.C.	4/17/18

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	Notes:
							0	SP	as above, lt gray fine sand, saturated
							1		
							2		
							3		
							4		
	0928			0.0			5	FOB	Temp well for Sonde 1" PVC 10.5 3/4" PVC
							6		Vapor Pin set + screen up 6.5' 3.0') 5.5 - 4.5 #3 bent 4.5 - 3.5 bentonite chips 3.5 - 0 bent
							7		
							8		
							9		
							10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number 138
Sampling Method: HA 10'	Sheet 1 of 1
Weather Conditions: Sunny	Drilling Start Date 5/17/18 Finish Date
Surface Conditions: Dirt	Time 1120

Notes:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1122 1124			0.0			0	SP	SAND, lt/ silt + gravel, lt. gray brown, sub rounded gravel 1/4" 2", f-c sand, dry, loose
	1131			0.0			1	SM	Silty SAND, red brown, f-m sand, moist, loose
							2		
							3		
							4		
	1146			0.0			5		as above
							6		
							7		
							8	SP	SAND - lt gray brown, f sand moist, mica
							9		
	1152			0.0					
							10	F-B	Vapor probe set @ 5' sand 5-4.5 ft, bentonite 4.5-3.5, bent. chips 3.5-0

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number B9
Sampling Method:	Sheet 1 of 1
Weather Conditions:	Drilling
Surface Conditions: Dirt	Start Date 4/17/18 Time 1250 / Finish Date / Time
Notes:	

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1255			0.0			0	SM	SAND with silt, f-C sand, dry lt brown w/gravel to 1.3' roots, loose
							1		
	1301			0.0					as above
							2		
							3		
							4		
	1310			0.0			5	ML	Sandy SILT w/ clay, dk brown, moist, dense, mica
							6		
							7		
							8		
							9		
	1318			0.0				SP	SAND f-grnd, lt gray, moist
							10	EOB	See Vapor probe/ GS for Sand/ 1.45 ft bentonite chips 3.5 ft logs

Field Boring Log

PARSONS

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B10
Sampling Method: HA / DP	Sheet 1 of 1
Weather Conditions: Sunny, windy	Drilling Start Date: 4/17/18
Surface Conditions: Dirt	Drilling Finish Date:
Location of Boring/Well:	Drilling Start Time: 1340
Datum:	Drilling Finish Time:

Geologist: C. Crozier
Reviewed By:
Type or Instrument/Serial No.
Calibration Date/Gas:
Sample Container:
Sample Analyses:
Personal Sampling: ☐ Yes ☐ No
Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	Notes
	1342			0.0			0	SM	SAND w/ silt + gravel, f-c sand lt gray-brown, gravel to 1", glass, plant material
	1345			0.0			1		as above
							2		
							3		
							4		as above, moist
	1400			0.0			5		
							6	SP	SAND f sand brown, moist, micaceous
							7		
							8	SP	Sand, fine silty sand with clods brown, f sand
							9		
	1405						10	EOB	

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B11
Sampling Method: HSA / DP	Sheet: 1 of 2
Weather Conditions: Sunny	Drilling Start Date: 4/18/18
Surface Conditions: Dirt	Drilling Finish Date:
Notes:	Start Time: 0730
	Finish Time:

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0732			0.1			0	SM	Silty SAND w/ gravel, lt brown, f-c sand, grains to 3/4", dry, loose, plant material (roots, twigs)
	0736			0.0			1		as above
	0805			0.0			5		Silty SAND, medium brown, f sand, moist
							6	SP	SAND, f sand, gray-brown, wet, mica
							9	▽	DTW 9.5 ft bgs
	0814 0820			0.0			10		@ 10.5 Stop, refusal

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B1
Sampling Method:	Sheet: 2 of 2
Weather Conditions:	Drilling Start Date: 4/18/18
Surface Conditions:	Drilling Finish Date:
Notes:	Drilling Start Time: 0730
	Drilling Finish Time:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

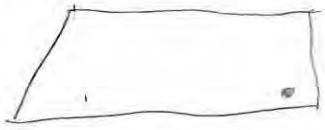
Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0	SP	
							1		
							2		Gravel and gravelly sand, oxide staining
							3	SP	SAND w silt, saturated, dark brown, mica, f sand w trace m-c sand
							4		
	0834			0.0					
							5	FILL	Temp well set w/ screen 10-5' vapor probe set @ 5' sand 5.5-4.5' ft, clays 4.5-3.5' brown clays 3.5-0 ft
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:



Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B12
Sampling Method: HA HSP	Sheet: 1 of 1
Weather Conditions: Sunny	Drilling Start Date: 4/19/17 Time: 0915
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0920			0.0			0	SP	SAND with gravel + silt, lt brown f-c sand, f-c gravel to 1.5 inches, concrete rubble
							1		
	0925			0.0					as above
							2		
							3		
							4		
							5	SP	SAND, brown, moist, f-sand, w/ cg
							6		
							7		
									G 7.75 saturated
							8		G 8.25 oxide staining
							9		
							10		EOB

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.:

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B13
Sampling Method: HAND	Sheet: 1 of 1
Weather Conditions: Sunny	Drilling: Start Time: 0837 / Finish Time:
Surface Conditions: Dirt	Date: 4/18/18
Notes:	

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0839			0.0			0	SM	SILTY SAND, lt gray-brown, v. f. sand, w/ gravel to 2" loose
				7.0			1		
	0850								as above, moist, gravel to ½"
							2		
							3		
							4		
	0857			0.0				SP	SAND, gray-brown, f. sand, moist trace fines
							5		
							6		
									GS: 75 red oxidation in bands
							7		
								SP	SAND, v/ silt, dark brown, f sand moist
							8		
							9		
	0905			0.0					
							10	FAB	Vapor Probe installed @5' sand 4.5-5' ; #1 bentonite 4.5-3.5' bentonite chips 3.5-0'

PARSONS **Field Boring Log**

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B14
Sampling Method: HA/DP	Sheet 1 of 2
Weather Conditions: Sunny, windy	Drilling Start Date: 4/17/19 Time: 0942
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

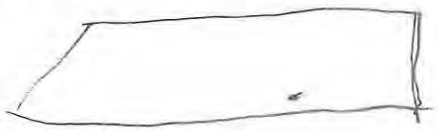
Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	0941			0.0			0	SM	Silty SAND w/ gravel, dry, f-c sand, debris - glass, plastic, metal, fibers, cloth, asphalt shingle, gravel to 1"
							1		
	0946			0.0					A/ debris, gravel to ½"
							2		
							3		
							4		
	1016			0.0			5	ML	Dark brown SILT, moist, dense, mica
							6		
							7		
							8	SW	SAND, f sand, med. brown, moist, trace silt
							9		
	1013			0.0			10		GRAVEL, no silt
									GRAVEL, some sand

PARSONS

Field Boring Log

Location of Boring/Well:



Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B14
Sampling Method:	Sheet: 2 of 2
Weather Conditions:	Drilling Start Date: 4/17/18
Surface Conditions:	Drilling Finish Date:
Notes:	Drilling Start Time: 0940
	Drilling Finish Time:

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses: 0

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
							0		
								▽	DTW 10.89
							1		
							2		
							3		as above, minor staining
							4		
	1020			0.0					as above
							5		3/4" PVC temp well set screen 10-15 ft bgs
									Vapor probe installed @ 5' and 5.5' 4.5' 5.5' bentonite 4.5-3.5' bentonite chips 3.5-0
							6		
							7		
							8		
							9		
							10		

PARSONS

Field Boring Log

Location of Boring/Well:

Datum:

Job No.	Client/Site: POLA/ 1517-1520 E I St Wilmington, CA
Drilling Co./Method: Gregg Drilling	Boring/Well Number: B15
Sampling Method: HA (DP	Sheet 1 of 1
Weather Conditions: Sunny	Drilling Start Date: 4/17/18 Time: 1040
Surface Conditions: Dirt	Drilling Finish Date: Time:
Notes:	

Geologist: C. Crozier

Reviewed By:

Type or Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled: Carrie Crozier

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Sample Headspace	Well Construction: Screen	Well Construction: Annular Space	Depth in Feet	USCS Soil Type	
	1044			0.0			0	SM	SAND w/ silt, lt gray-brown, dry, some gravel, lighter zones
							1		
	1049			0.0					
							2		@ 2' trace gravel as above
							3		
							4		
	1105			0.0			5	ML	SILT w/ sand, few rounded gravel, medium brown, f-c sand, more gravel to 1/2"
							6		
							7		
							8		
							9	SW	SAND, f sand, moist, trace silt, light gray w/ oxidized red-orange bands
	1111			0.0					
							10	EOB	Vapor probe installed w/ Solinst @ 5'. Sand @ 4.5-3.5', #2 bentonite 3.5-3.0', bent. chips 3.0 ft bgs

APPENDIX C

EMAX Soil and Groundwater Analytical Reports

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 04-30-2018
EMAX Batch No.: 18D131

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/16/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B5-0.5	D131-01	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
B5-2	D131-02	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
B5-5	D131-03	04/16/18	SOIL	HOLD
B5-10	D131-04	04/16/18	SOIL	HOLD
B6-0.5	D131-05	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B6-2	D131-06	04/16/18	SOIL	ARSENIC
				LEAD
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B6-5	D131-07	04/16/18	SOIL	HOLD
B6-10	D131-08	04/16/18	SOIL	HOLD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: ~~451104~~ 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D131
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA Parcel H
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	B5-0.5		4/16/18	1107	1			SS					X		X				H	
* 2	B5-2		4/16/18	1112	1			SS					X		X				H	
* 3	B5-5		4/16/18	1135	1			SS					H		H				H	
* 4	B5-10		4/16/18	1139	1			SS					H		H				H	
* 5	B6-0.5		4/16/18	1235	2			SS					X		X		X		H	
* 6	B6-2		4/16/18	1238	2			SS					X		X		X		H	
* 7	B6-5		4/16/18	1300	2			SS					H		H		H		H	
* 8	B6-10		4/16/18	1302	2			SS					H		H		H		H	
* 9	~~B7-0.5~~ CC							SS		X	CC					X	X	X	H	
10	~~B7-2~~ CC							SS		X	X CC					X	X	X	H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	6.1	
2	2.8	
3	5.6	

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	04/16/18	16:00	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D131
☐ Fedex ☐ UPS ☐ GSO ☒ Others	All around courier	Recipient Miguel
☐ EMAX Courier ☐ Client Delivery		Date 04/16/18 Time 16:06

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☐ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☒ Address	☒ Tel # / Fax #	☒ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: Correction on COC not dated

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☒ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☒ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 6.1 °C	☒ Cooler 2 2.8 °C	☒ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555020	

Comments: ☒ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action

04/16/18

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

RB 4/1

NOTES/OBSERVATIONS: TA 04/16/18

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	_____
D23	_____
D24	_____

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	_____
R9	_____
R10	_____
R11	_____
R12	_____

REVIEWS:

Sample Labeling Date 04/16/18 / 4/16/18

SRF _____ Date 4/16/18

PM _____ Date 4/18/18

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D131

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D131

METHOD SW3550B/SW8082
PCBS

A total of two (2) soil samples were received on 04/16/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D131
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B6-0.5	D131-05	1	5.6	04/23/1820:12	04/20/1815:05	KD23010A	KD23005A	CPD016S	Field Sample
B6-2	D131-06	1	6.4	04/23/1820:32	04/20/1815:05	KD23011A	KD23005A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client : PARSONS		Date Collected: 04/16/18	
Project : POLA-1500 I STREET		Date Received: 04/16/18	
Batch No. : 18D131		Date Extracted: 04/20/18 15:05	
Sample ID: B6-0.5		Date Analyzed: 04/23/18 20:12	
Lab Samp ID: D131-05		Dilution Factor: 1	
Lab File ID: KD23010A		Matrix : SOIL	
Ext Btch ID: CPD016S		% Moisture : 5.6	
Calib. Ref.: KD23005A		Instrument ID : GCT071	

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(ND) | ND	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.47 | (14.70)	14.12	102 | (104)	50-130
DECACHLOROBIPHENYL	(16.26) | 14.66	14.12	(115) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/16/18
Project	: POLA-1500 I STREET	Date Received	: 04/16/18
Batch No.	: 18D131	Date Extracted	: 04/20/18 15:05
Sample ID	: B6-2	Date Analyzed	: 04/23/18 20:32
Lab Samp ID	: D131-06	Dilution Factor	: 1
Lab File ID	: KD23011A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 6.4
Calib. Ref.	: KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(ND) | ND	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.72 | (14.05)	14.24	96.3 | (98.7)	50-130
DECACHLOROBIPHENYL	(16.25) | 14.45	14.24	(114) | 101	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/20/18
Batch No.	: 18D131	Date Extracted	: 04/20/18 15:05
Sample ID	: MBLK1S	Date Analyzed	: 04/24/18 03:36
Lab Samp ID	: 60D016SB	Dilution Factor	: 1
Lab File ID	: KD23032A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: NA
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D131
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D016SB	60D016SL	60D016SC		
LAB FILE ID:	KD23032A	KD23008A	KD23009A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1803:36	04/23/1819:32	04/23/1819:52	DATE RECEIVED:	04/20/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23005A	KD23005A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 18D131

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D131

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of four (4) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD025SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD025SL/IPD025SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D131
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD025SB	1.000	NA	04/23/1819:55	04/19/1811:06	ID8D018085	ID8D018083	IPD025S	Method Blank
LCS1S	IPD025SL	1.000	NA	04/23/1819:59	04/19/1811:06	ID8D018086	ID8D018083	IPD025S	Lab Control Sample (LCS)
LCD1S	IPD025SC	1.000	NA	04/23/1820:03	04/19/1811:06	ID8D018087	ID8D018083	IPD025S	LCS Duplicate
B5-0.5	D131-01	1.000	6.2	04/23/1820:06	04/19/1811:06	ID8D018088	ID8D018083	IPD025S	Field Sample
B5-2	D131-02	1.000	8.8	04/23/1820:10	04/19/1811:06	ID8D018089	ID8D018083	IPD025S	Field Sample
B6-0.5	D131-05	1.000	5.6	04/23/1820:14	04/19/1811:06	ID8D018090	ID8D018083	IPD025S	Field Sample
B6-2	D131-06	1.000	6.4	04/23/1820:18	04/19/1811:06	ID8D018091	ID8D018083	IPD025S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/16/18 11:07
Project : POLA-1500 I STREET	Date Received: 04/16/18
SDG NO. : 18D131	Date Extracted: 04/19/18 11:06
Sample ID: B5-0.5	Date Analyzed: 04/23/18 20:06
Lab Samp ID: D131-01	Dilution Factor: 1
Lab File ID: ID8D018088	Matrix: SOIL
Ext Btch ID: IPD025S	% Moisture: 6.2
Calib. Ref.: ID8D018083	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.82	1.06	0.422
Lead	46.1	1.06	0.211

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.01g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 11:12
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D131	Date Extracted:	04/19/18 11:06
Sample ID:	B5-2	Date Analyzed:	04/23/18 20:10
Lab Samp ID:	D131-02	Dilution Factor:	1
Lab File ID:	ID8D018089	Matrix:	SOIL
Ext Btch ID:	IPD025S	% Moisture:	8.8
Calib. Ref.:	ID8D018083	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.64	1.04	0.418
Lead	85.5	1.04	0.209

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.05g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 12:33
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D131	Date Extracted:	04/19/18 11:06
Sample ID:	B6-0.5	Date Analyzed:	04/23/18 20:14
Lab Samp ID:	D131-05	Dilution Factor:	1
Lab File ID:	ID8D018090	Matrix:	SOIL
Ext Btch ID:	IPD025S	% Moisture:	5.6
Calib. Ref.:	ID8D018083	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.98	1.03	0.411
Lead	31.6	1.03	0.206

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.03g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 12:38
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D131	Date Extracted:	04/19/18 11:06
Sample ID:	B6-2	Date Analyzed:	04/23/18 20:18
Lab Samp ID:	D131-06	Dilution Factor:	1
Lab File ID:	ID8D018091	Matrix:	SOIL
Ext Btch ID:	IPD025S	% Moisture:	6.4
Calib. Ref.:	ID8D018083	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.68	1.03	0.411
Lead	6.94	1.03	0.206

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.04g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: NA
SDG NO. : 18D131	Date Extracted: 04/19/18 11:06
Sample ID: MBLK1S	Date Analyzed: 04/23/18 19:55
Lab Samp ID: IPD025SB	Dilution Factor: 1
Lab File ID: ID8D018085	Matrix: SOIL
Ext Btch ID: IPD025S	% Moisture: NA
Calib. Ref.: ID8D018083	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1.00	0.400
Lead	ND	1.00	0.200

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D131
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD025SB	IPD025SL	IPD025SC
LAB FILE ID	: ID8D018085	IDBD018086	ID8D01B0B7
DATE PREPARED	: 04/19/18 11:06	04/19/18 11:06	04/19/18 11:06
DATE ANALYZED	: 04/23/18 19:55	04/23/18 19:59	04/23/18 20:03
PREP BATCH	: IPD025S	IPD025S	IPD025S
CALIBRATION REF	: ID8D018083	ID8D018083	ID8D018083

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Arsenic	ND	50	49.3	99	50	48.7	97	1	80-120	20
Lead	ND	50	48.8	98	50	48.2	96	1	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-04-2018
EMAX Batch No.: 18D132

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/16/18.
The data reported relate only to samples listed below :

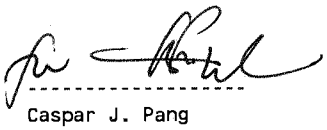
Sample ID	Control #	Col Date	Matrix	Analysis
B1-0.5	D132-01	04/16/18	SOIL	TPH GASOLINE
B1-2.0	D132-02	04/16/18	SOIL	TPH GASOLINE
B1-5.0	D132-03	04/16/18	SOIL	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
B1-10.0	D132-04	04/16/18	SOIL	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
B1-15.0	D132-05	04/16/18	SOIL	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
B2-0.5	D132-06	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				ARSENIC
				HOLD
B2-2	D132-07	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				ARSENIC
				HOLD
B2-5	D132-08	04/16/18	SOIL	HOLD
B2-10	D132-09	04/16/18	SOIL	HOLD
B2-15	D132-10	04/16/18	SOIL	HOLD
B3-0.5	D132-11	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				CADMIUM
B3-2	D132-12	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				CADMIUM
B3-5	D132-13	04/16/18	SOIL	HOLD
B3-10	D132-14	04/16/18	SOIL	HOLD
B4-0.5	D132-15	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				POLYCHLORINATED BIPHENYLS (PCBS)
B4-2	D132-16	04/16/18	SOIL	TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
B4-2	D132-16	04/16/18	SOIL	TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				POLYCHLORINATED BIPHENYLS (PCBS)
B4-5	D132-17	04/16/18	SOIL	HOLD
B4-10	D132-18	04/16/18	SOIL	HOLD
B3-2D	D132-19	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				CADMIUM
B4-0.5D	D132-20	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				LEAD
				POLYCHLORINATED BIPHENYLS (PCBS)
SG-2-5	D132-21	04/16/18	SOIL	VOLATILE ORGANICS BY GC/MS
				HOLD
TRIP BLANK	D132-22	04/16/18	WATER	VOLATILE ORGANICS BY GC/MS
B1	D132-23	04/16/18	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH DIESEL & MOTOR OIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	PO NUMBER: ~~451104~~ 451077 SAMPLE STORAGE	EMAX CONTROL NO. 18D132 PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	B1-0.5		4/16/18	1013	2			SS		X										
* 2	B1-2.0		4/16/18	1017	2			SS		X										
* 3	B1-5.0		4/16/18	1036	5			SS		X	X									
* 4	B1-10.0		4/16/18	1049	5			SS		X	X									
* 5	B1-15.0		4/16/18	1052	5			SS		X	X									
* 6	B2-0.5		4/16/18	0809	3			SS		X			X						H	
* 7	B2-2		4/16/18	0832	3			SS		X			X						H	
* 8	B2-5		4/16/18	0857	3			SS		H			H						H	
* 9	B2-10		4/16/18	0902	3			SS		H			H						H	
10	B2-15		4/16/18	0911	3			SS		H			H						H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	6.1	
2	2.8	
3	5.6	

SAMPLER

RELINQUISHED BY	Date	Time	COURIER/AIRBILL RECEIVED BY
	4/16/18	527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	PO NUMBER: ~~451104~~ 451077 SAMPLE STORAGE	EMAX CONTROL NO. 18D132 PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
*1	B3-0.5		4/16/18	1406	3			SS		X				X	X				H	
*2	B3-2		1417	~~1419~~ 1419 QC	3			SS		X				X	X				H	
*3	B3-5			1427	3			SS		H				H	H				H	
*4	B3-10			1432	3			SS		H				H	H				H	
*5	B4-0.5			1315	4			SS		X					X		X		H	
*6	B4-2			1337	4			SS		X					X		X		H	
*7	B4-5			1402	4			SS		H					H		H		H	
*8	B4-10			1408	4			SS		H					H		H		H	
*9	B3-2D		1419	~~1319~~ 1419 QC	3			SS		X				X	X				H	
10	B4-0.5D			1317 ~~1317~~	4			SS		X					X		X		H	

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	4/16/18	1600	

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CHAIN OF CUSTODY

EMAX Laboratories, Inc.

1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 451077

SAMPLE STORAGE

EMAX CONTROL NO. 18D132

PROJECT CODE:

CLIENT Parsons for Port of LA

PROJECT POLA I Street

COORDINATOR Carrie Crozier

TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com

SEND REPORT TO Carrie Crozier

COMPANY Parsons

ADDRESS 100 W Walnut St

Pasadena CA 91124

EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
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WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	~~B15-10~~							~~SS~~		~~X~~	~~X~~			CC		~~X~~	~~X~~	~~X~~	~~H~~	
(21) * 2	SG-2-5		4/16/18	0753	3	40mL	VOA	SS		~~CC~~ X	X	~~CC~~ X				~~CC~~ X	~~CC~~ X		H	
(22) * 3	Trip Blank		4/16/18	1456	3						X									
(23) * 4	BH		4/16/18	1145	7	—	·	GW		X	X									
* 5																				
* 6																				
* 7																				
* 8																				
* 9																				
10																				

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	0527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D132
☐ Fedex ☐ UPS ☐ GSO ☑ Others	All Around	Recipient Nevaeh/10
☐ EMAX Courier ☐ Client Delivery		Date 4/16/18 Time 1600

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: Corrections on COC not dated

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool. ≤6 °C but not frozen)	☑ Cooler 1 6.1 °C	☑ Cooler 2 2.8 °C	☑ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555620	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
3	5-9	D3	B1-5 On label	R1
4	10-14	D3	B1-10 On label	↓
5	15-19	D3	B1-15 on label	R8
22	73-76	D1		
23	78,77	D1		
13,20	42,68,69	D10		
1-~~22~~21 No 4 vials		D16	pres not indicated on COC	
22,23		D16	pres not indicated on COC / label (Sediment on Vials)	
2	3,4	D3	B1-2 on label	R1
21		D22	No jar provided for TCLP/STLC - COC reads H	R8
				↓
23	82	D23	See below	R8

4/17/18

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: Labels attached directly to Pre-weighed vials - Weight is visible

TCLP/STLC not written on labels → See Moisture in 18D138

*1-5 pH samples: Moisture jar not provided with samples *Samples 15-18,20 vials read TPH-PCBs

*Samples 6-10: vials label reads TPH-Arsenic *Samples 11-14: vials read TPH-lead

LEGEND: *19 Samples: vial label reads cadmium-lead

☐ Continue to next page.

Code	Description- Sample Management
(D1)	Analysis is not indicated in Label
D2	Analysis mismatch COC vs label
(D3)	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
(D10)	No initial (date) on corrections in COC (label)
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
(D16)	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
(D22)	See above
(D23)	Received 1 L Amber for TPH WCs
D24	

Code	Description-Sample Management
R1	Proceed as indicated in (X) COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client.
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling _____ Date 4/16/18 4/16/18

SRF _____ Date 4/17/18

PM PB Date 4/17/18

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than LOQ/RL but greater than LOD/MDL/DL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of two (2) water samples were received on 04/16/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5030B/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VO67D18B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VO67D18L/VO67D18C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : 67

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V067D18B	1	NA	04/20/1809:26	04/20/1809:26	RDC425	RCC056	V067D18	Method Blank
LCS1W	V067D18L	1	NA	04/20/1808:35	04/20/1808:35	RDC423	RCC056	V067D18	Lab Control Sample (LCS)
LCD1W	V067D18C	1	NA	04/20/1809:01	04/20/1809:01	RDC424	RCC056	V067D18	LCS Duplicate
TRIP BLANK	D132-22	1	NA	04/20/1816:14	04/20/1816:14	RDC441	RCC056	V067D18	Field Sample
B1	D132-23	1	NA	04/20/1816:40	04/20/1816:40	RDC442	RCC056	V067D18	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/20/18 16:14
Sample ID:	TRIP BLANK	Date Analyzed:	04/20/18 16:14
Lab Samp ID:	D132-22	Dilution Factor:	1
Lab File ID:	RDC441	Matrix	: WATER
Ext Btch ID:	V067D18	% Moisture	: NA
Calib. Ref.:	RCC056	Instrument ID	: 67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.50	10.00	95.0	70-140
4-BROMOFLUOROBENZENE	10.7	10.00	107	70-130
TOLUENE-D8	9.95	10.00	99.5	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/20/18 16:40
Sample ID:	B1	Date Analyzed:	04/20/18 16:40
Lab Samp ID:	D132-23	Dilution Factor:	1
Lab File ID:	RDC442	Matrix	: WATER
Ext Btch ID:	VO67D18	% Moisture	: NA
Calib. Ref.:	RCC056	Instrument ID	: 67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	7.4J	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	0.38J	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	0.27J	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.76	10.00	97.6	70-140
4-BROMOFLUOROBENZENE	10.3	10.00	103	70-130
TOLUENE-D8	9.88	10.00	98.8	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/20/18
Batch No.	: 18D132	Date Extracted	: 04/20/18 09:26
Sample ID	: MBLK1W	Date Analyzed	: 04/20/18 09:26
Lab Samp ID	: V067D18B	Dilution Factor	: 1
Lab File ID	: RDC425	Matrix	: WATER
Ext Btch ID	: V067D18	% Moisture	: NA
Calib. Ref.	: RCC056	Instrument ID	: 67

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.14	10.00	91.4	70-140
4-BROMOFLUOROBENZENE	10.8	10.00	108	70-130
TOLUENE-D8	10.2	10.00	102	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V067D18B	V067D18L	V067D18C		
LAB FILE ID:	RDC425	RDC423	RDC424		
DATE EXTRACTED:	04/20/1809:26	04/20/1808:35	04/20/1809:01	DATE COLLECTED:	NA
DATE ANALYZED:	04/20/1809:26	04/20/1808:35	04/20/1809:01	DATE RECEIVED:	04/20/18
PREP. BATCH:	V067D18	V067D18	V067D18		
CALIB. REF:	RCC056	RCC056	RCC056		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.29	93	10.0	9.03	90	3	60-130	20
Benzene	ND	10.0	9.44	94	10.0	9.18	92	3	70-130	20
Chlorobenzene	ND	10.0	11.4	114	10.0	11.1	111	3	70-120	20
Toluene	ND	10.0	9.75	98	10.0	9.46	95	3	70-130	20
Trichloroethene	ND	10.0	11.2	112	10.0	10.9	109	2	70-130	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	8.90	89	10.0	8.55	86	70-140
4-Bromofluorobenzene	10.0	8.81	88	10.0	8.94	89	70-130
Toluene-d8	10.0	9.70	97	10.0	9.73	97	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of four (4) soil samples were received on 04/16/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VSF4D09B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VSF4D09L/VSF4D09C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Samples D132-03, -04 and -05 were reported with moisture correction from SDG 18D138 per client request, since no extra jars have provided to determine moisture correction.
Sample D132-21 reported without moisture correction, since no extra jars have provided to determine moisture correction.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : F4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VSF4D09B	1	NA	04/17/1812:09	04/17/1812:09	RDN137	RDN081	VSF4D09	Method Blank
LCS1S	VSF4D09L	1	NA	04/17/1810:44	04/17/1810:44	RDN134	RDN081	VSF4D09	Lab Control Sample (LCS)
LCD1S	VSF4D09C	1	NA	04/17/1811:13	04/17/1811:13	RDN135	RDN081	VSF4D09	LCS Duplicate
B1-5.0	D132-03	0.83	13.7	04/17/1812:38	04/17/1812:38	RDN138	RDN081	VSF4D09	Field Sample
B1-10.0	D132-04	0.83	20.0	04/17/1813:06	04/17/1813:06	RDN139	RDN081	VSF4D09	Field Sample
B1-15.0	D132-05	0.76	13.8	04/17/1813:34	04/17/1813:34	RDN140	RDN081	VSF4D09	Field Sample
SG-2-5	D132-21	0.96	NA	04/17/1814:02	04/17/1814:02	RDN141	RDN081	VSF4D09	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 12:38
Sample ID:	B1-5.0	Date Analyzed:	04/17/18 12:38
Lab Samp ID:	D132-03	Dilution Factor:	0.83
Lab File ID:	RDN138	Matrix :	SOIL
Ext Btch ID:	VSF4D09	% Moisture :	13.7
Calib. Ref.:	RDN081	Instrument ID :	TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,1-TRICHLOROETHANE	ND	4.8	0.96
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,2-TRICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHENE	ND	4.8	0.96
1,1-DICHLOROPROPENE	ND	4.8	0.96
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.8	0.96
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.96
1,2-DICHLOROBENZENE	ND	4.8	0.96
1,2-DICHLOROETHANE	ND	4.8	0.96
1,2-DICHLOROPROPANE	ND	4.8	0.96
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.96
1,3-DICHLOROBENZENE	ND	4.8	0.96
1,3-DICHLOROPROPANE	ND	4.8	0.96
1,4-DICHLOROBENZENE	ND	4.8	0.96
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	ND	9.6	4.8
2-CHLOROTOLUENE	ND	4.8	0.96
2-HEXANONE	ND	9.6	4.8
4-CHLOROTOLUENE	ND	4.8	0.96
ACETONE	14	9.6	4.8
BENZENE	ND	4.8	0.96
BROMOBENZENE	ND	4.8	0.96
BROMOCHLOROMETHANE	ND	4.8	0.96
BROMODICHLOROMETHANE	ND	4.8	0.96
BROMOFORM	6.4	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	ND	4.8	0.96
CARBON TETRACHLORIDE	ND	4.8	0.96
CHLOROBENZENE	ND	4.8	0.96
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.96
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.96
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.96
DIBROMOCHLOROMETHANE	ND	4.8	0.96
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.96
ISOPROPYL BENZENE	ND	4.8	0.96
M,P-XYLENES	ND	9.6	1.9
MIBK	ND	9.6	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.96
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.96
N-PROPYLBENZENE	ND	4.8	0.96
O-XYLENE	ND	4.8	0.96
P-ISOPROPYLTOLUENE	ND	4.8	0.96
SEC-BUTYLBENZENE	ND	4.8	0.96
STYRENE	ND	4.8	0.96
TERT-BUTYLBENZENE	ND	4.8	0.96
TETRACHLOROETHENE	ND	4.8	0.96
TOLUENE	ND	4.8	0.96
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.96
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.96
TRICHLOROETHENE	ND	4.8	0.96
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.96

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.7	48.09	97.2	60-160
4-BROMOFLUOROBENZENE	49.4	48.09	103	70-150
TOLUENE-D8	50.5	48.09	105	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 13:06
Sample ID:	B1-10.0	Date Analyzed:	04/17/18 13:06
Lab Samp ID:	D132-04	Dilution Factor:	0.83
Lab File ID:	RDN139	Matrix	: SOIL
Ext Btch ID:	VSF4D09	% Moisture	: 20.0
Calib. Ref.:	RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	2.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DIBROMOETHANE	ND	5.2	1.0
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	ND	10	5.2
2-CHLOROTOLUENE	ND	5.2	1.0
2-HEXANONE	ND	10	5.2
4-CHLOROTOLUENE	ND	5.2	1.0
ACETONE	8.8J	10	5.2
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	5.2	2.1
CARBON DISULFIDE	ND	5.2	1.0
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.2
METHYLENE CHLORIDE	ND	5.2	2.1
MTBE	ND	5.2	1.0
NAPHTHALENE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
VINYL ACETATE	ND	5.2	2.1
FREON113	ND	5.2	2.1
DIBROMOMETHANE	ND	5.2	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	50.9	51.87	98.1	60-160
4-BROMOFLUOROBENZENE	53.2	51.87	103	70-150
TOLUENE-D8	54.4	51.87	105	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 13:34
Sample ID:	B1-15.0	Date Analyzed:	04/17/18 13:34
Lab Samp ID:	D132-05	Dilution Factor:	0.76
Lab File ID:	RDN140	Matrix	: SOIL
Ext Btch ID:	VSF4D09	% Moisture	: 13.8
Calib. Ref.:	RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.4	0.88
1,1,1-TRICHLOROETHANE	ND	4.4	0.88
1,1,2,2-TETRACHLOROETHANE	ND	4.4	0.88
1,1,2-TRICHLOROETHANE	ND	4.4	0.88
1,1-DICHLOROETHANE	ND	4.4	0.88
1,1-DICHLOROETHENE	ND	4.4	0.88
1,1-DICHLOROPROPENE	ND	4.4	0.88
1,2,3-TRICHLOROBENZENE	ND	4.4	1.8
1,2,3-TRICHLOROPROPANE	ND	4.4	1.8
1,2,4-TRICHLOROBENZENE	ND	4.4	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.4	0.88
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.4	1.8
1,2-DIBROMOETHANE	ND	4.4	0.88
1,2-DICHLOROBENZENE	ND	4.4	0.88
1,2-DICHLOROETHANE	ND	4.4	0.88
1,2-DICHLOROPROPANE	ND	4.4	0.88
1,3,5-TRIMETHYLBENZENE	ND	4.4	0.88
1,3-DICHLOROBENZENE	ND	4.4	0.88
1,3-DICHLOROPROPANE	ND	4.4	0.88
1,4-DICHLOROBENZENE	ND	4.4	0.88
2,2-DICHLOROPROPANE	ND	4.4	1.8
2-BUTANONE	ND	8.8	4.4
2-CHLOROTOLUENE	ND	4.4	0.88
2-HEXANONE	ND	8.8	4.4
4-CHLOROTOLUENE	ND	4.4	0.88
ACETONE	6.5J	8.8	4.4
BENZENE	ND	4.4	0.88
BROMOBENZENE	ND	4.4	0.88
BROMOCHLOROMETHANE	ND	4.4	0.88
BROMODICHLOROMETHANE	ND	4.4	0.88
BROMOFORM	ND	4.4	1.8
BROMOMETHANE	ND	4.4	1.8
CARBON DISULFIDE	ND	4.4	0.88
CARBON TETRACHLORIDE	ND	4.4	0.88
CHLOROBENZENE	ND	4.4	0.88
CHLOROETHANE	ND	4.4	1.8
CHLOROFORM	ND	4.4	0.88
CHLOROMETHANE	ND	4.4	1.8
CIS-1,2-DICHLOROETHENE	ND	4.4	0.88
CIS-1,3-DICHLOROPROPENE	ND	4.4	0.88
DIBROMOCHLOROMETHANE	ND	4.4	0.88
DICHLORODIFLUOROMETHANE	ND	4.4	1.8
ETHYLBENZENE	ND	4.4	0.88
ISOPROPYL BENZENE	ND	4.4	0.88
M,P-XYLENES	ND	8.8	1.8
MIBK	ND	8.8	4.4
METHYLENE CHLORIDE	ND	4.4	1.8
MTBE	ND	4.4	0.88
NAPHTHALENE	ND	4.4	1.8
N-BUTYLBENZENE	ND	4.4	0.88
N-PROPYLBENZENE	ND	4.4	0.88
O-XYLENE	ND	4.4	0.88
P-ISOPROPYLTOLUENE	ND	4.4	0.88
SEC-BUTYLBENZENE	ND	4.4	0.88
STYRENE	ND	4.4	0.88
TERT-BUTYLBENZENE	ND	4.4	0.88
TETRACHLOROETHENE	ND	4.4	0.88
TOLUENE	ND	4.4	0.88
TRANS-1,2-DICHLOROETHENE	ND	4.4	0.88
TRANS-1,3-DICHLOROPROPENE	ND	4.4	0.88
TRICHLOROETHENE	ND	4.4	0.88
TRICHLOROFLUOROMETHANE	ND	4.4	1.8
VINYL CHLORIDE	ND	4.4	1.8
VINYL ACETATE	ND	4.4	1.8
FREON113	ND	4.4	1.8
DIBROMOMETHANE	ND	4.4	0.88

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	43.1	44.08	97.7	60-160
4-BROMOFLUOROBENZENE	45.3	44.08	103	70-150
TOLUENE-D8	46.5	44.08	106	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/16/18
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132	Date Extracted:	04/17/18 14:02
Sample ID:	SG-2-5	Date Analyzed:	04/17/18 14:02
Lab Samp ID:	D132-21	Dilution Factor:	0.96
Lab File ID:	RDN141	Matrix	: SOIL
Ext Btch ID:	VSF4D09	% Moisture	: NA
Calib. Ref.:	RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,1-TRICHLOROETHANE	ND	4.8	0.96
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,2-TRICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHENE	ND	4.8	0.96
1,1-DICHLOROPROPENE	ND	4.8	0.96
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	1.1J	4.8	0.96
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.96
1,2-DICHLOROBENZENE	ND	4.8	0.96
1,2-DICHLOROETHANE	ND	4.8	0.96
1,2-DICHLOROPROPANE	ND	4.8	0.96
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.96
1,3-DICHLOROBENZENE	ND	4.8	0.96
1,3-DICHLOROPROPANE	ND	4.8	0.96
1,4-DICHLOROBENZENE	ND	4.8	0.96
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	ND	9.6	4.8
2-CHLOROTOLUENE	ND	4.8	0.96
2-HEXANONE	ND	9.6	4.8
4-CHLOROTOLUENE	ND	4.8	0.96
ACETONE	31	9.6	4.8
BENZENE	ND	4.8	0.96
BROMOBENZENE	ND	4.8	0.96
BROMOCHLOROMETHANE	ND	4.8	0.96
BROMODICHLOROMETHANE	ND	4.8	0.96
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	ND	4.8	0.96
CARBON TETRACHLORIDE	ND	4.8	0.96
CHLOROBENZENE	ND	4.8	0.96
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.96
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.96
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.96
DIBROMOCHLOROMETHANE	ND	4.8	0.96
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.96
ISOPROPYL BENZENE	ND	4.8	0.96
M,P-XYLENES	ND	9.6	1.9
MIBK	ND	9.6	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.96
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.96
N-PROPYLBENZENE	ND	4.8	0.96
O-XYLENE	ND	4.8	0.96
P-ISOPROPYLTOLUENE	ND	4.8	0.96
SEC-BUTYLBENZENE	ND	4.8	0.96
STYRENE	ND	4.8	0.96
TERT-BUTYLBENZENE	ND	4.8	0.96
TETRACHLOROETHENE	ND	4.8	0.96
TOLUENE	ND	4.8	0.96
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.96
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.96
TRICHLOROETHENE	ND	4.8	0.96
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.96

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	49.6	48.00	103	60-160
4-BROMOFLUOROBENZENE	58.3	48.00	121	70-150
TOLUENE-D8	52.0	48.00	108	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D132	Date Extracted	: 04/17/18 12:09
Sample ID	: MBLK1S	Date Analyzed	: 04/17/18 12:09
Lab Samp ID	: VSF4D09B	Dilution Factor	: 1
Lab File ID	: RDN137	Matrix	: SOIL
Ext Btch ID	: VSF4D09	% Moisture	: NA
Calib. Ref.	: RDN081	Instrument ID	: TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	49.1	50.00	98.2	70-140
4-BROMOFLUOROBENZENE	50.5	50.00	101	70-130
TOLUENE-D8	51.8	50.00	104	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VSF4D09B	VSF4D09L	VSF4D09C		
LAB FILE ID:	RDN137	RDN134	RDN135		
DATE EXTRACTED:	04/17/1812:09	04/17/1810:44	04/17/1811:13	DATE COLLECTED:	NA
DATE ANALYZED:	04/17/1812:09	04/17/1810:44	04/17/1811:13	DATE RECEIVED:	04/17/18
PREP. BATCH:	VSF4D09	VSF4D09	VSF4D09		
CALIB. REF:	RDN081	RDN081	RDN081		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.1	88	50.0	48.8	98	10	60-130	30
Benzene	ND	50.0	46.9	94	50.0	51.2	102	9	70-130	30
Chlorobenzene	ND	50.0	45.8	92	50.0	50.1	100	9	70-130	30
Toluene	ND	50.0	45.2	90	50.0	49.9	100	10	70-130	50
Trichloroethene	ND	50.0	46.5	93	50.0	51.4	103	10	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	48.4	97	50.0	48.9	98	70-140
4-Bromofluorobenzene	50.0	50.2	100	50.0	50.3	101	70-130
Toluene-d8	50.0	51.1	102	50.0	51.6	103	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

One (1) water sample was received on 04/16/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5030B/SW8015B and project specific requirements.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VG39D06B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VG39D06L/VG39D06C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VG39D06B	1	NA	04/17/1814:54	04/17/1814:54	ED17006A	ED17003A	VG39D06	Method Blank
LCS1W	VG39D06L	1	NA	04/17/1813:36	04/17/1813:36	ED17004A	ED17003A	VG39D06	Lab Control Sample (LCS)
LCD1W	VG39D06C	1	NA	04/17/1814:15	04/17/1814:15	ED17005A	ED17003A	VG39D06	LCS Duplicate
B1	D132-23	1	NA	04/17/1817:29	04/17/1817:29	ED17010A	ED17003A	VG39D06	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/17/18 17:29
Sample ID: B1	Date Analyzed: 04/17/18 17:29
Lab Samp ID: D132-23	Dilution Factor: 1
Lab File ID: ED17010A	Matrix : WATER
Ext Btch ID: VG39D06	% Moisture : NA
Calib. Ref.: ED17003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0328	0.04000	82.0	60-140

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D132	Date Extracted: 04/17/18 14:54
Sample ID: MBLK1W	Date Analyzed: 04/17/18 14:54
Lab Samp ID: VG39D06B	Dilution Factor: 1
Lab File ID: ED17006A	Matrix : WATER
Ext Btch ID: VG39D06	% Moisture : NA
Calib. Ref.: ED17003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0335	0.04000	83.8	70-130

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD SW5030B/SW8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VG39D06B	VG39D06L	VG39D06C		
LAB FILE ID:	ED17006A	ED17004A	ED17005A		
DATE EXTRACTED:	04/17/1814:54	04/17/1813:36	04/17/1814:15	DATE COLLECTED:	NA
DATE ANALYZED:	04/17/1814:54	04/17/1813:36	04/17/1814:15	DATE RECEIVED:	04/17/18
PREP. BATCH:	VG39D06	VG39D06	VG39D06		
CALIB. REF:	ED17003A	ED17003A	ED17003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	0.500	0.452	90	0.500	0.444	89	2	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	0.0400	0.0402	100	0.0400	0.0398	99	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of thirteen (13) soil samples were received on 04/16/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD006SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD006SL/GMD006SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D132-01I and 15I displayed a non-gasoline pattern.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMD006SB	1	NA	04/17/1823:16	04/17/1823:16	ED17019A	ED17014A	GMD006S	Method Blank
LCS1S	GMD006SL	1	NA	04/17/1821:59	04/17/1821:59	ED17017A	ED17014A	GMD006S	Lab Control Sample (LCS)
LCD1S	GMD006SC	1	NA	04/17/1822:38	04/17/1822:38	ED17018A	ED17014A	GMD006S	LCS Duplicate
B1-0.5	D132-01I	1.05	4.9	04/17/1823:54	04/17/1823:54	ED17020A	ED17014A	GMD006S	Diluted Sample
B1-2.0	D132-02I	0.82	11.7	04/18/1801:11	04/18/1801:11	ED17022A	ED17014A	GMD006S	Diluted Sample
B1-5.0	D132-03I	0.78	13.7	04/18/1801:50	04/18/1801:50	ED17023A	ED17014A	GMD006S	Diluted Sample
B1-10.0	D132-04I	0.83	20.0	04/18/1802:28	04/18/1802:28	ED17024A	ED17014A	GMD006S	Diluted Sample
B1-15.0	D132-05I	0.78	13.8	04/18/1803:06	04/18/1803:06	ED17025A	ED17014A	GMD006S	Diluted Sample
B2-0.5	D132-06I	1.02	2.0	04/18/1804:23	04/18/1804:23	ED17027A	ED17026A	GMD006S	Diluted Sample
B2-2	D132-07I	1.01	5.3	04/18/1805:01	04/18/1805:01	ED17028A	ED17026A	GMD006S	Diluted Sample
B3-0.5	D132-11I	1.06	4.4	04/18/1805:39	04/18/1805:39	ED17029A	ED17026A	GMD006S	Diluted Sample
B3-2	D132-12I	0.95	9.0	04/18/1806:18	04/18/1806:18	ED17030A	ED17026A	GMD006S	Diluted Sample
B4-0.5	D132-15I	0.86	3.7	04/18/1806:56	04/18/1806:56	ED17031A	ED17026A	GMD006S	Diluted Sample
B4-2	D132-16I	0.84	11.4	04/18/1807:34	04/18/1807:34	ED17032A	ED17026A	GMD006S	Diluted Sample
B3-2D	D132-19I	0.80	8.8	04/18/1808:12	04/18/1808:12	ED17033A	ED17026A	GMD006S	Diluted Sample
B4-0.5D	D132-20I	0.86	3.9	04/18/1808:51	04/18/1808:51	ED17034A	ED17026A	GMD006S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/17/18 23:54
Sample ID: B1-0.5	Date Analyzed: 04/17/18 23:54
Lab Samp ID: D132-01I	Dilution Factor: 1.05
Lab File ID: ED17020A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 4.9
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	23	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.44	2.208	111	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 01:11
Sample ID: B1-2.0	Date Analyzed: 04/18/18 01:11
Lab Samp ID: D132-02I	Dilution Factor: 0.82
Lab File ID: ED17022A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 11.7
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.93	0.46

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.45	1.857	78.1	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 01:50
Sample ID: B1-5.0	Date Analyzed: 04/18/18 01:50
Lab Samp ID: D132-03I	Dilution Factor: 0.78
Lab File ID: ED17023A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 13.7
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.90	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.43	1.808	78.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 02:28
Sample ID: B1-10.0	Date Analyzed: 04/18/18 02:28
Lab Samp ID: D132-04I	Dilution Factor: 0.83
Lab File ID: ED17024A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 20.0
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.67	2.075	80.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 03:06
Sample ID: B1-15.0	Date Analyzed: 04/18/18 03:06
Lab Samp ID: D132-05I	Dilution Factor: 0.78
Lab File ID: ED17025A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 13.8
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.90	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.43	1.810	78.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 04:23
Sample ID: B2-0.5	Date Analyzed: 04/18/18 04:23
Lab Samp ID: D132-06I	Dilution Factor: 1.02
Lab File ID: ED17027A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 2.0
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	0.95J	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.73	2.082	82.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 05:01
Sample ID: B2-2	Date Analyzed: 04/18/18 05:01
Lab Samp ID: D132-07I	Dilution Factor: 1.01
Lab File ID: ED17028A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 5.3
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.68	2.133	78.9	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 05:39
Sample ID: B3-0.5	Date Analyzed: 04/18/18 05:39
Lab Samp ID: D132-11I	Dilution Factor: 1.06
Lab File ID: ED17029A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 4.4
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.218	79.5	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 06:18
Sample ID: B3-2	Date Analyzed: 04/18/18 06:18
Lab Samp ID: D132-12I	Dilution Factor: 0.95
Lab File ID: ED17030A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 9.0
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.68	2.088	80.7	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 06:56
Sample ID: B4-0.5	Date Analyzed: 04/18/18 06:56
Lab Samp ID: D132-15I	Dilution Factor: 0.86
Lab File ID: ED17031A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 3.7
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	1.4	0.89	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.47	1.786	82.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 07:34
Sample ID: B4-2	Date Analyzed: 04/18/18 07:34
Lab Samp ID: D132-16I	Dilution Factor: 0.84
Lab File ID: ED17032A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 11.4
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.95	0.47

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.50	1.896	79.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 08:12
Sample ID: B3-2D	Date Analyzed: 04/18/18 08:12
Lab Samp ID: D132-19I	Dilution Factor: 0.80
Lab File ID: ED17033A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 8.8
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.88	0.44

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.42	1.754	80.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 08:51
Sample ID: B4-0.5D	Date Analyzed: 04/18/18 08:51
Lab Samp ID: D132-20I	Dilution Factor: 0.86
Lab File ID: ED17034A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : 3.9
Calib. Ref.: ED17026A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.89	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.39	1.790	77.5	10-160

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D132	Date Extracted: 04/17/18 23:16
Sample ID: MBLK1S	Date Analyzed: 04/17/18 23:16
Lab Samp ID: GMD006SB	Dilution Factor: 1
Lab File ID: ED17019A	Matrix : SOIL
Ext Btch ID: GMD006S	% Moisture : NA
Calib. Ref.: ED17014A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.78	2.000	89.0	70-140

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	GMD006SB	GMD006SL	GMD006SC		
LAB FILE ID:	ED17019A	ED17017A	ED17018A		
DATE EXTRACTED:	04/17/1823:16	04/17/1821:59	04/17/1822:38	DATE COLLECTED:	NA
DATE ANALYZED:	04/17/1823:16	04/17/1821:59	04/17/1822:38	DATE RECEIVED:	04/17/18
PREP. BATCH:	GMD006S	GMD006S	GMD006S		
CALIB. REF:	ED17014A	ED17014A	ED17014A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	25.0	23.9	96	25.0	23.5	94	2	60-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.15	107	2.00	2.10	105	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 04/16/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD017WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD017WL/DSD017WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample D132-23 displayed mixed fuel pattern. Discrete peak was excluded from the result

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSD017WB	1	NA	04/19/1814:51	04/18/1813:45	LD19008A	LD19004A	DSD017W	Method Blank
LCS1W	DSD017WL	1	NA	04/19/1815:08	04/18/1813:45	LD19009A	LD19004A	DSD017W	Lab Control Sample (LCS)
LCD1W	DSD017WC	1	NA	04/19/1815:25	04/18/1813:45	LD19010A	LD19004A	DSD017W	LCS Duplicate
B1	D132-23	1	NA	04/19/1821:34	04/18/1813:45	LD19032A	LD19021A	DSD017W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/18/18 13:45
Sample ID: B1	Date Analyzed: 04/19/18 21:34
Lab Samp ID: D132-23	Dilution Factor: 1
Lab File ID: LD19032A	Matrix : WATER
Ext Btch ID: DSD017W	% Moisture : NA
Calib. Ref.: LD19021A	Instrument ID : D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	1.0	0.50	0.10
MOTOR OIL	0.74	0.50	0.10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.861	1.000	86.1	50-130
HEXACOSANE	0.188	0.2500	75.1	40-150

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

QC SUMMARIES

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D132	Date Extracted: 04/18/18 13:45
Sample ID: MBLK1W	Date Analyzed: 04/19/18 14:51
Lab Samp ID: DSD017WB	Dilution Factor: 1
Lab File ID: LD19008A	Matrix : WATER
Ext Btch ID: DSD017W	% Moisture : NA
Calib. Ref.: LD19004A	Instrument ID : D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	0.50	0.10
MOTOR OIL	ND	0.50	0.10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.882	1.000	88.2	50-130
HEXACOSANE	0.215	0.2500	86.2	40-150

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD 3520C/8015B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSD017WB	DSD017WL	DSD017WC		
LAB FILE ID:	LD19008A	LD19009A	LD19010A		
DATE EXTRACTED:	04/18/1813:45	04/18/1813:45	04/18/1813:45	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1814:51	04/19/1815:08	04/19/1815:25	DATE RECEIVED:	04/18/18
PREP. BATCH:	DSD017W	DSD017W	DSD017W		
CALIB. REF:	LD19004A	LD19004A	LD19004A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5.00	4.50	90	5.00	4.45	89	1	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1.00	0.884	88	1.00	0.914	91	50-130
Hexacosane	0.250	0.218	87	0.250	0.215	86	60-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of eight (8) soil samples were received on 04/16/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD019SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD019SL/DSD019SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in D132-16M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
All samples displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD019SB	1	NA	04/23/1822:40	04/23/1812:30	LD23032A	LD23030A	DSD019S	Method Blank
LCS1S	DSD019SL	1	NA	04/23/1822:56	04/23/1812:30	LD23033A	LD23030A	DSD019S	Lab Control Sample (LCS)
LCD1S	DSD019SC	1	NA	04/23/1823:13	04/23/1812:30	LD23034A	LD23030A	DSD019S	LCS Duplicate
B2-0.5	D132-06I	5	2.0	04/23/1823:30	04/23/1812:30	LD23035A	LD23030A	DSD019S	Diluted Sample
B2-2	D132-07I	5	5.3	04/23/1823:46	04/23/1812:30	LD23036A	LD23030A	DSD019S	Diluted Sample
B3-0.5	D132-11I	2	4.4	04/24/1800:03	04/23/1812:30	LD23037A	LD23030A	DSD019S	Diluted Sample
B3-2	D123-12I	2	9.0	04/24/1800:19	04/23/1812:30	LD23038A	LD23030A	DSD019S	Diluted Sample
B4-0.5	D132-15I	5	3.7	04/24/1800:36	04/23/1812:30	LD23039A	LD23030A	DSD019S	Diluted Sample
B4-2	D132-16	1	11.4	04/24/1800:53	04/23/1812:30	LD23040A	LD23030A	DSD019S	Field Sample
B4-2MS	D132-16M	1	11.4	04/24/1801:09	04/23/1812:30	LD23041A	LD23030A	DSD019S	Matrix Spike Sample (MS)
B4-2MSD	D132-16S	1	11.4	04/24/1801:26	04/23/1812:30	LD23042A	LD23030A	DSD019S	MS Duplicate (MSD)
B3-2D	D132-19I	2	8.8	04/24/1801:43	04/23/1812:30	LD23043A	LD23030A	DSD019S	Diluted Sample
B4-0.5D	D132-20I	5	3.9	04/24/1801:59	04/23/1812:30	LD23044A	LD23030A	DSD019S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B2-0.5	Date Analyzed: 04/23/18 23:30
Lab Samp ID: D132-06I	Dilution Factor: 5
Lab File ID: LD23035A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 2.0
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	79	51	26
MOTOR OIL	1100	100	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	96.0	102.0	94.1	50-130
HEXACOSANE	27.3	25.52	107	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B2-2	Date Analyzed: 04/23/18 23:46
Lab Samp ID: D132-07I	Dilution Factor: 5
Lab File ID: LD23036A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 5.3
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	130	53	26
MOTOR OIL	1200	110	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	115	105.6	109	50-130
HEXACOSANE	31.4	26.40	119	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B3-0.5	Date Analyzed: 04/24/18 00:03
Lab Samp ID: D132-11I	Dilution Factor: 2
Lab File ID: LD23037A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 4.4
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	30	21	10
MOTOR OIL	700	42	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	96.3	104.6	92.1	50-130
HEXACOSANE	29.1	26.15	111	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B3-2	Date Analyzed: 04/24/18 00:19
Lab Samp ID: D132-12I	Dilution Factor: 2
Lab File ID: LD23038A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 9.0
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	20J	22	11
MOTOR OIL	450	44	11

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	104	109.9	94.3	50-130
HEXACOSANE	30.8	27.48	112	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B4-0.5	Date Analyzed: 04/24/18 00:36
Lab Samp ID: D132-15I	Dilution Factor: 5
Lab File ID: LD23039A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 3.7
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	210	52	26
MOTOR OIL	2000	100	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	100	103.8	96.3	50-130
HEXACOSANE	29.8	25.96	115	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B4-2	Date Analyzed: 04/24/18 00:53
Lab Samp ID: D132-16	Dilution Factor: 1
Lab File ID: LD23040A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 11.4
Calib. Ref.: LD23030A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	21	11	5.6
MOTOR OIL	240	23	5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	107	112.9	95.1	50-130
HEXACOSANE	30.1	28.22	107	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B3-2D	Date Analyzed: 04/24/18 01:43
Lab Samp ID: D132-19I	Dilution Factor: 2
Lab File ID: LD23043A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 8.8
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	34	22	11
MOTOR OIL	570	44	11

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	91.9	109.7	83.8	50-130
HEXACOSANE	29.1	27.41	106	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: B4-0.5D	Date Analyzed: 04/24/18 01:59
Lab Samp ID: D132-20I	Dilution Factor: 5
Lab File ID: LD23044A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : 3.9
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	150	52	26
MOTOR OIL	1400	100	26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	91.2	104.1	87.6	50-130
HEXACOSANE	26.8	26.02	103	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D132	Date Extracted: 04/23/18 12:30
Sample ID: MBLK1S	Date Analyzed: 04/23/18 22:40
Lab Samp ID: DSD019SB	Dilution Factor: 1
Lab File ID: LD23032A	Matrix : SOIL
Ext Btch ID: DSD019S	% Moisture : NA
Calib. Ref.: LD23030A	Instrument ID : D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	10	5.0
MOTOR OIL	ND	20	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	101	100.0	101	50-130
HEXACOSANE	28.2	25.00	113	40-160

Parameter	H-C Range"
Diesel	C13-C22
Motor Oil	C23-C40

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD 3550B/8015B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	DSD019SB	DSD019SL	DSD019SC		
LAB FILE ID:	LD23032A	LD23033A	LD23034A		
DATE EXTRACTED:	04/23/1812:30	04/23/1812:30	04/23/1812:30	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1822:40	04/23/1822:56	04/23/1823:13	DATE RECEIVED:	04/23/18
PREP. BATCH:	DSD019S	DSD019S	DSD019S		
CALIB. REF:	LD23030A	LD23030A	LD23030A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	500	528	106	500	499	100	6	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromobenzene	100	110	110	100	98.8	99	50-130
Hexacosane	25.0	31.4	126	25.0	27.5	110	60-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: METHOD 3550B/8015B

MATRIX: SOIL % MOISTURE: 11.4

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	B4-2				
LAB SAMP ID:	D132-16	D132-16M	D132-16S		
LAB FILE ID:	LD23040A	LD23041A	LD23042A		
DATE EXTRACTED:	04/23/1812:30	04/23/1812:30	04/23/1812:30	DATE COLLECTED:	04/16/18
DATE ANALYZED:	04/24/1800:53	04/24/1801:09	04/24/1801:26	DATE RECEIVED:	04/16/18
PREP. BATCH:	DSD019S	DSD019S	DSD019S		
CALIB. REF:	LD23030A	LD23030A	LD23030A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	20.6	564	609	104	564	562	96	8	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromobenzene	113	113	100	113	107	95	50-130
Hexacosane	28.2	31.2	111	28.2	29.1	103	40-160

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD SW3550B/SW8082
PCBS

A total of three (3) soil samples were received on 04/16/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B4-0.5	D132-15	1	3.7	04/23/1820:53	04/20/1815:05	KD23012A	KD23005A	CPD016S	Field Sample
B4-2	D132-16	1	11.4	04/23/1821:13	04/20/1815:05	KD23013A	KD23005A	CPD016S	Field Sample
B4-0.5D	D132-20	1	3.9	04/23/1821:33	04/20/1815:05	KD23014A	KD23005A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: B4-0.5	Date Analyzed: 04/23/18 20:53
Lab Samp ID: D132-15	Dilution Factor: 1
Lab File ID: KD23012A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 3.7
Calib. Ref.: KD23005A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	17 | 17
PCB-1221	(ND) | ND	52	17 | 17
PCB-1232	(ND) | ND	52	17 | 17
PCB-1242	(ND) | ND	52	17 | 17
PCB-1248	(ND) | ND	52	17 | 17
PCB-1254	(190) | 190	52	17 | 17
PCB-1260	(160) | 130	52	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.77 | (13.09)	13.84	92.3 | (94.6)	50-130
DECACHLOROBIPHENYL	(15.57) | 14.12	13.84	(112) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: B4-2	Date Analyzed: 04/23/18 21:13
Lab Samp ID: D132-16	Dilution Factor: 1
Lab File ID: KD23013A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 11.4
Calib. Ref.: KD23005A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	56	19 | 19
PCB-1221	(ND) | ND	56	19 | 19
PCB-1232	(ND) | ND	56	19 | 19
PCB-1242	(ND) | ND	56	19 | 19
PCB-1248	(ND) | ND	56	19 | 19
PCB-1254	(ND) | ND	56	19 | 19
PCB-1260	(ND) | ND	56	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(12.87) | 12.48	15.05	(85.6) | 83.0	50-130
DECACHLOROBIPHENYL	(21.14) | 14.03	15.05	(141) | 93.2	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/16/18
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: B4-0.5D	Date Analyzed: 04/23/18 21:33
Lab Samp ID: D132-20	Dilution Factor: 1
Lab File ID: KD23014A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 3.9
Calib. Ref.: KD23005A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	17 | 17
PCB-1221	(ND) | ND	52	17 | 17
PCB-1232	(ND) | ND	52	17 | 17
PCB-1242	(ND) | ND	52	17 | 17
PCB-1248	(ND) | ND	52	17 | 17
PCB-1254	(230) | 220	52	17 | 17
PCB-1260	(170) | 150	52	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(12.92) | 12.56	13.87	(93.1) | 90.6	50-130
DECACHLOROBIPHENYL	(17.26) | 14.32	13.87	(124) | 103	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/20/18
Batch No. : 18D132	Date Extracted: 04/20/18 15:05
Sample ID: MBLK1S	Date Analyzed: 04/24/18 03:36
Lab Samp ID: 60D016SB	Dilution Factor: 1
Lab File ID: KD23032A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : NA
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D132
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D016SB	60D016SL	60D016SC		
LAB FILE ID:	KD23032A	KD23008A	KD23009A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1803:36	04/23/1819:32	04/23/1819:52	DATE RECEIVED:	04/20/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23005A	KD23005A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 18D132

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of six (6) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed and the following was noted: D132-11M/S - Percent recovery for Lead(14X) was not within MS/MSD QC limits. The enclosed value(#X) is the ratio of parent sample result and spike amount. Presence of matrix interference was suspected. Serial dilution was analyzed and evaluated as appropriate. Result was within expected values. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of three (3) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Cadmium was within MS QC limits in D132-11M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of two(2) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B3-0.5MS	D132-11M	1.000	4.4	04/23/1819:02	04/20/1814:51	ID8D018071	ID8D018064	IPD029S	Matrix Spike Sample (MS)
B3-0.5MSD	D132-11S	1.000	4.4	04/23/1819:06	04/20/1814:51	ID8D018072	ID8D018064	IPD029S	MS Duplicate (MSD)
B3-0.5	D132-11A	1.000	4.4	04/23/1819:10	04/20/1814:51	ID8D018073	ID8D018064	IPD029S	Analytical Spike Sample
B3-0.5	D132-11	1.000	4.4	04/23/1819:14	04/20/1814:51	ID8D018074	ID8D018064	IPD029S	Field Sample
B3-0.5	D132-11J	5.000	4.4	04/23/1819:17	04/20/1814:51	ID8D018075	ID8D018064	IPD029S	Diluted Sample
B3-2	D132-12	1.000	9.0	04/23/1819:28	04/20/1814:51	ID8D018078	ID8D018076	IPD029S	Field Sample
B4-0.5	D132-15	1.000	3.7	04/23/1819:33	04/20/1814:51	ID8D018079	ID8D018076	IPD029S	Field Sample
B4-2	D132-16	1.000	11.4	04/23/1819:36	04/20/1814:51	ID8D018080	ID8D018076	IPD029S	Field Sample
B3-2D	D132-19	1.000	8.8	04/23/1819:40	04/20/1814:51	ID8D018081	ID8D018076	IPD029S	Field Sample
B4-0.5D	D132-20	1.000	3.9	04/23/1819:44	04/20/1814:51	ID8D018082	ID8D018076	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:06
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-0.5	Date Analyzed:	04/23/18 19:14
Lab Samp ID:	D132-11	Dilution Factor:	1
Lab File ID:	ID8D018074	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	4.4
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	722	0.969	0.194

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.08g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:17
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2	Date Analyzed:	04/23/18 19:28
Lab Samp ID:	D132-12	Dilution Factor:	1
Lab File ID:	ID8D018078	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	9.0
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	929	1.03	0.207

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.064g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B4-0.5	Date Analyzed:	04/23/18 19:33
Lab Samp ID:	D132-15	Dilution Factor:	1
Lab File ID:	ID8D018079	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	3.7
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	386	1.02	0.203

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.023g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:37
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B4-2	Date Analyzed:	04/23/18 19:36
Lab Samp ID:	D132-16	Dilution Factor:	1
Lab File ID:	ID8D018080	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	11.4
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	66.7	1.12	0.224

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.009g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2D	Date Analyzed:	04/23/18 19:40
Lab Samp ID:	D132-19	Dilution Factor:	1
Lab File ID:	ID8D018081	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	8.8
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	1250	1.03	0.205

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.07g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:17
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B4-0.5D	Date Analyzed:	04/23/18 19:44
Lab Samp ID:	D132-20	Dilution Factor:	1
Lab File ID:	ID8D018082	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	3.9
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	417	0.960	0.192

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.083g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	MBLK1S	Date Analyzed:	04/23/18 18:44
Lab Samp ID:	IPD029SB	Dilution Factor:	1
Lab File ID:	ID8D018066	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	NA
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	ND	50	46.9	94	50	46.4	93	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 4.4
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B3-0.5	B3-0.5MS	B3-0.5MSD
LAB SAMPLE ID	: D132-11	D132-11M	D132-11S
LAB FILE ID	: ID8D018074	ID8D018071	ID8D018072
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 19:14	04/23/18 19:02	04/23/18 19:06
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	722	51.4	898	342*	50.5	798	150*	12	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 4.4
DILUTION FACTOR	: 1	5
SAMPLE ID	: B3-0.5	B3-0.5
LAB SAMPLE ID	: D132-11	D132-11J
LAB FILE ID	: ID8D018074	ID8D018075
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 19:14	04/23/18 19:17
PREP BATCH	: IPD029S	IPD029S
CALIBRATION REF	: ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	SD Result (mg/kg)	%Difference (%)	Max %D (%)
Lead	722	747	3	10

SD - Serial Dilution

LAB CHRONICLE
METALS 8Y TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B3-0.5MS	D132-11M	1.000	4.4	04/23/1819:02	04/20/1814:51	ID8D018071	ID8D018064	IPD029S	Matrix Spike Sample (MS)
B3-0.5MSD	D132-11S	1.000	4.4	04/23/1819:06	04/20/1814:51	ID8D018072	ID8D018064	IPD029S	MS Duplicate (MSD)
B3-0.5	D132-11	1.000	4.4	04/23/1819:14	04/20/1814:51	ID8D018074	ID8D018064	IPD029S	Field Sample
B3-2	D132-12	1.000	9.0	04/23/1819:28	04/20/1814:51	ID8D018078	ID8D018076	IPD029S	Field Sample
B3-2D	D132-19	1.000	8.8	04/23/1819:40	04/20/1814:51	ID8D018081	ID8D018076	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:06
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-0.5	Date Analyzed:	04/23/18 19:14
Lab Samp ID:	D132-11	Dilution Factor:	1
Lab File ID:	ID8D018074	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	4.4
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	10.7	0.969	0.0969

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.08g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:17
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2	Date Analyzed:	04/23/18 19:28
Lab Samp ID:	D132-12	Dilution Factor:	1
Lab File ID:	ID8D018078	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	9.0
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	14.0	1.03	0.103

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.064g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B3-2D	Date Analyzed:	04/23/18 19:40
Lab Samp ID:	D132-19	Dilution Factor:	1
Lab File ID:	ID8D018081	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	8.8
Calib. Ref.:	ID8D018076	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	18.5	1.03	0.103

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.07g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	MBLK1S	Date Analyzed:	04/23/18 18:44
Lab Samp ID:	IPD029SB	Dilution Factor:	1
Lab File ID:	ID8D018066	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	NA
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1g Final Volume:100ml
Prepared by : MCande Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	ND	50	45.2	90	50	44.6	89	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 4.4
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B3-0.5	B3-0.5MS	B3-0.5MSD
LAB SAMPLE ID	: D132-11	D132-11M	D132-11S
LAB FILE ID	: ID8D018074	ID8D018071	ID8D018072
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 19:14	04/23/18 19:02	04/23/18 19:06
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	10.7	51.4	57.1	90.3	50.5	57.3	92.3	0	75-125	20

PSResult - Parent Sample Result

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B2-0.5	D132-06	1.000	2.0	04/23/1818:55	04/20/1814:51	ID8D018069	ID8D018064	IPD029S	Field Sample
B2-2	D132-07	1.000	5.3	04/23/1818:58	04/20/1814:51	ID8D018070	ID8D018064	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 08:09
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B2-0.5	Date Analyzed:	04/23/18 18:55
Lab Samp ID:	D132-06	Dilution Factor:	1
Lab File ID:	ID8D018069	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	2.0
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	7.45	0.990	0.396

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.031g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 08:32
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	B2-2	Date Analyzed:	04/23/18 18:58
Lab Samp ID:	D132-07	Dilution Factor:	1
Lab File ID:	ID8D018070	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	5.3
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.34	1.04	0.416

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.015g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132	Date Extracted:	04/20/18 14:51
Sample ID:	MBLK1S	Date Analyzed:	04/23/18 18:44
Lab Samp ID:	IPD029SB	Dilution Factor:	1
Lab File ID:	ID8D018066	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	NA
Calib. Ref.:	ID8D018064	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	1.00	0.400

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF:	ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Arsenic	ND	50	46.6	93	50	45.9	92	2	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-18-2018
EMAX Batch No.: 18D132A

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/16/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B2-5	D132-08	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
B2-10	D132-09	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
B2-15	D132-10	04/16/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
B3-5	D132-13	04/16/18	SOIL	CADMIUM
				LEAD
B4-5	D132-17	04/16/18	SOIL	LEAD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHANGE ORDER FORM

SDG	18D132A	TAT	10 d	Project Code	PS_1802_
Requested by	Richard	Date Requested	05/08/18	Due Date	05/18/18

Analytical Requirements				
A X O	EMAX Control Number	Sample Prep. Methods	Analytical Methods	Special Instructions
A	D132-08 (B2-5)	5035A	8015B	TPH-GAS
		3550B	8015B	TPH-DIESEL/MOTOR
A	D132-09 (B2-10)	5035A	8015B	TPH-GAS
		3550B	8015B	TPH-DIESEL/MOTOR
A	D132-10 (B2-15)	5035A	8015B	TPH-GAS
		3550B	8015B	TPH-DIESEL/MOTOR
A	D132-13 (B3-5)	3050B	6010B	CADMIUM AND LEAD
A	D132-17 (B4-5)	3050B	6010B	LEAD

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: ~~451104~~ 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D132
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE									COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	B1-0.5		4/16/18	1013	2			SS		X										
* 2	B1-2.0		4/16/18	1017	2			SS		X										
* 3	B1-5.0		4/16/18	1036	5			SS		X	X									
* 4	B1-10.0		4/16/18	1049	5			SS		X	X									
* 5	B1-15.0		4/16/18	1052	5			SS		X	X									
* 6	B2-0.5		4/16/18	0809	3			SS		X			X						H	
* 7	B2-2		4/16/18	0832	3			SS		X			X						H	
* 8	B2-5		4/16/18	0857	3			SS		H			H						H	
* 9	B2-10		4/16/18	0902	3			SS		H			H						H	
10	B2-15		4/16/18	0911	3			SS		H			H						H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	6.1	
2	2.8	
3	5.6	

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: ~~451104~~ 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D132
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	PRESERVATIVE CODE	COMMENTS
*1	B3-0.5		4/16/18	1406	3			SS		X				X	X					H	
*2	B3-2			1417 ~~1419~~	3			SS		X				X	X					H	
*3	B3-5			1427	3			SS		H				H	H					H	
*4	B3-10			1452	3			SS		H				H	H					H	
*5	B4-0.5			1315	4			SS		X					X		X			H	
*6	B4-2			1337	4			SS		X					X		X			H	
*7	B4-5			1402	4			SS		H					H		H			H	
*8	B4-10			1408	4			SS		H					H		H			H	
*9	B3-2D		1419	~~1319~~	3			SS		X				X	X					H	
20	B4-0.5D		1317	~~1317~~	4			SS		X					X		X			H	

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	PO NUMBER: 451077 SAMPLE STORAGE	EMAX CONTROL NO. 18D132 PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

	SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
1	~~B15-18~~							~~SS~~		X	X			CC		X	X	X	H	
(21) 2	SG-2-5		4/16/18	0753	3	40ml	VOA	SS		CC X	X	CC X				CC X	CC X		H	
(22) 3	Trip Blank		4/16/18	1456	3						X									
(23) 4	BL		4/16/18	1145	7	–	·	GW		X	X									
5																				
6																				
7																				
8																				
9																				
10																				

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/16/18	1527	
	4/16/18	1600	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Reference: EMAX-SM02 Rev.9
Form: SM02F1
Page 1 of 2

Type of Delivery	Airbill / Tracking Number	ECN 18D132
☐ Fedex ☐ UPS ☐ GSO ☑ Others	All Around	Recipient New Guthlo
☐ EMAX Courier ☐ Client Delivery		Date 4/16/18 Time 1600

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☐ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: Corrections on COC not dated

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 6.1 °C	☑ Cooler 2 2.8 °C	☑ Cooler 3 5.6 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	(D) *S/N* 150555630	

Comments: ☐ Temperature is out of range, PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
3	5-9	D3	B1-5 On label	R1
4	10-14	D3	B1-10 On label	↓
5	15-19	D3	B1-15 on label	R8
22	73-76	D1		
23	78,77	D1		
13,20	42,68,69	D10		
1-22 (NC 4/18/18)		D16	pres not indicated on COC	
22,23		D16	pres not indicated on COC / label (Sediment on Labels)	
2	3,4	D3	B1-2 On label	R1
21		D22	No jar provided NV	R8
			TCLP/STLC - COC reads H	↓
23	82	D23	See below	R8
			4/18/18	

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: Labels attached directly to Pre-weighed vials - Weight is visible TCLP/STLC not written on labels → See Hardcopy in 18D138
*1-5, 21 Samples: Moisture per ND+ provided with samples *Samples 15-18, 20 vials read TPH-PCBs
*Samples 6-10: vials label reads TPH-Arsenic *Samples 11-14: vials read TPH-lead
*19 Samples: vial label reads cadmium-lead

LEGEND: ☐ Continue to next page.

Code	Description- Sample Management
(D1)	Analysis is not indicated in Label
D2	Analysis mismatch COC vs label
(D3)	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
(D10)	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
(D16)	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
(D22)	See above
(D23)	Received 1c Amber for TPH WCs
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client.
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling _____ Date 4/16/18 4/16/18

SRF _____ Date 4/17/18

PM _____ Date 4/17/18

Richard Beauvil

From: Crozier, Carrie [Carrie.Crozier@parsons.com]
Sent: Tuesday, May 08, 2018 3:43 PM
To: Hang Bui
Cc: Richard Beauvil
Subject: RE: Data Files Transmittal: PARSONS - POLA 1500 - I STREET. SDG: 18D132 EMAXSTD.

Hi EMAX team,
Please run the following samples currently on hold:
B2-5 for TPH
B2-10 for TPH
B2-15 for TPH
B3-5 Cadmium and Lead
B4-5 Lead
Thanks!

Carrie Crozier
Phone - 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Hang Bui <Hangt@emaxlabs.com>
Sent: Tuesday, May 08, 2018 11:17 AM
To: Crozier, Carrie <Carrie.Crozier@parsons.com>; Girod, Michael <Michael.Girod@parsons.com>
Cc: Richard Beauvil <RBeauvil@emaxlabs.com>
Subject: Data Files Transmittal: PARSONS - POLA 1500 - I STREET. SDG: 18D132 EMAXSTD.

18D132 EMAXSTD.

Best Regards,

Hang T Bui
Emax Laboratories, Inc
Email: hbui@emaxlabs.com

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REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D132A

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of three (3) soil samples were received on 04/16/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GME001SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GME001SL/GME001SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
All samples displayed a non-gasoline pattern.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D132A
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1S	GME001SL	1	NA	05/11/1812:03	05/11/1810:12	EE11004A	EE11003A	18GME001S	Lab Control Sample (LCS)
LCD1S	GME001SC	1	NA	05/11/1812:42	05/11/1810:12	EE11005A	EE11003A	18GME001S	LCS Duplicate
MBLK1S	GME001SB	1	NA	05/11/1813:22	05/11/1810:12	EE11006A	EE11003A	18GME001S	Method Blank
B2-15	18D132-10J	20	19.4	05/11/1816:09	05/11/1810:12	EE11010A	EE11003A	18GME001S	Diluted Sample
B2-10	18D132-09J	20	12.9	05/11/1816:48	05/11/1810:12	EE11011A	EE11003A	18GME001S	Diluted Sample
B2-5	18D132-08J	20	11.0	05/11/1817:28	05/11/1810:12	EE11012A	EE11003A	18GME001S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/16/18 08:57
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: B2-5	Date Analyzed:	05/11/18 17:28
Lab Samp ID:	18D132-08J	Dilution Factor:	20
Lab File ID:	EE11012A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	11.0
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	450	0.78	0.39

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.89	1.56	121	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 7.19g	Final Volume :	5ml (5uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/16/18 09:02
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: B2-10	Date Analyzed:	05/11/18 16:48
Lab Samp ID:	18D132-09J	Dilution Factor:	20
Lab File ID:	EE11011A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	12.9
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	790	0.82	0.41

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.59	1.64	158	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 7.012g	Final Volume :	5ml (5uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/16/18 09:11
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: B2-15	Date Analyzed:	05/11/18 16:09
Lab Samp ID:	18D132-10J	Dilution Factor:	20
Lab File ID:	EE11010A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	19.4
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	670	1.1	0.55

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.83	2.20	129	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.636g	Final Volume :	5ml (5uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	05/11/18 10:12
Project	: POLA-1500 I STREET	Date Received:	05/11/18
Batch No.	: 18D132A	Date Extracted:	05/11/18 10:12
Sample ID	: MBLK1S	Date Analyzed:	05/11/18 13:22
Lab Samp ID:	GME001SB	Dilution Factor:	1
Lab File ID:	EE11006A	Matrix:	SOIL
Ext Btch ID:	18GME001S	% Moisture:	NA
Calib. Ref.:	EE11003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.82	2.00	91	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : SW5035A/SW8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: GME001SB	GME001SL	GME001SC
LAB FILE ID	: EE11006A	EE11004A	EE11005A
DATE PREPARED	: 05/11/18 10:12	05/11/18 10:12	05/11/18 10:12
DATE ANALYZED	: 05/11/18 13:22	05/11/18 12:03	05/11/18 12:42
PREP BATCH	: 18GME001S	18GME001S	18GME001S
CALIBRATION REF:	EE11003A	EE11003A	EE11003A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	25.0	24.1	96	25.0	25.0	100	4	60-130	50

SURROGATE PARAMETER	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	2.00	2.09	104	2.00	2.17	109	70-140

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D132A

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of three (3) soil samples were received on 04/16/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSE009SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSE009SL/DSE009SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

All samples displayed mixed fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132A
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSE009SB	1	NA	05/10/1819:04	05/10/1811:50	LE10030A	LE10020A	18DSE009S	Method Blank
LCS1S	DSE009SL	1	NA	05/10/1819:21	05/10/1811:50	LE10031A	LE10020A	18DSE009S	Lab Control Sample (LCS)
LCD1S	DSE009SC	1	NA	05/10/1819:38	05/10/1811:50	LE10032A	LE10020A	18DSE009S	LCS Duplicate
B2-5	D132-08I	5	11.0	05/10/1820:28	05/10/1811:50	LE10035A	LE10033A	18DSE009S	Diluted Sample
B2-10	D132-09I	5	12.9	05/10/1820:45	05/10/1811:50	LE10036A	LE10033A	18DSE009S	Diluted Sample
B2-15	D132-10I	5	19.4	05/10/1821:02	05/10/1811:50	LE10037A	LE10033A	18DSE009S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18 08:57
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132A	Date Extracted: 05/10/18 11:50
Sample ID : B2-5	Date Analyzed: 05/10/18 20:28
Lab Samp ID: 18D132-08I	Dilution Factor: 5
Lab File ID: LE10035A	Matrix: SOIL
Ext Btch ID: 18DSE009S	% Moisture: 11.0
Calib. Ref.: LE10033A	Instrument ID: D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	7000	56	28
Motor Oil	6700	110	28

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	126	112	112	50-130
Hexacosane	32.3	28.1	115	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount : 10.03g	Final Volume : 10ml
Prepared by : JVille	Analyzed by : SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/16/18 09:02
Project	: POLA-1500 I STREET	Date Received:	04/16/18
Batch No.	: 18D132A	Date Extracted:	05/10/18 11:50
Sample ID	: B2-10	Date Analyzed:	05/10/18 20:45
Lab Samp ID:	18D132-09I	Dilution Factor:	5
Lab File ID:	LE10036A	Matrix:	SOIL
Ext Btch ID:	18DSE009S	% Moisture:	12.9
Calib. Ref.:	LE10033A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	8600	57	29
Motor Oil	7900	110	29

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	126	115	110	50-130
Hexacosane	35.3	28.7	123	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/16/18 09:11
Project : POLA-1500 I STREET	Date Received: 04/16/18
Batch No. : 18D132A	Date Extracted: 05/10/18 11:50
Sample ID : B2-15	Date Analyzed: 05/10/18 21:02
Lab Samp ID: 18D132-10I	Dilution Factor: 5
Lab File ID: LE10037A	Matrix: SOIL
Ext Btch ID: 18DSE009S	% Moisture: 19.4
Calib. Ref.: LE10033A	Instrument ID: D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	5500	62	31
Motor Oil	5200	120	31

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	128	124	103	50-130
Hexacosane	34.9	31.0	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.
Sample Amount : 10g Final Volume : 10ml
Prepared by : JVille Analyzed by : SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	05/10/18 11:50
Project	: POLA-1500 I STREET	Date Received:	05/10/18
Batch No.	: 18D132A	Date Extracted:	05/10/18 11:50
Sample ID	: MBLK1S	Date Analyzed:	05/10/18 19:04
Lab Samp ID:	DSE009SB	Dilution Factor:	1
Lab File ID:	LE10030A	Matrix:	SOIL
Ext Btch ID:	18DSE009S	% Moisture:	NA
Calib. Ref.:	LE10020A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	95.3	100	95	50-130
Hexacosane	25.7	25.0	103	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: DSE009SB	DSE009SL	DSE009SC
LAB FILE ID	: LE10030A	LE10031A	LE10032A
DATE PREPARED	: 05/10/18 11:50	05/10/18 11:50	05/10/18 11:50
DATE ANALYZED	: 05/10/18 19:04	05/10/18 19:21	05/10/18 19:38
PREP BATCH	: 18DSE009S	18DSE009S	18DSE009S
CALIBRATION REF	: LE10020A	LE10020A	LE10020A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	416	83	500	426	85	2	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	98.9	99	100	93.1	93	50-130
Hexacosane	25.0	26.2	105	25.0	24.9	100	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 18D132A

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD 3050B/6010B
METALS BY TRACE ICP

One (1) soil sample was received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
The sample was digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPE011SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPE011SL/IPE011SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D132A

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of two (2) soil samples were received on 04/16/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPE011SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPE011SL/IPE011SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Lead was within MS QC limits in D132-17M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132A
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPE011SB	1.000	NA	05/14/1818:57	05/10/1810:56	ID8E010048	ID8E010046	IPE011S	Method Blank
LCS1S	IPE011SL	1.000	NA	05/14/1819:01	05/10/1810:56	ID8E010049	ID8E010046	IPE011S	Lab Control Sample (LCS)
LCD1S	IPE011SC	1.000	NA	05/14/1819:04	05/10/1810:56	ID8E010050	ID8E010046	IPE011S	LCS Duplicate
B3-5	D132-13	1.000	15.8	05/14/1819:08	05/10/1810:56	ID8E010051	ID8E010046	IPE011S	Field Sample
B4-5MS	D132-17M	1.000	11.1	05/14/1819:12	05/10/1810:56	ID8E010052	ID8E010046	IPE011S	Matrix Spike Sample (MS)
B4-5MSD	D132-17S	1.000	11.1	05/14/1B19:15	05/10/1810:56	ID8E010053	ID8E010046	IPE011S	MS Duplicate (MSD)
B4-5	D132-17	1.000	11.1	05/14/1819:23	05/10/1810:56	ID8E010055	ID8E010046	IPE011S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:27
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	B3-5	Date Analyzed:	05/14/18 19:08
Lab Samp ID:	D132-13	Dilution Factor:	1
Lab File ID:	ID8E010051	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	15.8
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	8.74	1.17	0.235

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.011g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/16/18 14:02
Project : POLA-1500 I STREET	Date Received: 04/16/18
SDG NO. : 18D132A	Date Extracted: 05/10/18 10:56
Sample ID: B4-5	Date Analyzed: 05/14/18 19:23
Lab Samp ID: D132-17	Dilution Factor: 1
Lab File ID: ID8E010055	Matrix: SOIL
Ext Btch ID: IPE011S	% Moisture: 11.1
Calib. Ref.: ID8E010046	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	6.33	1.09	0.217

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.036g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	MBLK1S	Date Analyzed:	05/14/18 18:57
Lab Samp ID:	IPE011SB	Dilution Factor:	1
Lab File ID:	ID8E010048	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	NA
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 30508/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPE011S8	IPE011SL	IPE011SC
LAB FILE ID	: ID8E010048	ID8E010049	ID8E010050
DATE PREPARED	: 05/10/18 10:56	05/10/18 10:56	05/10/18 10:56
DATE ANALYZED	: 05/14/18 18:57	05/14/18 19:01	05/14/18 19:04
PREP BATCH	: IPE011S	IPE011S	IPE011S
CALIBRATION REF	: ID8E010046	ID8E010046	ID8E010046

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	ND	50	47.8	96	50	47.4	95	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 11.1
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B4-5	B4-5MS	B4-5MSD
LAB SAMPLE ID	: D132-17	D132-17M	D132-17S
LAB FILE ID	: ID8E010055	ID8E010052	ID8E010053
DATE PREPARED	: 05/10/18 10:56	05/10/18 10:56	05/10/18 10:56
DATE ANALYZED	: 05/14/18 19:23	05/14/18 19:12	05/14/18 19:15
PREP BATCH	: IPE011S	IPE011S	IPE011S
CALIBRATION REF	: ID8E010046	ID8E010046	ID8E010046

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	6.33	52.2	57.4	97.8	52.6	57.5	97.3	0	75-125	20

PSResult - Parent Sample Result

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D132A
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPE011SB	1.000	NA	05/14/1818:57	05/10/1810:56	ID8E010048	ID8E010046	IPE011S	Method Blank
LCS1S	IPE011SL	1.000	NA	05/14/1819:01	05/10/1810:56	ID8E010049	ID8E010046	IPE011S	Lab Control Sample (LCS)
LCD1S	IPE011SC	1.000	NA	05/14/1819:04	05/10/1810:56	ID8E010050	ID8E010046	IPE011S	LCS Duplicate
B3-5	D132-13	1.000	15.8	05/14/1819:08	05/10/1810:56	ID8E010051	ID8E010046	IPE011S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:27
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	B3-5	Date Analyzed:	05/14/18 19:08
Lab Samp ID:	D132-13	Dilution Factor:	1
Lab File ID:	ID8E010051	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	15.8
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.396J	1.17	0.117

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.011g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132A	Date Extracted:	05/10/18 10:56
Sample ID:	MBLK1S	Date Analyzed:	05/14/18 18:57
Lab Samp ID:	IPE011SB	Dilution Factor:	1
Lab File ID:	ID8E010048	Matrix:	SOIL
Ext Btch ID:	IPE011S	% Moisture:	NA
Calib. Ref.:	ID8E010046	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132A
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPE011SB	IPE011SL	IPE011SC
LAB FILE ID	: ID8E010048	ID8E010049	ID8E010050
DATE PREPARED	: 05/10/18 10:56	05/10/18 10:56	05/10/18 10:56
DATE ANALYZED	: 05/14/18 18:57	05/14/18 19:01	05/14/18 19:04
PREP BATCH	: IPE011S	IPE011S	IPE011S
CALIBRATION REF:	ID8E010046	ID8E010046	ID8E010046

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	ND	50	48.6	97	50	47.2	94	3	80-120	20

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID:	B4-0.5	Date Analyzed:	05/24/18 16:13
Lab Samp ID:	D132-15I	Dilution Factor:	5
Lab File ID:	ID8E019051	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	0.214J	0.250	0.0500
Lead	32.7	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID:	B3-2D	Date Analyzed:	05/24/18 16:17
Lab Samp ID:	D132-19I	Dilution Factor:	5
Lab File ID:	ID8E019052	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	1.19	0.250	0.0500
Lead	90.0	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	ND	0.0100	0.00200
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Cadmium	ND	0.250	0.0500
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D132-15I.TXT
D132-19I.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019051  D132-15I   |
00  ID8E019052  D132-19I   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132B
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Cadmium	ND	0.5	0.456	91	0.5	0.460	92	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	B4-0.5	Date Analyzed:	05/23/18 17:35
Lab Samp ID:	D132-15	Dilution Factor:	1
Lab File ID:	ID8E018025	Matrix:	LEACHATE
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	0.343	0.0500	0.0150

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang
DateTime Leached:	05/21/18 15:30		

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	04/16/18 14:19
Project	: POLA-1500 I STREET	Date Received:	04/16/18
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	B3-2D	Date Analyzed:	05/23/18 17:51
Lab Samp ID:	D132-19	Dilution Factor:	1
Lab File ID:	ID8E018029	Matrix:	LEACHATE
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	2.72	0.0500	0.0150

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang
DateTime Leached:	05/21/18 15:30		

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	MBLK1W	Date Analyzed:	05/23/18 17:16
Lab Samp ID:	IPE027WB	Dilution Factor:	1
Lab File ID:	ID8E018020	Matrix:	WATER
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang

METHOD 1311/3010A/6010B
TCLP LEAD BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D132B	Date Extracted:	05/23/18 11:20
Sample ID:	MBLK2W	Date Analyzed:	05/23/18 17:27
Lab Samp ID:	TXE013SB	Dilution Factor:	1
Lab File ID:	ID8E018023	Matrix:	LEACHATE
Ext Btch ID:	IPE027W	% Moisture:	NA
Calib. Ref.:	ID8E018018	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Lead	ND	0.0500	0.0150

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: THuang	Analyzed by:	THuang
DateTime Leached:	05/21/18 15:30		

D132-15.TXT
D132-15M.TXT
D132-15S.TXT
D132-19.TXT
IPE027WB.TXT
IPE027WC.TXT
IPE027WL.TXT
TXE013SB.TXT

```
00  ID8E018014  ICV        |
00  ID8E018015  ICB        |
00  ID8E018016  ICSA1      |
00  ID8E018017  ICSAB1     |
00  ID8E018018  CCV1       |
00  ID8E018019  CCB1       |
00  ID8E018020  IPE027WB   |
00  ID8E018021  IPE027WL   |
00  ID8E018022  IPE027WC   |
00  ID8E018023  TXE013SB   |
00  ID8E018025  D132-15    |
00  ID8E018029  D132-19    |
00  ID8E018030  CCV2       |
00  ID8E018031  CCB2       |
00  ID8E018032  D132-15M   |
00  ID8E018033  D132-15S   |
00  ID8E018034  CCV3       |
00  ID8E018035  CCB3       |
```

```
"1","IPE027WB","ID8E018020"
"2","IPE027WL","ID8E018021"
"3","IPE027WC","ID8E018022"
"4","TXE013SB","ID8E018023"
"5","D132-15M","ID8E018032"
"6","D132-15","ID8E018025"
"7","D132-15S","ID8E018033"
```

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132B
METHOD : 1311/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE027WB	IPE027WL	IPE027WC
LAB FILE ID	: ID8E018020	ID8E018021	ID8E018022
DATE PREPARED	: 05/23/18 11:20	05/23/18 11:20	05/23/18 11:20
DATE ANALYZED	: 05/23/18 17:16	05/23/18 17:20	05/23/18 17:24
PREP BATCH	: IPE027W	IPE027W	IPE027W
CALIBRATION REF	: ID8E018018	ID8E018018	ID8E018018

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	ND	0.5	0.459	92	0.5	0.471	94	3	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D132B
METHOD : 1311/3010A/6010B

MATRIX : LEACHATE % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID : B4-0.5 B4-0.5MS B4-0.5MSD
LAB SAMPLE ID : D132-15 D132-15M D132-15S
LAB FILE ID : ID8E018025 ID8E018032 ID8E018033
DATE PREPARED : 05/23/18 11:20 05/23/18 11:20 05/23/18 11:20
DATE ANALYZED : 05/23/18 17:35 05/23/18 18:02 05/23/18 18:06
PREP BATCH : IPE027W IPE027W IPE027W
CALIBRATION REF: ID8E018018 ID8E018030 ID8E018030

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Lead	0.343	2.5	2.63	91.5	2.5	2.50	86.3	5	75-125	20

PSResult - Parent Sample Result

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-10-2018
EMAX Batch No.: 18D138

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/17/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B1-0.5	D138-01	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B1-2	D138-02	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B1-5	D138-03	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B1-10	D138-04	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
TRIP BLANK	D138-05	04/17/18	WATER	VOLATILE ORGANICS BY GC/MS
B1-15	D138-06	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
B14	D138-07	04/17/18	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				PAH BY 8270C SIM LOW
B7-0.5	D138-08	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
B7-2	D138-09	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B15-10	D138-10	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B9-5	D138-11	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
B9-5	D138-11	04/17/18	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
B9-10	D138-12	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B10-0.5	D138-13	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
B10-2	D138-14	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B10-5	D138-15	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B10-10	D138-16	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				METALS CAM
				MERCURY
				POLYCHLORINATED BIPHENYLS (PCBS)
				PAH BY 8270C SIM
				HOLD
				VOLATILE ORGANICS BY GC/MS
B7	D138-17	04/17/18	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				PAH BY 8270C SIM LOW

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

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EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 451077
SAMPLE STORAGE

EMAX CONTROL NO. 18D138
PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
* 1	B1-0.5		4/17/18	0719	1			SS		X										18D138-1
* 2	B1-2		4/17/18	0725	1			SS		X										18D138-2
* 3	B1-5		4/17/18	0740	1			SS		X										18D138-3
* 4	B1-10		4/17/18	0750	1			SS		X										18D138-4
* 5	Trip Blank		4/17/18	0900	3			W			X									18D135-5
* 6	B1-15		4/17/18	0758	1			SS		X										18D138-6
* 7	B14		4/17/18	1415	7			GW		X	X	✓								18D135-7
* 8	B7-0.5		4/17/18	0839	4			SS		X						X	X	X	H	18D135-8
* 9	B7-2		4/17/18	0844	7			SS		X	X					X	X	X	H	18D135-9
10	B15-10		4/17/18	1111	7			SS		X	X					X	X	X	H	18D135-10

Instructions

Cooler #	Temp. (°C)
1	4.4
2	5.3
3	5.7
4	5.1

Sample #s

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
OCC 2699 Matt M.	4/17/18	3:00	
OCC 2699 Matt M.	4/17/18	3:35	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

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SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

SAMPLE ID LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
PRESERVATIVE CODE																				
* 1	B9-5		4/17/18	1310	7			SS		X	X					X	X	X	H	
* 2	B9-10		4/17/18	1318	7			SS		X	X					X	X	X	H	
* 3	B10-0.5		4/17/18	1342	4			SS		X						X	X	X	H	
* 4	B10-2		4/17/18	1345	7			SS		X	X					X	X	X	H	
* 5	B10-5		4/17/18	1400	7			SS		X	X					X	X	X	H	
* 6	B10-10		4/17/18	1405	7			SS		X	X					X	X	X	H	
* 7	~~B11-0.5~~ CC 4/17/18							~~SS~~	CC 4/17/18	~~X~~	~~CC~~	4/17/18				~~X~~	~~X~~	~~X~~	~~H~~	CC 4/17/18
* 8	~~B11-2~~ CC 4/17/18							~~SS~~	CC 4/17/18	~~X~~	~~X~~	CC 4/17/18				~~X~~	~~X~~	~~X~~	~~H~~	CC 4/17/18
* 9	~~B11-5~~ CC 4/17/18							~~SS~~	CC	~~X~~	~~X~~	CC 4/17/18				~~X~~	~~X~~	~~X~~	~~H~~	CC 4/17/18
10	4/17/18 B7		4/17/18	1338	7			4/17/18		X	X	X								

Instructions	Cooler #	Temp. (°C)	Sample #s
	1	4.4	
	2	5.3	
	3	5.7	
	4	5.1	

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
occ 2699 matt M.	4/17/18	3:00	
occ 2699 matt M.	4/17/18	3:33	[illegible] Mott 9

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D138
☐ Fedex ☐ UPS ☐ GSO ☒ Others	All around courier	Recipient Isabel
☐ EMAX Courier ☐ Client Delivery		Date 04/17/18 Time 15:35

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☐ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☒ Address	☒ Tel # / Fax #	☒ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☒ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 4.4 °C	☒ Cooler 2 5.3 °C	☒ Cooler 3 5.7 °C	☒ Cooler 4 5.1 °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	*D - S/N* 150555620	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
7,17	9-10,12-14, 73-78	D16	Pres. accordingly	R8
5	5-7	D22	Per EMAX sticker "TB-004-02-02"	R1
7	11	D23	Marked according to packaging	R8
3,4,6, 8-16	3,4,8,16-31, 34-72	D10		R8
7,17	15,79	D14	1-L for TPH + SVOC	R9

04/17/18

NB 4/18/18

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS ① Labels placed directly on pre weighed Terra core vials (weights visible)

② Samples 1-4, 6 (1-4, 8) vials located in SDG 18D132

Sample #7 has sediment.

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in _____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in label
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	No Label, Trip Blank
D23	Sample received w/ no label (Client labeled 1/bag)
D24	_____

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed client
R9	Use 500ml for each test.
R10	_____
R11	_____
R12	_____

REVIEWS:

Sample Labeling Date 04/17/18 04/17/18

SRF Date 4/18/18

PM Date 4/18/18

Richard Beauvil

From: Crozier, Carrie [Carrie.Crozier@parsons.com]
Sent: Wednesday, April 18, 2018 2:37 PM
To: Richard Beauvil
Subject: RE: 18D132 SAMPLING AT 1500 I STREET

Hi Richard,
Please run the following samples, currently on hold from the POLA I Street project:

PCBs	PAHs	Metals
B7-0.5	B7-0.5	B11-0.5
B8-0.5	B8-0.5	B12-0.5
B9-0.5	B9-0.5	B13-0.5
B10-0.5	B10-0.5	
B11-0.5	B11-0.5	
B12-0.5	B12-0.5	
B13-0.5	B13-0.5	
B14-0.5	B14-0.5	
B15-0.5	B15-0.5	
	B7-2	
	B7-5	
	B7-10	
	B7-15	
	B8-2	
	B8-5	
	B8-10	
	B9-2	
	B9-5	
	B9-10	
	B10-2	
	B10-5	
	B10-10	
	B11-2	B11-2
	B11-5	B11-5
	B11-10	B11-10
	B11-15	B11-15
	B12-2	B12-2
	B12-5	B12-5
	B12-10	B12-10
	B13-2	B13-2
	B13-5	B13-5
	B13-10	B13-10
	B14-2	B14-2
	B14-5	B14-5
	B14-10	B14-10

	B14-15	B14-15
	B15-2	B15-2
	B15-5	B15-5
	B15-10	B15-10

Any other samples currently on hold should remain on hold.
Thanks!

Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Crozier, Carrie
Sent: Wednesday, April 18, 2018 10:45 AM
To: Richard Beauvil <RBeauvil@emaxlabs.com>
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

Hi Richard,
I left a voicemail, please hold PCBs and PAHs sent in from 1517-1520 E I St yesterday 4/17. I will send you a revised list shortly. Any sent in on 4/16 should follow the COC as provided.

Sent from my iPhone

On Apr 17, 2018, at 10:22 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Great! Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> *EMAX* is interested in your feedback; please provide your comments to:
> customerservice@emaxlabs.com
>
> ***EMAX Holidays Schedule:***
>
> ---
>
> **From:** Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
> **Sent:** Tuesday, April 17, 2018 9:58 AM
> **To:** Richard Beauvil
> **Subject:** Re: 18D132 SAMPLING AT 1500 I STREET
>
> Have have collected jars and will submit them today.
>
> Sent from my iPhone
>
> On Apr 17, 2018, at 9:55 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

Do you mean, you are not or you are?

Richard M. Beauvil
Project Manager/Safety Officer
1835 W. 205th Street
Torrance, CA 90501
Tel: 310-618-8889 X118
rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com

EMAX Holidays Schedule:

From: Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
Sent: Tuesday, April 17, 2018 8:39 AM
To: Richard Beauvil
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

We were able to get jars for samples 1-5, for sample 21, just run VOCs.

Sent from my iPhone

On Apr 16, 2018, at 7:00 PM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Hi Carrie,
>
> I just got the COC of the "1500 I street". So we got some issues, please see attached. For the TPH for samples 1-5 and 21, we are missing a jar for TPH-D/M. If you don't need Diesel and motor oil, we still need a jar for the percent moisture so we can report your results on dry weight basis. Also it looks like a lot of the labels do not match the containers with the tests description. Let us know how to proceed. Give me a call if you need to talk to me.
>
> Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> ***EMAX*** is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com
>
> ***EMAX Holidays Schedule:***

<18D132.pdf>

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REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of three (3) water samples were received on 04/17/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5030B/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VO05D10B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VO05D10L/VO05D10C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 05

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VO05D10B	1	NA	04/23/1815:41	04/23/1815:41	RDQ228	RJQ007	VO05D10	Method Blank
LCS1W	VO05D10L	1	NA	04/23/1814:26	04/23/1814:26	RDQ225	RJQ007	VO05D10	Lab Control Sample (LCS)
LCD1W	VO05D10C	1	NA	04/23/1814:50	04/23/1814:50	RDQ226	RJQ007	VO05D10	LCS Duplicate
TRIP BLANK	D138-05	1	NA	04/23/1819:32	04/23/1819:32	RDQ237	RJQ007	VO05D10	Field Sample
B7	D138-17	1	NA	04/23/1821:40	04/23/1821:40	RDQ242	RJQ007	VO05D10	Field Sample
B14	D138-07	1	NA	04/23/1822:06	04/23/1822:06	RDQ243	RJQ007	VO05D10	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 19:32
Sample ID: TRIP BLANK	Date Analyzed: 04/23/18 19:32
Lab Samp ID: D138-05	Dilution Factor: 1
Lab File ID: RDQ237	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.3	10.00	103	70-140
4-BROMOFLUOROBENZENE	10.1	10.00	101	70-130
TOLUENE-D8	10.6	10.00	106	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 22:06
Sample ID: B14	Date Analyzed: 04/23/18 22:06
Lab Samp ID: D138-07	Dilution Factor: 1
Lab File ID: RDQ243	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	12J	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.29J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.8	10.00	108	70-140
4-BROMOFLUOROBENZENE	9.17	10.00	91.7	70-130
TOLUENE-D8	10.4	10.00	104	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 21:40
Sample ID: B7	Date Analyzed: 04/23/18 21:40
Lab Samp ID: D138-17	Dilution Factor: 1
Lab File ID: RDQ242	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.6	10.00	106	70-140
4-BROMOFLUOROBENZENE	9.48	10.00	94.8	70-130
TOLUENE-D8	10.2	10.00	102	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D138	Date Extracted: 04/23/18 15:41
Sample ID: MBLK1W	Date Analyzed: 04/23/18 15:41
Lab Samp ID: V005D10B	Dilution Factor: 1
Lab File ID: RDQ228	Matrix : WATER
Ext Btch ID: V005D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-140
4-BROMOFLUOROBENZENE	9.80	10.00	98.0	70-130
TOLUENE-D8	10.4	10.00	104	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO05D10B	VO05D10L	VO05D10C		
LAB FILE ID:	RDQ228	RDQ225	RDQ226		
DATE EXTRACTED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE RECEIVED:	04/23/18
PREP. BATCH:	VO05D10	VO05D10	VO05D10		
CALIB. REF:	RJQ007	RJQ007	RJQ007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.56	96	10.0	9.31	93	3	60-130	20
Benzene	ND	10.0	9.52	95	10.0	9.28	93	3	70-130	20
Chlorobenzene	ND	10.0	9.33	93	10.0	9.34	93	0	70-120	20
Toluene	ND	10.0	9.60	96	10.0	9.29	93	3	70-130	20
Trichloroethene	ND	10.0	9.00	90	10.0	8.78	88	2	70-130	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	10.3	103	70-140
4-Bromofluorobenzene	10.0	9.32	93	10.0	9.40	94	70-130
Toluene-d8	10.0	10.4	104	10.0	10.1	101	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of seven (7) soil samples were received on 04/17/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed. VS03D09B and VS03D10B result were compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two (2) sets of LCS/LCD were analyzed. VS03D09L/VS03D09C and VS03D10L/VS03D10C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 4-Bromofluorobenzene in D138-16, -16R and -15R. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.
One internal standard was out of QC criteria in samples 18D138-15 and -16 initial analysis confirmed by reanalysis. Report both runs.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 03

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VS03D09B	1	NA	04/18/1812:47	04/18/1812:47	RDB188	RDB172	VS03D09	Method Blank
LCS1S	VS03D09L	1	NA	04/18/1811:24	04/18/1811:24	RDB185	RDB172	VS03D09	Lab Control Sample (LCS)
LCD1S	VS03D09C	1	NA	04/18/1811:52	04/18/1811:52	RDB186	RDB172	VS03D09	LCS Duplicate
B7-2	D138-09	1.04	11.0	04/18/1813:15	04/18/1813:15	RDB189	RDB172	VS03D09	Field Sample
B15-10	D138-10	0.91	12.9	04/18/1813:43	04/18/1813:43	RDB190	RDB172	VS03D09	Field Sample
B9-5	D138-11	0.77	14.1	04/18/1814:11	04/18/1814:11	RDB191	RDB172	VS03D09	Field Sample
B9-10	D138-12	0.81	18.5	04/18/1814:38	04/18/1814:38	RDB192	RDB172	VS03D09	Field Sample
B10-2	D138-14	0.94	2.4	04/18/1815:06	04/18/1815:06	RDB193	RDB172	VS03D09	Field Sample
B10-5	D138-15	0.98	4.6	04/18/1815:34	04/18/1815:34	RDB194	RDB172	VS03D09	Field Sample
B10-10	D138-16	0.9	16.8	04/18/1816:01	04/18/1816:01	RDB195	RDB172	VS03D09	Field Sample
MBLK2S	VS03D10B	1	NA	04/19/1812:37	04/19/1812:37	RDB203	RDB172	VS03D10	Method Blank
LCS2S	VS03D10L	1	NA	04/19/1811:13	04/19/1811:13	RDB200	RDB172	VS03D10	Lab Control Sample (LCS)
LCD2S	VS03D10C	1	NA	04/19/1811:41	04/19/1811:41	RDB201	RDB172	VS03D10	LCS Duplicate
B10-5RE	D138-15R	0.98	4.6	04/19/1813:06	04/19/1813:06	RDB204	RDB172	VS03D10	Field Sample
B10-10RE	D138-16R	1.01	16.8	04/19/1814:01	04/19/1814:01	RDB206	RDB172	VS03D10	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 13:15
Sample ID: B7-2	Date Analyzed: 04/18/18 13:15
Lab Samp ID: D138-09	Dilution Factor: 1.04
Lab File ID: RDB189	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 11.0
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,1-TRICHLOROETHANE	ND	5.8	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,2-TRICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHENE	ND	5.8	1.2
1,1-DICHLOROPROPENE	ND	5.8	1.2
1,2,3-TRICHLOROBENZENE	ND	5.8	2.3
1,2,3-TRICHLOROPROPANE	ND	5.8	2.3
1,2,4-TRICHLOROBENZENE	ND	5.8	2.3
1,2,4-TRIMETHYLBENZENE	ND	5.8	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.8	2.3
1,2-DIBROMOETHANE	ND	5.8	1.2
1,2-DICHLOROBENZENE	ND	5.8	1.2
1,2-DICHLOROETHANE	ND	5.8	1.2
1,2-DICHLOROPROPANE	ND	5.8	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.8	1.2
1,3-DICHLOROBENZENE	ND	5.8	1.2
1,3-DICHLOROPROPANE	ND	5.8	1.2
1,4-DICHLOROBENZENE	ND	5.8	1.2
2,2-DICHLOROPROPANE	ND	5.8	2.3
2-BUTANONE	8.2J	12	5.8
2-CHLOROTOLUENE	ND	5.8	1.2
2-HEXANONE	ND	12	5.8
4-CHLOROTOLUENE	ND	5.8	1.2
ACETONE	61	12	5.8
BENZENE	ND	5.8	1.2
BROMOBENZENE	ND	5.8	1.2
BROMOCHLOROMETHANE	ND	5.8	1.2
BROMODICHLOROMETHANE	ND	5.8	1.2
BROMOFORM	ND	5.8	2.3
BROMOMETHANE	ND	5.8	2.3
CARBON DISULFIDE	ND	5.8	1.2
CARBON TETRACHLORIDE	ND	5.8	1.2
CHLOROBENZENE	ND	5.8	1.2
CHLOROETHANE	ND	5.8	2.3
CHLOROFORM	ND	5.8	1.2
CHLOROMETHANE	ND	5.8	2.3
CIS-1,2-DICHLOROETHENE	ND	5.8	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.8	1.2
DIBROMOCHLOROMETHANE	ND	5.8	1.2
DICHLORODIFLUOROMETHANE	ND	5.8	2.3
ETHYLBENZENE	ND	5.8	1.2
ISOPROPYL BENZENE	ND	5.8	1.2
M,P-XYLENES	ND	12	2.3
MIBK	ND	12	5.8
METHYLENE CHLORIDE	ND	5.8	2.3
MTBE	ND	5.8	1.2
NAPHTHALENE	ND	5.8	2.3
N-BUTYLBENZENE	ND	5.8	1.2
N-PROPYLBENZENE	ND	5.8	1.2
O-XYLENE	ND	5.8	1.2
P-ISOPROPYLTOLUENE	ND	5.8	1.2
SEC-BUTYLBENZENE	ND	5.8	1.2
STYRENE	ND	5.8	1.2
TERT-BUTYLBENZENE	ND	5.8	1.2
TETRACHLOROETHENE	ND	5.8	1.2
TOLUENE	ND	5.8	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.8	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.8	1.2
TRICHLOROETHENE	ND	5.8	1.2
TRICHLOROFLUOROMETHANE	ND	5.8	2.3
VINYL CHLORIDE	ND	5.8	2.3
VINYL ACETATE	ND	5.8	2.3
FREON113	ND	5.8	2.3
DIBROMOMETHANE	ND	5.8	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	52.8	58.43	90.4	60-160
4-BROMOFLUOROBENZENE	63.2	58.43	108	70-150
TOLUENE-D8	58.4	58.43	100	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 13:43
Sample ID: B15-10	Date Analyzed: 04/18/18 13:43
Lab Samp ID: D138-10	Dilution Factor: 0.91
Lab File ID: RDB190	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 12.9
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	2.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DIBROMOETHANE	ND	5.2	1.0
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	ND	10	5.2
2-CHLOROTOLUENE	ND	5.2	1.0
2-HEXANONE	ND	10	5.2
4-CHLOROTOLUENE	ND	5.2	1.0
ACETONE	11	10	5.2
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	5.2	2.1
CARBON DISULFIDE	ND	5.2	1.0
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.2
METHYLENE CHLORIDE	ND	5.2	2.1
MTBE	ND	5.2	1.0
NAPHTHALENE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
VINYL ACETATE	ND	5.2	2.1
FREON113	ND	5.2	2.1
DIBROMOMETHANE	ND	5.2	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.7	52.24	91.3	60-160
4-BROMOFLUOROBENZENE	57.3	52.24	110	70-150
TOLUENE-D8	51.0	52.24	97.7	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 14:11
Sample ID: B9-5	Date Analyzed: 04/18/18 14:11
Lab Samp ID: D138-11	Dilution Factor: 0.77
Lab File ID: RDB191	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 14.1
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.5	0.90
1,1,1-TRICHLOROETHANE	ND	4.5	0.90
1,1,2,2-TETRACHLOROETHANE	ND	4.5	0.90
1,1,2-TRICHLOROETHANE	ND	4.5	0.90
1,1-DICHLOROETHANE	ND	4.5	0.90
1,1-DICHLOROETHENE	ND	4.5	0.90
1,1-DICHLOROPROPENE	ND	4.5	0.90
1,2,3-TRICHLOROBENZENE	ND	4.5	1.8
1,2,3-TRICHLOROPROPANE	ND	4.5	1.8
1,2,4-TRICHLOROBENZENE	ND	4.5	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.5	0.90
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.5	1.8
1,2-DIBROMOETHANE	ND	4.5	0.90
1,2-DICHLOROBENZENE	ND	4.5	0.90
1,2-DICHLOROETHANE	ND	4.5	0.90
1,2-DICHLOROPROPANE	ND	4.5	0.90
1,3,5-TRIMETHYLBENZENE	ND	4.5	0.90
1,3-DICHLOROBENZENE	ND	4.5	0.90
1,3-DICHLOROPROPANE	ND	4.5	0.90
1,4-DICHLOROBENZENE	ND	4.5	0.90
2,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	ND	9.0	4.5
2-CHLOROTOLUENE	ND	4.5	0.90
2-HEXANONE	ND	9.0	4.5
4-CHLOROTOLUENE	ND	4.5	0.90
ACETONE	17	9.0	4.5
BENZENE	ND	4.5	0.90
BROMOBENZENE	ND	4.5	0.90
BROMOCHLOROMETHANE	ND	4.5	0.90
BROMODICHLOROMETHANE	ND	4.5	0.90
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	4.5	1.8
CARBON DISULFIDE	ND	4.5	0.90
CARBON TETRACHLORIDE	ND	4.5	0.90
CHLOROBENZENE	ND	4.5	0.90
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	0.90
CHLOROMETHANE	ND	4.5	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	0.90
CIS-1,3-DICHLOROPROPENE	ND	4.5	0.90
DIBROMOCHLOROMETHANE	ND	4.5	0.90
DICHLORODIFLUOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	0.90
ISOPROPYL BENZENE	ND	4.5	0.90
M,P-XYLENES	ND	9.0	1.8
MIBK	ND	9.0	4.5
METHYLENE CHLORIDE	ND	4.5	1.8
MTBE	ND	4.5	0.90
NAPHTHALENE	ND	4.5	1.8
N-BUTYLBENZENE	ND	4.5	0.90
N-PROPYLBENZENE	ND	4.5	0.90
O-XYLENE	ND	4.5	0.90
P-ISOPROPYLTOLUENE	ND	4.5	0.90
SEC-BUTYLBENZENE	ND	4.5	0.90
STYRENE	ND	4.5	0.90
TERT-BUTYLBENZENE	ND	4.5	0.90
TETRACHLOROETHENE	ND	4.5	0.90
TOLUENE	ND	4.5	0.90
TRANS-1,2-DICHLOROETHENE	ND	4.5	0.90
TRANS-1,3-DICHLOROPROPENE	ND	4.5	0.90
TRICHLOROETHENE	ND	4.5	0.90
TRICHLOROFLUOROMETHANE	ND	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8
VINYL ACETATE	ND	4.5	1.8
FREON113	ND	4.5	1.8
DIBROMOMETHANE	ND	4.5	0.90

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	45.1	44.82	101	60-160
4-BROMOFLUOROBENZENE	49.3	44.82	110	70-150
TOLUENE-D8	42.5	44.82	94.8	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 14:38
Sample ID: B9-10	Date Analyzed: 04/18/18 14:38
Lab Samp ID: D138-12	Dilution Factor: 0.81
Lab File ID: RDB192	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 18.5
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	0.99
1,1,1-TRICHLOROETHANE	ND	5.0	0.99
1,1,2,2-TETRACHLOROETHANE	ND	5.0	0.99
1,1,2-TRICHLOROETHANE	ND	5.0	0.99
1,1-DICHLOROETHANE	ND	5.0	0.99
1,1-DICHLOROETHENE	ND	5.0	0.99
1,1-DICHLOROPROPENE	ND	5.0	0.99
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	0.99
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	0.99
1,2-DICHLOROBENZENE	ND	5.0	0.99
1,2-DICHLOROETHANE	ND	5.0	0.99
1,2-DICHLOROPROPANE	ND	5.0	0.99
1,3,5-TRIMETHYLBENZENE	ND	5.0	0.99
1,3-DICHLOROBENZENE	ND	5.0	0.99
1,3-DICHLOROPROPANE	ND	5.0	0.99
1,4-DICHLOROBENZENE	ND	5.0	0.99
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	9.9	5.0
2-CHLOROTOLUENE	ND	5.0	0.99
2-HEXANONE	ND	9.9	5.0
4-CHLOROTOLUENE	ND	5.0	0.99
ACETONE	7.8J	9.9	5.0
BENZENE	ND	5.0	0.99
BROMOBENZENE	ND	5.0	0.99
BROMOCHLOROMETHANE	ND	5.0	0.99
BROMODICHLOROMETHANE	ND	5.0	0.99
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	0.99
CARBON TETRACHLORIDE	ND	5.0	0.99
CHLOROBENZENE	ND	5.0	0.99
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	0.99
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	0.99
CIS-1,3-DICHLOROPROPENE	ND	5.0	0.99
DIBROMOCHLOROMETHANE	ND	5.0	0.99
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	0.99
ISOPROPYL BENZENE	ND	5.0	0.99
M,P-XYLENES	ND	9.9	2.0
MIBK	ND	9.9	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	0.99
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	0.99
N-PROPYLBENZENE	ND	5.0	0.99
O-XYLENE	ND	5.0	0.99
P-ISOPROPYLTOLUENE	ND	5.0	0.99
SEC-BUTYLBENZENE	ND	5.0	0.99
STYRENE	ND	5.0	0.99
TERT-BUTYLBENZENE	ND	5.0	0.99
TETRACHLOROETHENE	ND	5.0	0.99
TOLUENE	ND	5.0	0.99
TRANS-1,2-DICHLOROETHENE	ND	5.0	0.99
TRANS-1,3-DICHLOROPROPENE	ND	5.0	0.99
TRICHLOROETHENE	ND	5.0	0.99
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	0.99

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.0	49.69	94.7	60-160
4-BROMOFLUOROBENZENE	54.8	49.69	110	70-150
TOLUENE-D8	49.6	49.69	99.8	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 15:06
Sample ID: B10-2	Date Analyzed: 04/18/18 15:06
Lab Samp ID: D138-14	Dilution Factor: 0.94
Lab File ID: RDB193	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 2.4
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,1-TRICHLOROETHANE	ND	4.8	0.96
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.96
1,1,2-TRICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHANE	ND	4.8	0.96
1,1-DICHLOROETHENE	ND	4.8	0.96
1,1-DICHLOROPROPENE	ND	4.8	0.96
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	2.4J	4.8	0.96
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.96
1,2-DICHLOROBENZENE	ND	4.8	0.96
1,2-DICHLOROETHANE	ND	4.8	0.96
1,2-DICHLOROPROPANE	ND	4.8	0.96
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.96
1,3-DICHLOROBENZENE	ND	4.8	0.96
1,3-DICHLOROPROPANE	ND	4.8	0.96
1,4-DICHLOROBENZENE	ND	4.8	0.96
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	6.0J	9.6	4.8
2-CHLOROTOLUENE	ND	4.8	0.96
2-HEXANONE	ND	9.6	4.8
4-CHLOROTOLUENE	ND	4.8	0.96
ACETONE	65	9.6	4.8
BENZENE	2.2J	4.8	0.96
BROMOBENZENE	ND	4.8	0.96
BROMOCHLOROMETHANE	ND	4.8	0.96
BROMODICHLOROMETHANE	ND	4.8	0.96
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	2.0J	4.8	0.96
CARBON TETRACHLORIDE	ND	4.8	0.96
CHLOROBENZENE	ND	4.8	0.96
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.96
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.96
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.96
DIBROMOCHLOROMETHANE	ND	4.8	0.96
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	1.1J	4.8	0.96
ISOPROPYL BENZENE	ND	4.8	0.96
M,P-XYLENES	5.2J	9.6	1.9
MIBK	ND	9.6	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.96
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.96
N-PROPYLBENZENE	ND	4.8	0.96
O-XYLENE	2.0J	4.8	0.96
P-ISOPROPYLTOLUENE	ND	4.8	0.96
SEC-BUTYLBENZENE	ND	4.8	0.96
STYRENE	ND	4.8	0.96
TERT-BUTYLBENZENE	ND	4.8	0.96
TETRACHLOROETHENE	ND	4.8	0.96
TOLUENE	3.9J	4.8	0.96
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.96
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.96
TRICHLOROETHENE	ND	4.8	0.96
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.96

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.5	48.16	98.7	60-160
4-BROMOFLUOROBENZENE	66.3	48.16	138	70-150
TOLUENE-D8	48.8	48.16	101	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 15:34
Sample ID: B10-5	Date Analyzed: 04/18/18 15:34
Lab Samp ID: D138-15	Dilution Factor: 0.98
Lab File ID: RDB194	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 4.6
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.1
1,2,3-TRICHLOROPROPANE	ND	5.1	2.1
1,2,4-TRICHLOROBENZENE	ND	5.1	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.1
1,2-DIBROMOETHANE	ND	5.1	1.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.1
2-BUTANONE	ND	10	5.1
2-CHLOROTOLUENE	ND	5.1	1.0
2-HEXANONE	ND	10	5.1
4-CHLOROTOLUENE	ND	5.1	1.0
ACETONE	35	10	5.1
BENZENE	1.6J	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.1
BROMOMETHANE	ND	5.1	2.1
CARBON DISULFIDE	1.3J	5.1	1.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.1
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.1
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.1
ETHYLBENZENE	ND	5.1	1.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.1
METHYLENE CHLORIDE	ND	5.1	2.1
MTBE	ND	5.1	1.0
NAPHTHALENE	ND	5.1	2.1
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	1.8J	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.1
VINYL CHLORIDE	ND	5.1	2.1
VINYL ACETATE	ND	5.1	2.1
FREON113	ND	5.1	2.1
DIBROMOMETHANE	ND	5.1	1.0

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.4	51.36	94.3	60-160
4-BROMOFLUOROBENZENE	76.5	51.36	149	70-150
TOLUENE-D8	57.7	51.36	112	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/19/18 13:06
Sample ID: B10-5RE	Date Analyzed: 04/19/18 13:06
Lab Samp ID: D138-15R	Dilution Factor: 0.98
Lab File ID: RDB204	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 4.6
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.1
1,2,3-TRICHLOROPROPANE	ND	5.1	2.1
1,2,4-TRICHLOROBENZENE	ND	5.1	2.1
1,2,4-TRIMETHYLBENZENE	1.1J	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.1
1,2-DIBROMOETHANE	ND	5.1	1.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.1
2-BUTANONE	5.5J	10	5.1
2-CHLOROTOLUENE	ND	5.1	1.0
2-HEXANONE	ND	10	5.1
4-CHLOROTOLUENE	ND	5.1	1.0
ACETONE	47	10	5.1
BENZENE	2.2J	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.1
BROMOMETHANE	ND	5.1	2.1
CARBON DISULFIDE	1.9J	5.1	1.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.1
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.1
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.1
ETHYLBENZENE	ND	5.1	1.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENES	2.8J	10	2.1
MIBK	ND	10	5.1
METHYLENE CHLORIDE	ND	5.1	2.1
MTBE	ND	5.1	1.0
NAPHTHALENE	ND	5.1	2.1
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	4.0J	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.1
VINYL CHLORIDE	ND	5.1	2.1
VINYL ACETATE	ND	5.1	2.1
FREON113	ND	5.1	2.1
DIBROMOMETHANE	ND	5.1	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	47.5	51.36	92.5	60-160
4-BROMOFLUOROBENZENE	86.0	51.36	167*	70-150
TOLUENE-D8	61.5	51.36	120	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/18/18 16:01
Sample ID: B10-10	Date Analyzed: 04/18/18 16:01
Lab Samp ID: D138-16	Dilution Factor: 0.9
Lab File ID: RDB195	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : 16.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	7.1J	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	84	11	5.4
BENZENE	2.2J	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	ND	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	2.1J	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.8	54.09	99.5	60-160
4-BROMOFLUOROBENZENE	86.1	54.09	159*	70-150
TOLUENE-D8	63.6	54.09	118	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/19/18 14:01
Sample ID: B10-10RE	Date Analyzed: 04/19/18 14:01
Lab Samp ID: D138-16R	Dilution Factor: 1.01
Lab File ID: RDB206	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 16.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,1-DICHLOROPROPENE	ND	6.1	1.2
1,2,3-TRICHLOROBENZENE	ND	6.1	2.4
1,2,3-TRICHLOROPROPANE	ND	6.1	2.4
1,2,4-TRICHLOROBENZENE	ND	6.1	2.4
1,2,4-TRIMETHYLBENZENE	ND	6.1	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.1	2.4
1,2-DIBROMOETHANE	ND	6.1	1.2
1,2-DICHLOROBENZENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.1	1.2
1,3-DICHLOROBENZENE	ND	6.1	1.2
1,3-DICHLOROPROPANE	ND	6.1	1.2
1,4-DICHLOROBENZENE	ND	6.1	1.2
2,2-DICHLOROPROPANE	ND	6.1	2.4
2-BUTANONE	6.2J	12	6.1
2-CHLOROTOLUENE	ND	6.1	1.2
2-HEXANONE	ND	12	6.1
4-CHLOROTOLUENE	ND	6.1	1.2
ACETONE	70	12	6.1
BENZENE	2.2J	6.1	1.2
BROMOBENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
DICHLORODIFLUOROMETHANE	ND	6.1	2.4
ETHYLBENZENE	ND	6.1	1.2
ISOPROPYL BENZENE	ND	6.1	1.2
M,P-XYLENES	ND	12	2.4
MIBK	ND	12	6.1
METHYLENE CHLORIDE	ND	6.1	2.4
MTBE	ND	6.1	1.2
NAPHTHALENE	ND	6.1	2.4
N-BUTYLBENZENE	ND	6.1	1.2
N-PROPYLBENZENE	ND	6.1	1.2
O-XYLENE	ND	6.1	1.2
P-ISOPROPYLTOLUENE	ND	6.1	1.2
SEC-BUTYLBENZENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TERT-BUTYLBENZENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	1.8J	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
TRICHLOROFLUOROMETHANE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4
VINYL ACETATE	ND	6.1	2.4
FREON113	ND	6.1	2.4
DIBROMOMETHANE	ND	6.1	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.2	60.70	94.3	60-160
4-BROMOFLUOROBENZENE	93.4	60.70	154*	70-150
TOLUENE-D8	70.6	60.70	116	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D138	Date Extracted: 04/18/18 12:47
Sample ID: MBLK1S	Date Analyzed: 04/18/18 12:47
Lab Samp ID: VS03D09B	Dilution Factor: 1
Lab File ID: RDB188	Matrix : SOIL
Ext Btch ID: VS03D09	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	45.4	50.00	90.8	70-140
4-BROMOFLUOROBENZENE	51.4	50.00	103	70-130
TOLUENE-D8	49.1	50.00	98.2	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VS03D09B	VS03D09L	VS03D09C		
LAB FILE ID:	RDB188	RDB185	RDB186		
DATE EXTRACTED:	04/18/1812:47	04/18/1811:24	04/18/1811:52	DATE COLLECTED:	NA
DATE ANALYZED:	04/18/1812:47	04/18/1811:24	04/18/1811:52	DATE RECEIVED:	04/18/18
PREP. BATCH:	VS03D09	VS03D09	VS03D09		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.8	90	50.0	44.3	89	1	60-130	30
Benzene	ND	50.0	47.9	96	50.0	46.8	94	2	70-130	30
Chlorobenzene	ND	50.0	47.2	94	50.0	46.9	94	1	70-130	30
Toluene	ND	50.0	48.1	96	50.0	48.1	96	0	70-130	50
Trichloroethene	ND	50.0	47.9	96	50.0	47.1	94	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	41.8	84	50.0	40.5	81	70-140
4-Bromofluorobenzene	50.0	52.1	104	50.0	51.5	103	70-130
Toluene-d8	50.0	49.1	98	50.0	48.9	98	70-130

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/19/18
Batch No. : 18D138	Date Extracted: 04/19/18 12:37
Sample ID: MBLK2S	Date Analyzed: 04/19/18 12:37
Lab Samp ID: VS03D10B	Dilution Factor: 1
Lab File ID: RDB203	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.4	50.00	92.8	70-140
4-BROMOFLUOROBENZENE	53.5	50.00	107	70-130
TOLUENE-D8	48.8	50.00	97.6	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VS03D10B	VS03D10L	VS03D10C		
LAB FILE ID:	RDB203	RDB200	RDB201		
DATE EXTRACTED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE RECEIVED:	04/19/18
PREP. BATCH:	VS03D10	VS03D10	VS03D10		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.2	88	50.0	42.6	85	4	60-130	30
Benzene	ND	50.0	46.2	92	50.0	48.0	96	4	70-130	30
Chlorobenzene	ND	50.0	46.7	93	50.0	47.7	95	2	70-130	30
Toluene	ND	50.0	47.8	96	50.0	48.4	97	1	70-130	50
Trichloroethene	ND	50.0	46.9	94	50.0	47.7	95	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	43.1	86	50.0	41.7	83	70-140
4-Bromofluorobenzene	50.0	50.1	100	50.0	49.4	99	70-130
Toluene-d8	50.0	48.6	97	50.0	48.2	96	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of two (2) water samples were received on 04/17/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3520C/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There was one (1) CCV associated with this SDG. Target analytes in CCV(Datafile ID:RDF017) were within calibration acceptance criteria. All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD034WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. SVD034WL/SVD034WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample D138-07 and -17 were initially extracted at dilution due to limited samples amount received.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D138
Instrument ID : F0

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	SVD034WL	1	NA	04/25/1809:50	04/23/1810:15	RDF018	RCF004	18SVD034W	Lab Control Sample (LCS)
LCD1W	SVD034WC	1	NA	04/25/1810:12	04/23/1810:15	RDF019	RCF004	18SVD034W	LCS Duplicate
MBLK1W	SVD034WB	1	NA	04/25/1811:18	04/23/1810:15	RDF022	RCF004	18SVD034W	Method Blank
B14	18D138-07	1	NA	04/25/1811:42	04/23/1810:15	RDF023	RCF004	18SVD034W	Field Sample
B7	18D138-17N	1	NA	04/25/1817:51	04/23/1810:15	RDF039	RCF004	18SVD034W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 14:15
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 10:15
Sample ID : B14	Date Analyzed: 04/25/18 11:42
Lab Samp ID: 18D138-07	Dilution Factor: 1
Lab File ID: RDF023	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	ND	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.679	1.00	68	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 13:38
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 10:15
Sample ID : B7	Date Analyzed: 04/25/18 17:51
Lab Samp ID: 18D138-17N	Dilution Factor: 1
Lab File ID: RDF039	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	0.022J	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.613	1.00	61	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

QC SUMMARIES

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/23/18 10:15
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D138	Date Extracted: 04/23/18 10:15
Sample ID : MBLK1W	Date Analyzed: 04/25/18 11:18
Lab Samp ID: SVD034WB	Dilution Factor: 1
Lab File ID: RDF022	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.020	0.010
Acenaphthylene	ND	0.020	0.010
Anthracene	ND	0.020	0.010
Benzo(a)anthracene	ND	0.020	0.010
Benzo(a)pyrene	ND	0.020	0.010
Benzo(b)fluoranthene	ND	0.020	0.010
Benzo(k)fluoranthene	ND	0.020	0.010
Benzo(g,h,i)perylene	ND	0.020	0.010
Chrysene	ND	0.020	0.010
Dibenzo(a,h)anthracene	ND	0.020	0.010
Fluoranthene	ND	0.020	0.010
Fluorene	ND	0.020	0.010
Indeno(1,2,3-cd)pyrene	ND	0.020	0.010
Naphthalene	ND	0.020	0.010
Phenanthrene	ND	0.020	0.010
Pyrene	ND	0.020	0.010
2-Methylnaphthalene	ND	0.020	0.010
1-Methylnaphthalene	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.466	0.500	93	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3520C/8270C SIM

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: SVD034WB	SVD034WL	SVD034WC
LAB FILE ID	: RDF022	RDF018	RDF019
DATE PREPARED	: 04/23/18 10:15	04/23/18 10:15	04/23/18 10:15
DATE ANALYZED	: 04/25/18 11:18	04/25/18 09:50	04/25/18 10:12
PREP BATCH	: 18SVD034W	18SVD034W	18SVD034W
CALIBRATION REF	: RCF004	RCF004	RCF004

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	0.500	0.268	54	0.500	0.262	52	2	45-110	30
Acenaphthylene	ND	0.500	0.283	57	0.500	0.273	55	4	50-105	30
Anthracene	ND	0.500	0.313	63	0.500	0.299	60	5	55-110	30
Benzo(a)anthracene	ND	0.500	0.341	68	0.500	0.349	70	2	55-110	30
Benzo(a)pyrene	ND	0.500	0.399	80	0.500	0.391	78	2	55-110	30
Benzo(b)fluoranthene	ND	0.500	0.394	79	0.500	0.401	80	2	45-120	30
Benzo(k)fluoranthene	ND	0.500	0.431	86	0.500	0.430	86	0	45-125	30
Benzo(g,h,i)perylene	ND	0.500	0.322	64	0.500	0.331	66	3	40-125	30
Chrysene	ND	0.500	0.376	75	0.500	0.380	76	1	55-110	30
Dibenzo(a,h)anthracene	ND	0.500	0.318	64	0.500	0.334	67	5	40-125	30
Fluoranthene	ND	0.500	0.348	70	0.500	0.347	69	0	55-115	30
Fluorene	ND	0.500	0.299	60	0.500	0.290	58	3	50-110	30
Indeno(1,2,3-cd)pyrene	ND	0.500	0.309	62	0.500	0.320	64	3	45-125	30
Naphthalene	ND	0.500	0.265	53	0.500	0.252	50	5	40-100	30
Phenanthrene	ND	0.500	0.296	59	0.500	0.292	58	1	50-115	30
Pyrene	ND	0.500	0.356	71	0.500	0.357	71	0	50-130	30
2-Methylnaphthalene	ND	0.500	0.282	56	0.500	0.267	53	5	45-105	30
1-Methylnaphthalene	ND	0.500	0.281	56	0.500	0.269	54	4	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	0.500	0.346	69	0.500	0.350	70	50-135

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3550B/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There were two (2) CCVs associated with this SDG: CCV(Datafile ID:RDJ541) and CCV(Datafile ID:RDJ578). All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD032SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD (SVD032SL/SVD032SC) was analyzed. All analytes were within LCS limits except for Percent recovery for Indeno(1,2,3-CD)Pyrene was not within LCD QC limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter. The following analytes were manually integrated.

- Phenanthrene and Benzo(b)fluoranthene in sample D138-08
- Phenanthrene, Benzo(b)fluoranthene and Benzo(k)fluoranthene in sample D138-10
- Benzo(b)fluoranthene and Benzo(k)fluoranthene in sample D138-13
- 2-Methylnaphthalene, Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene in sample D138-14

Hence, the original chromatograms were retained and corrected chromatograms were initialed and dated. The secondary reviewer concurred with the manual integrations. Samples D138-10, -13, -14 and -15 were initially analyzed at dilution due to dark-colored appearance in extracts(dark brown colored extracts).

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : E4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
B7-0.5	18D138-08	1	4.7	04/25/1816:09	04/20/1813:55	RDJ564	RBJ167	18SVD032S	Field Sample
B7-2	18D138-09	1	11.0	04/25/1816:28	04/20/1813:55	RDJ565	RBJ167	18SVD032S	Field Sample
B15-10	18D138-10	3	12.9	04/25/1816:47	04/20/1813:55	RDJ566	RBJ167	18SVD032S	Field Sample
B9-5	18D138-11	1	14.1	04/25/1817:06	04/20/1813:55	RDJ567	RBJ167	18SVD032S	Field Sample
B9-10	18D138-12	1	18.5	04/25/1817:25	04/20/1813:55	RDJ568	RBJ167	18SVD032S	Field Sample
B10-0.5	18D138-13	3	1.9	04/25/1817:44	04/20/1813:55	RDJ569	RBJ167	18SVD032S	Field Sample
B10-2	18D138-14	3	2.4	04/25/1818:03	04/20/1813:55	RDJ570	RBJ167	18SVD032S	Field Sample
B10-5	18D138-15	10	4.6	04/25/1818:21	04/20/1813:55	RDJ571	RBJ167	18SVD032S	Field Sample
B10-10	18D138-16	1	16.8	04/25/1818:40	04/20/1813:55	RDJ572	RBJ167	18SVD032S	Field Sample
MBLK1S	SVD032SB	1	NA	04/26/1810:14	04/20/1813:55	RDJ581	RBJ167	18SVD032S	Method Blank
LCS1S	SVD032SL	1	NA	04/26/1810:33	04/20/1813:55	RDJ582	RBJ167	18SVD032S	Lab Control Sample (LCS)
LCD1S	SVD032SC	1	NA	04/26/1810:51	04/20/1813:55	RDJ583	RBJ167	18SVD032S	LCS Duplicate

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 08:39
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B7-0.5	Date Analyzed: 04/25/18 16:09
Lab Samp ID: 18D138-08	Dilution Factor: 1
Lab File ID: RDJ564	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 4.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.2	2.6
Acenaphthylene	ND	5.2	2.6
Anthracene	ND	5.2	2.6
Benzo(a)anthracene	6.6	5.2	2.6
Benzo(a)pyrene	6.0	5.2	2.6
Benzo(b)fluoranthene	6.9	5.2	2.6
Benzo(k)fluoranthene	ND	5.2	2.6
Benzo(g,h,i)perylene	8.5	5.2	2.6
Chrysene	7.2	5.2	2.6
Dibenzo(a,h)anthracene	ND	5.2	2.6
Fluoranthene	5.9	5.2	2.6
Fluorene	ND	5.2	2.6
Indeno(1,2,3-cd)pyrene	3.4J	5.2	2.6
Naphthalene	ND	5.2	2.6
Phenanthrene	3.6J	5.2	2.6
Pyrene	6.6	5.2	2.6
2-Methylnaphthalene	ND	5.2	2.6
1-Methylnaphthalene	ND	5.2	2.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	638	700	91	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 08:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B7-2	Date Analyzed:	04/25/18 16:28
Lab Samp ID:	18D138-09	Dilution Factor:	1
Lab File ID:	RDJ565	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	11.0
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.6	2.8
Acenaphthylene	ND	5.6	2.8
Anthracene	ND	5.6	2.8
Benzo(a)anthracene	ND	5.6	2.8
Benzo(a)pyrene	ND	5.6	2.8
Benzo(b)fluoranthene	ND	5.6	2.8
Benzo(k)fluoranthene	ND	5.6	2.8
Benzo(g,h,i)perylene	ND	5.6	2.8
Chrysene	ND	5.6	2.8
Dibenzo(a,h)anthracene	ND	5.6	2.8
Fluoranthene	ND	5.6	2.8
Fluorene	ND	5.6	2.8
Indeno(1,2,3-cd)pyrene	ND	5.6	2.8
Naphthalene	ND	5.6	2.8
Phenanthrene	ND	5.6	2.8
Pyrene	ND	5.6	2.8
2-Methylnaphthalene	ND	5.6	2.8
1-Methylnaphthalene	ND	5.6	2.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	681	749	91	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.01g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 11:11
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B15-10	Date Analyzed: 04/25/18 16:47
Lab Samp ID: 18D138-10	Dilution Factor: 3
Lab File ID: RDJ566	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 12.9
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	17	8.6
Acenaphthylene	ND	17	8.6
Anthracene	ND	17	8.6
Benzo(a)anthracene	22	17	8.6
Benzo(a)pyrene	19	17	8.6
Benzo(b)fluoranthene	24	17	8.6
Benzo(k)fluoranthene	ND	17	8.6
Benzo(g,h,i)perylene	24	17	8.6
Chrysene	20	17	8.6
Dibenzo(a,h)anthracene	ND	17	8.6
Fluoranthene	26	17	8.6
Fluorene	ND	17	8.6
Indeno(1,2,3-cd)pyrene	10J	17	8.6
Naphthalene	ND	17	8.6
Phenanthrene	14J	17	8.6
Pyrene	24	17	8.6
2-Methylnaphthalene	ND	17	8.6
1-Methylnaphthalene	ND	17	8.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	608	765	79	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 13:10
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B9-5	Date Analyzed:	04/25/18 17:06
Lab Samp ID:	18D138-11	Dilution Factor:	1
Lab File ID:	RDJ567	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	14.1
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	669	776	86	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.03g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 13:18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B9-10	Date Analyzed: 04/25/18 17:25
Lab Samp ID: 18D138-12	Dilution Factor: 1
Lab File ID: RDJ568	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 18.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.1	3.1
Acenaphthylene	ND	6.1	3.1
Anthracene	ND	6.1	3.1
Benzo(a)anthracene	ND	6.1	3.1
Benzo(a)pyrene	ND	6.1	3.1
Benzo(b)fluoranthene	ND	6.1	3.1
Benzo(k)fluoranthene	ND	6.1	3.1
Benzo(g,h,i)perylene	ND	6.1	3.1
Chrysene	ND	6.1	3.1
Dibenzo(a,h)anthracene	ND	6.1	3.1
Fluoranthene	ND	6.1	3.1
Fluorene	ND	6.1	3.1
Indeno(1,2,3-cd)pyrene	ND	6.1	3.1
Naphthalene	ND	6.1	3.1
Phenanthrene	ND	6.1	3.1
Pyrene	ND	6.1	3.1
2-Methylnaphthalene	ND	6.1	3.1
1-Methylnaphthalene	ND	6.1	3.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	726	818	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.03g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 13:42
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 13:55
Sample ID : B10-0.5	Date Analyzed: 04/25/18 17:44
Lab Samp ID: 18D138-13	Dilution Factor: 3
Lab File ID: RDJ569	Matrix: SOIL
Ext Btch ID: 18SVD032S	% Moisture: 1.9
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.6
Acenaphthylene	ND	15	7.6
Anthracene	18	15	7.6
Benzo(a)anthracene	68	15	7.6
Benzo(a)pyrene	65	15	7.6
Benzo(b)fluoranthene	77	15	7.6
Benzo(k)fluoranthene	19	15	7.6
Benzo(g,h,i)perylene	63	15	7.6
Chrysene	85	15	7.6
Dibenzo(a,h)anthracene	11J	15	7.6
Fluoranthene	110	15	7.6
Fluorene	ND	15	7.6
Indeno(1,2,3-cd)pyrene	33	15	7.6
Naphthalene	7.7J	15	7.6
Phenanthrene	63	15	7.6
Pyrene	110	15	7.6
2-Methylnaphthalene	8.5J	15	7.6
1-Methylnaphthalene	ND	15	7.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	531	680	78	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 13:45
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B10-2	Date Analyzed:	04/25/18 18:03
Lab Samp ID:	18D138-14	Dilution Factor:	3
Lab File ID:	RDJ570	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	2.4
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.7
Acenaphthylene	8.4J	15	7.7
Anthracene	20	15	7.7
Benzo(a)anthracene	28	15	7.7
Benzo(a)pyrene	26	15	7.7
Benzo(b)fluoranthene	27	15	7.7
Benzo(k)fluoranthene	ND	15	7.7
Benzo(g,h,i)perylene	64	15	7.7
Chrysene	30	15	7.7
Dibenzo(a,h)anthracene	ND	15	7.7
Fluoranthene	23	15	7.7
Fluorene	ND	15	7.7
Indeno(1,2,3-cd)pyrene	13J	15	7.7
Naphthalene	ND	15	7.7
Phenanthrene	18	15	7.7
Pyrene	33	15	7.7
2-Methylnaphthalene	ND	15	7.7
1-Methylnaphthalene	ND	15	7.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	522	683	76	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 14:00
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B10-5	Date Analyzed:	04/25/18 18:21
Lab Samp ID:	18D138-15	Dilution Factor:	10
Lab File ID:	RDJ571	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	4.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	52	26
Acenaphthylene	ND	52	26
Anthracene	ND	52	26
Benzo(a)anthracene	28J	52	26
Benzo(a)pyrene	ND	52	26
Benzo(b)fluoranthene	ND	52	26
Benzo(k)fluoranthene	ND	52	26
Benzo(g,h,i)perylene	55	52	26
Chrysene	ND	52	26
Dibenzo(a,h)anthracene	ND	52	26
Fluoranthene	ND	52	26
Fluorene	ND	52	26
Indeno(1,2,3-cd)pyrene	ND	52	26
Naphthalene	ND	52	26
Phenanthrene	ND	52	26
Pyrene	28J	52	26
2-Methylnaphthalene	ND	52	26
1-Methylnaphthalene	ND	52	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	335	699	48	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.03g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 14:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: B10-10	Date Analyzed:	04/25/18 18:40
Lab Samp ID:	18D138-16	Dilution Factor:	1
Lab File ID:	RDJ572	Matrix:	SOIL
Ext Btch ID:	18SVD032S	% Moisture:	16.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.0	3.0
Acenaphthylene	ND	6.0	3.0
Anthracene	ND	6.0	3.0
Benzo(a)anthracene	ND	6.0	3.0
Benzo(a)pyrene	ND	6.0	3.0
Benzo(b)fluoranthene	ND	6.0	3.0
Benzo(k)fluoranthene	ND	6.0	3.0
Benzo(g,h,i)perylene	ND	6.0	3.0
Chrysene	ND	6.0	3.0
Dibenzo(a,h)anthracene	ND	6.0	3.0
Fluoranthene	ND	6.0	3.0
Fluorene	ND	6.0	3.0
Indeno(1,2,3-cd)pyrene	ND	6.0	3.0
Naphthalene	ND	6.0	3.0
Phenanthrene	ND	6.0	3.0
Pyrene	ND	6.0	3.0
2-Methylnaphthalene	ND	6.0	3.0
1-Methylnaphthalene	ND	6.0	3.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	690	801	86	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

QC SUMMARIES

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/20/18 13:55
Project	: POLA-1500 I STREET	Date Received:	04/20/18
Batch No.	: 18D138	Date Extracted:	04/20/18 13:55
Sample ID	: MBLK1S	Date Analyzed:	04/26/18 10:14
Lab Samp ID	: SVD032SB	Dilution Factor:	1
Lab File ID	: RDJ581	Matrix:	SOIL
Ext Btch ID	: 18SVD032S	% Moisture:	NA
Calib. Ref.	: RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.0	2.5
Acenaphthylene	ND	5.0	2.5
Anthracene	ND	5.0	2.5
Benzo(a)anthracene	ND	5.0	2.5
Benzo(a)pyrene	ND	5.0	2.5
Benzo(b)fluoranthene	ND	5.0	2.5
Benzo(k)fluoranthene	ND	5.0	2.5
Benzo(g,h,i)perylene	ND	5.0	2.5
Chrysene	ND	5.0	2.5
Dibenzo(a,h)anthracene	ND	5.0	2.5
Fluoranthene	ND	5.0	2.5
Fluorene	ND	5.0	2.5
Indeno(1,2,3-cd)pyrene	ND	5.0	2.5
Naphthalene	ND	5.0	2.5
Phenanthrene	ND	5.0	2.5
Pyrene	ND	5.0	2.5
2-Methylnaphthalene	ND	5.0	2.5
1-Methylnaphthalene	ND	5.0	2.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	689	667	103	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: SVD032SB	SVD032SL	SVD032SC
LAB FILE ID	: RDJ581	RDJ582	RDJ583
DATE PREPARED	: 04/20/18 13:55	04/20/18 13:55	04/20/18 13:55
DATE ANALYZED	: 04/26/18 10:14	04/26/18 10:33	04/26/18 10:51
PREP BATCH	: 18SVD032S	18SVD032S	18SVD032S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	MBResult (ug/kg)	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1330	1170	88	1330	1210	91	3	45-110	30
Acenaphthylene	ND	1330	1290	97	1330	1330	100	3	45-105	30
Anthracene	ND	1330	1170	88	1330	1200	90	3	55-105	30
Benzo(a)anthracene	ND	1330	1370	103	1330	1420	107	4	50-110	30
Benzo(a)pyrene	ND	1330	1300	98	1330	1340	101	3	50-110	30
Benzo(b)fluoranthene	ND	1330	1270	95	1330	1230	92	3	45-115	30
Benzo(k)fluoranthene	ND	1330	1230	92	1330	1340	101	9	45-125	30
Benzo(g,h,i)perylene	ND	1330	1310	98	1330	1580	119	19	40-125	30
Chrysene	ND	1330	1410	106	1330	1420	107	1	55-110	30
Dibenzo(a,h)anthracene	ND	1330	1350	101	1330	1640	123	19	40-125	30
Fluoranthene	ND	1330	1300	98	1330	1320	99	2	55-115	30
Fluorene	ND	1330	1240	93	1330	1280	96	3	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1330	1360	102	1330	1640	123*	19	40-120	30
Naphthalene	ND	1330	998	75	1330	1000	75	0	40-105	30
Phenanthrene	ND	1330	1110	83	1330	1130	85	2	50-110	30
Pyrene	ND	1330	1290	97	1330	1320	99	2	45-125	30
2-Methylnaphthalene	ND	1330	1020	77	1330	1040	78	2	45-105	30
1-Methylnaphthalene	ND	1330	1040	78	1330	1050	79	1	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	667	721	108	667	702	105	30-125

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two (2) water samples were received on 04/17/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5030B/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VG39D07B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VG39D07L/VG39D07C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Discrete peak(s) found in samples were not included.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D138
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	VG39D07L	1	NA	04/19/1805:02	04/19/1805:02	ED18028A	ED18027A	VG39D0	Lab Control Sample (LCS)
LCD1W	VG39D07C	1	NA	04/19/1805:40	04/19/1805:40	ED18029A	ED18027A	VG39D0	LCS Duplicate
MBLK1W	VG39D07B	1	NA	04/19/1806:19	04/19/1806:19	ED18030A	ED18027A	VG39D0	Method Blank
B14	18D138-07	1	NA	04/19/1807:35	04/19/1807:35	ED18032A	ED18027A	VG39D0	Field Sample
B7	18D138-17	1	NA	04/19/1808:14	04/19/1808:14	ED18033A	ED18027A	VG39D0	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 14:15
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/19/18 07:35
Sample ID	: B14	Date Analyzed:	04/19/18 07:35
Lab Samp ID:	18D138-07	Dilution Factor:	1
Lab File ID:	ED18032A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED18027A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0315	0.0400	79	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume	: 5.0ML
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 13:38
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/19/18 08:14
Sample ID	: B7	Date Analyzed:	04/19/18 08:14
Lab Samp ID:	18D138-17	Dilution Factor:	1
Lab File ID:	ED18033A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED18027A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0309	0.0400	77	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume	: 5.0ML
Prepared by	: SCerva	Analyzed by	: SCerva

QC SUMMARIES

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/19/18 06:19
Project	: POLA-1500 I STREET	Date Received:	04/19/18
Batch No.	: 18D138	Date Extracted:	04/19/18 06:19
Sample ID	: MBLK1W	Date Analyzed:	04/19/18 06:19
Lab Samp ID:	VG39D07B	Dilution Factor:	1
Lab File ID:	ED18030A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED18027A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0326	0.0400	82	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume	: 5.0ML
Prepared by	: SCerva	Analyzed by	: SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : SW5030B/SW8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VG39D07B	VG39D07L	VG39D07C
LAB FILE ID	: ED18030A	ED18028A	ED18029A
DATE PREPARED	: 04/19/18 06:19	04/19/18 05:02	04/19/18 05:40
DATE ANALYZED	: 04/19/18 06:19	04/19/18 05:02	04/19/18 05:40
PREP BATCH	: VG39D0	VG39D0	VG39D0
CALIBRATION REF	: ED18027A	ED18027A	ED18027A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.439	88	0.500	0.448	90	2	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0391	98	0.0400	0.0394	99	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD008SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD008SL/GMD008SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in D138-14M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMD008SB	1	NA	04/23/1813:58	04/23/1813:58	ED23006A	ED23003A	GMD008S	Method Blank
LCS1S	GMD008SL	1	NA	04/23/1812:40	04/23/1812:40	ED23004A	ED23003A	GMD008S	Lab Control Sample (LCS)
LCD1S	GMD008SC	1	NA	04/23/1813:19	04/23/1813:19	ED23005A	ED23003A	GMD008S	LCS Duplicate
B7-0.5	D138-08I	0.98	4.7	04/23/1814:37	04/23/1814:37	ED23007A	ED23003A	GMD008S	Diluted Sample
B7-2	D138-09I	0.90	11.0	04/23/1815:16	04/23/1815:16	ED23008A	ED23003A	GMD008S	Diluted Sample
B15-10	D138-10I	0.95	12.9	04/23/1815:55	04/23/1815:55	ED23009A	ED23003A	GMD008S	Diluted Sample
B9-5	D138-11I	0.71	14.1	04/23/1816:35	04/23/1816:35	ED23010A	ED23003A	GMD008S	Diluted Sample
B9-10	D138-12I	0.81	18.5	04/23/1817:14	04/23/1817:14	ED23011A	ED23003A	GMD008S	Diluted Sample
B10-0.5	D138-13I	0.94	1.9	04/23/1817:53	04/23/1817:53	ED23012A	ED23003A	GMD008S	Diluted Sample
B10-2	D138-14I	0.88	2.4	04/23/1818:31	04/23/1818:31	ED23013A	ED23003A	GMD008S	Diluted Sample
B10-2MS	D138-14M	0.88	2.4	04/23/1819:10	04/23/1819:10	ED23014A	ED23003A	GMD008S	Matrix Spike Sample (MS)
B10-2MSD	D138-14S	0.88	2.4	04/23/1819:49	04/23/1819:49	ED23015A	ED23003A	GMD008S	MS Duplicate (MSD)
B10-5	D138-15I	0.94	4.6	04/23/1821:06	04/23/1821:06	ED23017A	ED23016A	GMD008S	Diluted Sample
B10-10	D138-16I	0.83	16.8	04/23/1821:44	04/23/1821:44	ED23018A	ED23016A	GMD008S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 14:37
Sample ID: B7-0.5	Date Analyzed: 04/23/18 14:37
Lab Samp ID: D138-08I	Dilution Factor: 0.98
Lab File ID: ED23007A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 4.7
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.70	2.057	82.7	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 15:16
Sample ID: B7-2	Date Analyzed: 04/23/18 15:16
Lab Samp ID: D138-09I	Dilution Factor: 0.90
Lab File ID: ED23008A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 11.0
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.57	2.022	77.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 15:55
Sample ID: B15-10	Date Analyzed: 04/23/18 15:55
Lab Samp ID: D138-10I	Dilution Factor: 0.95
Lab File ID: ED23009A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 12.9
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.74	2.181	79.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 16:35
Sample ID: B9-5	Date Analyzed: 04/23/18 16:35
Lab Samp ID: D138-11I	Dilution Factor: 0.71
Lab File ID: ED23010A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 14.1
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.83	0.41

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.33	1.653	80.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 17:14
Sample ID: B9-10	Date Analyzed: 04/23/18 17:14
Lab Samp ID: D138-12I	Dilution Factor: 0.81
Lab File ID: ED23011A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 18.5
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.99	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.61	1.988	81.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 17:53
Sample ID: B10-0.5	Date Analyzed: 04/23/18 17:53
Lab Samp ID: D138-13I	Dilution Factor: 0.94
Lab File ID: ED23012A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 1.9
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.96	0.48

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.58	1.916	82.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 18:31
Sample ID: B10-2	Date Analyzed: 04/23/18 18:31
Lab Samp ID: D138-14I	Dilution Factor: 0.88
Lab File ID: ED23013A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 2.4
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.90	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.50	1.803	83.1	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 21:06
Sample ID:	B10-5	Date Analyzed:	04/23/18 21:06
Lab Samp ID:	D138-15I	Dilution Factor:	0.94
Lab File ID:	ED23017A	Matrix :	SOIL
Ext Btch ID:	GMD008S	% Moisture :	4.6
Calib. Ref.:	ED23016A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.99	0.49

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.54	1.971	78.3	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/23/18 21:44
Sample ID: B10-10	Date Analyzed: 04/23/18 21:44
Lab Samp ID: D138-16I	Dilution Factor: 0.83
Lab File ID: ED23018A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : 16.8
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.54	1.995	77.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D138	Date Extracted: 04/23/18 13:58
Sample ID: MBLK1S	Date Analyzed: 04/23/18 13:58
Lab Samp ID: GMD008SB	Dilution Factor: 1
Lab File ID: ED23006A	Matrix : SOIL
Ext Btch ID: GMD008S	% Moisture : NA
Calib. Ref.: ED23003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.83	2.000	91.4	70-140

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	GMD008SB	GMD008SL	GMD008SC		
LAB FILE ID:	ED23006A	ED23004A	ED23005A		
DATE EXTRACTED:	04/23/1813:58	04/23/1812:40	04/23/1813:19	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1813:58	04/23/1812:40	04/23/1813:19	DATE RECEIVED:	04/23/18
PREP. BATCH:	GMD008S	GMD008S	GMD008S		
CALIB. REF:	ED23003A	ED23003A	ED23003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	25.0	24.8	99	25.0	24.5	98	1	60-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.12	106	2.00	2.11	106	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	2.4
DILUTION FACTOR:	0.88	0.88	0.88		
SAMPLE ID:	B10-2				
LAB SAMP ID:	D138-14I	D138-14M	D138-14S		
LAB FILE ID:	ED23013A	ED23014A	ED23015A		
DATE EXTRACTED:	04/23/1818:31	04/23/1819:10	04/23/1819:49	DATE COLLECTED:	04/17/18
DATE ANALYZED:	04/23/1818:31	04/23/1819:10	04/23/1819:49	DATE RECEIVED:	04/17/18
PREP. BATCH:	GMD008S	GMD008S	GMD008S		
CALIB. REF:	ED23003A	ED23003A	ED23003A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	22.5	19.6	87	22.5	19.9	88	2	10-160	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	1.80	1.78	99	1.80	1.79	99	10-160

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two (2) water samples were received on 04/17/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD021WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD021WL/DSD021WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for Hexacosane in D138-17; most likely due to matrix interference, however, the alternate surrogate, Bromobenzene, was within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

Samples D138-07 and D138-17 displayed mixed fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSD021WB	1	NA	04/24/1812:48	04/23/1813:15	LD24008A	LD24004A	18DSD021W	Method Blank
LCS1W	DSD021WL	1	NA	04/24/1813:04	04/23/1813:15	LD24009A	LD24004A	18DSD021W	Lab Control Sample (LCS)
LCD1W	DSD021WC	1	NA	04/24/1814:03	04/23/1813:15	LD24010A	LD24004A	18DSD021W	LCS Duplicate
B14	D138-07	1	NA	04/24/1818:48	04/23/1813:15	LD24027A	LD24022A	18DSD021W	Field Sample
B7	D138-17	1	NA	04/24/1819:05	04/23/1813:15	LD24028A	LD24022A	18DSD021W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 14:15
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 13:15
Sample ID	: B14	Date Analyzed:	04/24/18 18:48
Lab Samp ID:	18D138-07	Dilution Factor:	1
Lab File ID:	LD24027A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	0.52	0.52	0.10
Motor Oil	0.79	0.52	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.616	1.04	59	50-130
Hexacosane	0.214	0.260	82	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 480ml	Final Volume	: 5ml
Prepared by	: KValer	Analyzed by	: SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:38
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 13:15
Sample ID	: B7	Date Analyzed:	04/24/18 19:05
Lab Samp ID:	18D138-17	Dilution Factor:	1
Lab File ID:	LD24028A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	0.73	0.50	0.10
Motor Oil	1.2	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.795	1.00	80	50-130
Hexacosane	0.489	0.250	196*	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 500ml	Final Volume :	5ml
Prepared by	: KValer	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D138	Date Extracted:	04/23/18 13:15
Sample ID	: MBLK1W	Date Analyzed:	04/24/18 12:48
Lab Samp ID:	DSD021WB	Dilution Factor:	1
Lab File ID:	LD24008A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24004A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.50	0.10
Motor Oil	ND	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.957	1.00	96	50-130
Hexacosane	0.259	0.250	104	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1000ml	Final Volume :	10ml
Prepared by	: KValer	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSD021WB	DSD021WL	DSD021WC
LAB FILE ID	: LD24008A	LD24009A	LD24010A
DATE PREPARED	: 04/23/18 13:15	04/23/18 13:15	04/23/18 13:15
DATE ANALYZED	: 04/24/18 12:48	04/24/18 13:04	04/24/18 14:03
PREP BATCH	: 18DSD021W	18DSD021W	18DSD021W
CALIBRATION REF	: LD24004A	LD24004A	LD24004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	5.00	4.84	97	5.00	4.66	93	4	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	1.00	1.01	101	1.00	0.986	99	50-130
Hexacosane	0.250	0.252	101	0.250	0.243	97	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of fourteen (14) soil samples were received on 04/17/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD020SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD020SL/DSD020SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in D138-09M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D138-01I, -10, -13, -14 and -15I displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD020SB	1	NA	04/24/1802:49	04/23/1814:30	LD23047A	LD23045A	18DSD020S	Method Blank
LCS1S	DSD020SL	1	NA	04/24/1803:05	04/23/1814:30	LD23048A	LD23045A	18DSD020S	Lab Control Sample (LCS)
LCD1S	DSD020SC	1	NA	04/24/1803:22	04/23/1814:30	LD23049A	LD23045A	18DSD020S	LCS Duplicate
B1-0.5	D138-01I	5	4.9	04/24/1803:39	04/23/1814:30	LD23050A	LD23045A	18DSD020S	Diluted Sample
B1-2	D138-02	1	11.7	04/24/1803:55	04/23/1814:30	LD23051A	LD23045A	18DSD020S	Field Sample
B1-5	D138-03	1	13.7	04/24/1804:12	04/23/1814:30	LD23052A	LD23045A	18DSD020S	Field Sample
B1-10	D138-04	1	20.0	04/24/1804:29	04/23/1814:30	LD23053A	LD23045A	18DSD020S	Field Sample
B1-15	D138-06	1	13.8	04/24/1804:45	04/23/1814:30	LD23054A	LD23045A	18DSD020S	Field Sample
B7-0.5	D138-08	1	4.7	04/24/1805:02	04/23/1814:30	LD23055A	LD23045A	18DSD020S	Field Sample
B7-2	D138-09	1	11.0	04/24/1805:18	04/23/1814:30	LD23056A	LD23045A	18DSD020S	Field Sample
B7-2MS	D138-09M	1	11.0	04/24/1805:35	04/23/1814:30	LD23057A	LD23045A	18DSD020S	Matrix Spike Sample (MS)
B7-2MSD	D138-09S	1	11.0	04/24/1805:52	04/23/1814:30	LD23058A	LD23045A	18DSD020S	MS Duplicate (MSD)
B15-10	D138-10	1	12.9	04/24/1806:08	04/23/1814:30	LD23059A	LD23045A	18DSD020S	Field Sample
B9-5	D138-11	1	14.1	04/24/1807:14	04/23/1814:30	LD23063A	LD23045A	18DSD020S	Field Sample
B9-10	D138-12	1	18.5	04/24/1807:31	04/23/1814:30	LD23064A	LD23045A	18DSD020S	Field Sample
B10-0.5	D138-13	1	1.9	04/24/1807:47	04/23/1814:30	LD23065A	LD23045A	18DSD020S	Field Sample
B10-2	D138-14	1	2.4	04/24/1808:04	04/23/1814:30	LD23066A	LD23045A	18DSD020S	Field Sample
B10-5	D138-15I	5	4.6	04/24/1808:21	04/23/1814:30	LD23067A	LD23045A	18DSD020S	Diluted Sample
B10-10	D138-16	1	16.8	04/24/1808:37	04/23/1814:30	LD23068A	LD23045A	18DSD020S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-0.5	Date Analyzed:	04/24/18 03:39
Lab Samp ID:	18D138-01I	Dilution Factor:	5
Lab File ID:	LD23050A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	4.9
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	46J	53	26
Motor Oil	590	110	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	101	105	96	50-130
Hexacosane	28.2	26.3	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:25
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-2	Date Analyzed:	04/24/18 03:55
Lab Samp ID:	18D138-02	Dilution Factor:	1
Lab File ID:	LD23051A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	11.7
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	113	93	50-130
Hexacosane	29.1	28.3	103	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:40
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-5	Date Analyzed:	04/24/18 04:12
Lab Samp ID:	18D138-03	Dilution Factor:	1
Lab File ID:	LD23052A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	13.7
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	109	116	94	50-130
Hexacosane	30.3	29.0	105	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:50
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-10	Date Analyzed:	04/24/18 04:29
Lab Samp ID:	18D138-04	Dilution Factor:	1
Lab File ID:	LD23053A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	20.0
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	6.2
Motor Oil	ND	25	6.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	123	125	98	50-130
Hexacosane	34.6	31.3	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 07:58
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B1-15	Date Analyzed:	04/24/18 04:45
Lab Samp ID:	18D138-06	Dilution Factor:	1
Lab File ID:	LD23054A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	13.8
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	112	116	97	50-130
Hexacosane	30.0	29.0	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.05g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 08:39
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B7-0.5	Date Analyzed:	04/24/18 05:02
Lab Samp ID:	18D138-08	Dilution Factor:	1
Lab File ID:	LD23055A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	4.7
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.2
Motor Oil	ND	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	98.7	105	94	50-130
Hexacosane	27.2	26.2	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 08:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B7-2	Date Analyzed:	04/24/18 05:18
Lab Samp ID:	18D138-09	Dilution Factor:	1
Lab File ID:	LD23056A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	11.0
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.6
Motor Oil	ND	22	5.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	113	112	100	50-130
Hexacosane	31.3	28.1	112	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:11
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B15-10	Date Analyzed:	04/24/18 06:08
Lab Samp ID:	18D138-10	Dilution Factor:	1
Lab File ID:	LD23059A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	12.9
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	37	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	118	115	103	50-130
Hexacosane	31.8	28.7	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:10
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B9-5	Date Analyzed:	04/24/18 07:14
Lab Samp ID:	18D138-11	Dilution Factor:	1
Lab File ID:	LD23063A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	14.1
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	115	116	99	50-130
Hexacosane	32.4	29.1	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B9-10	Date Analyzed:	04/24/18 07:31
Lab Samp ID:	18D138-12	Dilution Factor:	1
Lab File ID:	LD23064A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	18.5
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	6.1
Motor Oil	ND	25	6.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	123	123	100	50-130
Hexacosane	34.2	30.7	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:42
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-0.5	Date Analyzed:	04/24/18 07:47
Lab Samp ID:	18D138-13	Dilution Factor:	1
Lab File ID:	LD23065A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	1.9
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	8.9J	10	5.1
Motor Oil	160	20	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	102	102	50-130
Hexacosane	29.7	25.5	116	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:45
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-2	Date Analyzed:	04/24/18 08:04
Lab Samp ID:	18D138-14	Dilution Factor:	1
Lab File ID:	LD23066A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	2.4
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	12	10	5.1
Motor Oil	170	20	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	102	102	50-130
Hexacosane	29.3	25.6	114	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 14:00
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-5	Date Analyzed:	04/24/18 08:21
Lab Samp ID:	18D138-15I	Dilution Factor:	5
Lab File ID:	LD23067A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	4.6
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	180	52	26
Motor Oil	2000	100	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	101	105	96	50-130
Hexacosane	30.2	26.2	115	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: TWangc/JV	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 14:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: B10-10	Date Analyzed:	04/24/18 08:37
Lab Samp ID	: 18D138-16	Dilution Factor:	1
Lab File ID	: LD23068A	Matrix:	SOIL
Ext Btch ID	: 18DSD020S	% Moisture:	16.8
Calib. Ref.	: LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	6.0
Motor Oil	ND	24	6.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	117	120	98	50-130
Hexacosane	33.0	30.0	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 14:30
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D138	Date Extracted:	04/23/18 14:30
Sample ID	: MBLK1S	Date Analyzed:	04/24/18 02:49
Lab Samp ID:	DSD020SB	Dilution Factor:	1
Lab File ID:	LD23047A	Matrix:	SOIL
Ext Btch ID:	18DSD020S	% Moisture:	NA
Calib. Ref.:	LD23045A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	100	105	50-130
Hexacosane	29.1	25.0	116	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc/JV	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: DSD020SB	DSD020SL	DSD020SC
LAB FILE ID	: LD23047A	LD23048A	LD23049A
DATE PREPARED	: 04/23/18 14:30	04/23/18 14:30	04/23/18 14:30
DATE ANALYZED	: 04/24/18 02:49	04/24/18 03:05	04/24/18 03:22
PREP BATCH	: 18DSD020S	18DSD020S	18DSD020S
CALIBRATION REF	: LD23045A	LD23045A	LD23045A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	573	115	500	545	109	5	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	112	112	100	103	103	50-130
Hexacosane	25.0	30.4	122	25.0	29.0	116	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:11.0
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-2	B7-2MS	B7-2MSD
LAB SAMPLE ID	: 18D138-09	18D138-09M	18D138-09S
LAB FILE ID	: LD23056A	LD23057A	LD23058A
DATE PREPARED	: 04/23/18 14:30	04/23/18 14:30	04/23/18 14:30
DATE ANALYZED	: 04/24/18 05:18	04/24/18 05:35	04/24/18 05:52
PREP BATCH	: 18DSD020S	18DSD020S	18DSD020S
CALIBRATION REF	: LD23045A	LD23045A	LD23045A

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	562	559	100	562	528	94	6	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	QCLimit (%)
Bromobenzene	112	106	94	112	109	97	50-130
Hexacosane	28.1	30.6	109	28.1	29.2	104	40-160

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD SW3550B/SW8082
PCBS

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. D138-14M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B7-0.5	D138-08	1	4.7	04/23/1821:53	04/20/1815:05	KD23015A	KD23005A	CPD016S	Field Sample
B7-2	D138-09	1	11.0	04/23/1822:13	04/20/1815:05	KD23016A	KD23005A	CPD016S	Field Sample
B15-10	D138-10	1	12.9	04/23/1822:33	04/20/1815:05	KD23017A	KD23005A	CPD016S	Field Sample
B9-5	D138-11	1	14.1	04/23/1822:54	04/20/1815:05	KD23018A	KD23005A	CPD016S	Field Sample
B9-10	D138-12	1	18.5	04/23/1823:14	04/20/1815:05	KD23019A	KD23005A	CPD016S	Field Sample
B10-0.5	D138-13	1	1.9	04/24/1800:34	04/20/1815:05	KD23023A	KD23021A	CPD016S	Field Sample
B10-2	D138-14	1	2.4	04/24/1800:54	04/20/1815:05	KD23024A	KD23021A	CPD016S	Field Sample
B10-2MS	D138-14M	1	2.4	04/24/1801:15	04/20/1815:05	KD23025A	KD23021A	CPD016S	Matrix Spike Sample (MS)
B10-2MSD	D138-14S	1	2.4	04/24/1801:35	04/20/1815:05	KD23026A	KD23021A	CPD016S	MS Duplicate (MSD)
B10-5	D138-15	1	4.6	04/24/1801:55	04/20/1815:05	KD23027A	KD23021A	CPD016S	Field Sample
B10-10	D138-16	1	16.8	04/24/1802:15	04/20/1815:05	KD23028A	KD23021A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 15:05
Sample ID:	B7-0.5	Date Analyzed:	04/23/18 21:53
Lab Samp ID:	D138-08	Dilution Factor:	1
Lab File ID:	KD23015A	Matrix :	SOIL
Ext Btch ID:	CPD016S	% Moisture :	4.7
Calib. Ref.:	KD23005A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)		RL (ug/kg)	MDL (ug/kg)	
PCB-1016	(ND)	ND	52	18	18
PCB-1221	(ND)	ND	52	18	18
PCB-1232	(ND)	ND	52	18	18
PCB-1242	(ND)	ND	52	18	18
PCB-1248	(ND)	ND	52	18	18
PCB-1254	(ND)	ND	52	18	18
PCB-1260	(ND)	ND	52	18	18

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	(11.39)	10.51	13.99	(81.4)	75.1	50-130
DECACHLOROBIPHENYL	(20.04)	13.33	13.99	(143)	95.3	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B7-2	Date Analyzed	: 04/23/18 22:13
Lab Samp ID	: D138-09	Dilution Factor	: 1
Lab File ID	: KD23016A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 11.0
Calib. Ref.	: KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	56	19 | 19
PCB-1221	(ND) | ND	56	19 | 19
PCB-1232	(ND) | ND	56	19 | 19
PCB-1242	(ND) | ND	56	19 | 19
PCB-1248	(ND) | ND	56	19 | 19
PCB-1254	(ND) | ND	56	19 | 19
PCB-1260	(ND) | ND	56	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.55) | 13.19	14.98	(90.5) | 88.1	50-130
DECACHLOROBIPHENYL	(15.23) | 13.72	14.98	(102) | 91.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B15-10	Date Analyzed	: 04/23/18 22:33
Lab Samp ID	: D138-10	Dilution Factor	: 1
Lab File ID	: KD23017A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 12.9
Calib. Ref.	: KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(14.61) | 14.52	15.30	(95.4) | 94.9	50-130
DECACHLOROBIPHENYL	(16.90) | 15.60	15.30	(110) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D138	Date Extracted:	04/20/18 15:05
Sample ID:	B9-5	Date Analyzed:	04/23/18 22:54
Lab Samp ID:	D138-11	Dilution Factor:	1
Lab File ID:	KD23018A	Matrix	: SOIL
Ext Btch ID:	CPD016S	% Moisture	: 14.1
Calib. Ref.:	KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	19 | 19
PCB-1221	(ND) | ND	58	19 | 19
PCB-1232	(ND) | ND	58	19 | 19
PCB-1242	(ND) | ND	58	19 | 19
PCB-1248	(ND) | ND	58	19 | 19
PCB-1254	(ND) | ND	58	19 | 19
PCB-1260	(ND) | ND	58	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.75 | (14.95)	15.52	95.1 | (96.3)	50-130
DECACHLOROBIPHENYL	(18.25) | 15.10	15.52	(118) | 97.3	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B9-10	Date Analyzed	: 04/23/18 23:14
Lab Samp ID	: D138-12	Dilution Factor	: 1
Lab File ID	: KD23019A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 18.5
Calib. Ref.:	KD23005A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	61	20 | 20
PCB-1221	(ND) | ND	61	20 | 20
PCB-1232	(ND) | ND	61	20 | 20
PCB-1242	(ND) | ND	61	20 | 20
PCB-1248	(ND) | ND	61	20 | 20
PCB-1254	(ND) | ND	61	20 | 20
PCB-1260	(ND) | ND	61	20 | 20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	16.27 | (16.95)	16.36	99.5 | (104)	50-130
DECACHLOROBIPHENYL	(19.70) | 16.56	16.36	(120) | 101	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 15:05
Sample ID: B10-0.5	Date Analyzed: 04/24/18 00:34
Lab Samp ID: D138-13	Dilution Factor: 1
Lab File ID: KD23023A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 1.9
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(85) | 95	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.40 | (13.88)	13.59	98.6 | (102)	50-130
DECACHLOROBIPHENYL	(14.65) | 14.14	13.59	(108) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D138	Date Extracted: 04/20/18 15:05
Sample ID: B10-2	Date Analyzed: 04/24/18 00:54
Lab Samp ID: D138-14	Dilution Factor: 1
Lab File ID: KD23024A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 2.4
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(52) | 74	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.42 | (13.54)	13.66	98.2 | (99.1)	50-130
DECACHLOROBIPHENYL	(17.57) | 14.22	13.66	(129) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B10-5	Date Analyzed	: 04/24/18 01:55
Lab Samp ID	: D138-15	Dilution Factor	: 1
Lab File ID	: KD23027A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 4.6
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	18 | 18
PCB-1221	(ND) | ND	52	18 | 18
PCB-1232	(ND) | ND	52	18 | 18
PCB-1242	(ND) | ND	52	18 | 18
PCB-1248	(ND) | ND	52	18 | 18
PCB-1254	(ND) | ND	52	18 | 18
PCB-1260	25J | (34J)	52	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.63 | (12.70)	13.97	90.4 | (90.9)	50-130
DECACHLOROBIPHENYL	(15.17) | 12.89	13.97	(109) | 92.3	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: B10-10	Date Analyzed	: 04/24/18 02:15
Lab Samp ID	: D138-16	Dilution Factor	: 1
Lab File ID	: KD23028A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: 16.8
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	60	20 | 20
PCB-1221	(ND) | ND	60	20 | 20
PCB-1232	(ND) | ND	60	20 | 20
PCB-1242	(ND) | ND	60	20 | 20
PCB-1248	(ND) | ND	60	20 | 20
PCB-1254	(ND) | ND	60	20 | 20
PCB-1260	(ND) | ND	60	20 | 20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.54) | 12.47	16.02	(84.5) | 77.8	50-130
DECACHLOROBIPHENYL	(16.66) | 14.99	16.02	(104) | 93.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/20/18
Batch No.	: 18D138	Date Extracted	: 04/20/18 15:05
Sample ID	: MBLK1S	Date Analyzed	: 04/24/18 03:36
Lab Samp ID	: 60D016SB	Dilution Factor	: 1
Lab File ID	: KD23032A	Matrix	: SOIL
Ext Btch ID	: CPD016S	% Moisture	: NA
Calib. Ref.	: KD23021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
 * Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D016SB	60D016SL	60D016SC		
LAB FILE ID:	KD23032A	KD23008A	KD23009A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1803:36	04/23/1819:32	04/23/1819:52	DATE RECEIVED:	04/20/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23005A	KD23005A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	(154)|148	(92)|89	167	(171)|166	(103)|100	(10)|11	70-140	50
PCB-1260	(ND)|ND	167	(180)|150	(108)|90	167	(185)|166	(111)|100	(3)|10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91)|10.98	(89.4)|82.4	13.33	(13.48)|12.98	(101)|97.4	60-130
Decachlorobiphenyl	13.33	(15.50)|13.26	(116)|99.5	13.33	(15.74)|14.20	(118)|107	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D138
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	2.4
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	B10-2				
LAB SAMP ID:	D138-14	D138-14M	D138-14S		
LAB FILE ID:	KD23024A	KD23025A	KD23026A		
DATE EXTRACTED:	04/20/1815:05	04/20/1815:05	04/20/1815:05	DATE COLLECTED:	04/17/18
DATE ANALYZED:	04/24/1800:54	04/24/1801:15	04/24/1801:35	DATE RECEIVED:	04/17/18
PREP. BATCH:	CPD016S	CPD016S	CPD016S		
CALIB. REF:	KD23021A	KD23021A	KD23021A		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	171	188|(216)	110|(126)	171	187|(214)	109|(125)	1|(1)	60-140	50
PCB-1260	(52)|74	171	(233)|222	(106)|87	171	(227)|221	(102)|86	(3)|0	10-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.66	(13.62)|13.29	(99.7)|97.3	13.66	(13.28)|12.97	(97.2)|95.0	50-130
Decachlorobiphenyl	13.66	(16.38)|14.12	(120)|103	13.66	(15.80)|14.03	(116)|103	50-150

* : Outside of QC limits

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METALS / MERCURY

SDG#: 18D138

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD029SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD029SL/IPD029SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD029SB	1.000	NA	04/23/1818:44	04/20/1814:51	ID8D018066	ID8D018064	IPD029S	Method Blank
LCS1S	IPD029SL	1.000	NA	04/23/1818:47	04/20/1814:51	ID8D018067	ID8D018064	IPD029S	Lab Control Sample (LCS)
LCD1S	IPD029SC	1.000	NA	04/23/1818:51	04/20/1814:51	ID8D018068	ID8D018064	IPD029S	LCS Duplicate
B7-0.5	D138-08	1.000	4.7	04/23/1821:36	04/20/1814:51	ID8D018112	ID8D018110	IPD029S	Field Sample
B7-2	D138-09	1.000	11.0	04/23/1821:39	04/20/1814:51	ID8D018113	ID8D018110	IPD029S	Field Sample
B15-10	D138-10	1.000	12.9	04/23/1821:43	04/20/1814:51	ID8D018114	ID8D018110	IPD029S	Field Sample
B9-5	D138-11	1.000	14.1	04/23/1821:47	04/20/1814:51	ID8D018115	ID8D018110	IPD029S	Field Sample
B9-10	D138-12	1.000	18.5	04/23/1821:51	04/20/1814:51	ID8D018116	ID8D018110	IPD029S	Field Sample
B10-0.5	D138-13	1.000	1.9	04/23/1821:54	04/20/1814:51	ID8D018117	ID8D018110	IPD029S	Field Sample
B10-2	D138-14	1.000	2.4	04/23/1821:58	04/20/1814:51	ID8D018118	ID8D018110	IPD029S	Field Sample
B10-5	D138-15	1.000	4.6	04/23/1822:02	04/20/1814:51	ID8D018119	ID8D018110	IPD029S	Field Sample
B10-10	D138-16	1.000	16.8	04/23/1822:06	04/20/1814:51	ID8D018120	ID8D018110	IPD029S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 08:39
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B7-0.5	Date Analyzed: 04/23/18 21:36
Lab Samp ID: D138-08	Dilution Factor: 1
Lab File ID: ID8D018112	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 4.7
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	7.17	1.01	0.404
Barium	181	1.01	0.202
Beryllium	0.594J	1.01	0.202
Cadmium	0.184J	1.01	0.101
Chromium	31.0	1.01	0.202
Cobalt	13.3	1.01	0.202
Copper	30.6	1.01	0.202
Lead	15.4	1.01	0.202
Molybdenum	0.752J	5.05	0.505
Nickel	21.4	1.01	0.202
Selenium	1.36	1.01	0.505
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.505
Vanadium	50.0	1.01	0.505
Zinc	100	2.02	1.01

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.038g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 08:44
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B7-2	Date Analyzed: 04/23/18 21:39
Lab Samp ID: D138-09	Dilution Factor: 1
Lab File ID: ID8D018113	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 11.0
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	1.09
Arsenic	10.6	1.09	0.434
Barium	203	1.09	0.217
Beryllium	0.848J	1.09	0.217
Cadmium	ND	1.09	0.109
Chromium	40.7	1.09	0.217
Cobalt	16.5	1.09	0.217
Copper	27.2	1.09	0.217
Lead	10.2	1.09	0.217
Molybdenum	ND	5.43	0.543
Nickel	27.0	1.09	0.217
Selenium	1.77	1.09	0.543
Silver	ND	1.09	0.271
Thallium	ND	1.09	0.543
Vanadium	66.5	1.09	0.543
Zinc	76.3	2.17	1.09

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.035g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 11:11
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B15-10	Date Analyzed: 04/23/18 21:43
Lab Samp ID: D138-10	Dilution Factor: 1
Lab File ID: ID8D018114	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 12.9
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	1.08
Arsenic	6.14	1.08	0.432
Barium	61.3	1.08	0.216
Beryllium	0.270J	1.08	0.216
Cadmium	ND	1.08	0.108
Chromium	14.4	1.08	0.216
Cobalt	9.15	1.08	0.216
Copper	10.2	1.08	0.216
Lead	3.83	1.08	0.216
Molybdenum	ND	5.40	0.540
Nickel	10.4	1.08	0.216
Selenium	0.900J	1.08	0.540
Silver	ND	1.08	0.270
Thallium	ND	1.08	0.540
Vanadium	24.0	1.08	0.540
Zinc	31.1	2.16	1.08

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.064g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 13:10
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D138	Date Extracted:	04/20/18 14:51
Sample ID:	B9-5	Date Analyzed:	04/23/18 21:47
Lab Samp ID:	D138-11	Dilution Factor:	1
Lab File ID:	ID8D018115	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	14.1
Calib. Ref.:	ID8D018110	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.5	1.15
Arsenic	10.4	1.15	0.459
Barium	132	1.15	0.229
Beryllium	0.764J	1.15	0.229
Cadmium	ND	1.15	0.115
Chromium	39.0	1.15	0.229
Cobalt	15.9	1.15	0.229
Copper	23.3	1.15	0.229
Lead	8.26	1.15	0.229
Molybdenum	1.20J	5.73	0.573
Nickel	25.2	1.15	0.229
Selenium	2.12	1.15	0.573
Silver	ND	1.15	0.287
Thallium	ND	1.15	0.573
Vanadium	63.9	1.15	0.573
Zinc	58.6	2.29	1.15

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.015g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 13:18
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: 89-10	Date Analyzed: 04/23/18 21:51
Lab Samp ID: D138-12	Dilution Factor: 1
Lab File ID: ID8D018116	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 18.5
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.3	1.13
Arsenic	31.5	1.13	0.453
Barium	230	1.13	0.227
Beryllium	0.755J	1.13	0.227
Cadmium	ND	1.13	0.113
Chromium	39.0	1.13	0.227
Cobalt	16.4	1.13	0.227
Copper	23.9	1.13	0.227
Lead	7.96	1.13	0.227
Molybdenum	ND	5.66	0.566
Nickel	27.6	1.13	0.227
Selenium	1.20	1.13	0.566
Silver	ND	1.13	0.283
Thallium	ND	1.13	0.566
Vanadium	59.2	1.13	0.566
Zinc	67.2	2.27	1.13

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.084g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 13:42
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B10-0.5	Date Analyzed: 04/23/18 21:54
Lab Samp ID: D138-13	Dilution Factor: 1
Lab File ID: ID8D018117	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 1.9
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	9.81	0.981
Arsenic	12.8	0.981	0.392
Barium	219	0.981	0.196
Beryllium	0.380J	0.981	0.196
Cadmium	1.46	0.981	0.0981
Chromium	43.7	0.981	0.196
Cobalt	12.0	0.981	0.196
Copper	477	0.981	0.196
Lead	127	0.981	0.196
Molybdenum	2.48J	4.90	0.490
Nickel	30.6	0.981	0.196
Selenium	1.20	0.981	0.490
Silver	ND	0.981	0.245
Thallium	ND	0.981	0.490
Vanadium	41.5	0.981	0.490
Zinc	399	1.96	0.981

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.04g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 13:45
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D138	Date Extracted:	04/20/18 14:51
Sample ID:	B10-2	Date Analyzed:	04/23/18 21:58
Lab Samp ID:	D13B-14	Dilution Factor:	1
Lab File ID:	ID8D018118	Matrix:	SOIL
Ext Btch ID:	IPD029S	% Moisture:	2.4
Calib. Ref.:	ID8D018110	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	14.3	1.01	0.404
Barium	178	1.01	0.202
Beryllium	0.365J	1.01	0.202
Cadmium	0.696J	1.01	0.101
Chromium	64.3	1.01	0.202
Cobalt	11.9	1.01	0.202
Copper	493	1.01	0.202
Lead	110	1.01	0.202
Molybdenum	3.34J	5.05	0.505
Nickel	33.1	1.01	0.202
Selenium	1.39	1.01	0.505
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.505
Vanadium	43.5	1.01	0.505
Zinc	176	2.02	1.01

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.014g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 14:00
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B10-5	Date Analyzed: 04/23/18 22:02
Lab Samp ID: D138-15	Dilution Factor: 1
Lab File ID: ID8D018119	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 4.6
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	9.99	0.999
Arsenic	7.90	0.999	0.400
Barium	139	0.999	0.200
Beryllium	0.334J	0.999	0.200
Cadmium	0.289J	0.999	0.0999
Chromium	35.7	0.999	0.200
Cobalt	11.9	0.999	0.200
Copper	26.9	0.999	0.200
Lead	45.5	0.999	0.200
Molybdenum	0.998J	4.99	0.499
Nickel	20.3	0.999	0.200
Selenium	1.09	0.999	0.499
Silver	ND	0.999	0.250
Thallium	ND	0.999	0.499
Vanadium	43.5	0.999	0.499
Zinc	96.2	2.00	0.999

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.049g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 14:05
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: B10-10	Date Analyzed: 04/23/18 22:06
Lab Samp ID: D138-16	Dilution Factor: 1
Lab File ID: ID8D018120	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: 16.8
Calib. Ref.: ID8D018110	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.8	1.18
Arsenic	10.5	1.18	0.470
Barium	84.9	1.18	0.235
Beryllium	0.290J	1.18	0.235
Cadmium	0.145J	1.18	0.118
Chromium	15.1	1.18	0.235
Cobalt	7.16	1.18	0.235
Copper	11.3	1.18	0.235
Lead	5.60	1.18	0.235
Molybdenum	ND	5.88	0.588
Nickel	8.88	1.18	0.235
Selenium	0.822J	1.18	0.588
Silver	ND	1.18	0.294
Thallium	ND	1.18	0.588
Vanadium	22.1	1.18	0.588
Zinc	38.9	2.35	1.18

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.022g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: NA
SDG NO. : 18D138	Date Extracted: 04/20/18 14:51
Sample ID: MBLK1S	Date Analyzed: 04/23/18 18:44
Lab Samp ID: IPD029SB	Dilution Factor: 1
Lab File ID: ID8D018066	Matrix: SOIL
Ext Btch ID: IPD029S	% Moisture: NA
Calib. Ref.: ID8D018064	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	1.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.100
Chromium	ND	1.00	0.200
Cobalt	ND	1.00	0.200
Copper	ND	1.00	0.200
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	1.00	0.200
Selenium	ND	1.00	0.500
Silver	ND	1.00	0.250
Thallium	ND	1.00	0.500
Vanadium	ND	1.00	0.500
Zinc	ND	2.00	1.00

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD029SB	IPD029SL	IPD029SC
LAB FILE ID	: ID8D018066	ID8D018067	ID8D018068
DATE PREPARED	: 04/20/18 14:51	04/20/18 14:51	04/20/18 14:51
DATE ANALYZED	: 04/23/18 18:44	04/23/18 18:47	04/23/18 18:51
PREP BATCH	: IPD029S	IPD029S	IPD029S
CALIBRATION REF	: ID8D018064	ID8D018064	ID8D018064

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	250	232	93	250	231	92	0	80-120	20
Arsenic	ND	50	46.6	93	50	45.9	92	2	80-120	20
Barium	ND	50	47.2	94	50	47.0	94	0	80-120	20
Beryllium	ND	50	44.7	89	50	44.6	89	0	80-120	20
Cadmium	ND	50	45.2	90	50	44.6	89	1	80-120	20
Chromium	ND	50	48.4	97	50	48.1	96	1	80-120	20
Cobalt	ND	50	47.6	95	50	47.2	94	1	80-120	20
Copper	ND	50	44.0	88	50	43.7	87	1	80-120	20
Lead	ND	50	46.9	94	50	46.4	93	1	80-120	20
Molybdenum	ND	50	51.7	103	50	51.8	104	0	80-120	20
Nickel	ND	50	47.1	94	50	46.9	94	0	80-120	20
Selenium	ND	50	45.1	90	50	44.4	89	2	80-120	20
Silver	ND	50	43.8	88	50	42.8	86	2	80-120	20
Thallium	ND	50	46.8	94	50	45.9	92	2	80-120	20
Vanadium	ND	50	49.4	99	50	49.3	99	0	80-120	20
Zinc	ND	50	49.7	99	50	49.6	99	0	80-120	20

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D138

METHOD 7471A
MERCURY BY COLD VAPOR

A total of nine (9) soil samples were received on 04/17/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7471A and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD022SB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD022SL/HGD022SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D138
Instrument ID : 47

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD022SB	1	NA	04/23/1817:12	04/23/1813:45	M47D014011	M47D014	18HGD022S	Method Blank
LCS1S	HGD022SL	1	NA	04/23/1817:14	04/23/1813:45	M47D014012	M47D014	18HGD022S	Lab Control Sample (LCS)
LCD1S	HGD022SC	1	NA	04/23/1817:16	04/23/1813:45	M47D014013	M47D014	18HGD022S	LCS Duplicate
B7-0.5	D138-08	1	4.7	04/23/1817:44	04/23/1813:45	M47D014027	M47D014	18HGD022S	Field Sample
B7-2	D138-09	1	11.0	04/23/1817:46	04/23/1813:45	M47D014028	M47D014	18HGD022S	Field Sample
B15-10	D138-10	1	12.9	04/23/1817:49	04/23/1813:45	M47D014029	M47D014	18HGD022S	Field Sample
B9-5	D138-11	1	14.1	04/23/1817:53	04/23/1813:45	M47D014030	M47D014	18HGD022S	Field Sample
B9-10	D138-12	1	18.5	04/23/1817:56	04/23/1813:45	M47D014031	M47D014	18HGD022S	Field Sample
B10-0.5	D138-13	1	1.9	04/23/1817:57	04/23/1813:45	M47D014032	M47D014	18HGD022S	Field Sample
B10-2	D138-14	1	2.4	04/23/1818:04	04/23/1813:45	M47D014035	M47D014	18HGD022S	Field Sample
B10-5	D138-15	1	4.6	04/23/1818:06	04/23/1813:45	M47D014036	M47D014	18HGD022S	Field Sample
B10-10	D138-16	1	16.8	04/23/1818:09	04/23/1813:45	M47D014037	M47D014	18HGD022S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D138

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/Kg)	DILT'N FACTOR	MOIST (%)	RL (mg/Kg)	MDL (mg/Kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGD022SB	ND	1	NA	0.100	0.0200	04/23/1817:12	04/23/1813:45	M47D014011	M47D014	18HGD022S	NA	NA
LCS1S	HGD022SL	0.407	1	NA	0.100	0.0200	04/23/1817:14	04/23/1813:45	M47D014012	M47D014	18HGD022S	NA	NA
LCD1S	HGD022SC	0.412	1	NA	0.100	0.0200	04/23/1817:16	04/23/1813:45	M47D014013	M47D014	18HGD022S	NA	NA
B7-0.5	D138-08	ND	1	4.7	0.102	0.0203	04/23/1817:44	04/23/1813:45	M47D014027	M47D014	18HGD022S	04/17/1808:39	04/17/18
B7-2	D138-09	0.0901J	1	11.0	0.108	0.0215	04/23/1817:46	04/23/1813:45	M47D014028	M47D014	18HGD022S	04/17/1808:44	04/17/18
B15-10	D138-10	ND	1	12.9	0.112	0.0224	04/23/1817:49	04/23/1813:45	M47D014029	M47D014	18HGD022S	04/17/1811:11	04/17/18
B9-5	D138-11	ND	1	14.1	0.115	0.0229	04/23/1817:53	04/23/1813:45	M47D014030	M47D014	18HGD022S	04/17/1813:10	04/17/18
B9-10	D138-12	ND	1	18.5	0.120	0.0240	04/23/1817:56	04/23/1813:45	M47D014031	M47D014	18HGD022S	04/17/1813:18	04/17/18
B10-0.5	D138-13	0.0855J	1	1.9	0.0973	0.0195	04/23/1817:57	04/23/1813:45	M47D014032	M47D014	18HGD022S	04/17/1813:42	04/17/18
B10-2	D138-14	0.184	1	2.4	0.102	0.0204	04/23/1818:04	04/23/1813:45	M47D014035	M47D014	18HGD022S	04/17/1813:45	04/17/18
B10-5	D138-15	0.0704J	1	4.6	0.100	0.0201	04/23/1818:06	04/23/1813:45	M47D014036	M47D014	18HGD022S	04/17/1814:00	04/17/18
B10-10	D138-16	ND	1	16.8	0.113	0.0227	04/23/1818:09	04/23/1813:45	M47D014037	M47D014	18HGD022S	04/17/1814:05	04/17/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: HGD022SB	HGD022SL	HGD022SC
LAB FILE ID	: M47D014011	M47D014012	M47D014013
DATE PREPARED	: 04/23/1813:45	04/23/1813:45	04/23/1813:45
DATE ANALYZED	: 04/23/1817:12	04/23/1817:14	04/23/1817:16
PREP BATCH	: 18HGD022S	18HGD022S	18HGD022S
CALIBRATION REF:	M47D014	M47D014	M47D014

ACCESSION:

PARAMETERS	MBResult (mg/Kg)	SpikeAmt (mg/Kg)	LCSResult (mg/Kg)	LCSRec (%)	SpikeAmt (mg/Kg)	LCDResult (mg/Kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	0.417	0.407	97.6	0.417	0.412	98.8	1	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 13:42
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D138A	Date Extracted:	05/24/18 10:18
Sample ID:	B10-0.5	Date Analyzed:	05/24/18 16:21
Lab Samp ID:	D138-13I	Dilution Factor:	5
Lab File ID:	ID8E019053	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	0.708	0.250	0.0750
Copper	3.06	0.250	0.0750
Lead	6.47	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D138A	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.0100	0.00300
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D138A	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.250	0.0750
Copper	ND	0.250	0.0750
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D138-13I.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019053  D138-13I   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D138A
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Chromium	ND	0.5	0.482	96	0.5	0.487	97	1	80-120	20
Copper	ND	0.5	0.458	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-10-2018
EMAX Batch No.: 18D139

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/17/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B7-5	D139-01	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B7-10	D139-02	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B7-15	D139-03	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-0.5	D139-04	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-2	D139-05	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
B8-2	D139-05	04/17/18	SOIL	TPH DIESEL & MOTOR OIL
				HOLD
B8-5	D139-06	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-10	D139-07	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B9-0.5	D139-08	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B9-2	D139-09	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B8-0.5D	D139-10	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-0.5	D139-11	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-2	D139-12	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY

Sample ID	Control #	Col Date	Matrix	Analysis
B14-2	D139-12	04/17/18	SOIL	PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-5	D139-13	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-10	D139-14	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-15	D139-15	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B15-0.5	D139-16	04/17/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B15-2	D139-17	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B15-5	D139-18	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)

Sample ID	Control #	Col Date	Matrix	Analysis
B15-5	D139-18	04/17/18	SOIL	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B14-2D	D139-19	04/17/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				POLYCHLORINATED BIPHENYLS (PCBS)
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Gaspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D139 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	B7-5		4/17/18	0909	7			SS		X	X					X	X	X	H	
* 2	B7-10		4/17/18	0919	7			SS		X	X					X	X	X	H	
* 3	B7-15		4/17/18	0928	7			SS		X	X					X	X	X	H	
* 4	B8-0.5		4/17/18	1122	4			SS		X						X	X	X	H	
* 5	B8-2		4/17/18	1131	7			SS		X	X					X	X	X	H	
* 6	B8-5		4/17/18	1146	7			SS		X	X					X	X	X	H	
* 7	B8-10		4/17/18	1152	7			SS		X	X					X	X	X	H	
* 8	B9-0.5		4/17/18	1255	4			SS		X						X	X	X	H	
* 9	B9-2		4/17/18	1301	7			SS		X	X					X	X	X	H	
10	B8-0.5D		4/17/18	1124	4			SS		X						X	X	X	H	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	4.4	
3	5.7	
4	5.1	

SAMPLER

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
UCC 2699 Matt M.	4/17/18	3:20	
UCC2699 Matt M.	4/17/18	3:35	

COURIER/AIRBILL

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D139 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	
* 1	~~B13-10~~							SS		X	X					X	X	X	H	CC 4/17/18
* 11	B14-0.5		4/17/18	0941	4			SS		X						X	X	X	H	
* 12	B14-2		4/17/18	0946	7			SS		X	X					X	X	X	H	
* 13	B14-5		4/17/18	1006	7			SS		X	X					X	X	X	H	
* 14	B14-10		4/17/18	1013	7			SS		X	X					X	X	X	H	
15	B14-15		4/17/18	1020	7			SS		X	X					X	X	X	H	
16	B15-0.5		4/17/18	1044	4			SS		X						X	X	X	H	
17	B15-2		4/17/18	1049	7			SS		X	X					X	X	X	H	
18	B15-5		4/17/18	1105	7			SS		X	X					X	X	X	H	
19	B14-2D		4/17/18	0948	7			SS		X	X					X	X	X	H	

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1500	
OCC 2049 Matt M.	4/17/18	3:00	
OCC 2049 Matt M.	4/17/18	3:35	Khurshid Mehta

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D139
☐ Fedex ☐ UPS ☐ GSO ☑ Others All Around Courier		Recipient Isabel
☐ EMAX Courier ☐ Client Delivery		Date 4/17/18 Time 1535

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 4.1 °C	☐ Cooler 2_____ °C	☑ Cooler 3 5.7 °C	☑ Cooler 4 5.1 °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 150555522	*C - S/N* _____	*D - S/N* 150555520	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
7	40	D0		R8
3	20	D1	Mercury not indicated in COC	↓
5	26	D1	Arsenic not in label	R8
9	53	D2	label: TPH	↓
1-9, 11-18	1-14, 15-20, 22-25, 27-57, 62-88, 90-92, 94-109	D10		R8
Added 4/18/18 18	109	D22		

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. n/a 4/18/18 NB 4/18/18

NOTES/OBSERVATIONS:

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in COC/label
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in label
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	Vial is empty
D23	
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling: Isabel Mata Date 4/17/18 4/17/18

SRF _____ Date 4/17/18

PM NB Date 4/18/18

Richard Beauvil

From: Crozier, Carrie [Carrie.Crozier@parsons.com]
Sent: Wednesday, April 18, 2018 10:45 AM
To: Richard Beauvil
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

Hi Richard,
I left a voicemail, please hold PCBs and PAHs sent in from 1517-1520 E I St yesterday 4/17. I will send you a revised list shortly. Any sent in on 4/16 should follow the COC as provided.

Sent from my iPhone

On Apr 17, 2018, at 10:22 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Great! Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> ***EMAX*** is interested in your feedback; please provide your comments to:
> customerservice@emaxlabs.com
>
> *EMAX Holidays Schedule:*
>
> **From:** Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
> **Sent:** Tuesday, April 17, 2018 9:58 AM
> **To:** Richard Beauvil
> **Subject:** Re: 18D132 SAMPLING AT 1500 I STREET
>
> Have have collected jars and will submit them today.
>
> Sent from my iPhone
>
> On Apr 17, 2018, at 9:55 AM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:
>
> > Do you mean, you are not or you are?
> >
> > Richard M. Beauvil
> > Project Manager/Safety Officer
> > 1835 W. 205th Street
> > Torrance, CA 90501
> > Tel: 310-618-8889 X118
> > rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com

EMAX Holidays Schedule:

From: Crozier, Carrie [mailto:Carrie.Crozier@parsons.com]
Sent: Tuesday, April 17, 2018 8:39 AM
To: Richard Beauvil
Subject: Re: 18D132 SAMPLING AT 1500 I STREET

We were able to get jars for samples 1-5, for sample 21, just run VOCs.

Sent from my iPhone

On Apr 16, 2018, at 7:00 PM, Richard Beauvil <RBeauvil@emaxlabs.com> wrote:

> Hi Carrie,
>
> I just got the COC of the "1500 I street". So we got some issues, please see attached. For the TPH for samples 1-5 and 21, we are missing a jar for TPH-D/M. If you don't need Diesel and motor oil, we still need a jar for the percent moisture so we can report your results on dry weight basis. Also it looks like a lot of the labels do not match the containers with the tests description. Let us know how to proceed. Give me a call if you need to talk to me.
>
> Thank you.
>
> Richard M. Beauvil
> Project Manager/Safety Officer
> 1835 W. 205th Street
> Torrance, CA 90501
> Tel: 310-618-8889 X118
> rbeauvil@emaxlabs.com
>
> ***EMAX*** is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com
>
> ***EMAX Holidays Schedule:***
>
> <18D132.pdf>

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or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of fourteen (14) soil samples were received on 04/17/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VSF4D11B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VSF4D11L/VSF4D11C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : F4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VSF4D11B	1	NA	04/19/1811:24	04/19/1811:24	RDN184	RDN081	VSF4D11	Method Blank
LCS1S	VSF4D11L	1	NA	04/19/1809:58	04/19/1809:58	RDN181	RDN081	VSF4D11	Lab Control Sample (LCS)
LCD1S	VSF4D11C	1	NA	04/19/1810:27	04/19/1810:27	RDN182	RDN081	VSF4D11	LCS Duplicate
B15-5	D139-18	0.92	20.8	04/19/1811:53	04/19/1811:53	RDN185	RDN081	VSF4D11	Field Sample
B7-5	D139-01	0.8	12.5	04/19/1812:22	04/19/1812:22	RDN186	RDN081	VSF4D11	Field Sample
B7-10	D139-02	0.9	22.6	04/19/1812:50	04/19/1812:50	RDN187	RDN081	VSF4D11	Field Sample
B7-15	D139-03	0.93	13.5	04/19/1813:18	04/19/1813:18	RDN188	RDN081	VSF4D11	Field Sample
B8-2	D139-05	0.92	12.1	04/19/1813:47	04/19/1813:47	RDN189	RDN081	VSF4D11	Field Sample
B8-5	D139-06	0.87	14.5	04/19/1814:15	04/19/1814:15	RDN190	RDN081	VSF4D11	Field Sample
B8-10	D139-07	0.92	22.4	04/19/1814:43	04/19/1814:43	RDN191	RDN081	VSF4D11	Field Sample
B9-2	D139-09	1.07	4.6	04/19/1815:12	04/19/1815:12	RDN192	RDN081	VSF4D11	Field Sample
B14-2	D139-12	0.89	6.8	04/19/1815:41	04/19/1815:41	RDN193	RDN081	VSF4D11	Field Sample
B14-5	D139-13	0.75	12.0	04/19/1816:09	04/19/1816:09	RDN194	RDN081	VSF4D11	Field Sample
B14-10	D139-14	0.96	11.8	04/19/1816:38	04/19/1816:38	RDN195	RDN081	VSF4D11	Field Sample
B14-15	D139-15	0.91	13.5	04/19/1817:06	04/19/1817:06	RDN196	RDN081	VSF4D11	Field Sample
B15-2	D139-17	0.96	4.6	04/19/1817:35	04/19/1817:35	RDN197	RDN081	VSF4D11	Field Sample
B14-2D	D139-19	0.89	6.4	04/19/1818:03	04/19/1818:03	RDN198	RDN081	VSF4D11	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 12:22
Sample ID: B7-5	Date Analyzed: 04/19/18 12:22
Lab Samp ID: D139-01	Dilution Factor: 0.8
Lab File ID: RDN186	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 12.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.6	0.91
1,1,1-TRICHLOROETHANE	ND	4.6	0.91
1,1,2,2-TETRACHLOROETHANE	ND	4.6	0.91
1,1,2-TRICHLOROETHANE	ND	4.6	0.91
1,1-DICHLOROETHANE	ND	4.6	0.91
1,1-DICHLOROETHENE	ND	4.6	0.91
1,1-DICHLOROPROPENE	ND	4.6	0.91
1,2,3-TRICHLOROBENZENE	ND	4.6	1.8
1,2,3-TRICHLOROPROPANE	ND	4.6	1.8
1,2,4-TRICHLOROBENZENE	ND	4.6	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.6	0.91
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.6	1.8
1,2-DIBROMOETHANE	ND	4.6	0.91
1,2-DICHLOROBENZENE	ND	4.6	0.91
1,2-DICHLOROETHANE	ND	4.6	0.91
1,2-DICHLOROPROPANE	ND	4.6	0.91
1,3,5-TRIMETHYLBENZENE	ND	4.6	0.91
1,3-DICHLOROBENZENE	ND	4.6	0.91
1,3-DICHLOROPROPANE	ND	4.6	0.91
1,4-DICHLOROBENZENE	ND	4.6	0.91
2,2-DICHLOROPROPANE	ND	4.6	1.8
2-BUTANONE	ND	9.1	4.6
2-CHLOROTOLUENE	ND	4.6	0.91
2-HEXANONE	ND	9.1	4.6
4-CHLOROTOLUENE	ND	4.6	0.91
ACETONE	9.8	9.1	4.6
BENZENE	ND	4.6	0.91
BROMOBENZENE	ND	4.6	0.91
BROMOCHLOROMETHANE	ND	4.6	0.91
BROMODICHLOROMETHANE	ND	4.6	0.91
BROMOFORM	ND	4.6	1.8
BROMOMETHANE	ND	4.6	1.8
CARBON DISULFIDE	ND	4.6	0.91
CARBON TETRACHLORIDE	ND	4.6	0.91
CHLOROBENZENE	ND	4.6	0.91
CHLOROETHANE	ND	4.6	1.8
CHLOROFORM	ND	4.6	0.91
CHLOROMETHANE	ND	4.6	1.8
CIS-1,2-DICHLOROETHENE	ND	4.6	0.91
CIS-1,3-DICHLOROPROPENE	ND	4.6	0.91
DIBROMOCHLOROMETHANE	ND	4.6	0.91
DICHLORODIFLUOROMETHANE	ND	4.6	1.8
ETHYLBENZENE	ND	4.6	0.91
ISOPROPYL BENZENE	ND	4.6	0.91
M,P-XYLENES	ND	9.1	1.8
MIBK	ND	9.1	4.6
METHYLENE CHLORIDE	ND	4.6	1.8
MTBE	ND	4.6	0.91
NAPHTHALENE	ND	4.6	1.8
N-BUTYLBENZENE	ND	4.6	0.91
N-PROPYLBENZENE	ND	4.6	0.91
O-XYLENE	ND	4.6	0.91
P-ISOPROPYLTOLUENE	ND	4.6	0.91
SEC-BUTYLBENZENE	ND	4.6	0.91
STYRENE	ND	4.6	0.91
TERT-BUTYLBENZENE	ND	4.6	0.91
TETRACHLOROETHENE	ND	4.6	0.91
TOLUENE	ND	4.6	0.91
TRANS-1,2-DICHLOROETHENE	ND	4.6	0.91
TRANS-1,3-DICHLOROPROPENE	ND	4.6	0.91
TRICHLOROETHENE	ND	4.6	0.91
TRICHLOROFLUOROMETHANE	ND	4.6	1.8
VINYL CHLORIDE	ND	4.6	1.8
VINYL ACETATE	ND	4.6	1.8
FREON113	ND	4.6	1.8
DIBROMOMETHANE	ND	4.6	0.91

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.6	45.71	102	60-160
4-BROMOFLUOROBENZENE	47.0	45.71	103	70-150
TOLUENE-D8	47.0	45.71	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 12:50
Sample ID: B7-10	Date Analyzed: 04/19/18 12:50
Lab Samp ID: D139-02	Dilution Factor: 0.9
Lab File ID: RDN187	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 22.6
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,1-TRICHLOROETHANE	ND	5.8	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,2-TRICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHENE	ND	5.8	1.2
1,1-DICHLOROPROPENE	ND	5.8	1.2
1,2,3-TRICHLOROBENZENE	ND	5.8	2.3
1,2,3-TRICHLOROPROPANE	ND	5.8	5.3
1,2,4-TRICHLOROBENZENE	ND	5.8	2.3
1,2,4-TRIMETHYLBENZENE	ND	5.8	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.8	2.3
1,2-DIBROMOETHANE	ND	5.8	1.2
1,2-DICHLOROBENZENE	ND	5.8	1.2
1,2-DICHLOROETHANE	ND	5.8	1.2
1,2-DICHLOROPROPANE	ND	5.8	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.8	1.2
1,3-DICHLOROBENZENE	ND	5.8	1.2
1,3-DICHLOROPROPANE	ND	5.8	1.2
1,4-DICHLOROBENZENE	ND	5.8	1.2
2,2-DICHLOROPROPANE	ND	5.8	2.3
2-BUTANONE	ND	12	5.8
2-CHLOROTOLUENE	ND	5.8	1.2
2-HEXANONE	ND	12	5.8
4-CHLOROTOLUENE	ND	5.8	1.2
ACETONE	37	12	5.8
BENZENE	ND	5.8	1.2
BROMOBENZENE	ND	5.8	1.2
BROMOCHLOROMETHANE	ND	5.8	1.2
BROMODICHLOROMETHANE	ND	5.8	1.2
BROMOFORM	ND	5.8	2.3
BROMOMETHANE	ND	5.8	2.3
CARBON DISULFIDE	ND	5.8	1.2
CARBON TETRACHLORIDE	ND	5.8	1.2
CHLOROBENZENE	ND	5.8	1.2
CHLOROETHANE	ND	5.8	2.3
CHLOROFORM	ND	5.8	1.2
CHLOROMETHANE	ND	5.8	2.3
CIS-1,2-DICHLOROETHENE	ND	5.8	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.8	1.2
DIBROMOCHLOROMETHANE	ND	5.8	1.2
DICHLORODIFLUOROMETHANE	ND	5.8	2.3
ETHYLBENZENE	ND	5.8	1.2
ISOPROPYL BENZENE	ND	5.8	1.2
M,P-XYLENES	ND	12	2.3
MIBK	ND	12	5.8
METHYLENE CHLORIDE	ND	5.8	2.3
MTBE	ND	5.8	1.2
NAPHTHALENE	ND	5.8	2.3
N-BUTYLBENZENE	ND	5.8	1.2
N-PROPYLBENZENE	ND	5.8	1.2
O-XYLENE	ND	5.8	1.2
P-ISOPROPYLTOLUENE	ND	5.8	1.2
SEC-BUTYLBENZENE	ND	5.8	1.2
STYRENE	ND	5.8	1.2
TERT-BUTYLBENZENE	ND	5.8	1.2
TETRACHLOROETHENE	ND	5.8	1.2
TOLUENE	ND	5.8	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.8	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.8	1.2
TRICHLOROETHENE	ND	5.8	1.2
TRICHLOROFLUOROMETHANE	ND	5.8	2.3
VINYL CHLORIDE	ND	5.8	5.3
VINYL ACETATE	ND	5.8	2.3
FREON113	ND	5.8	2.3
DIBROMOMETHANE	ND	5.8	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.8	58.14	99.4	60-160
4-BROMOFLUOROBENZENE	59.6	58.14	103	70-150
TOLUENE-D8	59.7	58.14	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 13:18
Sample ID: B7-15	Date Analyzed: 04/19/18 13:18
Lab Samp ID: D139-03	Dilution Factor: 0.93
Lab File ID: RDN188	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 13.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	6.4J	11	5.4
BENZENE	ND	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	ND	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	ND	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	54.4	53.76	101	60-160
4-BROMOFLUOROBENZENE	55.3	53.76	103	70-150
TOLUENE-D8	55.2	53.76	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 13:47
Sample ID: B8-2	Date Analyzed: 04/19/18 13:47
Lab Samp ID: D139-05	Dilution Factor: 0.92
Lab File ID: RDN189	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 12.1
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	5.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DIBROMOETHANE	ND	5.2	1.0
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	6.7J	10	5.2
2-CHLOROTOLUENE	ND	5.2	1.0
2-HEXANONE	ND	10	5.2
4-CHLOROTOLUENE	ND	5.2	1.0
ACETONE	51	10	5.2
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	2.2J	5.2	2.1
CARBON DISULFIDE	ND	5.2	1.0
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENES	ND	10	2.1
MIBK	ND	10	5.2
METHYLENE CHLORIDE	ND	5.2	2.1
MTBE	ND	5.2	1.0
NAPHTHALENE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	5.1
VINYL ACETATE	ND	5.2	2.1
FREON113	ND	5.2	2.1
DIBROMOMETHANE	ND	5.2	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.8	52.33	103	60-160
4-BROMOFLUOROBENZENE	54.1	52.33	103	70-150
TOLUENE-D8	54.0	52.33	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 14:15
Sample ID: B8-5	Date Analyzed: 04/19/18 14:15
Lab Samp ID: D139-06	Dilution Factor: 0.87
Lab File ID: RDN190	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 14.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.0
1,2,3-TRICHLOROPROPANE	ND	5.1	5.0
1,2,4-TRICHLOROBENZENE	ND	5.1	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.0
1,2-DIBROMOETHANE	ND	5.1	1.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.0
2-BUTANONE	ND	10	5.1
2-CHLOROTOLUENE	ND	5.1	1.0
2-HEXANONE	ND	10	5.1
4-CHLOROTOLUENE	ND	5.1	1.0
ACETONE	14	10	5.1
BENZENE	ND	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.0
BROMOMETHANE	ND	5.1	2.0
CARBON DISULFIDE	ND	5.1	1.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.0
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.0
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.0
ETHYLBENZENE	ND	5.1	1.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.1
METHYLENE CHLORIDE	ND	5.1	2.0
MTBE	ND	5.1	1.0
NAPHTHALENE	ND	5.1	2.0
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	ND	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.0
VINYL CHLORIDE	ND	5.1	2.0
VINYL ACETATE	ND	5.1	2.0
FREON113	ND	5.1	2.0
DIBROMOMETHANE	ND	5.1	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	52.7	50.88	104	60-160
4-BROMOFLUOROBENZENE	51.8	50.88	102	70-150
TOLUENE-D8	52.2	50.88	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 14:43
Sample ID: B8-10	Date Analyzed: 04/19/18 14:43
Lab Samp ID: D139-07	Dilution Factor: 0.92
Lab File ID: RDN191	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 22.4
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.9	1.2
1,1,1-TRICHLOROETHANE	ND	5.9	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.9	1.2
1,1,2-TRICHLOROETHANE	ND	5.9	1.2
1,1-DICHLOROETHANE	ND	5.9	1.2
1,1-DICHLOROETHENE	ND	5.9	1.2
1,1-DICHLOROPROPENE	ND	5.9	1.2
1,2,3-TRICHLOROBENZENE	ND	5.9	2.4
1,2,3-TRICHLOROPROPANE	ND	5.9	2.4
1,2,4-TRICHLOROBENZENE	ND	5.9	2.4
1,2,4-TRIMETHYLBENZENE	ND	5.9	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.9	2.4
1,2-DIBROMOETHANE	ND	5.9	1.2
1,2-DICHLOROBENZENE	ND	5.9	1.2
1,2-DICHLOROETHANE	ND	5.9	1.2
1,2-DICHLOROPROPANE	ND	5.9	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.9	1.2
1,3-DICHLOROBENZENE	ND	5.9	1.2
1,3-DICHLOROPROPANE	ND	5.9	1.2
1,4-DICHLOROBENZENE	ND	5.9	1.2
2,2-DICHLOROPROPANE	ND	5.9	2.4
2-BUTANONE	ND	12	5.9
2-CHLOROTOLUENE	ND	5.9	1.2
2-HEXANONE	ND	12	5.9
4-CHLOROTOLUENE	ND	5.9	1.2
ACETONE	38	12	5.9
BENZENE	ND	5.9	1.2
BROMOBENZENE	ND	5.9	1.2
BROMOCHLOROMETHANE	ND	5.9	1.2
BROMODICHLOROMETHANE	ND	5.9	1.2
BROMOFORM	ND	5.9	2.4
BROMOMETHANE	ND	5.9	2.4
CARBON DISULFIDE	ND	5.9	1.2
CARBON TETRACHLORIDE	ND	5.9	1.2
CHLOROBENZENE	ND	5.9	1.2
CHLOROETHANE	ND	5.9	2.4
CHLOROFORM	ND	5.9	1.2
CHLOROMETHANE	ND	5.9	2.4
CIS-1,2-DICHLOROETHENE	ND	5.9	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.9	1.2
DIBROMOCHLOROMETHANE	ND	5.9	1.2
DICHLORODIFLUOROMETHANE	ND	5.9	2.4
ETHYLBENZENE	ND	5.9	1.2
ISOPROPYL BENZENE	ND	5.9	1.2
M,P-XYLENES	ND	12	2.4
MIBK	ND	12	5.9
METHYLENE CHLORIDE	ND	5.9	2.4
MTBE	ND	5.9	1.2
NAPHTHALENE	ND	5.9	2.4
N-BUTYLBENZENE	ND	5.9	1.2
N-PROPYLBENZENE	ND	5.9	1.2
O-XYLENE	ND	5.9	1.2
P-ISOPROPYLTOLUENE	ND	5.9	1.2
SEC-BUTYLBENZENE	ND	5.9	1.2
STYRENE	ND	5.9	1.2
TERT-BUTYLBENZENE	ND	5.9	1.2
TETRACHLOROETHENE	ND	5.9	1.2
TOLUENE	ND	5.9	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.9	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.9	1.2
TRICHLOROETHENE	ND	5.9	1.2
TRICHLOROFLUOROMETHANE	ND	5.9	2.4
VINYL CHLORIDE	ND	5.9	2.4
VINYL ACETATE	ND	5.9	2.4
FREON113	ND	5.9	2.4
DIBROMOMETHANE	ND	5.9	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	61.2	59.28	103	60-160
4-BROMOFLUOROBENZENE	60.5	59.28	102	70-150
TOLUENE-D8	61.2	59.28	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 15:12
Sample ID: B9-2	Date Analyzed: 04/19/18 15:12
Lab Samp ID: D139-09	Dilution Factor: 1.07
Lab File ID: RDN192	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 4.6
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,1-TRICHLOROETHANE	ND	5.6	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,2-TRICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHENE	ND	5.6	1.1
1,1-DICHLOROPROPENE	ND	5.6	1.1
1,2,3-TRICHLOROBENZENE	ND	5.6	2.2
1,2,3-TRICHLOROPROPANE	ND	5.6	2.2
1,2,4-TRICHLOROBENZENE	ND	5.6	2.2
1,2,4-TRIMETHYLBENZENE	1.4J	5.6	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.6	2.2
1,2-DIBROMOETHANE	ND	5.6	1.1
1,2-DICHLOROBENZENE	ND	5.6	1.1
1,2-DICHLOROETHANE	ND	5.6	1.1
1,2-DICHLOROPROPANE	ND	5.6	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.6	1.1
1,3-DICHLOROBENZENE	ND	5.6	1.1
1,3-DICHLOROPROPANE	ND	5.6	1.1
1,4-DICHLOROBENZENE	ND	5.6	1.1
2,2-DICHLOROPROPANE	ND	5.6	2.2
2-BUTANONE	7.9J	11	5.6
2-CHLOROTOLUENE	ND	5.6	1.1
2-HEXANONE	ND	11	5.6
4-CHLOROTOLUENE	ND	5.6	1.1
ACETONE	68	11	5.6
BENZENE	1.9J	5.6	1.1
BROMOBENZENE	ND	5.6	1.1
BROMOCHLOROMETHANE	ND	5.6	1.1
BROMODICHLOROMETHANE	ND	5.6	1.1
BROMOFORM	ND	5.6	2.2
BROMOMETHANE	ND	5.6	2.2
CARBON DISULFIDE	3.7J	5.6	1.1
CARBON TETRACHLORIDE	ND	5.6	1.1
CHLOROBENZENE	ND	5.6	1.1
CHLOROETHANE	ND	5.6	2.2
CHLOROFORM	ND	5.6	1.1
CHLOROMETHANE	ND	5.6	2.2
CIS-1,2-DICHLOROETHENE	ND	5.6	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.6	1.1
DIBROMOCHLOROMETHANE	ND	5.6	1.1
DICHLORODIFLUOROMETHANE	ND	5.6	2.2
ETHYLBENZENE	ND	5.6	1.1
ISOPROPYL BENZENE	ND	5.6	1.1
M,P-XYLENES	2.8J	11	2.2
MIBK	ND	11	5.6
METHYLENE CHLORIDE	ND	5.6	2.2
MTBE	ND	5.6	1.1
NAPHTHALENE	ND	5.6	2.2
N-BUTYLBENZENE	ND	5.6	1.1
N-PROPYLBENZENE	ND	5.6	1.1
O-XYLENE	ND	5.6	1.1
P-ISOPROPYLTOLUENE	ND	5.6	1.1
SEC-BUTYLBENZENE	ND	5.6	1.1
STYRENE	ND	5.6	1.1
TERT-BUTYLBENZENE	ND	5.6	1.1
TETRACHLOROETHENE	ND	5.6	1.1
TOLUENE	2.4J	5.6	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.6	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.6	1.1
TRICHLOROETHENE	ND	5.6	1.1
TRICHLOROFLUOROMETHANE	ND	5.6	2.2
VINYL CHLORIDE	ND	5.6	2.2
VINYL ACETATE	ND	5.6	2.2
FREON113	ND	5.6	2.2
DIBROMOMETHANE	ND	5.6	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	60.3	56.08	108	60-160
4-BROMOFLUOROBENZENE	67.8	56.08	121	70-150
TOLUENE-D8	61.6	56.08	110	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 15:41
Sample ID: B14-2	Date Analyzed: 04/19/18 15:41
Lab Samp ID: D139-12	Dilution Factor: 0.89
Lab File ID: RDN193	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 6.8
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,1-TRICHLOROETHANE	ND	4.8	0.95
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,2-TRICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHENE	ND	4.8	0.95
1,1-DICHLOROPROPENE	ND	4.8	0.95
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.8	0.95
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.95
1,2-DICHLOROBENZENE	ND	4.8	0.95
1,2-DICHLOROETHANE	ND	4.8	0.95
1,2-DICHLOROPROPANE	ND	4.8	0.95
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.95
1,3-DICHLOROBENZENE	ND	4.8	0.95
1,3-DICHLOROPROPANE	ND	4.8	0.95
1,4-DICHLOROBENZENE	ND	4.8	0.95
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	6.7J	9.5	4.8
2-CHLOROTOLUENE	ND	4.8	0.95
2-HEXANONE	ND	9.5	4.8
4-CHLOROTOLUENE	ND	4.8	0.95
ACETONE	44	9.5	4.8
BENZENE	3.0J	4.8	0.95
BROMOBENZENE	ND	4.8	0.95
BROMOCHLOROMETHANE	ND	4.8	0.95
BROMODICHLOROMETHANE	ND	4.8	0.95
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	2.3J	4.8	1.9
CARBON DISULFIDE	1.2J	4.8	0.95
CARBON TETRACHLORIDE	ND	4.8	0.95
CHLOROBENZENE	ND	4.8	0.95
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.95
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.95
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.95
DIBROMOCHLOROMETHANE	ND	4.8	0.95
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.95
ISOPROPYL BENZENE	ND	4.8	0.95
M,P-XYLENES	2.4J	9.5	1.9
MIBK	ND	9.5	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.95
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.95
N-PROPYLBENZENE	ND	4.8	0.95
O-XYLENE	1.0J	4.8	0.95
P-ISOPROPYLTOLUENE	ND	4.8	0.95
SEC-BUTYLBENZENE	ND	4.8	0.95
STYRENE	ND	4.8	0.95
TERT-BUTYLBENZENE	ND	4.8	0.95
TETRACHLOROETHENE	ND	4.8	0.95
TOLUENE	4.7J	4.8	0.95
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.95
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.95
TRICHLOROETHENE	ND	4.8	0.95
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.95

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.1	47.75	111	60-160
4-BROMOFLUOROBENZENE	61.4	47.75	129	70-150
TOLUENE-D8	55.2	47.75	116	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 16:09
Sample ID: B14-5	Date Analyzed: 04/19/18 16:09
Lab Samp ID: D139-13	Dilution Factor: 0.75
Lab File ID: RDN194	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 12.0
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.3	0.85
1,1,1-TRICHLOROETHANE	ND	4.3	0.85
1,1,2,2-TETRACHLOROETHANE	ND	4.3	0.85
1,1,2-TRICHLOROETHANE	ND	4.3	0.85
1,1-DICHLOROETHANE	ND	4.3	0.85
1,1-DICHLOROETHENE	ND	4.3	0.85
1,1-DICHLOROPROPENE	ND	4.3	0.85
1,2,3-TRICHLOROBENZENE	ND	4.3	1.7
1,2,3-TRICHLOROPROPANE	ND	4.3	1.7
1,2,4-TRICHLOROBENZENE	ND	4.3	1.7
1,2,4-TRIMETHYLBENZENE	ND	4.3	0.85
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.3	1.7
1,2-DIBROMOETHANE	ND	4.3	0.85
1,2-DICHLOROBENZENE	ND	4.3	0.85
1,2-DICHLOROETHANE	ND	4.3	0.85
1,2-DICHLOROPROPANE	ND	4.3	0.85
1,3,5-TRIMETHYLBENZENE	ND	4.3	0.85
1,3-DICHLOROBENZENE	ND	4.3	0.85
1,3-DICHLOROPROPANE	ND	4.3	0.85
1,4-DICHLOROBENZENE	ND	4.3	0.85
2,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.5	4.3
2-CHLOROTOLUENE	ND	4.3	0.85
2-HEXANONE	ND	8.5	4.3
4-CHLOROTOLUENE	ND	4.3	0.85
ACETONE	26	8.5	4.3
BENZENE	ND	4.3	0.85
BROMOBENZENE	ND	4.3	0.85
BROMOCHLOROMETHANE	ND	4.3	0.85
BROMODICHLOROMETHANE	ND	4.3	0.85
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	4.3	1.7
CARBON DISULFIDE	ND	4.3	0.85
CARBON TETRACHLORIDE	ND	4.3	0.85
CHLOROBENZENE	ND	4.3	0.85
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	0.85
CHLOROMETHANE	ND	4.3	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	0.85
CIS-1,3-DICHLOROPROPENE	ND	4.3	0.85
DIBROMOCHLOROMETHANE	ND	4.3	0.85
DICHLORODIFLUOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	0.85
ISOPROPYL BENZENE	ND	4.3	0.85
M,P-XYLENES	ND	8.5	1.7
MIBK	ND	8.5	4.3
METHYLENE CHLORIDE	ND	4.3	1.7
MTBE	ND	4.3	0.85
NAPHTHALENE	ND	4.3	1.7
N-BUTYLBENZENE	ND	4.3	0.85
N-PROPYLBENZENE	ND	4.3	0.85
O-XYLENE	ND	4.3	0.85
P-ISOPROPYLTOLUENE	ND	4.3	0.85
SEC-BUTYLBENZENE	ND	4.3	0.85
STYRENE	ND	4.3	0.85
TERT-BUTYLBENZENE	ND	4.3	0.85
TETRACHLOROETHENE	ND	4.3	0.85
TOLUENE	ND	4.3	0.85
TRANS-1,2-DICHLOROETHENE	ND	4.3	0.85
TRANS-1,3-DICHLOROPROPENE	ND	4.3	0.85
TRICHLOROETHENE	ND	4.3	0.85
TRICHLOROFLUOROMETHANE	ND	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7
VINYL ACETATE	ND	4.3	1.7
FREON113	ND	4.3	1.7
DIBROMOMETHANE	ND	4.3	0.85

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.8	42.61	110	60-160
4-BROMOFLUOROBENZENE	47.9	42.61	112	70-150
TOLUENE-D8	44.5	42.61	104	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 16:38
Sample ID: B14-10	Date Analyzed: 04/19/18 16:38
Lab Samp ID: D139-14	Dilution Factor: 0.96
Lab File ID: RDN195	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 11.8
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	11	11	5.4
BENZENE	ND	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	ND	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	ND	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.2	54.42	109	60-160
4-BROMOFLUOROBENZENE	55.1	54.42	101	70-150
TOLUENE-D8	55.5	54.42	102	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 17:06
Sample ID: B14-15	Date Analyzed: 04/19/18 17:06
Lab Samp ID: D139-15	Dilution Factor: 0.91
Lab File ID: RDN196	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 13.5
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.3	1.1
1,1,1-TRICHLOROETHANE	ND	5.3	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	1.1
1,1,2-TRICHLOROETHANE	ND	5.3	1.1
1,1-DICHLOROETHANE	ND	5.3	1.1
1,1-DICHLOROETHENE	ND	5.3	1.1
1,1-DICHLOROPROPENE	ND	5.3	1.1
1,2,3-TRICHLOROBENZENE	ND	5.3	2.1
1,2,3-TRICHLOROPROPANE	ND	5.3	2.1
1,2,4-TRICHLOROBENZENE	ND	5.3	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.3	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.3	2.1
1,2-DIBROMOETHANE	ND	5.3	1.1
1,2-DICHLOROBENZENE	ND	5.3	1.1
1,2-DICHLOROETHANE	ND	5.3	1.1
1,2-DICHLOROPROPANE	ND	5.3	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.3	1.1
1,3-DICHLOROBENZENE	ND	5.3	1.1
1,3-DICHLOROPROPANE	ND	5.3	1.1
1,4-DICHLOROBENZENE	ND	5.3	1.1
2,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-CHLOROTOLUENE	ND	5.3	1.1
2-HEXANONE	ND	11	5.3
4-CHLOROTOLUENE	ND	5.3	1.1
ACETONE	8.4J	11	5.3
BENZENE	ND	5.3	1.1
BROMOBENZENE	ND	5.3	1.1
BROMOCHLOROMETHANE	ND	5.3	1.1
BROMODICHLOROMETHANE	ND	5.3	1.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	5.3	2.1
CARBON DISULFIDE	ND	5.3	1.1
CARBON TETRACHLORIDE	ND	5.3	1.1
CHLOROBENZENE	ND	5.3	1.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	1.1
CHLOROMETHANE	ND	5.3	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	1.1
DIBROMOCHLOROMETHANE	ND	5.3	1.1
DICHLORODIFLUOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	1.1
ISOPROPYL BENZENE	ND	5.3	1.1
M,P-XYLENES	ND	11	2.1
MIBK	ND	11	5.3
METHYLENE CHLORIDE	ND	5.3	2.1
MTBE	ND	5.3	1.1
NAPHTHALENE	ND	5.3	2.1
N-BUTYLBENZENE	ND	5.3	1.1
N-PROPYLBENZENE	ND	5.3	1.1
O-XYLENE	ND	5.3	1.1
P-ISOPROPYLTOLUENE	ND	5.3	1.1
SEC-BUTYLBENZENE	ND	5.3	1.1
STYRENE	ND	5.3	1.1
TERT-BUTYLBENZENE	ND	5.3	1.1
TETRACHLOROETHENE	ND	5.3	1.1
TOLUENE	ND	5.3	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	1.1
TRICHLOROETHENE	ND	5.3	1.1
TRICHLOROFLUOROMETHANE	ND	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
VINYL ACETATE	ND	5.3	2.1
FREON113	ND	5.3	2.1
DIBROMOMETHANE	ND	5.3	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	56.5	52.60	107	60-160
4-BROMOFLUOROBENZENE	53.8	52.60	102	70-150
TOLUENE-D8	53.8	52.60	102	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 17:35
Sample ID: B15-2	Date Analyzed: 04/19/18 17:35
Lab Samp ID: D139-17	Dilution Factor: 0.96
Lab File ID: RDN197	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 4.6
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	8.9J	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	71	10	5.0
BENZENE	5.6	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	3.6J	5.0	2.0
CARBON DISULFIDE	2.7J	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	1.3J	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	2.9J	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	1.1J	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	6.8	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.3	50.31	114	60-160
4-BROMOFLUOROBENZENE	59.2	50.31	118	70-150
TOLUENE-D8	54.6	50.31	109	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 11:53
Sample ID: B15-5	Date Analyzed: 04/19/18 11:53
Lab Samp ID: D139-18	Dilution Factor: 0.92
Lab File ID: RDN185	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 20.8
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,1-TRICHLOROETHANE	ND	5.8	1.2
1,1,2,2-TETRACHLOROETHANE	ND	5.8	1.2
1,1,2-TRICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHANE	ND	5.8	1.2
1,1-DICHLOROETHENE	ND	5.8	1.2
1,1-DICHLOROPROPENE	ND	5.8	1.2
1,2,3-TRICHLOROBENZENE	ND	5.8	2.3
1,2,3-TRICHLOROPROPANE	ND	5.8	2.3
1,2,4-TRICHLOROBENZENE	ND	5.8	2.3
1,2,4-TRIMETHYLBENZENE	ND	5.8	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.8	2.3
1,2-DIBROMOETHANE	ND	5.8	1.2
1,2-DICHLOROBENZENE	ND	5.8	1.2
1,2-DICHLOROETHANE	ND	5.8	1.2
1,2-DICHLOROPROPANE	ND	5.8	1.2
1,3,5-TRIMETHYLBENZENE	ND	5.8	1.2
1,3-DICHLOROBENZENE	ND	5.8	1.2
1,3-DICHLOROPROPANE	ND	5.8	1.2
1,4-DICHLOROBENZENE	ND	5.8	1.2
2,2-DICHLOROPROPANE	ND	5.8	2.3
2-BUTANONE	ND	12	5.8
2-CHLOROTOLUENE	ND	5.8	1.2
2-HEXANONE	ND	12	5.8
4-CHLOROTOLUENE	ND	5.8	1.2
ACETONE	39	12	5.8
BENZENE	ND	5.8	1.2
BROMOBENZENE	ND	5.8	1.2
BROMOCHLOROMETHANE	ND	5.8	1.2
BROMODICHLOROMETHANE	ND	5.8	1.2
BROMOFORM	ND	5.8	2.3
BROMOMETHANE	ND	5.8	2.3
CARBON DISULFIDE	ND	5.8	1.2
CARBON TETRACHLORIDE	ND	5.8	1.2
CHLOROBENZENE	ND	5.8	1.2
CHLOROETHANE	ND	5.8	2.3
CHLOROFORM	ND	5.8	1.2
CHLOROMETHANE	ND	5.8	2.3
CIS-1,2-DICHLOROETHENE	ND	5.8	1.2
CIS-1,3-DICHLOROPROPENE	ND	5.8	1.2
DIBROMOCHLOROMETHANE	ND	5.8	1.2
DICHLORODIFLUOROMETHANE	ND	5.8	2.3
ETHYLBENZENE	ND	5.8	1.2
ISOPROPYL BENZENE	ND	5.8	1.2
M,P-XYLENES	ND	12	2.3
MIBK	ND	12	5.8
METHYLENE CHLORIDE	ND	5.8	2.3
MTBE	ND	5.8	1.2
NAPHTHALENE	ND	5.8	2.3
N-BUTYLBENZENE	ND	5.8	1.2
N-PROPYLBENZENE	ND	5.8	1.2
O-XYLENE	ND	5.8	1.2
P-ISOPROPYLTOLUENE	ND	5.8	1.2
SEC-BUTYLBENZENE	ND	5.8	1.2
STYRENE	ND	5.8	1.2
TERT-BUTYLBENZENE	ND	5.8	1.2
TETRACHLOROETHENE	ND	5.8	1.2
TOLUENE	ND	5.8	1.2
TRANS-1,2-DICHLOROETHENE	ND	5.8	1.2
TRANS-1,3-DICHLOROPROPENE	ND	5.8	1.2
TRICHLOROETHENE	ND	5.8	1.2
TRICHLOROFLUOROMETHANE	ND	5.8	2.3
VINYL CHLORIDE	ND	5.8	2.3
VINYL ACETATE	ND	5.8	2.3
FREON113	ND	5.8	2.3
DIBROMOMETHANE	ND	5.8	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	56.4	58.08	97.2	60-160
4-BROMOFLUOROBENZENE	59.6	58.08	103	70-150
TOLUENE-D8	60.6	58.08	104	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/19/18 18:03
Sample ID: B14-2D	Date Analyzed: 04/19/18 18:03
Lab Samp ID: D139-19	Dilution Factor: 0.89
Lab File ID: RDN198	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : 6.4
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,1-TRICHLOROETHANE	ND	4.8	0.95
1,1,2,2-TETRACHLOROETHANE	ND	4.8	0.95
1,1,2-TRICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHANE	ND	4.8	0.95
1,1-DICHLOROETHENE	ND	4.8	0.95
1,1-DICHLOROPROPENE	ND	4.8	0.95
1,2,3-TRICHLOROBENZENE	ND	4.8	1.9
1,2,3-TRICHLOROPROPANE	ND	4.8	1.9
1,2,4-TRICHLOROBENZENE	ND	4.8	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.8	0.95
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	1.9
1,2-DIBROMOETHANE	ND	4.8	0.95
1,2-DICHLOROBENZENE	ND	4.8	0.95
1,2-DICHLOROETHANE	ND	4.8	0.95
1,2-DICHLOROPROPANE	ND	4.8	0.95
1,3,5-TRIMETHYLBENZENE	ND	4.8	0.95
1,3-DICHLOROBENZENE	ND	4.8	0.95
1,3-DICHLOROPROPANE	ND	4.8	0.95
1,4-DICHLOROBENZENE	ND	4.8	0.95
2,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	5.9J	9.5	4.8
2-CHLOROTOLUENE	ND	4.8	0.95
2-HEXANONE	ND	9.5	4.8
4-CHLOROTOLUENE	ND	4.8	0.95
ACETONE	41	9.5	4.8
BENZENE	2.1J	4.8	0.95
BROMOBENZENE	ND	4.8	0.95
BROMOCHLOROMETHANE	ND	4.8	0.95
BROMODICHLOROMETHANE	ND	4.8	0.95
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	4.8	1.9
CARBON DISULFIDE	1.9J	4.8	0.95
CARBON TETRACHLORIDE	ND	4.8	0.95
CHLOROBENZENE	ND	4.8	0.95
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	0.95
CHLOROMETHANE	ND	4.8	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	0.95
CIS-1,3-DICHLOROPROPENE	ND	4.8	0.95
DIBROMOCHLOROMETHANE	ND	4.8	0.95
DICHLORODIFLUOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	0.95
ISOPROPYL BENZENE	ND	4.8	0.95
M,P-XYLENES	ND	9.5	1.9
MIBK	ND	9.5	4.8
METHYLENE CHLORIDE	ND	4.8	1.9
MTBE	ND	4.8	0.95
NAPHTHALENE	ND	4.8	1.9
N-BUTYLBENZENE	ND	4.8	0.95
N-PROPYLBENZENE	ND	4.8	0.95
O-XYLENE	ND	4.8	0.95
P-ISOPROPYLTOLUENE	ND	4.8	0.95
SEC-BUTYLBENZENE	ND	4.8	0.95
STYRENE	ND	4.8	0.95
TERT-BUTYLBENZENE	ND	4.8	0.95
TETRACHLOROETHENE	ND	4.8	0.95
TOLUENE	3.3J	4.8	0.95
TRANS-1,2-DICHLOROETHENE	ND	4.8	0.95
TRANS-1,3-DICHLOROPROPENE	ND	4.8	0.95
TRICHLOROETHENE	ND	4.8	0.95
TRICHLOROFLUOROMETHANE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
VINYL ACETATE	ND	4.8	1.9
FREON113	ND	4.8	1.9
DIBROMOMETHANE	ND	4.8	0.95

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	53.8	47.54	113	60-160
4-BROMOFLUOROBENZENE	58.4	47.54	123	70-150
TOLUENE-D8	53.2	47.54	112	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/19/18
Batch No. : 18D139	Date Extracted: 04/19/18 11:24
Sample ID: MBLK1S	Date Analyzed: 04/19/18 11:24
Lab Samp ID: VSF4D11B	Dilution Factor: 1
Lab File ID: RDN184	Matrix : SOIL
Ext Btch ID: VSF4D11	% Moisture : NA
Calib. Ref.: RDN081	Instrument ID : TOF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	49.6	50.00	99.2	70-140
4-BROMOFLUOROBENZENE	50.8	50.00	102	70-130
TOLUENE-D8	51.4	50.00	103	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D139
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VSF4D11B	VSF4D11L	VSF4D11C		
LAB FILE ID:	RDN184	RDN181	RDN182		
DATE EXTRACTED:	04/19/1811:24	04/19/1809:58	04/19/1810:27	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1811:24	04/19/1809:58	04/19/1810:27	DATE RECEIVED:	04/19/18
PREP. BATCH:	VSF4D11	VSF4D11	VSF4D11		
CALIB. REF:	RDN081	RDN081	RDN081		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	48.1	96	50.0	47.5	95	1	60-130	30
Benzene	ND	50.0	50.3	101	50.0	49.9	100	1	70-130	30
Chlorobenzene	ND	50.0	47.8	96	50.0	47.8	96	0	70-130	30
Toluene	ND	50.0	47.7	95	50.0	47.7	95	0	70-130	50
Trichloroethene	ND	50.0	49.7	99	50.0	49.6	99	0	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	48.6	97	50.0	49.3	99	70-140
4-Bromofluorobenzene	50.0	50.4	101	50.0	51.1	102	70-130
Toluene-d8	50.0	51.0	102	50.0	51.0	102	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3550B/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There were two (2) CCVs associated with this SDG: CCV(Datafile ID:REJ123) and CCV(Datafile ID:REJ159). All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD040SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. All analytes were within LCS limits in SVD040SL/SVD040SC except for percent recovery for Chrysene was not within LCS QC limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. D139-01M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter. Manual integration was applied to the following samples because of improper integration.

- Benzo(b)fluoranthene in D139-04 and -10
- Benzo(b)fluoranthene, Benzo(k)fluoranthene and Indeno(1,2,3-cd)pyrene in D139-08
- Fluoranthene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene in D139-09
- Benzo(a)anthracene in D139-11
- Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene in D139-16 and -17

Hence, the original chromatogram was retained and corrected chromatogram was initialed and dated. The secondary reviewer concurred with the manual integrations.

Samples D139-04, -10, -11, -12 and 19 were initially extracted and analyzed at dilution to reduce matrix interference (sticky dark color extracts).

Samples D139-05, -08 and -09 were initially analyzed at dilution due to dark-colored appearance in extracts.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D139
Instrument ID : E4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	SVD040SB	1	NA	05/04/1811:26	04/26/1815:14	REJ125	RBJ167	18SVD040S	Method Blank
LCS1S	SVD040SL	1	NA	05/04/1811:45	04/26/1815:14	REJ126	RBJ167	18SVD040S	Lab Control Sample (LCS)
LCD1S	SVD040SC	1	NA	05/04/1812:03	04/26/1815:14	REJ127	RBJ167	18SVD040S	LCS Duplicate
B7-5	18D139-01	1	12.5	05/04/1817:40	04/26/1815:14	REJ145	RBJ167	18SVD040S	Field Sample
B7-10	18D139-02	1	22.6	05/04/1817:59	04/26/1815:14	REJ146	RBJ167	18SVD040S	Field Sample
B7-15	18D139-03	1	13.5	05/04/1818:18	04/26/1815:14	REJ147	RBJ167	18SVD040S	Field Sample
B8-0.5	18D139-04	5	2.8	05/04/1818:37	04/26/1815:14	REJ148	RBJ167	18SVD040S	Field Sample
B8-2	18D139-05	2	12.1	05/04/1818:55	04/26/1815:14	REJ149	RBJ167	18SVD040S	Field Sample
B8-5	18D139-06	1	14.5	05/04/1819:14	04/26/1815:14	REJ150	RBJ167	18SVD040S	Field Sample
B8-10	18D139-07	1	22.4	05/04/1819:33	04/26/1815:14	REJ151	RBJ167	18SVD040S	Field Sample
B9-0.5	18D139-08	5	2.3	05/04/1819:51	04/26/1815:14	REJ152	RBJ167	18SVD040S	Field Sample
B9-2	18D139-09	5	4.6	05/04/1820:10	04/26/1815:14	REJ153	RBJ167	18SVD040S	Field Sample
B7-5MS	18D139-01M	1	12.5	05/04/1820:29	04/26/1815:14	REJ154	RBJ167	18SVD040S	Matrix Spike Sample (MS)
B7-5MSD	18D139-01S	1	12.5	05/04/1820:47	04/26/1815:14	REJ155	RBJ167	18SVD040S	MS Duplicate (MSD)
B8-0.5D	18D139-10	5	2.5	05/07/1815:26	04/26/1815:14	REJ178	RBJ167	18SVD040S	Field Sample
B14-0.5	18D139-11	5	2.7	05/07/1815:45	04/26/1815:14	REJ179	RBJ167	18SVD040S	Field Sample
B14-2	18D139-12	5	6.8	05/07/1816:04	04/26/1815:14	REJ180	RBJ167	18SVD040S	Field Sample
B14-5	18D139-13	1	12.0	05/07/1816:23	04/26/1815:14	REJ181	RBJ167	18SVD040S	Field Sample
B14-10	18D139-14	1	11.8	05/07/1816:41	04/26/1815:14	REJ182	RBJ167	18SVD040S	Field Sample
B14-15	18D139-15	1	13.5	05/07/1817:00	04/26/1815:14	REJ183	RBJ167	18SVD040S	Field Sample
B15-0.5	18D139-16	3	2.8	05/07/1817:19	04/26/1815:14	REJ184	RBJ167	18SVD040S	Field Sample
B15-2	18D139-17	2	4.6	05/07/1817:38	04/26/1815:14	REJ185	RBJ167	18SVD040S	Field Sample
B15-5	18D139-18	1	20.8	05/07/1817:56	04/26/1815:14	REJ186	RBJ167	18SVD040S	Field Sample
B14-2D	18D139-19	5	6.4	05/07/1818:15	04/26/1815:14	REJ187	RBJ167	18SVD040S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 09:09
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B7-5	Date Analyzed: 05/04/18 17:40
Lab Samp ID: 18D139-01	Dilution Factor: 1
Lab File ID: REJ145	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 12.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.7	2.9
Acenaphthylene	ND	5.7	2.9
Anthracene	ND	5.7	2.9
Benzo(a)anthracene	ND	5.7	2.9
Benzo(a)pyrene	ND	5.7	2.9
Benzo(b)fluoranthene	ND	5.7	2.9
Benzo(k)fluoranthene	ND	5.7	2.9
Benzo(g,h,i)perylene	ND	5.7	2.9
Chrysene	ND	5.7	2.9
Dibenzo(a,h)anthracene	ND	5.7	2.9
Fluoranthene	ND	5.7	2.9
Fluorene	ND	5.7	2.9
Indeno(1,2,3-cd)pyrene	ND	5.7	2.9
Naphthalene	ND	5.7	2.9
Phenanthrene	ND	5.7	2.9
Pyrene	ND	5.7	2.9
2-Methylnaphthalene	ND	5.7	2.9
1-Methylnaphthalene	ND	5.7	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	783	762	103	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B7-10	Date Analyzed:	05/04/18 17:59
Lab Samp ID:	18D139-02	Dilution Factor:	1
Lab File ID:	REJ146	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	22.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.5	3.2
Acenaphthylene	ND	6.5	3.2
Anthracene	ND	6.5	3.2
Benzo(a)anthracene	ND	6.5	3.2
Benzo(a)pyrene	ND	6.5	3.2
Benzo(b)fluoranthene	ND	6.5	3.2
Benzo(k)fluoranthene	ND	6.5	3.2
Benzo(g,h,i)perylene	ND	6.5	3.2
Chrysene	ND	6.5	3.2
Dibenzo(a,h)anthracene	ND	6.5	3.2
Fluoranthene	ND	6.5	3.2
Fluorene	ND	6.5	3.2
Indeno(1,2,3-cd)pyrene	ND	6.5	3.2
Naphthalene	ND	6.5	3.2
Phenanthrene	ND	6.5	3.2
Pyrene	ND	6.5	3.2
2-Methylnaphthalene	ND	6.5	3.2
1-Methylnaphthalene	ND	6.5	3.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	785	861	91	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.01g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 09:28
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B7-15	Date Analyzed:	05/04/18 18:18
Lab Samp ID:	18D139-03	Dilution Factor:	1
Lab File ID:	REJ147	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	13.5
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	754	771	98	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.03g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B8-0.5	Date Analyzed:	05/04/18 18:37
Lab Samp ID:	18D139-04	Dilution Factor:	5
Lab File ID:	REJ148	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	2.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	64
Acenaphthylene	ND	130	64
Anthracene	ND	130	64
Benzo(a)anthracene	130	130	64
Benzo(a)pyrene	72J	130	64
Benzo(b)fluoranthene	110J	130	64
Benzo(k)fluoranthene	ND	130	64
Benzo(g,h,i)perylene	130	130	64
Chrysene	120J	130	64
Dibenzo(a,h)anthracene	ND	130	64
Fluoranthene	160	130	64
Fluorene	ND	130	64
Indeno(1,2,3-cd)pyrene	ND	130	64
Naphthalene	ND	130	64
Phenanthrene	110J	130	64
Pyrene	160	130	64
2-Methylnaphthalene	ND	130	64
1-Methylnaphthalene	ND	130	64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3220	3420	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.02g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:31
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B8-2	Date Analyzed:	05/04/18 18:55
Lab Samp ID:	18D139-05	Dilution Factor:	2
Lab File ID:	REJ149	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	12.1
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	11	5.7
Acenaphthylene	ND	11	5.7
Anthracene	ND	11	5.7
Benzo(a)anthracene	ND	11	5.7
Benzo(a)pyrene	ND	11	5.7
Benzo(b)fluoranthene	ND	11	5.7
Benzo(k)fluoranthene	ND	11	5.7
Benzo(g,h,i)perylene	ND	11	5.7
Chrysene	ND	11	5.7
Dibenzo(a,h)anthracene	ND	11	5.7
Fluoranthene	ND	11	5.7
Fluorene	ND	11	5.7
Indeno(1,2,3-cd)pyrene	ND	11	5.7
Naphthalene	ND	11	5.7
Phenanthrene	ND	11	5.7
Pyrene	ND	11	5.7
2-Methylnaphthalene	ND	11	5.7
1-Methylnaphthalene	ND	11	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	773	758	102	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 11:46
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B8-5	Date Analyzed: 05/04/18 19:14
Lab Samp ID: 18D139-06	Dilution Factor: 1
Lab File ID: REJ150	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 14.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	752	780	97	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 11:52
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B8-10	Date Analyzed: 05/04/18 19:33
Lab Samp ID: 18D139-07	Dilution Factor: 1
Lab File ID: REJ151	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 22.4
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.4	3.2
Acenaphthylene	ND	6.4	3.2
Anthracene	ND	6.4	3.2
Benzo(a)anthracene	ND	6.4	3.2
Benzo(a)pyrene	ND	6.4	3.2
Benzo(b)fluoranthene	ND	6.4	3.2
Benzo(k)fluoranthene	ND	6.4	3.2
Benzo(g,h,i)perylene	ND	6.4	3.2
Chrysene	ND	6.4	3.2
Dibenzo(a,h)anthracene	ND	6.4	3.2
Fluoranthene	ND	6.4	3.2
Fluorene	ND	6.4	3.2
Indeno(1,2,3-cd)pyrene	ND	6.4	3.2
Naphthalene	ND	6.4	3.2
Phenanthrene	ND	6.4	3.2
Pyrene	ND	6.4	3.2
2-Methylnaphthalene	ND	6.4	3.2
1-Methylnaphthalene	ND	6.4	3.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	836	859	97	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D139
Sample ID : B9-0.5
Lab Samp ID: 18D139-08
Lab File ID: REJ152
Ext Btch ID: 18SVD040S
Calib. Ref.: RBJ167

Date Collected: 04/17/18 12:55
Date Received: 04/17/18
Date Extracted: 04/26/18 15:14
Date Analyzed: 05/04/18 19:51
Dilution Factor: 5
Matrix: SOIL
% Moisture: 2.3
Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	26	13
Acenaphthylene	ND	26	13
Anthracene	ND	26	13
Benzo(a)anthracene	80	26	13
Benzo(a)pyrene	66	26	13
Benzo(b)fluoranthene	84	26	13
Benzo(k)fluoranthene	17J	26	13
Benzo(g,h,i)perylene	89	26	13
Chrysene	100	26	13
Dibenzo(a,h)anthracene	ND	26	13
Fluoranthene	78	26	13
Fluorene	ND	26	13
Indeno(1,2,3-cd)pyrene	36	26	13
Naphthalene	ND	26	13
Phenanthrene	46	26	13
Pyrene	87	26	13
2-Methylnaphthalene	ND	26	13
1-Methylnaphthalene	ND	26	13

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	702	682	103	30-125

Notes:

Detection limits are reported relative to sample result significant figures.
Sample Amount : 30.02g
Final Volume : 2ml
Prepared by : JVille
Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 13:01
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B9-2	Date Analyzed:	05/04/18 20:10
Lab Samp ID:	18D139-09	Dilution Factor:	5
Lab File ID:	REJ153	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	4.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	26	13
Acenaphthylene	ND	26	13
Anthracene	ND	26	13
Benzo(a)anthracene	61	26	13
Benzo(a)pyrene	44	26	13
Benzo(b)fluoranthene	48	26	13
Benzo(k)fluoranthene	ND	26	13
Benzo(g,h,i)perylene	52	26	13
Chrysene	96	26	13
Dibenzo(a,h)anthracene	13J	26	13
Fluoranthene	33	26	13
Fluorene	ND	26	13
Indeno(1,2,3-cd)pyrene	23J	26	13
Naphthalene	ND	26	13
Phenanthrene	35	26	13
Pyrene	54	26	13
2-Methylnaphthalene	ND	26	13
1-Methylnaphthalene	ND	26	13

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	697	699	100	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.02g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B8-0.5D	Date Analyzed:	05/07/18 15:26
Lab Samp ID:	18D139-10	Dilution Factor:	5
Lab File ID:	REJ178	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	2.5
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	64
Acenaphthylene	ND	130	64
Anthracene	ND	130	64
Benzo(a)anthracene	89J	130	64
Benzo(a)pyrene	ND	130	64
Benzo(b)fluoranthene	68J	130	64
Benzo(k)fluoranthene	ND	130	64
Benzo(g,h,i)perylene	120J	130	64
Chrysene	84J	130	64
Dibenzo(a,h)anthracene	ND	130	64
Fluoranthene	71J	130	64
Fluorene	ND	130	64
Indeno(1,2,3-cd)pyrene	ND	130	64
Naphthalene	ND	130	64
Phenanthrene	ND	130	64
Pyrene	90J	130	64
2-Methylnaphthalene	ND	130	64
1-Methylnaphthalene	ND	130	64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3020	3410	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.02g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 09:41
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B14-0.5	Date Analyzed: 05/07/18 15:45
Lab Samp ID: 18D139-11	Dilution Factor: 5
Lab File ID: REJ179	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 2.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	64
Acenaphthylene	ND	130	64
Anthracene	ND	130	64
Benzo(a)anthracene	98J	130	64
Benzo(a)pyrene	ND	130	64
Benzo(b)fluoranthene	ND	130	64
Benzo(k)fluoranthene	ND	130	64
Benzo(g,h,i)perylene	110J	130	64
Chrysene	ND	130	64
Dibenzo(a,h)anthracene	ND	130	64
Fluoranthene	ND	130	64
Fluorene	ND	130	64
Indeno(1,2,3-cd)pyrene	ND	130	64
Naphthalene	ND	130	64
Phenanthrene	ND	130	64
Pyrene	ND	130	64
2-Methylnaphthalene	ND	130	64
1-Methylnaphthalene	ND	130	64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3030	3420	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 6.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 09:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-2	Date Analyzed:	05/07/18 16:04
Lab Samp ID:	18D139-12	Dilution Factor:	5
Lab File ID:	REJ180	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	6.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	67
Acenaphthylene	ND	130	67
Anthracene	ND	130	67
Benzo(a)anthracene	85J	130	67
Benzo(a)pyrene	ND	130	67
Benzo(b)fluoranthene	ND	130	67
Benzo(k)fluoranthene	ND	130	67
Benzo(g,h,i)perylene	68J	130	67
Chrysene	100J	130	67
Dibenzo(a,h)anthracene	ND	130	67
Fluoranthene	ND	130	67
Fluorene	ND	130	67
Indeno(1,2,3-cd)pyrene	ND	130	67
Naphthalene	ND	130	67
Phenanthrene	ND	130	67
Pyrene	ND	130	67
2-Methylnaphthalene	ND	130	67
1-Methylnaphthalene	ND	130	67

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3380	3570	95	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.01g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:06
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-5	Date Analyzed:	05/07/18 16:23
Lab Samp ID:	18D139-13	Dilution Factor:	1
Lab File ID:	REJ181	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	12.0
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.7	2.8
Acenaphthylene	ND	5.7	2.8
Anthracene	ND	5.7	2.8
Benzo(a)anthracene	ND	5.7	2.8
Benzo(a)pyrene	ND	5.7	2.8
Benzo(b)fluoranthene	ND	5.7	2.8
Benzo(k)fluoranthene	ND	5.7	2.8
Benzo(g,h,i)perylene	ND	5.7	2.8
Chrysene	ND	5.7	2.8
Dibenzo(a,h)anthracene	ND	5.7	2.8
Fluoranthene	ND	5.7	2.8
Fluorene	ND	5.7	2.8
Indeno(1,2,3-cd)pyrene	ND	5.7	2.8
Naphthalene	ND	5.7	2.8
Phenanthrene	ND	5.7	2.8
Pyrene	ND	5.7	2.8
2-Methylnaphthalene	ND	5.7	2.8
1-Methylnaphthalene	ND	5.7	2.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	717	758	95	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:13
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-10	Date Analyzed:	05/07/18 16:41
Lab Samp ID:	18D139-14	Dilution Factor:	1
Lab File ID:	REJ182	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	11.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.7	2.8
Acenaphthylene	ND	5.7	2.8
Anthracene	ND	5.7	2.8
Benzo(a)anthracene	ND	5.7	2.8
Benzo(a)pyrene	ND	5.7	2.8
Benzo(b)fluoranthene	ND	5.7	2.8
Benzo(k)fluoranthene	ND	5.7	2.8
Benzo(g,h,i)perylene	ND	5.7	2.8
Chrysene	ND	5.7	2.8
Dibenzo(a,h)anthracene	ND	5.7	2.8
Fluoranthene	ND	5.7	2.8
Fluorene	ND	5.7	2.8
Indeno(1,2,3-cd)pyrene	ND	5.7	2.8
Naphthalene	ND	5.7	2.8
Phenanthrene	ND	5.7	2.8
Pyrene	ND	5.7	2.8
2-Methylnaphthalene	ND	5.7	2.8
1-Methylnaphthalene	ND	5.7	2.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	722	756	96	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B14-15	Date Analyzed:	05/07/18 17:00
Lab Samp ID:	18D139-15	Dilution Factor:	1
Lab File ID:	REJ183	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	13.5
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	741	771	96	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 10:44
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B15-0.5	Date Analyzed: 05/07/18 17:19
Lab Samp ID: 18D139-16	Dilution Factor: 3
Lab File ID: REJ184	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 2.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.7
Acenaphthylene	ND	15	7.7
Anthracene	ND	15	7.7
Benzo(a)anthracene	22	15	7.7
Benzo(a)pyrene	19	15	7.7
Benzo(b)fluoranthene	25	15	7.7
Benzo(k)fluoranthene	ND	15	7.7
Benzo(g,h,i)perylene	25	15	7.7
Chrysene	27	15	7.7
Dibenzo(a,h)anthracene	ND	15	7.7
Fluoranthene	23	15	7.7
Fluorene	ND	15	7.7
Indeno(1,2,3-cd)pyrene	9.6J	15	7.7
Naphthalene	ND	15	7.7
Phenanthrene	13J	15	7.7
Pyrene	25	15	7.7
2-Methylnaphthalene	ND	15	7.7
1-Methylnaphthalene	ND	15	7.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	648	686	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B15-2	Date Analyzed:	05/07/18 17:38
Lab Samp ID:	18D139-17	Dilution Factor:	2
Lab File ID:	REJ185	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	4.6
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	10	5.2
Acenaphthylene	ND	10	5.2
Anthracene	ND	10	5.2
Benzo(a)anthracene	18	10	5.2
Benzo(a)pyrene	14	10	5.2
Benzo(b)fluoranthene	16	10	5.2
Benzo(k)fluoranthene	ND	10	5.2
Benzo(g,h,i)perylene	17	10	5.2
Chrysene	22	10	5.2
Dibenzo(a,h)anthracene	ND	10	5.2
Fluoranthene	15	10	5.2
Fluorene	ND	10	5.2
Indeno(1,2,3-cd)pyrene	7.0J	10	5.2
Naphthalene	ND	10	5.2
Phenanthrene	12	10	5.2
Pyrene	19	10	5.2
2-Methylnaphthalene	ND	10	5.2
1-Methylnaphthalene	ND	10	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	712	699	102	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30.01g	Final Volume :	2ml
Prepared by	: JVille	Analyzed by :	KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/26/18 15:14
Sample ID	: B15-5	Date Analyzed:	05/07/18 17:56
Lab Samp ID:	18D139-18	Dilution Factor:	1
Lab File ID:	REJ186	Matrix:	SOIL
Ext Btch ID:	18SVD040S	% Moisture:	20.8
Calib. Ref.:	RBJ167	Instrument ID:	E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.3	3.2
Acenaphthylene	ND	6.3	3.2
Anthracene	ND	6.3	3.2
Benzo(a)anthracene	ND	6.3	3.2
Benzo(a)pyrene	ND	6.3	3.2
Benzo(b)fluoranthene	ND	6.3	3.2
Benzo(k)fluoranthene	ND	6.3	3.2
Benzo(g,h,i)perylene	ND	6.3	3.2
Chrysene	ND	6.3	3.2
Dibenzo(a,h)anthracene	ND	6.3	3.2
Fluoranthene	ND	6.3	3.2
Fluorene	ND	6.3	3.2
Indeno(1,2,3-cd)pyrene	ND	6.3	3.2
Naphthalene	ND	6.3	3.2
Phenanthrene	ND	6.3	3.2
Pyrene	ND	6.3	3.2
2-Methylnaphthalene	ND	6.3	3.2
1-Methylnaphthalene	ND	6.3	3.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	791	842	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 30g	Final Volume	: 2ml
Prepared by	: JVille	Analyzed by	: KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/17/18 09:48
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : B14-2D	Date Analyzed: 05/07/18 18:15
Lab Samp ID: 18D139-19	Dilution Factor: 5
Lab File ID: REJ187	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: 6.4
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	130	67
Acenaphthylene	ND	130	67
Anthracene	ND	130	67
Benzo(a)anthracene	95J	130	67
Benzo(a)pyrene	ND	130	67
Benzo(b)fluoranthene	ND	130	67
Benzo(k)fluoranthene	ND	130	67
Benzo(g,h,i)perylene	79J	130	67
Chrysene	110J	130	67
Dibenzo(a,h)anthracene	ND	130	67
Fluoranthene	ND	130	67
Fluorene	ND	130	67
Indeno(1,2,3-cd)pyrene	ND	130	67
Naphthalene	ND	130	67
Phenanthrene	ND	130	67
Pyrene	72J	130	67
2-Methylnaphthalene	ND	130	67
1-Methylnaphthalene	ND	130	67

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	3190	3550	90	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 6.01g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

QC SUMMARIES

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/26/18 15:14
Project : POLA-1500 I STREET	Date Received: 04/26/18
Batch No. : 18D139	Date Extracted: 04/26/18 15:14
Sample ID : MBLK1S	Date Analyzed: 05/04/18 11:26
Lab Samp ID: SVD040SB	Dilution Factor: 1
Lab File ID: REJ125	Matrix: SOIL
Ext Btch ID: 18SVD040S	% Moisture: NA
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.0	2.5
Acenaphthylene	ND	5.0	2.5
Anthracene	ND	5.0	2.5
Benzo(a)anthracene	ND	5.0	2.5
Benzo(a)pyrene	ND	5.0	2.5
Benzo(b)fluoranthene	ND	5.0	2.5
Benzo(k)fluoranthene	ND	5.0	2.5
Benzo(g,h,i)perylene	ND	5.0	2.5
Chrysene	ND	5.0	2.5
Dibenzo(a,h)anthracene	ND	5.0	2.5
Fluoranthene	ND	5.0	2.5
Fluorene	ND	5.0	2.5
Indeno(1,2,3-cd)pyrene	ND	5.0	2.5
Naphthalene	ND	5.0	2.5
Phenanthrene	ND	5.0	2.5
Pyrene	ND	5.0	2.5
2-Methylnaphthalene	ND	5.0	2.5
1-Methylnaphthalene	ND	5.0	2.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	670	667	101	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: SVD040SB	SVD040SL	SVD040SC
LAB FILE ID	: REJ125	REJ126	REJ127
DATE PREPARED	: 04/26/18 15:14	04/26/18 15:14	04/26/18 15:14
DATE ANALYZED	: 05/04/18 11:26	05/04/18 11:45	05/04/18 12:03
PREP BATCH	: 18SVD040S	18SVD040S	18SVD040S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	MBResult (ug/kg)	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1330	1220	92	1330	998	75	20	45-110	30
Acenaphthylene	ND	1330	1350	101	1330	1100	83	20	45-105	30
Anthracene	ND	1330	1240	93	1330	1070	80	15	55-105	30
Benzo(a)anthracene	ND	1330	1460	110	1330	1250	94	15	50-110	30
Benzo(a)pyrene	ND	1330	1400	105	1330	1190	89	16	50-110	30
Benzo(b)fluoranthene	ND	1330	1310	98	1330	1110	83	17	45-115	30
Benzo(k)fluoranthene	ND	1330	1400	105	1330	1210	91	15	45-125	30
Benzo(g,h,i)perylene	ND	1330	1360	102	1330	1160	87	16	40-125	30
Chrysene	ND	1330	1520	114*	1330	1300	98	16	55-110	30
Dibenzo(a,h)anthracene	ND	1330	1460	110	1330	1240	93	16	40-125	30
Fluoranthene	ND	1330	1400	105	1330	1200	90	15	55-115	30
Fluorene	ND	1330	1340	101	1330	1090	82	21	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1330	1420	107	1330	1220	92	15	40-120	30
Naphthalene	ND	1330	1130	85	1330	968	73	15	40-105	30
Phenanthrene	ND	1330	1180	89	1330	1010	76	16	50-110	30
Pyrene	ND	1330	1390	104	1330	1190	89	16	45-125	30
2-Methylnaphthalene	ND	1330	1120	84	1330	947	71	17	45-105	30
1-Methylnaphthalene	ND	1330	1140	86	1330	959	72	17	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	667	781	117	667	669	100	30-125

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:12.5
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-5	B7-5MS	B7-5MSD
LAB SAMPLE ID	: 18D139-01	18D139-01M	18D139-01S
LAB FILE ID	: REJ145	REJ154	REJ155
DATE PREPARED	: 04/26/18 15:14	04/26/18 15:14	04/26/18 15:14
DATE ANALYZED	: 05/04/18 17:40	05/04/18 20:29	05/04/18 20:47
PREP BATCH	: 18SVD040S	18SVD040S	18SVD040S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	PSResult (ug/kg)	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1520	1130	74	1520	1120	74	1	45-110	30
Acenaphthylene	ND	1520	1250	82	1520	1230	81	2	45-105	30
Anthracene	ND	1520	1230	81	1520	1170	77	5	55-105	30
Benzo(a)anthracene	ND	1520	1410	93	1520	1330	87	6	50-110	30
Benzo(a)pyrene	ND	1520	1360	89	1520	1320	87	3	50-110	30
Benzo(b)fluoranthene	ND	1520	1300	85	1520	1300	85	0	45-115	30
Benzo(k)fluoranthene	ND	1520	1370	90	1520	1300	85	5	45-125	30
Benzo(g,h,i)perylene	ND	1520	1300	85	1520	1240	81	5	40-125	30
Chrysene	ND	1520	1420	93	1520	1350	89	5	55-110	30
Dibenzo(a,h)anthracene	ND	1520	1390	91	1520	1320	87	5	40-125	30
Fluoranthene	ND	1520	1380	91	1520	1320	87	4	55-115	30
Fluorene	ND	1520	1240	81	1520	1230	81	1	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1520	1360	89	1520	1300	85	5	40-120	30
Naphthalene	ND	1520	1080	71	1520	1040	68	4	40-105	30
Phenanthrene	ND	1520	1170	77	1520	1120	74	4	50-110	30
Pyrene	ND	1520	1370	90	1520	1310	86	4	45-125	30
2-Methylnaphthalene	ND	1520	1060	70	1520	1020	67	4	45-105	30
1-Methylnaphthalene	ND	1520	1080	71	1520	1030	68	5	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	QCLimit (%)
Terphenyl-d14	762	729	96	762	744	98	30-125

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD009SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD009SL/GMD009SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1S	GMD009SL	1	NA	04/19/1816:41	04/19/1813:00	ED19004A	ED19003A	18GMD009S	Lab Control Sample (LCS)
LCD1S	GMD009SC	1	NA	04/19/1817:20	04/19/1813:00	ED19005A	ED19003A	18GMD009S	LCS Duplicate
MBLK1S	GMD009SB	1	NA	04/19/1817:59	04/19/1813:00	ED19006A	ED19003A	18GMD009S	Method Blank
B7-5	18D139-01I	1	12.5	04/19/1818:38	04/19/1813:00	ED19007A	ED19003A	18GMD009S	Diluted Sample
B7-10	18D139-02I	1	22.6	04/19/1819:17	04/19/1813:00	ED19008A	ED19003A	18GMD009S	Diluted Sample
B7-15	18D139-03I	1	13.5	04/19/1819:55	04/19/1813:00	ED19009A	ED19003A	18GMD009S	Diluted Sample
B8-0.5	18D139-04I	1	2.8	04/19/1820:34	04/19/1813:00	ED19010A	ED19003A	18GMD009S	Diluted Sample
B8-2	18D139-05I	1	12.1	04/19/1821:13	04/19/1813:00	ED19011A	ED19003A	18GMD009S	Diluted Sample
B8-5	18D139-06I	1	14.5	04/19/1821:52	04/19/1813:00	ED19012A	ED19003A	18GMD009S	Diluted Sample
B8-10	18D139-07I	1	22.4	04/19/1822:30	04/19/1813:00	ED19013A	ED19003A	18GMD009S	Diluted Sample
B9-0.5	18D139-08I	1	2.3	04/19/1823:09	04/19/1813:00	ED19014A	ED19003A	18GMD009S	Diluted Sample
B9-2	18D139-09I	1	4.6	04/19/1823:47	04/19/1813:00	ED19015A	ED19003A	18GMD009S	Diluted Sample
B8-0.5D	18D139-10I	1	2.5	04/20/1801:04	04/19/1813:00	ED19017A	ED19016A	18GMD009S	Diluted Sample
B14-0.5	18D139-11I	1	2.7	04/20/1801:43	04/19/1813:00	ED19018A	ED19016A	18GMD009S	Diluted Sample
B14-2	18D139-12I	1	6.8	04/20/1802:21	04/19/1813:00	ED19019A	ED19016A	18GMD009S	Diluted Sample
B14-5	18D139-13I	1	12.0	04/20/1803:00	04/19/1813:00	ED19020A	ED19016A	18GMD009S	Diluted Sample
B14-10	18D139-14I	1	11.8	04/20/1803:38	04/19/1813:00	ED19021A	ED19016A	18GMD009S	Diluted Sample
B14-15	18D139-15I	1	13.5	04/20/1804:17	04/19/1813:00	ED19022A	ED19016A	18GMD009S	Diluted Sample
B15-0.5	18D139-16I	1	2.8	04/20/1804:55	04/19/1813:00	ED19023A	ED19016A	18GMD009S	Diluted Sample
B15-2	18D139-17I	1	4.6	04/20/1805:33	04/19/1813:00	ED19024A	ED19016A	18GMD009S	Diluted Sample
B15-5	18D139-18I	1	20.8	04/20/1806:12	04/19/1813:00	ED19025A	ED19016A	18GMD009S	Diluted Sample
B14-2D	18D139-19I	1	6.4	04/20/1806:50	04/19/1813:00	ED19026A	ED19016A	18GMD009S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:09
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B7-5	Date Analyzed:	04/19/18 18:38
Lab Samp ID:	18D139-01I	Dilution Factor:	1
Lab File ID:	ED19007A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	12.5
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.85	0.42

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.36	1.69	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.773g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B7-10	Date Analyzed:	04/19/18 19:17
Lab Samp ID:	18D139-02I	Dilution Factor:	1
Lab File ID:	ED19008A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	22.6
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.3	0.64

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.11	2.56	83	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.063g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:28
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B7-15	Date Analyzed:	04/19/18 19:55
Lab Samp ID:	18D139-03I	Dilution Factor:	1
Lab File ID:	ED19009A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	13.5
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.54

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.69	2.15	79	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.394g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-0.5	Date Analyzed:	04/19/18 20:34
Lab Samp ID:	18D139-04I	Dilution Factor:	1
Lab File ID:	ED19010A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.8
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.52

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.71	2.10	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.883g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:31
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-2	Date Analyzed:	04/19/18 21:13
Lab Samp ID:	18D139-05I	Dilution Factor:	1
Lab File ID:	ED19011A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	12.1
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.64	2.00	82	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.685g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-5	Date Analyzed:	04/19/18 21:52
Lab Samp ID:	18D139-06I	Dilution Factor:	1
Lab File ID:	ED19012A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	14.5
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.67	2.13	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.477g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:52
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-10	Date Analyzed:	04/19/18 22:30
Lab Samp ID:	18D139-07I	Dilution Factor:	1
Lab File ID:	ED19013A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	22.4
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.71	2.11	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 6.067g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 12:55
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B9-0.5	Date Analyzed:	04/19/18 23:09
Lab Samp ID:	18D139-08I	Dilution Factor:	1
Lab File ID:	ED19014A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.3
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.57

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.77	2.27	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.488g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 13:01
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B9-2	Date Analyzed:	04/19/18 23:47
Lab Samp ID:	18D139-09I	Dilution Factor:	1
Lab File ID:	ED19015A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	4.6
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.77	2.18	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.794g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B8-0.5D	Date Analyzed:	04/20/18 01:04
Lab Samp ID:	18D139-10I	Dilution Factor:	1
Lab File ID:	ED19017A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.5
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.58	2.01	79	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.113g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:41
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-0.5	Date Analyzed:	04/20/18 01:43
Lab Samp ID:	18D139-11I	Dilution Factor:	1
Lab File ID:	ED19018A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.7
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.72	2.14	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.801g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-2	Date Analyzed:	04/20/18 02:21
Lab Samp ID:	18D139-12I	Dilution Factor:	1
Lab File ID:	ED19019A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	6.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.54

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.75	2.15	81	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.979g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:06
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-5	Date Analyzed:	04/20/18 03:00
Lab Samp ID:	18D139-13I	Dilution Factor:	1
Lab File ID:	ED19020A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	12.0
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.75	2.18	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.187g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:13
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-10	Date Analyzed:	04/20/18 03:38
Lab Samp ID:	18D139-14I	Dilution Factor:	1
Lab File ID:	ED19021A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	11.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.61	2.02	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.613g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-15	Date Analyzed:	04/20/18 04:17
Lab Samp ID:	18D139-15I	Dilution Factor:	1
Lab File ID:	ED19022A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	13.5
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.57

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.81	2.27	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.117g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B15-0.5	Date Analyzed:	04/20/18 04:55
Lab Samp ID:	18D139-16I	Dilution Factor:	1
Lab File ID:	ED19023A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	2.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.51

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.62	2.04	80	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.057g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B15-2	Date Analyzed:	04/20/18 05:33
Lab Samp ID:	18D139-17I	Dilution Factor:	1
Lab File ID:	ED19024A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	4.6
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.56

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.74	2.22	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.701g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B15-5	Date Analyzed:	04/20/18 06:12
Lab Samp ID:	18D139-18I	Dilution Factor:	1
Lab File ID:	ED19025A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	20.8
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.4	0.69

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	2.09	2.75	76	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 4.593g	Final Volume	: 5ml (100uL extract)
Prepared by	: SCerva	Analyzed by	: SCerva

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/17/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: B14-2D	Date Analyzed:	04/20/18 06:50
Lab Samp ID:	18D139-19I	Dilution Factor:	1
Lab File ID:	ED19026A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	6.4
Calib. Ref.:	ED19016A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.66	2.14	78	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.02g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/19/18 13:00
Project	: POLA-1500 I STREET	Date Received:	04/19/18
Batch No.	: 18D139	Date Extracted:	04/19/18 13:00
Sample ID	: MBLK1S	Date Analyzed:	04/19/18 17:59
Lab Samp ID:	GMD009SB	Dilution Factor:	1
Lab File ID:	ED19006A	Matrix:	SOIL
Ext Btch ID:	18GMD009S	% Moisture:	NA
Calib. Ref.:	ED19003A	Instrument ID:	39

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	1.74	2.00	87	10-160

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5g	Final Volume :	5ml (100uL extract)
Prepared by	: SCerva	Analyzed by :	SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : SW5035A/SW8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: GMD009SB	GMD009SL	GMD009SC
LAB FILE ID	: ED19006A	ED19004A	ED19005A
DATE PREPARED	: 04/19/18 13:00	04/19/18 13:00	04/19/18 13:00
DATE ANALYZED	: 04/19/18 17:59	04/19/18 16:41	04/19/18 17:20
PREP BATCH	: 18GMD009S	18GMD009S	18GMD009S
CALIBRATION REF	: ED19003A	ED19003A	ED19003A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	25.0	24.4	98	25.0	24.6	98	1	60-130	50

SURROGATE PARAMETER	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	2.00	2.06	103	2.00	2.07	104	70-140

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD022SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD022SL/DSD022SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 8D139-03M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D139-04I, -08, -09, -10I, -11I, -12I, -16, -17, and -19I displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSD022SB	1	NA	04/25/1819:01	04/23/1816:30	LD24102A	LD24093A	18DSD022S	Method Blank
LCS1S	DSD022SL	1	NA	04/25/1819:18	04/23/1816:30	LD24103A	LD24093A	18DSD022S	Lab Control Sample (LCS)
LCD1S	DSD022SC	1	NA	04/25/1819:35	04/23/1816:30	LD24104A	LD24093A	18DSD022S	LCS Duplicate
B7-5	D139-01	1	12.5	04/25/1819:51	04/23/1816:30	LD24105A	LD24093A	18DSD022S	Field Sample
B7-10	D139-02	1	22.6	04/25/1820:08	04/23/1816:30	LD24106A	LD24093A	18DSD022S	Field Sample
B8-0.5	D139-04I	5	2.8	04/25/1820:25	04/23/1816:30	LD24107A	LD24093A	18DSD022S	Diluted Sample
B7-15	D139-03	1	13.5	04/25/1821:15	04/23/1816:30	LD24110A	LD24108A	18DSD022S	Field Sample
B7-15MS	D139-03M	1	13.5	04/25/1821:32	04/23/1816:30	LD24111A	LD24108A	18DSD022S	Matrix Spike Sample (MS)
B7-15MSD	D139-03S	1	13.5	04/25/1821:48	04/23/1816:30	LD24112A	LD24108A	18DSD022S	MS Duplicate (MSD)
B8-2	D139-05	1	12.1	04/25/1822:05	04/23/1816:30	LD24113A	LD24108A	18DSD022S	Field Sample
B8-5	D139-06	1	14.5	04/25/1822:22	04/23/1816:30	LD24114A	LD24108A	18DSD022S	Field Sample
B8-10	D139-07	1	22.4	04/25/1822:38	04/23/1816:30	LD24115A	LD24108A	18DSD022S	Field Sample
B9-0.5	D139-08	1	2.3	04/25/1822:55	04/23/1816:30	LD24116A	LD24108A	18DSD022S	Field Sample
B9-2	D139-09	1	4.6	04/25/1823:12	04/23/1816:30	LD24117A	LD24108A	18DSD022S	Field Sample
B8-0.5D	D139-10I	5	2.5	04/25/1823:29	04/23/1816:30	LD24118A	LD24108A	18DSD022S	Diluted Sample
B14-0.5	D139-11I	8	2.7	04/25/1823:45	04/23/1816:30	LD24119A	LD24108A	18DSD022S	Diluted Sample
B14-2	D139-12I	5	6.8	04/26/1800:35	04/23/1816:30	LD24122A	LD24120A	18DSD022S	Diluted Sample
B14-5	D139-13	1	12.0	04/26/1800:52	04/23/1816:30	LD24123A	LD24120A	18DSD022S	Field Sample
B14-10	D139-14	1	11.8	04/26/1801:08	04/23/1816:30	LD24124A	LD24120A	18DSD022S	Field Sample
B14-15	D139-15	1	13.5	04/26/1801:25	04/23/1816:30	LD24125A	LD24120A	18DSD022S	Field Sample
B15-0.5	D139-16	1	2.8	04/26/1801:42	04/23/1816:30	LD24126A	LD24120A	18DSD022S	Field Sample
B15-2	D139-17	1	4.6	04/26/1801:58	04/23/1816:30	LD24127A	LD24120A	18DSD022S	Field Sample
B15-5	D139-18	1	20.8	04/26/1802:15	04/23/1816:30	LD24128A	LD24120A	18DSD022S	Field Sample
B14-2D	D139-19I	5	6.4	04/26/1802:32	04/23/1816:30	LD24129A	LD24120A	18DSD022S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:09
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B7-5	Date Analyzed:	04/25/18 19:51
Lab Samp ID:	18D139-01	Dilution Factor:	1
Lab File ID:	LD24105A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	12.5
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	111	114	97	50-130
Hexacosane	30.6	28.6	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B7-10	Date Analyzed:	04/25/18 20:08
Lab Samp ID:	18D139-02	Dilution Factor:	1
Lab File ID:	LD24106A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	22.6
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.5
Motor Oil	ND	26	6.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	124	129	96	50-130
Hexacosane	33.8	32.3	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:28
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B7-15	Date Analyzed:	04/25/18 21:15
Lab Samp ID:	18D139-03	Dilution Factor:	1
Lab File ID:	LD24110A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	13.5
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	116	90	50-130
Hexacosane	28.4	28.9	98	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-0.5	Date Analyzed:	04/25/18 20:25
Lab Samp ID:	18D139-04I	Dilution Factor:	5
Lab File ID:	LD24107A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.8
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	65	51	26
Motor Oil	750	100	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	103	102	50-130
Hexacosane	29.2	25.7	114	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:31
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-2	Date Analyzed:	04/25/18 22:05
Lab Samp ID:	18D139-05	Dilution Factor:	1
Lab File ID:	LD24113A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	12.1
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	117	114	103	50-130
Hexacosane	32.3	28.4	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-5	Date Analyzed:	04/25/18 22:22
Lab Samp ID:	18D139-06	Dilution Factor:	1
Lab File ID:	LD24114A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	14.5
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	116	117	99	50-130
Hexacosane	32.5	29.2	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:52
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-10	Date Analyzed:	04/25/18 22:38
Lab Samp ID:	18D139-07	Dilution Factor:	1
Lab File ID:	LD24115A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	22.4
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.4
Motor Oil	ND	26	6.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	129	129	100	50-130
Hexacosane	35.5	32.2	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 12:55
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B9-0.5	Date Analyzed:	04/25/18 22:55
Lab Samp ID:	18D139-08	Dilution Factor:	1
Lab File ID:	LD24116A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.3
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	7.1J	10	5.1
Motor Oil	260	20	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	99.3	102	97	50-130
Hexacosane	25.8	25.6	101	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 13:01
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B9-2	Date Analyzed:	04/25/18 23:12
Lab Samp ID:	18D139-09	Dilution Factor:	1
Lab File ID:	LD24117A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	4.6
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.2
Motor Oil	140	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	109	105	104	50-130
Hexacosane	29.5	26.2	112	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B8-0.5D	Date Analyzed:	04/25/18 23:29
Lab Samp ID:	18D139-10I	Dilution Factor:	5
Lab File ID:	LD24118A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.5
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	19J	51	26
Motor Oil	550	100	26

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	107	103	104	50-130
Hexacosane	30.4	25.6	118	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:41
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-0.5	Date Analyzed:	04/25/18 23:45
Lab Samp ID:	18D139-11I	Dilution Factor:	8
Lab File ID:	LD24119A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.7
Calib. Ref.:	LD24108A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	35J	82	41
Motor Oil	2100	160	41

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	95.2	103	93	50-130
Hexacosane	26.9	25.7	105	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:46
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-2	Date Analyzed:	04/26/18 00:35
Lab Samp ID:	18D139-12I	Dilution Factor:	5
Lab File ID:	LD24122A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	6.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	41J	54	27
Motor Oil	910	110	27

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	113	107	106	50-130
Hexacosane	32.0	26.8	119	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:06
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-5	Date Analyzed:	04/26/18 00:52
Lab Samp ID:	18D139-13	Dilution Factor:	1
Lab File ID:	LD24123A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	12.0
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	106	114	93	50-130
Hexacosane	30.4	28.4	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:13
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-10	Date Analyzed:	04/26/18 01:08
Lab Samp ID:	18D139-14	Dilution Factor:	1
Lab File ID:	LD24124A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	11.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	ND	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	110	113	97	50-130
Hexacosane	30.6	28.3	108	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-15	Date Analyzed:	04/26/18 01:25
Lab Samp ID:	18D139-15	Dilution Factor:	1
Lab File ID:	LD24125A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	13.5
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	113	116	98	50-130
Hexacosane	32.0	28.9	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:44
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B15-0.5	Date Analyzed:	04/26/18 01:42
Lab Samp ID:	18D139-16	Dilution Factor:	1
Lab File ID:	LD24126A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	2.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.1
Motor Oil	110	21	5.1

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	103	103	100	50-130
Hexacosane	29.0	25.7	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B15-2	Date Analyzed:	04/26/18 01:58
Lab Samp ID:	18D139-17	Dilution Factor:	1
Lab File ID:	LD24127A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	4.6
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.2
Motor Oil	99	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	107	105	102	50-130
Hexacosane	29.8	26.2	114	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B15-5	Date Analyzed:	04/26/18 02:15
Lab Samp ID:	18D139-18	Dilution Factor:	1
Lab File ID:	LD24128A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	20.8
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.3
Motor Oil	ND	25	6.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	125	126	99	50-130
Hexacosane	33.8	31.6	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/17/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: B14-2D	Date Analyzed:	04/26/18 02:32
Lab Samp ID:	18D139-19I	Dilution Factor:	5
Lab File ID:	LD24129A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	6.4
Calib. Ref.:	LD24120A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	41J	53	27
Motor Oil	930	110	27

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	102	107	96	50-130
Hexacosane	29.4	26.7	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume :	10ml
Prepared by	: TWangc	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 16:30
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:30
Sample ID	: MBLK1S	Date Analyzed:	04/25/18 19:01
Lab Samp ID:	DSD022SB	Dilution Factor:	1
Lab File ID:	LD24102A	Matrix:	SOIL
Ext Btch ID:	18DSD022S	% Moisture:	NA
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	104	100	104	50-130
Hexacosane	28.2	25.0	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume	: 10ml
Prepared by	: TWangc	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: DSD022SB	DSD022SL	DSD022SC
LAB FILE ID	: LD24102A	LD24103A	LD24104A
DATE PREPARED	: 04/23/18 16:30	04/23/18 16:30	04/23/18 16:30
DATE ANALYZED	: 04/25/18 19:01	04/25/18 19:18	04/25/18 19:35
PREP BATCH	: 18DSD022S	18DSD022S	18DSD022S
CALIBRATION REF	: LD24093A	LD24093A	LD24093A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	583	117	500	564	113	3	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	106	106	100	106	106	50-130
Hexacosane	25.0	29.6	118	25.0	30.1	120	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:13.5
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-15	B7-15MS	B7-15MSD
LAB SAMPLE ID	: 18D139-03	18D139-03M	18D139-03S
LAB FILE ID	: LD24110A	LD24111A	LD24112A
DATE PREPARED	: 04/23/18 16:30	04/23/18 16:30	04/23/18 16:30
DATE ANALYZED	: 04/25/18 21:15	04/25/18 21:32	04/25/18 21:48
PREP BATCH	: 18DSD022S	18DSD022S	18DSD022S
CALIBRATION REF	: LD24108A	LD24108A	LD24108A

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	578	670	116	578	670	116	0	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	QCLimit (%)
Bromobenzene	116	124	107	116	125	108	50-130
Hexacosane	28.9	33.2	115	28.9	32.1	111	40-160

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD SW3550B/SW8082
PCBS

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D017SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D017SL/60D017SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. D139-09M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D017SB	1	NA	04/24/1814:06	04/23/1816:32	KD24008A	KD24002A	CPD017S	Method Blank
LCS1S	60D017SL	1	NA	04/24/1814:26	04/23/1816:32	KD24009A	KD24002A	CPD017S	Lab Control Sample (LCS)
LCD1S	60D017SC	1	NA	04/24/1814:46	04/23/1816:32	KD24010A	KD24002A	CPD017S	LCS Duplicate
B7-5	D139-01	1	12.5	04/24/1815:06	04/23/1816:32	KD24011A	KD24002A	CPD017S	Field Sample
B7-10	D139-02	1	22.6	04/24/1815:26	04/23/1816:32	KD24012A	KD24002A	CPD017S	Field Sample
B7-15	D139-03	1	13.5	04/24/1815:47	04/23/1816:32	KD24013A	KD24002A	CPD017S	Field Sample
B8-0.5	D139-04	1	2.8	04/24/1816:07	04/23/1816:32	KD24014A	KD24002A	CPD017S	Field Sample
B8-2	D139-05	1	12.1	04/24/1816:27	04/23/1816:32	KD24015A	KD24002A	CPD017S	Field Sample
B8-5	D139-06	1	14.5	04/24/1816:47	04/23/1816:32	KD24016A	KD24002A	CPD017S	Field Sample
B8-10	D139-07	1	22.4	04/24/1817:07	04/23/1816:32	KD24017A	KD24002A	CPD017S	Field Sample
B9-0.5	D139-08	1	2.3	04/24/1817:28	04/23/1816:32	KD24018A	KD24002A	CPD017S	Field Sample
B9-2	D139-09	1	4.6	04/24/1817:48	04/23/1816:32	KD24019A	KD24002A	CPD017S	Field Sample
B9-2MS	D139-09M	1	4.6	04/24/1819:09	04/23/1816:32	KD24023A	KD24021A	CPD017S	Matrix Spike Sample (MS)
B9-2MSD	D139-09S	1	4.6	04/24/1819:29	04/23/1816:32	KD24024A	KD24021A	CPD017S	MS Duplicate (MSD)
B8-0.5D	D139-10	1	2.5	04/24/1819:49	04/23/1816:32	KD24025A	KD24021A	CPD017S	Field Sample
B14-0.5	D139-11	1	2.7	04/24/1820:09	04/23/1816:32	KD24026A	KD24021A	CPD017S	Field Sample
B14-2	D139-12	1	6.8	04/24/1820:30	04/23/1816:32	KD24027A	KD24021A	CPD017S	Field Sample
B14-5	D139-13	1	12.0	04/24/1820:50	04/23/1816:32	KD24028A	KD24021A	CPD017S	Field Sample
B14-10	D139-14	1	11.8	04/24/1821:10	04/23/1816:32	KD24029A	KD24021A	CPD017S	Field Sample
B14-15	D139-15	1	13.5	04/24/1821:30	04/23/1816:32	KD24030A	KD24021A	CPD017S	Field Sample
B15-0.5	D139-16	1	2.8	04/24/1821:50	04/23/1816:32	KD24031A	KD24021A	CPD017S	Field Sample
B15-2	D139-17	1	4.6	04/24/1822:10	04/23/1816:32	KD24032A	KD24021A	CPD017S	Field Sample
B15-5	D139-18	1	20.8	04/24/1823:51	04/23/1816:32	KD24037A	KD24034A	CPD017S	Field Sample
B14-2D	D139-19	1	6.4	04/25/1800:11	04/23/1816:32	KD24038A	KD24034A	CPD017S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B7-5	Date Analyzed	: 04/24/18 15:06
Lab Samp ID	: D139-01	Dilution Factor	: 1
Lab File ID	: KD24011A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 12.5
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.60 | (16.65)	15.23	102 | (109)	50-130
DECACHLOROBIPHENYL	(18.94) | 17.28	15.23	(124) | 113	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B7-10	Date Analyzed:	04/24/18 15:26
Lab Samp ID:	D139-02	Dilution Factor:	1
Lab File ID:	KD24012A	Matrix	: SOIL
Ext Btch ID:	CPD017S	% Moisture	: 22.6
Calib. Ref.:	KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	65	22 | 22
PCB-1221	(ND) | ND	65	22 | 22
PCB-1232	(ND) | ND	65	22 | 22
PCB-1242	(ND) | ND	65	22 | 22
PCB-1248	(ND) | ND	65	22 | 22
PCB-1254	(ND) | ND	65	22 | 22
PCB-1260	(ND) | ND	65	22 | 22

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	16.51 | (18.24)	17.22	95.9 | (106)	50-130
DECACHLOROBIPHENYL	(20.27) | 18.12	17.22	(118) | 105	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
 * Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B7-15	Date Analyzed: 04/24/18 15:47
Lab Samp ID: D139-03	Dilution Factor: 1
Lab File ID: KD24013A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 13.5
Calib. Ref.: KD24002A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	19 | 19
PCB-1221	(ND) | ND	58	19 | 19
PCB-1232	(ND) | ND	58	19 | 19
PCB-1242	(ND) | ND	58	19 | 19
PCB-1248	(ND) | ND	58	19 | 19
PCB-1254	(ND) | ND	58	19 | 19
PCB-1260	(ND) | ND	58	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.34 | (16.00)	15.41	93.1 | (104)	50-130
DECACHLOROBIPHENYL	(18.00) | 16.35	15.41	(117) | 106	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID	: B8-0.5	Date Analyzed:	04/24/18 16:07
Lab Samp ID	: D139-04	Dilution Factor:	1
Lab File ID	: KD24014A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 2.8
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)		RL (ug/kg)	MDL (ug/kg)	
PCB-1016	(ND)	ND	51	17	17
PCB-1221	(ND)	ND	51	17	17
PCB-1232	(ND)	ND	51	17	17
PCB-1242	(ND)	ND	51	17	17
PCB-1248	(ND)	ND	51	17	17
PCB-1254	(250)	220	51	17	17
PCB-1260	(230)	200	51	17	17

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	12.48	(14.11)	13.71	91.0	(103)	50-130
DECACHLOROBIPHENYL	(15.88)	15.14	13.71	(116)	110	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B8-2	Date Analyzed	: 04/24/18 16:27
Lab Samp ID	: D139-05	Dilution Factor	: 1
Lab File ID	: KD24015A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 12.1
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.55 | (14.61)	15.16	95.9 | (96.4)	50-130
DECACHLOROBIPHENYL	(21.16) | 15.46	15.16	(140) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B8-5	Date Analyzed	: 04/24/18 16:47
Lab Samp ID	: D139-06	Dilution Factor	: 1
Lab File ID	: KD24016A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 14.5
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	20 | 20
PCB-1221	(ND) | ND	58	20 | 20
PCB-1232	(ND) | ND	58	20 | 20
PCB-1242	(ND) | ND	58	20 | 20
PCB-1248	(ND) | ND	58	20 | 20
PCB-1254	(ND) | ND	58	20 | 20
PCB-1260	(ND) | ND	58	20 | 20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.37 | (16.39)	15.59	98.6 | (105)	50-130
DECACHLOROBIPHENYL	(18.58) | 16.95	15.59	(119) | 109	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B8-10	Date Analyzed: 04/24/18 17:07
Lab Samp ID: D139-07	Dilution Factor: 1
Lab File ID: KD24017A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 22.4
Calib. Ref.: KD24002A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	64	22 | 22
PCB-1221	(ND) | ND	64	22 | 22
PCB-1232	(ND) | ND	64	22 | 22
PCB-1242	(ND) | ND	64	22 | 22
PCB-1248	(ND) | ND	64	22 | 22
PCB-1254	(ND) | ND	64	22 | 22
PCB-1260	(ND) | ND	64	22 | 22

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.75 | (17.31)	17.18	91.7 | (101)	50-130
DECACHLOROBIPHENYL	(19.92) | 19.52	17.18	(116) | 114	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B9-0.5	Date Analyzed:	04/24/18 17:28
Lab Samp ID:	D139-08	Dilution Factor:	1
Lab File ID:	KD24018A	Matrix :	SOIL
Ext Btch ID:	CPD017S	% Moisture :	2.3
Calib. Ref.:	KD24002A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	62 | (63)	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.39 | (14.49)	13.64	98.1 | (106)	50-130
DECACHLOROBIPHENYL	(14.60) | 14.17	13.64	(107) | 104	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B9-2	Date Analyzed	: 04/24/18 17:48
Lab Samp ID	: D139-09	Dilution Factor	: 1
Lab File ID	: KD24019A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 4.6
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	18 | 18
PCB-1221	(ND) | ND	52	18 | 18
PCB-1232	(ND) | ND	52	18 | 18
PCB-1242	(ND) | ND	52	18 | 18
PCB-1248	(ND) | ND	52	18 | 18
PCB-1254	(ND) | ND	52	18 | 18
PCB-1260	(21J) | 25J	52	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.49 | (14.24)	13.97	96.5 | (102)	50-130
DECACHLOROBIPHENYL	(15.93) | 14.73	13.97	(114) | 105	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B8-0.5D	Date Analyzed	: 04/24/18 19:49
Lab Samp ID	: D139-10	Dilution Factor	: 1
Lab File ID	: KD24025A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 2.5
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(220) | 200	51	17 | 17
PCB-1260	(210) | 190	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.29 | (13.38)	13.67	89.9 | (97.8)	50-130
DECACHLOROBIPHENYL	(16.92) | 14.52	13.67	(124) | 106	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B14-0.5	Date Analyzed:	04/24/18 20:09
Lab Samp ID:	D139-11	Dilution Factor:	1
Lab File ID:	KD24026A	Matrix :	SOIL
Ext Btch ID:	CPD017S	% Moisture :	2.7
Calib. Ref.:	KD24021A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(28J) | 26J	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.44 | (12.62)	13.70	90.8 | (92.1)	50-130
DECACHLOROBIPHENYL	(18.11) | 12.27	13.70	(132) | 89.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B14-2	Date Analyzed	: 04/24/18 20:30
Lab Samp ID	: D139-12	Dilution Factor	: 1
Lab File ID	: KD24027A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 6.8
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	54	18 | 18
PCB-1221	(ND) | ND	54	18 | 18
PCB-1232	(ND) | ND	54	18 | 18
PCB-1242	(ND) | ND	54	18 | 18
PCB-1248	(ND) | ND	54	18 | 18
PCB-1254	(ND) | ND	54	18 | 18
PCB-1260	35J | (40J)	54	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(12.48) | 11.92	14.30	(87.2) | 83.4	50-130
DECACHLOROBIPHENYL	(17.29) | 13.65	14.30	(121) | 95.4	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B14-5	Date Analyzed	: 04/24/18 20:50
Lab Samp ID	: D139-13	Dilution Factor	: 1
Lab File ID	: KD24028A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 12.0
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	57	19 | 19
PCB-1221	(ND) | ND	57	19 | 19
PCB-1232	(ND) | ND	57	19 | 19
PCB-1242	(ND) | ND	57	19 | 19
PCB-1248	(ND) | ND	57	19 | 19
PCB-1254	(ND) | ND	57	19 | 19
PCB-1260	(ND) | ND	57	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.51) | 12.87	15.15	(89.2) | 85.0	50-130
DECACHLOROBIPHENYL	(16.71) | 15.13	15.15	(110) | 99.9	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B14-10	Date Analyzed	: 04/24/18 21:10
Lab Samp ID	: D139-14	Dilution Factor	: 1
Lab File ID	: KD24029A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 11.8
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)		RL (ug/kg)	MDL (ug/kg)	
PCB-1016	(ND)	ND	57	19	19
PCB-1221	(ND)	ND	57	19	19
PCB-1232	(ND)	ND	57	19	19
PCB-1242	(ND)	ND	57	19	19
PCB-1248	(ND)	ND	57	19	19
PCB-1254	(ND)	ND	57	19	19
PCB-1260	(ND)	ND	57	19	19

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
TETRACHLORO-M-XYLENE	14.40	(14.55)	15.11	95.3	(96.3)	50-130
DECACHLOROBIPHENYL	(16.45)	14.93	15.11	(109)	98.8	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B14-15	Date Analyzed: 04/24/18 21:30
Lab Samp ID: D139-15	Dilution Factor: 1
Lab File ID: KD24030A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 13.5
Calib. Ref.: KD24021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	58	19 | 19
PCB-1221	(ND) | ND	58	19 | 19
PCB-1232	(ND) | ND	58	19 | 19
PCB-1242	(ND) | ND	58	19 | 19
PCB-1248	(ND) | ND	58	19 | 19
PCB-1254	(ND) | ND	58	19 | 19
PCB-1260	(ND) | ND	58	19 | 19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.85 | (15.46)	15.41	96.4 | (100)	50-130
DECACHLOROBIPHENYL	(17.47) | 15.40	15.41	(113) | 100	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected:	04/17/18
Project	: POLA-1500 I STREET	Date Received:	04/17/18
Batch No.	: 18D139	Date Extracted:	04/23/18 16:32
Sample ID:	B15-0.5	Date Analyzed:	04/24/18 21:50
Lab Samp ID:	D139-16	Dilution Factor:	1
Lab File ID:	KD24031A	Matrix	: SOIL
Ext Btch ID:	CPD017S	% Moisture	: 2.8
Calib. Ref.:	KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	51	17 | 17
PCB-1221	(ND) | ND	51	17 | 17
PCB-1232	(ND) | ND	51	17 | 17
PCB-1242	(ND) | ND	51	17 | 17
PCB-1248	(ND) | ND	51	17 | 17
PCB-1254	(ND) | ND	51	17 | 17
PCB-1260	(ND) | ND	51	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.58 | (14.49)	13.71	99.0 | (106)	50-130
DECACHLOROBIPHENYL	(15.37) | 13.65	13.71	(112) | 99.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: 04/17/18
Project	: POLA-1500 I STREET	Date Received	: 04/17/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: B15-2	Date Analyzed	: 04/24/18 22:10
Lab Samp ID	: D139-17	Dilution Factor	: 1
Lab File ID	: KD24032A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: 4.6
Calib. Ref.	: KD24021A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	18 | 18
PCB-1221	(ND) | ND	52	18 | 18
PCB-1232	(ND) | ND	52	18 | 18
PCB-1242	(ND) | ND	52	18 | 18
PCB-1248	(ND) | ND	52	18 | 18
PCB-1254	(ND) | ND	52	18 | 18
PCB-1260	(ND) | ND	52	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.73 | (14.23)	13.97	98.3 | (102)	50-130
DECACHLOROBIPHENYL	(15.61) | 13.81	13.97	(112) | 98.8	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B15-5	Date Analyzed: 04/24/18 23:51
Lab Samp ID: D139-18	Dilution Factor: 1
Lab File ID: KD24037A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 20.8
Calib. Ref.: KD24034A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	63	21 | 21
PCB-1221	(ND) | ND	63	21 | 21
PCB-1232	(ND) | ND	63	21 | 21
PCB-1242	(ND) | ND	63	21 | 21
PCB-1248	(ND) | ND	63	21 | 21
PCB-1254	(ND) | ND	63	21 | 21
PCB-1260	(ND) | ND	63	21 | 21

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	16.19 | (17.97)	16.83	96.2 | (107)	50-130
DECACHLOROBIPHENYL	(18.80) | 17.26	16.83	(112) | 103	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/17/18
Project : POLA-1500 I STREET	Date Received: 04/17/18
Batch No. : 18D139	Date Extracted: 04/23/18 16:32
Sample ID: B14-2D	Date Analyzed: 04/25/18 00:11
Lab Samp ID: D139-19	Dilution Factor: 1
Lab File ID: KD24038A	Matrix : SOIL
Ext Btch ID: CPD017S	% Moisture : 6.4
Calib. Ref.: KD24034A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	38J | (40J)	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.32 | (14.39)	14.24	93.5 | (101)	50-130
DECACHLOROBIPHENYL	(14.21) | 12.88	14.24	(99.8) | 90.5	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client	: PARSONS	Date Collected	: NA
Project	: POLA-1500 I STREET	Date Received	: 04/23/18
Batch No.	: 18D139	Date Extracted	: 04/23/18 16:32
Sample ID	: MBLK1S	Date Analyzed	: 04/24/18 14:06
Lab Samp ID	: 60D017SB	Dilution Factor	: 1
Lab File ID	: KD24008A	Matrix	: SOIL
Ext Btch ID	: CPD017S	% Moisture	: NA
Calib. Ref.	: KD24002A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(11.22) | 10.96	13.33	(84.1) | 82.3	60-130
DECACHLOROBIPHENYL	(15.41) | 13.42	13.33	(116) | 101	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D139
METHOD: SW3550B/SW8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D017SB	60D017SL	60D017SC		
LAB FILE ID:	KD24008A	KD24009A	KD24010A		
DATE EXTRACTED:	04/23/1816:32	04/23/1816:32	04/23/1816:32	DATE COLLECTED:	NA
DATE ANALYZED:	04/24/1814:06	04/24/1814:26	04/24/1814:46	DATE RECEIVED:	04/23/18
PREP. BATCH:	CPD017S	CPD017S	CPD017S		
CALIB. REF:	KD24002A	KD24002A	KD24002A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	167	170|(172)	102|(103)	167	(175)|175	(105)|105	(3)|2	70-140	50
PCB-1260	(ND)|ND	167	(189)|175	(113)|105	167	(192)|182	(115)|109	(2)|4	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(12.90)|12.72	(96.8)|95.4	13.33	13.21|(13.69)	99.1|(103)	60-130
Decachlorobiphenyl	13.33	(16.40)|14.31	(123)|107	13.33	(15.99)|14.24	(120)|107	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D139
METHOD: SW3550B/SW8082

MATRIX: SOIL % MOISTURE: 4.6

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	B9-2				
LAB SAMP ID:	D139-09	D139-09M	D139-09S		
LAB FILE ID:	KD24019A	KD24023A	KD24024A		
DATE EXTRACTED:	04/23/1816:32	04/23/1816:32	04/23/1816:32	DATE COLLECTED:	04/17/18
DATE ANALYZED:	04/24/1817:48	04/24/1819:09	04/24/1819:29	DATE RECEIVED:	04/17/18
PREP. BATCH:	CPD017S	CPD017S	CPD017S		
CALIB. REF:	KD24002A	KD24021A	KD24021A		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND)|ND	175	171|(183)	98|(105)	175	175|(180)	100|(103)	2|(2)	60-140	50
PCB-1260	(21J)|25J	175	(214)|213	(110)|108	175	(219)|217	(113)|110	(2)|2	10-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.97	15.12|(15.73)	108|(113)	13.97	14.40|(14.93)	103|(107)	50-130
Decachlorobiphenyl	13.97	(16.00)|15.44	(115)|110	13.97	(16.96)|14.98	(121)|107	50-150

* : Outside of QC limits

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METALS / MERCURY

SDG#: 18D139

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD031SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD031SL/IPD031SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed and the following was noted: D139-01M/S - Percent recovery for Barium was not within MS/MSD QC limits. Presence of matrix interference was suspected. The rest of the analytes were in control. Analytical spike and serial dilution were analyzed and evaluated as appropriate. Results were within expected values. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
B7-5MS	D139-01M	1.000	12.5	04/23/1823:43	04/23/1811:24	ID8D018146	ID8D018144	IPD031S	Matrix Spike Sample (MS)
B7-5MSD	D139-01S	1.000	12.5	04/23/1823:47	04/23/1811:24	ID8D018147	ID8D018144	IPD031S	MS Duplicate (MSD)
B7-5	D139-01A	1.000	12.5	04/23/1823:51	04/23/1811:24	ID8D018148	ID8D018144	IPD031S	Analytical Spike Sample
B7-5	D139-01	1.000	12.5	04/23/1823:54	04/23/1811:24	ID8D018149	ID8D018144	IPD031S	Field Sample
B7-5	D139-01J	5.000	12.5	04/23/1823:58	04/23/1811:24	ID8D018150	ID8D018144	IPD031S	Diluted Sample
B7-10	D139-02	1.000	22.6	04/24/1800:02	04/23/1811:24	ID8D018151	ID8D018144	IPD031S	Field Sample
B7-15	D139-03	1.000	13.5	04/24/1800:06	04/23/1811:24	ID8D018152	ID8D018144	IPD031S	Field Sample
B8-0.5	D139-04	1.000	2.8	04/24/1800:09	04/23/1811:24	ID8D018153	ID8D018144	IPD031S	Field Sample
B8-2	D139-05	1.000	12.1	04/24/1800:13	04/23/1811:24	ID8D018154	ID8D018144	IPD031S	Field Sample
B8-5	D139-06	1.000	14.5	04/24/1800:17	04/23/1811:24	ID8D018155	ID8D018144	IPD031S	Field Sample
B8-10	D139-07	1.000	22.4	04/24/1800:28	04/23/1811:24	ID8D018158	ID8D018156	IPD031S	Field Sample
B9-0.5	D139-08	1.000	2.3	04/24/1800:32	04/23/1811:24	ID8D018159	ID8D018156	IPD031S	Field Sample
B9-2	D139-09	1.000	4.6	04/24/1800:36	04/23/1811:24	ID8D018160	ID8D018156	IPD031S	Field Sample
B8-0.5D	D139-10	1.000	2.5	04/24/1800:40	04/23/1811:24	ID8D018161	ID8D018156	IPD031S	Field Sample
B14-0.5	D139-11	1.000	2.7	04/24/1800:43	04/23/1811:24	ID8D018162	ID8D018156	IPD031S	Field Sample
B14-2	D139-12	1.000	6.8	04/24/1800:47	04/23/1811:24	ID8D018163	ID8D018156	IPD031S	Field Sample
B14-5	D139-13	1.000	12.0	04/24/1800:51	04/23/1811:24	ID8D018164	ID8D018156	IPD031S	Field Sample
B14-10	D139-14	1.000	11.8	04/24/1800:55	04/23/1811:24	ID8D018165	ID8D018156	IPD031S	Field Sample
B14-15	D139-15	1.000	13.5	04/24/1801:06	04/23/1811:24	ID8D018168	ID8D018166	IPD031S	Field Sample
B15-0.5	D139-16	1.000	2.8	04/24/1801:10	04/23/1811:24	ID8D018169	ID8D018166	IPD031S	Field Sample
B15-2	D139-17	1.000	4.6	04/24/1801:13	04/23/1811:24	ID8D018170	ID8D018166	IPD031S	Field Sample
B15-5	D139-1B	1.000	20.8	04/24/1801:17	04/23/1811:24	ID8D018171	ID8D018166	IPD031S	Field Sample
B14-2D	D139-19	1.000	6.4	04/24/1801:21	04/23/1811:24	ID8D018172	ID8D018166	IPD031S	Field Sample
MBLK1S	IPD031SB	1.000	NA	04/25/1812:11	04/23/1811:24	ID8D020020	ID8D020018	IPD031S	Method Blank
LCS1S	IPD031SL	1.000	NA	04/25/1812:15	04/23/1811:24	ID8D020021	ID8D020018	IPD031S	Lab Control Sample (LCS)
LCD1S	IPD031SC	1.000	NA	04/25/1812:19	04/23/1811:24	ID8D020022	ID8D020018	IPD031S	LCS Duplicate

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:09
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B7-5	Date Analyzed:	04/23/18 23:54
Lab Samp ID:	D139-01	Dilution Factor:	1
Lab File ID:	ID8D018149	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	12.5
Calib. Ref.:	ID8D018144	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	1.06
Arsenic	8.77	1.06	0.425
Barium	212	1.06	0.212
Beryllium	0.639J	1.06	0.212
Cadmium	ND	1.06	0.106
Chromium	31.1	1.06	0.212
Cobalt	13.1	1.06	0.212
Copper	20.1	1.06	0.212
Lead	6.73	1.06	0.212
Molybdenum	ND	5.31	0.531
Nickel	21.8	1.06	0.212
Selenium	1.59	1.06	0.531
Silver	ND	1.06	0.265
Thallium	ND	1.06	0.531
Vanadium	51.0	1.06	0.531
Zinc	57.5	2.12	1.06

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.077g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:19
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B7-10	Date Analyzed:	04/24/18 00:02
Lab Samp ID:	D139-02	Dilution Factor:	1
Lab File ID:	ID8D018151	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	22.6
Calib. Ref.:	ID8D018144	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.6	1.26
Arsenic	7.16	1.26	0.505
Barium	224	1.26	0.253
Beryllium	0.742J	1.26	0.253
Cadmium	ND	1.26	0.126
Chromium	42.2	1.26	0.253
Cobalt	20.4	1.26	0.253
Copper	43.9	1.26	0.253
Lead	9.84	1.26	0.253
Molybdenum	ND	6.32	0.632
Nickel	34.8	1.26	0.253
Selenium	2.00	1.26	0.632
Silver	ND	1.26	0.316
Thallium	ND	1.26	0.632
Vanadium	67.7	1.26	0.632
Zinc	100	2.53	1.26

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.022g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 09:28
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B7-15	Date Analyzed: 04/24/18 00:06
Lab Samp ID: D139-03	Dilution Factor: 1
Lab File ID: ID8D018152	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 13.5
Calib. Ref.: ID8D018144	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.4	1.14
Arsenic	3.50	1.14	0.457
Barium	27.4	1.14	0.229
Beryllium	ND	1.14	0.229
Cadmium	ND	1.14	0.114
Chromium	7.64	1.14	0.229
Cobalt	2.24	1.14	0.229
Copper	2.23	1.14	0.229
Lead	1.24	1.14	0.229
Molybdenum	ND	5.72	0.572
Nickel	2.89	1.14	0.229
Selenium	ND	1.14	0.572
Silver	ND	1.14	0.286
Thallium	ND	1.14	0.572
Vanadium	11.6	1.14	0.572
Zinc	10.0	2.29	1.14

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.011g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:22
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B8-0.5	Date Analyzed:	04/24/18 00:09
Lab Samp ID:	D139-04	Dilution Factor:	1
Lab File ID:	ID8D018153	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	2.8
Calib. Ref.:	ID8D018144	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.34J	9.85	0.985
Arsenic	19.9	0.985	0.394
Barium	159	0.985	0.197
Beryllium	0.334J	0.985	0.197
Cadmium	1.62	0.985	0.0985
Chromium	26.4	0.985	0.197
Cobalt	9.84	0.985	0.197
Copper	73.4	0.985	0.197
Lead	150	0.985	0.197
Molybdenum	2.34J	4.92	0.492
Nickel	26.2	0.985	0.197
Selenium	1.53	0.985	0.492
Silver	ND	0.985	0.246
Thallium	ND	0.985	0.492
Vanadium	38.0	0.985	0.492
Zinc	213	1.97	0.985

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.045g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 11:31
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B8-2	Date Analyzed: 04/24/18 00:13
Lab Samp ID: D139-05	Dilution Factor: 1
Lab File ID: ID8D018154	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 12.1
Calib. Ref.: ID8D018144	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	1.10
Arsenic	11.5	1.10	0.441
Barium	126	1.10	0.221
Beryllium	0.813J	1.10	0.221
Cadmium	ND	1.10	0.110
Chromium	38.2	1.10	0.221
Cobalt	15.8	1.10	0.221
Copper	26.1	1.10	0.221
Lead	11.5	1.10	0.221
Molybdenum	0.824J	5.52	0.552
Nickel	27.3	1.10	0.221
Selenium	2.09	1.10	0.552
Silver	ND	1.10	0.276
Thallium	ND	1.10	0.552
Vanadium	64.3	1.10	0.552
Zinc	70.1	2.21	1.10

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.031g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 11:46
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B8-5	Date Analyzed: 04/24/18 00:17
Lab Samp ID: D139-06	Dilution Factor: 1
Lab File ID: ID8D018155	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 14.5
Calib. Ref.: ID8D018144	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.5	1.15
Arsenic	11.0	1.15	0.460
Barium	108	1.15	0.230
Beryllium	0.612J	1.15	0.230
Cadmium	ND	1.15	0.115
Chromium	34.8	1.15	0.230
Cobalt	16.0	1.15	0.230
Copper	21.9	1.15	0.230
Lead	8.64	1.15	0.230
Molybdenum	0.608J	5.75	0.575
Nickel	24.1	1.15	0.230
Selenium	1.97	1.15	0.575
Silver	ND	1.15	0.287
Thallium	ND	1.15	0.575
Vanadium	57.8	1.15	0.575
Zinc	62.0	2.30	1.15

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.017g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:52
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B8-10	Date Analyzed:	04/24/18 00:28
Lab Samp ID:	D139-07	Dilution Factor:	1
Lab File ID:	ID8D018158	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	22.4
Calib. Ref.:	ID8D018156	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.3	1.23
Arsenic	9.28	1.23	0.494
Barium	250	1.23	0.247
Beryllium	0.589J	1.23	0.247
Cadmium	ND	1.23	0.123
Chromium	35.0	1.23	0.247
Cobalt	18.0	1.23	0.247
Copper	30.1	1.23	0.247
Lead	7.02	1.23	0.247
Molybdenum	ND	6.17	0.617
Nickel	29.4	1.23	0.247
Selenium	1.25	1.23	0.617
Silver	ND	1.23	0.309
Thallium	ND	1.23	0.617
Vanadium	55.3	1.23	0.617
Zinc	80.6	2.47	1.23

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.044g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 12:55
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B9-0.5	Date Analyzed:	04/24/18 00:32
Lab Samp ID:	D139-08	Dilution Factor:	1
Lab File ID:	ID8D018159	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	2.3
Calib. Ref.:	ID8D018156	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	2.37J	9.49	0.949
Arsenic	14.9	0.949	0.380
Barium	274	0.949	0.190
Beryllium	0.381J	0.949	0.190
Cadmium	1.71	0.949	0.0949
Chromium	45.8	0.949	0.190
Cobalt	11.8	0.949	0.190
Copper	205	0.949	0.190
Lead	124	0.949	0.190
Molybdenum	5.04	4.74	0.474
Nickel	39.8	0.949	0.190
Selenium	1.60	0.949	0.474
Silver	1.11	0.949	0.237
Thallium	ND	0.949	0.474
Vanadium	40.4	0.949	0.474
Zinc	633	1.90	0.949

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.079g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 13:01
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 1BD139	Date Extracted: 04/23/18 11:24
Sample ID: B9-2	Date Analyzed: 04/24/18 00:36
Lab Samp ID: D139-09	Dilution Factor: 1
Lab File ID: ID8D018160	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 4.6
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.28J	10.2	1.02
Arsenic	24.2	1.02	0.410
Barium	165	1.02	0.205
Beryllium	0.392J	1.02	0.205
Cadmium	0.459J	1.02	0.102
Chromium	32.1	1.02	0.205
Cobalt	12.3	1.02	0.205
Copper	49.2	1.02	0.205
Lead	56.2	1.02	0.205
Molybdenum	4.01J	5.12	0.512
Nickel	25.6	1.02	0.205
Selenium	1.45	1.02	0.512
Silver	ND	1.02	0.256
Thallium	ND	1.02	0.512
Vanadium	42.2	1.02	0.512
Zinc	159	2.05	1.02

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.024g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:24
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B8-0.5D	Date Analyzed:	04/24/18 00:40
Lab Samp ID:	D139-10	Dilution Factor:	1
Lab File ID:	ID8D018161	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	2.5
Calib. Ref.:	ID8D018156	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.81J	9.82	0.982
Arsenic	23.2	0.982	0.393
Barium	158	0.982	0.196
Beryllium	0.335J	0.982	0.196
Cadmium	1.99	0.982	0.09B2
Chromium	24.4	0.982	0.196
Cobalt	9.87	0.982	0.196
Copper	83.6	0.982	0.196
Lead	180	0.982	0.196
Molybdenum	2.17J	4.91	0.491
Nickel	25.B	0.982	0.196
Selenium	1.32	0.982	0.491
Silver	ND	0.982	0.245
Thallium	ND	0.982	0.491
Vanadium	38.2	0.982	0.491
Zinc	233	1.96	0.982

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.045g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 09:41
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-0.5	Date Analyzed: 04/24/18 00:43
Lab Samp ID: D139-11	Dilution Factor: 1
Lab File ID: ID8D018162	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 2.7
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	2.55J	9.61	0.961
Arsenic	9.29	0.961	0.384
Barium	265	0.961	0.192
Beryllium	0.302J	0.961	0.192
Cadmium	2.64	0.961	0.0961
Chromium	52.8	0.961	0.192
Cobalt	9.23	0.961	0.192
Copper	282	0.961	0.192
Lead	120	0.961	0.192
Molybdenum	5.46	4.80	0.480
Nickel	31.3	0.961	0.192
Selenium	1.21	0.961	0.480
Silver	0.327J	0.961	0.240
Thallium	ND	0.961	0.480
Vanadium	30.1	0.961	0.480
Zinc	543	1.92	0.961

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.069g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 09:46
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-2	Date Analyzed: 04/24/18 00:47
Lab Samp ID: D139-12	Dilution Factor: 1
Lab File ID: ID8D018163	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 6.8
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.56J	10.3	1.03
Arsenic	16.5	1.03	0.412
Barium	178	1.03	0.206
Beryllium	0.343J	1.03	0.206
Cadmium	0.723J	1.03	0.103
Chromium	40.4	1.03	0.206
Cobalt	10.7	1.03	0.206
Copper	48.0	1.03	0.206
Lead	187	1.03	0.206
Molybdenum	3.05J	5.14	0.514
Nickel	23.5	1.03	0.206
Selenium	1.17	1.03	0.514
Silver	ND	1.03	0.257
Thallium	ND	1.03	0.514
Vanadium	37.9	1.03	0.514
Zinc	152	2.06	1.03

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.043g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 10:06
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-5	Date Analyzed: 04/24/18 00:51
Lab Samp ID: D139-13	Dilution Factor: 1
Lab File ID: ID8D018164	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 12.0
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	1.12
Arsenic	6.61	1.12	0.448
Barium	166	1.12	0.224
Beryllium	0.624J	1.12	0.224
Cadmium	ND	1.12	0.112
Chromium	30.2	1.12	0.224
Cobalt	13.1	1.12	0.224
Copper	18.2	1.12	0.224
Lead	6.67	1.12	0.224
Molybdenum	ND	5.60	0.560
Nickel	24.0	1.12	0.224
Selenium	1.81	1.12	0.560
Silver	ND	1.12	0.280
Thallium	ND	1.12	0.560
Vanadium	51.2	1.12	0.560
Zinc	52.3	2.24	1.12

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.014g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 10:13
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B14-10	Date Analyzed: 04/24/18 00:55
Lab Samp ID: D139-14	Dilution Factor: 1
Lab File ID: ID8D018165	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 11.8
Calib. Ref.: ID8D018156	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	1.05
Arsenic	16.2	1.05	0.420
Barium	38.5	1.05	0.210
Beryllium	ND	1.05	0.210
Cadmium	ND	1.05	0.105
Chromium	12.1	1.05	0.210
Cobalt	3.32	1.05	0.210
Copper	4.64	1.05	0.210
Lead	1.71	1.05	0.210
Molybdenum	ND	5.24	0.524
Nickel	5.32	1.05	0.210
Selenium	0.644J	1.05	0.524
Silver	ND	1.05	0.262
Thallium	ND	1.05	0.524
Vanadium	17.2	1.05	0.524
Zinc	14.6	2.10	1.05

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.081g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 10:20
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B14-15	Date Analyzed:	04/24/18 01:06
Lab Samp ID:	D139-15	Dilution Factor:	1
Lab File ID:	ID8D018168	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	13.5
Calib. Ref.:	I08D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	1.11
Arsenic	2.06	1.11	0.442
Barium	21.3	1.11	0.221
Beryllium	ND	1.11	0.221
Cadmium	ND	1.11	0.111
Chromium	6.38	1.11	0.221
Cobalt	2.08	1.11	0.221
Copper	3.53	1.11	0.221
Lead	1.20	1.11	0.221
Molybdenum	ND	5.53	0.553
Nickel	2.90	1.11	0.221
Selenium	0.603J	1.11	0.553
Silver	ND	1.11	0.276
Thallium	ND	1.11	0.553
Vanadium	15.5	1.11	0.553
Zinc	7.86	2.21	1.11

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.046g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/17/18 10:44
Project : POLA-1500 I STREET	Date Received: 04/17/18
SDG NO. : 18D139	Date Extracted: 04/23/18 11:24
Sample ID: B15-0.5	Date Analyzed: 04/24/18 01:10
Lab Samp ID: D139-16	Dilution Factor: 1
Lab File ID: ID8D018169	Matrix: SOIL
Ext Btch ID: IPD031S	% Moisture: 2.8
Calib. Ref.: ID8D018166	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	9.86	0.986
Arsenic	6.23	0.986	0.394
Barium	145	0.986	0.197
Beryllium	0.358J	0.986	0.197
Cadmium	0.605J	0.986	0.0986
Chromium	21.1	0.986	0.197
Cobalt	7.35	0.986	0.197
Copper	29.8	0.986	0.197
Lead	38.2	0.986	0.197
Molybdenum	2.29J	4.93	0.493
Nickel	20.7	0.986	0.197
Selenium	1.15	0.986	0.493
Silver	ND	0.986	0.246
Thallium	ND	0.986	0.493
Vanadium	31.4	0.986	0.493
Zinc	160	1.97	0.986

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.044g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 10:49
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B15-2	Date Analyzed:	04/24/18 01:13
Lab Samp ID:	D139-17	Dilution Factor:	1
Lab File ID:	ID8D018170	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	4.6
Calib. Ref.:	ID8D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.4	1.04
Arsenic	7.77	1.04	0.416
Barium	156	1.04	0.208
Beryllium	0.401J	1.04	0.208
Cadmium	0.379J	1.04	0.104
Chromium	31.4	1.04	0.208
Cobalt	10.2	1.04	0.208
Copper	55.3	1.04	0.208
Lead	30.1	1.04	0.208
Molybdenum	2.21J	5.19	0.519
Nickel	18.8	1.04	0.208
Selenium	1.69	1.04	0.519
Silver	ND	1.04	0.260
Thallium	ND	1.04	0.519
Vanadium	37.2	1.04	0.519
Zinc	121	2.08	1.04

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.009g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 11:05
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B15-5	Date Analyzed:	04/24/18 01:17
Lab Samp ID:	D139-18	Dilution Factor:	1
Lab File ID:	ID8D018171	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	20.8
Calib. Ref.:	ID8D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.2	1.22
Arsenic	6.41	1.22	0.488
Barium	286	1.22	0.244
Beryllium	0.569J	1.22	0.244
Cadmium	ND	1.22	0.122
Chromium	27.7	1.22	0.244
Cobalt	12.8	1.22	0.244
Copper	20.5	1.22	0.244
Lead	7.04	1.22	0.244
Molybdenum	ND	6.10	0.610
Nickel	26.9	1.22	0.244
Selenium	1.31	1.22	0.610
Silver	ND	1.22	0.305
Thallium	ND	1.22	0.610
Vanadium	43.9	1.22	0.610
Zinc	57.5	2.44	1.22

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.034g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	B14-2D	Date Analyzed:	04/24/18 01:21
Lab Samp ID:	D139-19	Dilution Factor:	1
Lab File ID:	ID8D018172	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	6.4
Calib. Ref.:	ID8D018166	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.41J	10.4	1.04
Arsenic	16.7	1.04	0.417
Barium	181	1.04	0.208
Beryllium	0.337J	1.04	0.208
Cadmium	0.847J	1.04	0.104
Chromium	45.0	1.04	0.208
Cobalt	10.9	1.04	0.208
Copper	55.7	1.04	0.208
Lead	79.5	1.04	0.208
Molybdenum	2.88J	5.21	0.521
Nickel	24.3	1.04	0.208
Selenium	1.29	1.04	0.521
Silver	ND	1.04	0.260
Thallium	ND	1.04	0.521
Vanadium	38.5	1.04	0.521
Zinc	170	2.08	1.04

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.026g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D139	Date Extracted:	04/23/18 11:24
Sample ID:	MBLK1S	Date Analyzed:	04/25/18 12:11
Lab Samp ID:	IPD031SB	Dilution Factor:	1
Lab File ID:	ID8D020020	Matrix:	SOIL
Ext Btch ID:	IPD031S	% Moisture:	NA
Calib. Ref.:	ID8D020018	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	1.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.100
Chromium	ND	1.00	0.200
Cobalt	ND	1.00	0.200
Copper	ND	1.00	0.200
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	1.00	0.200
Selenium	ND	1.00	0.500
Silver	ND	1.00	0.250
Thallium	ND	1.00	0.500
Vanadium	ND	1.00	0.500
Zinc	ND	2.00	1.00

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD031SB	IPD031SL	IPD031SC
LAB FILE ID	: ID8D020020	ID8D020021	ID8D020022
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/25/18 12:11	04/25/18 12:15	04/25/18 12:19
PREP BATCH	: IPD031S	IPD031S	IPD031S
CALIBRATION REF	: ID8D020018	ID8D020018	ID8D020018

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	250	240	96	250	239	96	0	80-120	20
Arsenic	ND	50	47.6	95	50	47.4	95	0	80-120	20
Barium	ND	50	49.0	98	50	48.8	98	0	80-120	20
Beryllium	ND	50	48.3	97	50	48.7	97	1	80-120	20
Cadmium	ND	50	46.7	93	50	46.7	93	0	80-120	20
Chromium	ND	50	48.4	97	50	48.7	97	1	80-120	20
Cobalt	ND	50	48.2	96	50	48.7	97	1	80-120	20
Copper	ND	50	46.0	92	50	46.6	93	1	80-120	20
Lead	ND	50	47.3	95	50	47.6	95	1	80-120	20
Molybdenum	ND	50	50.4	101	50	50.5	101	0	80-120	20
Nickel	ND	50	49.9	100	50	50.0	100	0	80-120	20
Selenium	ND	50	48.4	97	50	48.0	96	1	80-120	20
Silver	ND	50	42.3	85	50	42.3	85	0	80-120	20
Thallium	ND	50	44.7	89	50	44.6	89	0	80-120	20
Vanadium	ND	50	50.2	100	50	50.8	102	1	80-120	20
Zinc	ND	50	52.1	104	50	52.7	105	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 12.5
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B7-5	B7-5MS	B7-5MSD
LAB SAMPLE ID	: D139-01	D139-01M	D139-01S
LAB FILE ID	: ID8D018149	ID8D018146	ID8D018147
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/23/18 23:54	04/23/18 23:43	04/23/18 23:47
PREP BATCH	: IPD031S	IPD031S	IPD031S
CALIBRATION REF	: ID8D018144	ID8D018144	ID8D018144

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	278	217	78.1	272	213	78.3	2	75-125	20
Arsenic	8.77	55.5	61.1	94.3	54.3	60.3	94.9	1	75-125	20
Barium	212	55.5	234	39.6*	54.3	231	35.0*	1	75-125	20
Beryllium	0.639J	55.5	48.1	85.5	54.3	47.4	86.1	1	75-125	20
Cadmium	ND	55.5	47.2	85.0	54.3	47.0	86.6	0	75-125	20
Chromium	31.1	55.5	81.5	90.8	54.3	80.7	91.3	1	75-125	20
Cobalt	13.1	55.5	64.7	93.0	54.3	64.6	94.8	0	75-125	20
Copper	20.1	55.5	68.2	86.7	54.3	67.6	87.5	1	75-125	20
Lead	6.73	55.5	56.9	90.4	54.3	56.6	91.8	1	75-125	20
Molybdenum	ND	55.5	59.7	108	54.3	58.2	107	3	75-125	20
Nickel	21.8	55.5	71.4	89.4	54.3	71.6	91.7	0	75-125	20
Selenium	1.59	55.5	50.0	87.2	54.3	49.2	87.7	2	75-125	20
Silver	ND	55.5	46.9	84.5	54.3	46.3	85.3	1	75-125	20
Thallium	ND	55.5	48.1	86.7	54.3	47.8	88.0	1	75-125	20
Vanadium	51.0	55.5	104	95.5	54.3	104	97.6	0	75-125	20
Zinc	57.5	55.5	108	91.0	54.3	108	93.0	0	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 12.5
DILUTION FACTOR:	1	5
SAMPLE ID	: B7-5	B7-5
LAB SAMPLE ID	: D139-01	D139-01J
LAB FILE ID	: ID8D018149	ID8D018150
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/23/18 23:54	04/23/18 23:58
PREP BATCH	: IPD031S	IPD031S
CALIBRATION REF:	ID8D018144	ID8D018144

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	SD Result (mg/kg)	%Difference (%)	Max %D (%)
Antimony	ND	ND	0	10
Arsenic	8.77	8.79	0	10
Barium	212	213	0	10
Beryllium	0.639J	ND	NA	10
Cadmium	ND	ND	0	10
Chromium	31.1	32.3	4	10
Cobalt	13.1	13.1	0	10
Copper	20.1	21.5	7	10
Lead	6.73	6.51	3	10
Molybdenum	ND	ND	0	10
Nickel	21.8	22.0	1	10
Selenium	1.59	4.07J	NA	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	51.0	52.0	2	10
Zinc	57.5	56.9	1	10

SD - Serial Dilution

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 12.5
DILUTION FACTOR:	1	1
SAMPLE ID	: B7-5	B7-5
LAB SAMPLE ID	: D139-01	D139-01A
LAB FILE ID	: ID8D018149	ID8D018148
DATE PREPARED	: 04/23/18 11:24	04/23/18 11:24
DATE ANALYZED	: 04/23/18 23:54	04/23/18 23:51
PREP BATCH	: IPD031S	IPD031S
CALIBRATION REF:	ID8D018144	ID8D018144

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	Spike Amt (mg/kg)	AS Result (mg/kg)	AS Rec (%)	QC Limit (%)
Antimony	ND	265	264	99	75-125
Arsenic	8.77	53.1	67.3	110	75-125
Barium	212	53.1	268	105	75-125
Beryllium	0.639J	53.1	53.2	99	75-125
Cadmium	ND	53.1	53.0	100	75-125
Chromium	31.1	53.1	88.3	108	75-125
Cobalt	13.1	53.1	70.4	108	75-125
Copper	20.1	53.1	74.3	102	75-125
Lead	6.73	53.1	63.8	108	75-125
Molybdenum	ND	53.1	60.3	114	75-125
Nickel	21.8	53.1	78.2	106	75-125
Selenium	1.59	53.1	55.0	101	75-125
Silver	ND	53.1	53.9	102	75-125
Thallium	ND	53.1	54.7	103	75-125
Vanadium	51.0	53.1	109	109	75-125
Zinc	57.5	53.1	117	112	75-125

AS - Analytical Spike

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D139

METHOD 7471A
MERCURY BY COLD VAPOR

A total of nineteen (19) soil samples were received on 04/17/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7471A and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD027SB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD027SL/HGD027SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Mercury was within MS QC limits in D139-08M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D139
Instrument ID : 47

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD027SB	1	NA	04/30/1818:27	04/30/1815:35	M47D017011	M47D017	18HGD027S	Method Blank
LCS1S	HGD027SL	1	NA	04/30/1818:28	04/30/1815:35	M47D017012	M47D017	18HGD027S	Lab Control Sample (LCS)
LCD1S	HGD027SC	1	NA	04/30/1818:31	04/30/1815:35	M47D017013	M47D017	18HGD027S	LCS Duplicate
B9-0.5	D139-08	1	2.3	04/30/1818:35	04/30/1815:35	M47D017015	M47D017	18HGD027S	Field Sample
B9-0.5MS	D139-08M	1	2.3	04/30/1818:40	04/30/1815:35	M47D017017	M47D017	18HGD027S	Matrix Spike Sample (MS)
B9-0.5MSD	D139-08S	1	2.3	04/30/1818:43	04/30/1815:35	M47D017018	M47D017	18HGD027S	MS Duplicate (MSD)
B7-5	D139-01	1	12.5	04/30/1818:45	04/30/1815:35	M47D017019	M47D017	18HGD027S	Field Sample
B7-10	D139-02	1	22.6	04/30/1818:46	04/30/1815:35	M47D017020	M47D017	18HGD027S	Field Sample
B7-15	D139-03	1	13.5	04/30/1818:53	04/30/1815:35	M47D017023	M47D017	18HGD027S	Field Sample
B8-0.5	D139-04	1	2.8	04/30/1818:55	04/30/1815:35	M47D017024	M47D017	18HGD027S	Field Sample
B8-2	D139-05	1	12.1	04/30/1818:57	04/30/1815:35	M47D017025	M47D017	18HGD027S	Field Sample
B8-5	D139-06	1	14.5	04/30/1818:59	04/30/1815:35	M47D017026	M47D017	18HGD027S	Field Sample
B8-10	D139-07	1	22.4	04/30/1819:01	04/30/1815:35	M47D017027	M47D017	18HGD027S	Field Sample
B9-2	D139-09	1	4.6	04/30/1819:03	04/30/1815:35	M47D017028	M47D017	18HGD027S	Field Sample
B8-0.5D	D139-10	1	2.5	04/30/1819:05	04/30/1815:35	M47D017029	M47D017	18HGD027S	Field Sample
B14-0.5	D139-11	1	2.7	04/30/1819:07	04/30/1815:35	M47D017030	M47D017	18HGD027S	Field Sample
B14-2	D139-12	1	6.8	04/30/1819:09	04/30/1815:35	M47D017031	M47D017	18HGD027S	Field Sample
B14-5	D139-13	1	12.0	04/30/1819:11	04/30/1815:35	M47D017032	M47D017	18HGD027S	Field Sample
B14-10	D139-14	1	11.8	04/30/1819:18	04/30/1815:35	M47D017035	M47D017	18HGD027S	Field Sample
B14-15	D139-15	1	13.5	04/30/1819:20	04/30/1815:35	M47D017036	M47D017	18HGD027S	Field Sample
B15-0.5	D139-16	1	2.8	04/30/1819:22	04/30/1815:35	M47D017037	M47D017	18HGD027S	Field Sample
B15-2	D139-17	1	4.6	04/30/1819:24	04/30/1815:35	M47D017038	M47D017	18HGD027S	Field Sample
B15-5	D139-18	1	20.8	04/30/1819:26	04/30/1815:35	M47D017039	M47D017	18HGD027S	Field Sample
B14-2D	D139-19	1	6.4	04/30/1819:28	04/30/1815:35	M47D017040	M47D017	18HGD027S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D139

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/Kg)	DILT'N FACTOR	MOIST (%)	RL (mg/Kg)	MDL (mg/Kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGD027SB	ND	1	NA	0.100	0.0200	04/30/1818:27	04/30/1815:35	M47D017011	M47D017	18HGD027S	NA	NA
LCS1S	HGD027SL	0.430	1	NA	0.100	0.0200	04/30/1818:28	04/30/1815:35	M47D017012	M47D017	18HGD027S	NA	NA
LCD1S	HGD027SC	0.418	1	NA	0.100	0.0200	04/30/1818:31	04/30/1815:35	M47D017013	M47D017	18HGD027S	NA	NA
B9-0.5	D139-08	0.0870J	1	2.3	0.100	0.0200	04/30/1818:35	04/30/1815:35	M47D017015	M47D017	18HGD027S	04/17/1812:55	04/17/18
B9-0.5MS	D139-08M	0.553	1	2.3	0.0999	0.0200	04/30/1818:40	04/30/1815:35	M47D017017	M47D017	18HGD027S	04/17/1812:55	04/17/18
B9-0.5MSD	D139-08S	0.523	1	2.3	0.0997	0.0199	04/30/1818:43	04/30/1815:35	M47D017018	M47D017	18HGD027S	04/17/1812:55	04/17/18
B7-5	D139-01	0.0395J	1	12.5	0.113	0.0227	04/30/1818:45	04/30/1815:35	M47D017019	M47D017	18HGD027S	04/17/1809:09	04/17/18
B7-10	D139-02	0.0547J	1	22.6	0.124	0.0248	04/30/1818:46	04/30/1815:35	M47D017020	M47D017	18HGD027S	04/17/1809:19	04/17/18
B7-15	D139-03	ND	1	13.5	0.107	0.0215	04/30/1818:53	04/30/1815:35	M47D017023	M47D017	18HGD027S	04/17/1809:28	04/17/18
B8-0.5	D139-04	0.364	1	2.8	0.102	0.0203	04/30/1818:55	04/30/1815:35	M47D017024	M47D017	18HGD027S	04/17/1811:22	04/17/18
B8-2	D139-05	0.0387J	1	12.1	0.110	0.0221	04/30/1818:57	04/30/1815:35	M47D017025	M47D017	18HGD027S	04/17/1811:31	04/17/18
B8-5	D139-06	ND	1	14.5	0.116	0.0231	04/30/1818:59	04/30/1815:35	M47D017026	M47D017	18HGD027S	04/17/1811:46	04/17/18
B8-10	D139-07	ND	1	22.4	0.129	0.0258	04/30/1819:01	04/30/1815:35	M47D017027	M47D017	18HGD027S	04/17/1811:52	04/17/18
B9-2	D139-09	0.0858J	1	4.6	0.100	0.0200	04/30/1819:03	04/30/1815:35	M47D017028	M47D017	18HGD027S	04/17/1813:01	04/17/18
B8-0.5D	D139-10	0.381	1	2.5	0.101	0.0202	04/30/1819:05	04/30/1815:35	M47D017029	M47D017	18HGD027S	04/17/1811:24	04/17/18
B14-0.5	D139-11	0.106	1	2.7	0.101	0.0202	04/30/1819:07	04/30/1815:35	M47D017030	M47D017	18HGD027S	04/17/1809:41	04/17/18
B14-2	D139-12	0.0780J	1	6.8	0.105	0.0209	04/30/1819:09	04/30/1815:35	M47D017031	M47D017	18HGD027S	04/17/1809:46	04/17/18
B14-5	D139-13	ND	1	12.0	0.112	0.0224	04/30/1819:11	04/30/1815:35	M47D017032	M47D017	18HGD027S	04/17/1810:06	04/17/18
B14-10	D139-14	ND	1	11.8	0.113	0.0226	04/30/1819:18	04/30/1815:35	M47D017035	M47D017	18HGD027S	04/17/1810:13	04/17/18
B14-15	D139-15	ND	1	13.5	0.109	0.0217	04/30/1819:20	04/30/1815:35	M47D017036	M47D017	18HGD027S	04/17/1810:20	04/17/18
B15-0.5	D139-16	ND	1	2.8	0.101	0.0201	04/30/1819:22	04/30/1815:35	M47D017037	M47D017	18HGD027S	04/17/1810:44	04/17/18
B15-2	D139-17	0.0381J	1	4.6	0.104	0.0208	04/30/1819:24	04/30/1815:35	M47D017038	M47D017	18HGD027S	04/17/1810:49	04/17/18
B15-5	D139-18	0.0418J	1	20.8	0.122	0.0244	04/30/1819:26	04/30/1815:35	M47D017039	M47D017	18HGD027S	04/17/1811:05	04/17/18
B14-2D	D139-19	0.0946J	1	6.4	0.104	0.0207	04/30/1819:28	04/30/1815:35	M47D017040	M47D017	18HGD027S	04/17/1809:48	04/17/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: HGD027SB	HGD027SL	HGD027SC
LAB FILE ID	: M47D017011	M47D017012	M47D017013
DATE PREPARED	: 04/30/1815:35	04/30/1815:35	04/30/1815:35
DATE ANALYZED	: 04/30/1818:27	04/30/1818:28	04/30/1818:31
PREP BATCH	: 18HGD027S	18HGD027S	18HGD027S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	MBResult (mg/Kg)	SpikeAmt (mg/Kg)	LCSResult (mg/Kg)	LCSRec (%)	SpikeAmt (mg/Kg)	LCDResult (mg/Kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	0.417	0.430	103	0.417	0.418	100	3	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:2.3
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B9-0.5	B9-0.5MS	B9-0.5MSD
LAB SAMPLE ID	: D139-08	D139-08M	D139-08S
LAB FILE ID	: M47D017015	M47D017017	M47D017018
DATE PREPARED	: 04/30/1815:35	04/30/1815:35	04/30/1815:35
DATE ANALYZED	: 04/30/1818:35	04/30/1818:40	04/30/1818:43
PREP BATCH	: 18HGD027S	18HGD027S	18HGD027S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	PSResult (mg/Kg)	SpikeAmt (mg/Kg)	MSResult (mg/Kg)	MSRec (%)	SpikeAmt (mg/Kg)	MSDResult (mg/Kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	0.0870J	0.416	0.553	112	0.416	0.523	105	6	75-125	20

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/17/18 09:41
Project	: POLA-1500 I STREET	Date Received:	04/17/18
SDG NO.	: 18D139A	Date Extracted:	05/24/18 10:18
Sample ID:	B14-0.5	Date Analyzed:	05/24/18 16:25
Lab Samp ID:	D139-11I	Dilution Factor:	5
Lab File ID:	ID8E019054	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Copper	3.69	0.250	0.0750
Lead	5.51	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D139A	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D139A	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Copper	ND	0.250	0.0750
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D139-11I.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019054  D139-11I   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D139A
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Copper	ND	0.5	0.458	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-11-2018
EMAX Batch No.: 18D145

Attn: Carrie Crozier

Parsons
100 West Walnut Street
Pasadena CA 91124

Subject: Laboratory Report
Project: POLA-1500 I STREET

Enclosed is the Laboratory report for samples received on 04/18/18.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
B11-10	D145-01	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-15	D145-02	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B12-0.5	D145-03	04/18/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B12-2	D145-04	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B12-5	D145-05	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B12-10	D145-06	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM

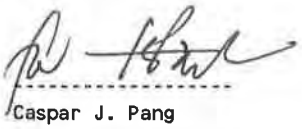
Sample ID	Control #	Col Date	Matrix	Analysis
B12-10	D145-06	04/18/18	SOIL	MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B13-0.5	D145-07	04/18/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B13-2	D145-08	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B13-5	D145-09	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-10D	D145-10	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11	D145-11	04/18/18	WATER	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				VOLATILE ORGANICS BY GC/MS
				PAH BY 8270C SIM LOW
B13-10	D145-12	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-0.5	D145-13	04/18/18	SOIL	CANCELLED
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
				POLYCHLORINATED BIPHENYLS (PCBS)
B11-2	D145-14	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
B11-2	D145-14	04/18/18	SOIL	METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
B11-5	D145-15	04/18/18	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PAH BY 8270C SIM
				TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				HOLD
EB	D145-16	04/18/18	WATER	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
				VOLATILE ORGANICS BY GC/MS
				PAH BY 8270C SIM LOW
				METALS CAM
				MERCURY
TRIP BLANK	D145-17	04/18/18	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912017-13
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 451077

SAMPLE STORAGE

EMAX CONTROL NO. 18D145

PROJECT CODE:

CLIENT Parsons for Port of LA
PROJECT POLA I Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
										PRESERVATIVE CODE										
* 1	B11-10		4/18/18	0818	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 2	B11-15		4/18/18	0834	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 3	B12-0.5		4/18/18	0920	4			SS		X						X	X	X	H	
* 4	B12-2		4/18/18	0925	7			SS		X	X					X	X	X	H	Hold PCBs
* 5	B12-5		4/18/18	0934	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 6	B12-10		4/18/18	0942	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
* 7	B13-0.5		4/18/18	0839	4			SS		X						X	X	X	H	
* 8	B13-2		4/18/18	0850	7			SS		X	X					X	X	X	H	Hold PCBs
* 9	B13-5		4/18/18	0857	7			SS		X	X					X	X	X	H	Hold PCBs + PAHs + metals
10	B11-10D		4/18/18	~~0906~~ 0820	7					X	X					X	X	X	H	Hold PCBs + PAHs + metals

cc 4/18/18

Instructions

Cooler #	Temp. (°C)	Sample #s
1	4.0	
2	3.5	
3	2.1	

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/18/18	1214	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5 00 per sample EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 451077** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D145 **PROJECT CODE:**

CLIENT Parsons for Port of LA
PROJECT POLA 1 Street
COORDINATOR Carrie Crozier
TEL 626-440-2747 FAX EMAIL carrie.crozier@parsons.com
SEND REPORT TO Carrie Crozier
COMPANY Parsons
ADDRESS 100 W Walnut St
Pasadena CA 91124
EMAX PM Richard Beauvil

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT: ☐ Rush __24__hrs. ☐ Rush __48_hrs ☐ Rush_72_hrs ☑ 7 days ☐ 14 days ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED / PRESERVATIVE CODE: TPH	VOCs 8260	SVOCs 8270	Arsenic	Cadmium	Lead	Title 22 Metals	PCBs	PAHs	TCLP/STLC	COMMENTS
1	B11		4/18/18	0948	7			GW		X	X	X								
2	B13-10		4/18/18	0906	7			SS		X	X					X	X	X	H	Hold PCBs PAHs
3	B11-0.5		4/18/18	0732	4			SS		X	X					X	X	X	H	
4	B11-2		4/18/18	0736	7			SS		X	X					H	H	H	H	
5	B11-5		4/18/18	0805	7			SS		X	X					H	H	H	H	
6	EB		4/18/18	0815	8			W		X	X	X				X	X	X		
7	Trip Blank		4/15/18		3			W			X									
8																				
9																				
10																				

Instructions	Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	4/17/18	1214	

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 18D145
☐ Fedex ☐ UPS ☑ GSO ☐ Others		Recipient NERY
☐ EMAX Courier ☑ Client Delivery		Date 4/18/18 Time 12:14

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 4.0 °C	☑ Cooler 2 3.8 °C	☑ Cooler 3 2.1 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* _____	*B - S/N* 15C5552?	*C - S/N* _____	(D) *S/N* 15C5550 ?	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
11	65-70	D16	Preserved Accordingly	R8
15	95	D2	label	R1
17		D6	COC-Label: mj/18/18	
17	105-107	D22	EMAX Trip Blank TB-004-02-02 *	R1
1-15	1-7, 13, 15, 16,	D10		R8
↓	19-23, 26-64, 71,	↓		↓
↓	72-90	↓		↓
9	51	D3	label: TPH VOC	R8
11	71	D19	Label - TPH/SOV SVOC	Use 500ml for each test.
16	104	D19	Label - TPH/PCBs/PAH	Use 500 ml for TPH/PAHs only
Added 4/18 13		D8	No ferrous for VOC (Sbi+HCl)	
			mj/18/18	

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: Sample 11 has sediment at bottom of vials. PB 4/19/18

* No Label

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in label/COC
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in label
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	No label
D23	
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client
R9	
R10	
R11	
R12	

REVIEWS: Sample Labeling: Elsabel Mata / Carlton Date 4/18/18 4/18/18

SRF: Aquilea Date 4/18/18

PM: AB Date 4/18/18

Andy Mai

From: Andy Mai
Sent: Tuesday, May 01, 2018 3:46 PM
To: 'Carrie.Crozier@Parsons.com'
Cc: Richard Beauvil; Kim Tran
Subject: POLA-1550 I Street; 18D145 discrepancy
Attachments: 18D145.pdf

Hi Carrie,

The lab informed me that the set of VOA vials for sample B11-0.5 (D145-13) was not received. We will cancel the analysis requested for VOCs by 8260. Please let us know if there are any questions.

Thanks,
Andy Mai
EMAX Laboratories, Inc.
1835 W. 205th St.
Torrance, CA 90501
Tel: 310-618-8889 ext. 117
Fax: 310-618-0818
AMai@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of three (3) water samples were received on 04/18/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5030B/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VO05D10B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VO05D10L/VO05D10C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 05

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V005D10B	1	NA	04/23/1815:41	04/23/1815:41	RDQ228	RJQ007	V005D10	Method Blank
LCS1W	V005D10L	1	NA	04/23/1814:26	04/23/1814:26	RDQ225	RJQ007	V005D10	Lab Control Sample (LCS)
LCD1W	V005D10C	1	NA	04/23/1814:50	04/23/1814:50	RDQ226	RJQ007	V005D10	LCS Duplicate
EB	D145-16	1	NA	04/23/1819:58	04/23/1819:58	RDQ238	RJQ007	V005D10	Field Sample
TRIP BLANK	D145-17	1	NA	04/23/1820:23	04/23/1820:23	RDQ239	RJQ007	V005D10	Field Sample
B11	D145-11	1	NA	04/23/1822:31	04/23/1822:31	RDQ244	RJQ007	V005D10	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 22:31
Sample ID: B11	Date Analyzed: 04/23/18 22:31
Lab Samp ID: D145-11	Dilution Factor: 1
Lab File ID: RDQ244	Matrix : WATER
Ext Btch ID: VO05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	13J	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.7	10.00	107	70-140
4-BROMOFLUOROBENZENE	9.30	10.00	93.0	70-130
TOLUENE-D8	10.1	10.00	101	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 19:58
Sample ID: EB	Date Analyzed: 04/23/18 19:58
Lab Samp ID: D145-16	Dilution Factor: 1
Lab File ID: RDQ238	Matrix : WATER
Ext Btch ID: VOO5D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-140
4-BROMOFLUOROBENZENE	9.77	10.00	97.7	70-130
TOLUENE-D8	10.5	10.00	105	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 20:23
Sample ID: TRIP BLANK	Date Analyzed: 04/23/18 20:23
Lab Samp ID: D145-17	Dilution Factor: 1
Lab File ID: RDQ239	Matrix : WATER
Ext Btch ID: VQ05D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.4	10.00	104	70-140
4-BROMOFLUOROBENZENE	9.72	10.00	97.2	70-130
TOLUENE-D8	10.4	10.00	104	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D145	Date Extracted: 04/23/18 15:41
Sample ID: MBLK1W	Date Analyzed: 04/23/18 15:41
Lab Samp ID: V005D10B	Dilution Factor: 1
Lab File ID: RDQ228	Matrix : WATER
Ext Btch ID: V005D10	% Moisture : NA
Calib. Ref.: RJQ007	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	5.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	50	5.0
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	10	0.30
CARBON DISULFIDE	ND	10	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	5.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	10	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	2.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	10	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	10	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	0.50	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	10	0.30
VINYL CHLORIDE	ND	0.50	0.20
VINYL ACETATE	ND	10	0.50
FREON113	ND	10	0.30
DIBROMOMETHANE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-140
4-BROMOFLUOROBENZENE	9.80	10.00	98.0	70-130
TOLUENE-D8	10.4	10.00	104	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO05D10B	VO05D10L	VO05D10C		
LAB FILE ID:	RDQ228	RDQ225	RDQ226		
DATE EXTRACTED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1815:41	04/23/1814:26	04/23/1814:50	DATE RECEIVED:	04/23/18
PREP. BATCH:	VO05D10	VO05D10	VO05D10		
CALIB. REF:	RJQ007	RJQ007	RJQ007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.56	96	10.0	9.31	93	3	60-130	20
Benzene	ND	10.0	9.52	95	10.0	9.28	93	3	70-130	20
Chlorobenzene	ND	10.0	9.33	93	10.0	9.34	93	0	70-120	20
Toluene	ND	10.0	9.60	96	10.0	9.29	93	3	70-130	20
Trichloroethene	ND	10.0	9.00	90	10.0	8.78	88	2	70-130	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	10.3	103	70-140
4-Bromofluorobenzene	10.0	9.32	93	10.0	9.40	94	70-130
Toluene-d8	10.0	10.4	104	10.0	10.1	101	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

A total of eleven (11) soil samples were received on 04/18/18 to be analyzed for Volatile Organics by GC/MS in accordance with Method 5035A/8260B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed. VS03D10B and VS03D11B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two (2) sets of LCS/LCD were analyzed. VS03D10L/VS03D10C and VS03D11L/VS03D11C were within LCS limits. Refer to LCS summary forms for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Instrument ID : 03

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VS03D10B	1	NA	04/19/1812:37	04/19/1812:37	RDB203	RDB172	VS03D10	Method Blank
LCS1S	VS03D10L	1	NA	04/19/1811:13	04/19/1811:13	RDB200	RDB172	VS03D10	Lab Control Sample (LCS)
LCD1S	VS03D10C	1	NA	04/19/1811:41	04/19/1811:41	RDB201	RDB172	VS03D10	LCS Duplicate
B11-10	D145-01	0.94	22.7	04/19/1814:29	04/19/1814:29	RDB207	RDB172	VS03D10	Field Sample
B11-15	D145-02	0.72	14.3	04/19/1814:56	04/19/1814:56	RDB208	RDB172	VS03D10	Field Sample
B12-2	D145-04	1.16	5.3	04/19/1815:24	04/19/1815:24	RDB209	RDB172	VS03D10	Field Sample
B12-5	D145-05	1.1	12.5	04/19/1815:51	04/19/1815:51	RDB210	RDB172	VS03D10	Field Sample
B12-10	D145-06	0.94	25.5	04/19/1816:20	04/19/1816:20	RDB211	RDB172	VS03D10	Field Sample
B13-2	D145-08	0.99	8.1	04/19/1816:47	04/19/1816:47	RDB212	RDB172	VS03D10	Field Sample
B13-5	D145-09	1.24	6.9	04/19/1817:15	04/19/1817:15	RDB213	RDB172	VS03D10	Field Sample
B11-10D	D145-10	0.97	21.7	04/19/1817:43	04/19/1817:43	RDB214	RDB172	VS03D10	Field Sample
B13-10	D145-12	0.8	13.7	04/19/1818:11	04/19/1818:11	RDB215	RDB172	VS03D10	Field Sample
MBLK2S	VS03D11B	1	NA	04/27/1816:51	04/27/1816:51	RDB222	RDB172	VS03D11	Method Blank
LCS2S	VS03D11L	1	NA	04/27/1815:28	04/27/1815:28	RDB219	RDB172	VS03D11	Lab Control Sample (LCS)
LCD2S	VS03D11C	1	NA	04/27/1815:56	04/27/1815:56	RDB220	RDB172	VS03D11	LCS Duplicate
B11-2	D145-14	1.31	5.8	04/27/1817:18	04/27/1817:18	RDB223	RDB172	VS03D11	Field Sample
B11-5	D145-15	1.1	10.8	04/27/1818:14	04/27/1818:14	RDB225	RDB172	VS03D11	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 14:29
Sample ID: B11-10	Date Analyzed: 04/19/18 14:29
Lab Samp ID: D145-01	Dilution Factor: 0.94
Lab File ID: RDB207	Matrix : SOIL
Ext.Btch ID: VS03D10	% Moisture : 22.7
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,1-DICHLOROPROPENE	ND	6.1	1.2
1,2,3-TRICHLOROBENZENE	ND	6.1	2.4
1,2,3-TRICHLOROPROPANE	ND	6.1	2.4
1,2,4-TRICHLOROBENZENE	ND	6.1	2.4
1,2,4-TRIMETHYLBENZENE	ND	6.1	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.1	2.4
1,2-DIBROMOETHANE	ND	6.1	1.2
1,2-DICHLOROBENZENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.1	1.2
1,3-DICHLOROBENZENE	ND	6.1	1.2
1,3-DICHLOROPROPANE	ND	6.1	1.2
1,4-DICHLOROBENZENE	ND	6.1	1.2
2,2-DICHLOROPROPANE	ND	6.1	2.4
2-BUTANONE	ND	12	6.1
2-CHLOROTOLUENE	ND	6.1	1.2
2-HEXANONE	ND	12	6.1
4-CHLOROTOLUENE	ND	6.1	1.2
ACETONE	11J	12	6.1
BENZENE	1.7J	6.1	1.2
BROMOBENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
DICHLORODIFLUOROMETHANE	ND	6.1	2.4
ETHYLBENZENE	ND	6.1	1.2
ISOPROPYL BENZENE	ND	6.1	1.2
M,P-XYLENES	ND	12	2.4
MIBK	ND	12	6.1
METHYLENE CHLORIDE	ND	6.1	2.4
MTBE	ND	6.1	1.2
NAPHTHALENE	ND	6.1	2.4
N-BUTYLBENZENE	ND	6.1	1.2
N-PROPYLBENZENE	ND	6.1	1.2
O-XYLENE	ND	6.1	1.2
P-ISOPROPYLTOLUENE	ND	6.1	1.2
SEC-BUTYLBENZENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TERT-BUTYLBENZENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	1.4J	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
TRICHLOROFLUOROMETHANE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4
VINYL ACETATE	ND	6.1	2.4
FREON113	ND	6.1	2.4
DIBROMOMETHANE	ND	6.1	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.9	60.80	80.4	60-160
4-BROMOFLUOROBENZENE	74.4	60.80	122	70-150
TOLUENE-D8	63.2	60.80	104	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 14:56
Sample ID: B11-15	Date Analyzed: 04/19/18 14:56
Lab Samp ID: D145-02	Dilution Factor: 0.72
Lab File ID: RDB208	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 14.3
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.2	0.84
1,1,1-TRICHLOROETHANE	ND	4.2	0.84
1,1,2,2-TETRACHLOROETHANE	ND	4.2	0.84
1,1,2-TRICHLOROETHANE	ND	4.2	0.84
1,1-DICHLOROETHANE	ND	4.2	0.84
1,1-DICHLOROETHENE	ND	4.2	0.84
1,1-DICHLOROPROPENE	ND	4.2	0.84
1,2,3-TRICHLOROBENZENE	ND	4.2	1.7
1,2,3-TRICHLOROPROPANE	ND	4.2	1.7
1,2,4-TRICHLOROBENZENE	ND	4.2	1.7
1,2,4-TRIMETHYLBENZENE	ND	4.2	0.84
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.2	1.7
1,2-DIBROMOETHANE	ND	4.2	0.84
1,2-DICHLOROBENZENE	ND	4.2	0.84
1,2-DICHLOROETHANE	ND	4.2	0.84
1,2-DICHLOROPROPANE	ND	4.2	0.84
1,3,5-TRIMETHYLBENZENE	ND	4.2	0.84
1,3-DICHLOROBENZENE	ND	4.2	0.84
1,3-DICHLOROPROPANE	ND	4.2	0.84
1,4-DICHLOROBENZENE	ND	4.2	0.84
2,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-CHLOROTOLUENE	ND	4.2	0.84
2-HEXANONE	ND	8.4	4.2
4-CHLOROTOLUENE	ND	4.2	0.84
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	0.84
BROMOBENZENE	ND	4.2	0.84
BROMOCHLOROMETHANE	ND	4.2	0.84
BROMODICHLOROMETHANE	ND	4.2	0.84
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	4.2	1.7
CARBON DISULFIDE	ND	4.2	0.84
CARBON TETRACHLORIDE	ND	4.2	0.84
CHLOROBENZENE	ND	4.2	0.84
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	0.84
CHLOROMETHANE	ND	4.2	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	0.84
CIS-1,3-DICHLOROPROPENE	ND	4.2	0.84
DIBROMOCHLOROMETHANE	ND	4.2	0.84
DICHLORODIFLUOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	0.84
ISOPROPYL BENZENE	ND	4.2	0.84
M,P-XYLENES	ND	8.4	1.7
MIBK	ND	8.4	4.2
METHYLENE CHLORIDE	ND	4.2	1.7
MTBE	ND	4.2	0.84
NAPHTHALENE	ND	4.2	1.7
N-BUTYLBENZENE	ND	4.2	0.84
N-PROPYLBENZENE	ND	4.2	0.84
O-XYLENE	ND	4.2	0.84
P-ISOPROPYLTOLUENE	ND	4.2	0.84
SEC-BUTYLBENZENE	ND	4.2	0.84
STYRENE	ND	4.2	0.84
TERT-BUTYLBENZENE	ND	4.2	0.84
TETRACHLOROETHENE	ND	4.2	0.84
TOLUENE	ND	4.2	0.84
TRANS-1,2-DICHLOROETHENE	ND	4.2	0.84
TRANS-1,3-DICHLOROPROPENE	ND	4.2	0.84
TRICHLOROETHENE	ND	4.2	0.84
TRICHLOROFLUOROMETHANE	ND	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
VINYL ACETATE	ND	4.2	1.7
FREON113	ND	4.2	1.7
DIBROMOMETHANE	ND	4.2	0.84

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	43.0	42.01	102	60-160
4-BROMOFLUOROBENZENE	43.5	42.01	104	70-150
TOLUENE-D8	40.1	42.01	95.5	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 15:24
Sample ID: B12-2	Date Analyzed: 04/19/18 15:24
Lab Samp ID: D145-04	Dilution Factor: 1.16
Lab File ID: RDB209	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 5.3
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,1-DICHLOROPROPENE	ND	6.1	1.2
1,2,3-TRICHLOROBENZENE	ND	6.1	2.4
1,2,3-TRICHLOROPROPANE	ND	6.1	2.4
1,2,4-TRICHLOROBENZENE	ND	6.1	2.4
1,2,4-TRIMETHYLBENZENE	4.6J	6.1	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.1	2.4
1,2-DIBROMOETHANE	ND	6.1	1.2
1,2-DICHLOROBENZENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
1,3,5-TRIMETHYLBENZENE	1.7J	6.1	1.2
1,3-DICHLOROBENZENE	ND	6.1	1.2
1,3-DICHLOROPROPANE	ND	6.1	1.2
1,4-DICHLOROBENZENE	ND	6.1	1.2
2,2-DICHLOROPROPANE	ND	6.1	2.4
2-BUTANONE	10J	12	6.1
2-CHLOROTOLUENE	ND	6.1	1.2
2-HEXANONE	9.1J	12	6.1
4-CHLOROTOLUENE	ND	6.1	1.2
ACETONE	87	12	6.1
BENZENE	1.2J	6.1	1.2
BROMOBENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
DICHLORODIFLUOROMETHANE	ND	6.1	2.4
ETHYLBENZENE	ND	6.1	1.2
ISOPROPYL BENZENE	ND	6.1	1.2
M,P-XYLENES	4.7J	12	2.4
MIBK	ND	12	6.1
METHYLENE CHLORIDE	ND	6.1	2.4
MTBE	ND	6.1	1.2
NAPHTHALENE	ND	6.1	2.4
N-BUTYLBENZENE	ND	6.1	1.2
N-PROPYLBENZENE	ND	6.1	1.2
O-XYLENE	2.3J	6.1	1.2
P-ISOPROPYLTOLUENE	ND	6.1	1.2
SEC-BUTYLBENZENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TERT-BUTYLBENZENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	1.5J	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
TRICHLOROFLUOROMETHANE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4
VINYL ACETATE	ND	6.1	2.4
FREON113	ND	6.1	2.4
DIBROMOMETHANE	ND	6.1	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.4	61.25	97.0	60-160
4-BROMOFLUOROBENZENE	84.4	61.25	138	70-150
TOLUENE-D8	62.8	61.25	103	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 15:51
Sample ID: B12-5	Date Analyzed: 04/19/18 15:51
Lab Samp ID: D145-05	Dilution Factor: 1.1
Lab File ID: RDB210	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 12.5
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,1-TRICHLOROETHANE	ND	6.3	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,2-TRICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHENE	ND	6.3	1.3
1,1-DICHLOROPROPENE	ND	6.3	1.3
1,2,3-TRICHLOROBENZENE	ND	6.3	2.5
1,2,3-TRICHLOROPROPANE	ND	6.3	2.5
1,2,4-TRICHLOROBENZENE	ND	6.3	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.3	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.3	2.5
1,2-DIBROMOETHANE	ND	6.3	1.3
1,2-DICHLOROBENZENE	ND	6.3	1.3
1,2-DICHLOROETHANE	ND	6.3	1.3
1,2-DICHLOROPROPANE	ND	6.3	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.3	1.3
1,3-DICHLOROBENZENE	ND	6.3	1.3
1,3-DICHLOROPROPANE	ND	6.3	1.3
1,4-DICHLOROBENZENE	ND	6.3	1.3
2,2-DICHLOROPROPANE	ND	6.3	2.5
2-BUTANONE	ND	13	6.3
2-CHLOROTOLUENE	ND	6.3	1.3
2-HEXANONE	ND	13	6.3
4-CHLOROTOLUENE	ND	6.3	1.3
ACETONE	19	13	6.3
BENZENE	1.3J	6.3	1.3
BROMOBENZENE	ND	6.3	1.3
BROMOCHLOROMETHANE	ND	6.3	1.3
BROMODICHLOROMETHANE	ND	6.3	1.3
BROMOFORM	ND	6.3	2.5
BROMOMETHANE	ND	6.3	2.5
CARBON DISULFIDE	ND	6.3	1.3
CARBON TETRACHLORIDE	ND	6.3	1.3
CHLOROBENZENE	ND	6.3	1.3
CHLOROETHANE	ND	6.3	2.5
CHLOROFORM	ND	6.3	1.3
CHLOROMETHANE	ND	6.3	2.5
CIS-1,2-DICHLOROETHENE	ND	6.3	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.3	1.3
DIBROMOCHLOROMETHANE	ND	6.3	1.3
DICHLORODIFLUOROMETHANE	ND	6.3	2.5
ETHYLBENZENE	ND	6.3	1.3
ISOPROPYL BENZENE	ND	6.3	1.3
M,P-XYLENES	ND	13	2.5
MIBK	ND	13	6.3
METHYLENE CHLORIDE	ND	6.3	2.5
MTBE	ND	6.3	1.3
NAPHTHALENE	ND	6.3	2.5
N-BUTYLBENZENE	ND	6.3	1.3
N-PROPYLBENZENE	ND	6.3	1.3
O-XYLENE	ND	6.3	1.3
P-ISOPROPYLTOLUENE	ND	6.3	1.3
SEC-BUTYLBENZENE	ND	6.3	1.3
STYRENE	ND	6.3	1.3
TERT-BUTYLBENZENE	ND	6.3	1.3
TETRACHLOROETHENE	ND	6.3	1.3
TOLUENE	ND	6.3	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.3	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.3	1.3
TRICHLOROETHENE	ND	6.3	1.3
TRICHLOROFLUOROMETHANE	ND	6.3	2.5
VINYL CHLORIDE	ND	6.3	2.5
VINYL ACETATE	ND	6.3	2.5
FREON113	ND	6.3	2.5
DIBROMOMETHANE	ND	6.3	1.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	61.0	62.86	97.0	60-160
4-BROMOFLUOROBENZENE	68.7	62.86	109	70-150
TOLUENE-D8	61.3	62.86	97.5	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 16:20
Sample ID: B12-10	Date Analyzed: 04/19/18 16:20
Lab Samp ID: D145-06	Dilution Factor: 0.94
Lab File ID: RDB211	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 25.5
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,1-TRICHLOROETHANE	ND	6.3	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,2-TRICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHENE	ND	6.3	1.3
1,1-DICHLOROPROPENE	ND	6.3	1.3
1,2,3-TRICHLOROBENZENE	ND	6.3	2.5
1,2,3-TRICHLOROPROPANE	ND	6.3	2.5
1,2,4-TRICHLOROBENZENE	ND	6.3	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.3	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.3	2.5
1,2-DIBROMOETHANE	ND	6.3	1.3
1,2-DICHLOROBENZENE	ND	6.3	1.3
1,2-DICHLOROETHANE	ND	6.3	1.3
1,2-DICHLOROPROPANE	ND	6.3	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.3	1.3
1,3-DICHLOROBENZENE	ND	6.3	1.3
1,3-DICHLOROPROPANE	ND	6.3	1.3
1,4-DICHLOROBENZENE	ND	6.3	1.3
2,2-DICHLOROPROPANE	ND	6.3	2.5
2-BUTANONE	ND	13	6.3
2-CHLOROTOLUENE	ND	6.3	1.3
2-HEXANONE	ND	13	6.3
4-CHLOROTOLUENE	ND	6.3	1.3
ACETONE	11J	13	6.3
BENZENE	ND	6.3	1.3
BROMOBENZENE	ND	6.3	1.3
BROMOCHLOROMETHANE	ND	6.3	1.3
BROMODICHLOROMETHANE	ND	6.3	1.3
BROMOFORM	ND	6.3	2.5
BROMOMETHANE	ND	6.3	2.5
CARBON DISULFIDE	ND	6.3	1.3
CARBON TETRACHLORIDE	ND	6.3	1.3
CHLOROBENZENE	ND	6.3	1.3
CHLOROETHANE	ND	6.3	2.5
CHLOROFORM	ND	6.3	1.3
CHLOROMETHANE	ND	6.3	2.5
CIS-1,2-DICHLOROETHENE	ND	6.3	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.3	1.3
DIBROMOCHLOROMETHANE	ND	6.3	1.3
DICHLORODIFLUOROMETHANE	ND	6.3	2.5
ETHYLBENZENE	ND	6.3	1.3
ISOPROPYL BENZENE	ND	6.3	1.3
M,P-XYLENES	ND	13	2.5
MIBK	ND	13	6.3
METHYLENE CHLORIDE	ND	6.3	2.5
MTBE	ND	6.3	1.3
NAPHTHALENE	ND	6.3	2.5
N-BUTYLBENZENE	ND	6.3	1.3
N-PROPYLBENZENE	ND	6.3	1.3
O-XYLENE	ND	6.3	1.3
P-ISOPROPYLTOLUENE	ND	6.3	1.3
SEC-BUTYLBENZENE	ND	6.3	1.3
STYRENE	ND	6.3	1.3
TERT-BUTYLBENZENE	ND	6.3	1.3
TETRACHLOROETHENE	ND	6.3	1.3
TOLUENE	ND	6.3	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.3	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.3	1.3
TRICHLOROETHENE	ND	6.3	1.3
TRICHLOROFLUOROMETHANE	ND	6.3	2.5
VINYL CHLORIDE	ND	6.3	2.5
VINYL ACETATE	ND	6.3	2.5
FREON113	ND	6.3	2.5
DIBROMOMETHANE	ND	6.3	1.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	58.1	63.09	92.2	60-160
4-BROMOFLUOROBENZENE	72.6	63.09	115	70-150
TOLUENE-D8	61.0	63.09	96.7	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 16:47
Sample ID: B13-2	Date Analyzed: 04/19/18 16:47
Lab Samp ID: D145-08	Dilution Factor: 0.99
Lab File ID: RDB212	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 8.1
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,1-TRICHLOROETHANE	ND	5.4	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.4	1.1
1,1,2-TRICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHANE	ND	5.4	1.1
1,1-DICHLOROETHENE	ND	5.4	1.1
1,1-DICHLOROPROPENE	ND	5.4	1.1
1,2,3-TRICHLOROBENZENE	ND	5.4	2.2
1,2,3-TRICHLOROPROPANE	ND	5.4	2.2
1,2,4-TRICHLOROBENZENE	ND	5.4	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.4	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.4	2.2
1,2-DIBROMOETHANE	ND	5.4	1.1
1,2-DICHLOROBENZENE	ND	5.4	1.1
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.4	1.1
1,3-DICHLOROBENZENE	ND	5.4	1.1
1,3-DICHLOROPROPANE	ND	5.4	1.1
1,4-DICHLOROBENZENE	ND	5.4	1.1
2,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-CHLOROTOLUENE	ND	5.4	1.1
2-HEXANONE	ND	11	5.4
4-CHLOROTOLUENE	ND	5.4	1.1
ACETONE	26	11	5.4
BENZENE	ND	5.4	1.1
BROMOBENZENE	ND	5.4	1.1
BROMOCHLOROMETHANE	ND	5.4	1.1
BROMODICHLOROMETHANE	ND	5.4	1.1
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	5.4	2.2
CARBON DISULFIDE	2.4J	5.4	1.1
CARBON TETRACHLORIDE	ND	5.4	1.1
CHLOROBENZENE	ND	5.4	1.1
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	1.1
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.4	1.1
DIBROMOCHLOROMETHANE	ND	5.4	1.1
DICHLORODIFLUOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	1.1
ISOPROPYL BENZENE	ND	5.4	1.1
M,P-XYLENES	ND	11	2.2
MIBK	ND	11	5.4
METHYLENE CHLORIDE	ND	5.4	2.2
MTBE	ND	5.4	1.1
NAPHTHALENE	ND	5.4	2.2
N-BUTYLBENZENE	ND	5.4	1.1
N-PROPYLBENZENE	ND	5.4	1.1
O-XYLENE	ND	5.4	1.1
P-ISOPROPYLTOLUENE	ND	5.4	1.1
SEC-BUTYLBENZENE	ND	5.4	1.1
STYRENE	ND	5.4	1.1
TERT-BUTYLBENZENE	ND	5.4	1.1
TETRACHLOROETHENE	ND	5.4	1.1
TOLUENE	ND	5.4	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.4	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.4	1.1
TRICHLOROETHENE	ND	5.4	1.1
TRICHLOROFLUOROMETHANE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
VINYL ACETATE	ND	5.4	2.2
FREON113	ND	5.4	2.2
DIBROMOMETHANE	ND	5.4	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.4	53.86	89.9	60-160
4-BROMOFLUOROBENZENE	75.6	53.86	140	70-150
TOLUENE-D8	59.7	53.86	111	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 17:15
Sample ID: B13-5	Date Analyzed: 04/19/18 17:15
Lab Samp ID: D145-09	Dilution Factor: 1.24
Lab File ID: RDB213	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 6.9
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.7	1.3
1,1,1-TRICHLOROETHANE	ND	6.7	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.7	1.3
1,1,2-TRICHLOROETHANE	ND	6.7	1.3
1,1-DICHLOROETHANE	ND	6.7	1.3
1,1-DICHLOROETHENE	ND	6.7	1.3
1,1-DICHLOROPROPENE	ND	6.7	1.3
1,2,3-TRICHLOROBENZENE	ND	6.7	2.7
1,2,3-TRICHLOROPROPANE	ND	6.7	2.7
1,2,4-TRICHLOROBENZENE	ND	6.7	2.7
1,2,4-TRIMETHYLBENZENE	ND	6.7	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.7	2.7
1,2-DIBROMOETHANE	ND	6.7	1.3
1,2-DICHLOROBENZENE	ND	6.7	1.3
1,2-DICHLOROETHANE	ND	6.7	1.3
1,2-DICHLOROPROPANE	ND	6.7	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.7	1.3
1,3-DICHLOROBENZENE	ND	6.7	1.3
1,3-DICHLOROPROPANE	ND	6.7	1.3
1,4-DICHLOROBENZENE	ND	6.7	1.3
2,2-DICHLOROPROPANE	ND	6.7	2.7
2-BUTANONE	ND	13	6.7
2-CHLOROTOLUENE	ND	6.7	1.3
2-HEXANONE	ND	13	6.7
4-CHLOROTOLUENE	ND	6.7	1.3
ACETONE	16	13	6.7
BENZENE	ND	6.7	1.3
BROMOBENZENE	ND	6.7	1.3
BROMOCHLOROMETHANE	ND	6.7	1.3
BROMODICHLOROMETHANE	ND	6.7	1.3
BROMOFORM	ND	6.7	2.7
BROMOMETHANE	ND	6.7	2.7
CARBON DISULFIDE	ND	6.7	1.3
CARBON TETRACHLORIDE	ND	6.7	1.3
CHLOROBENZENE	ND	6.7	1.3
CHLOROETHANE	ND	6.7	2.7
CHLOROFORM	ND	6.7	1.3
CHLOROMETHANE	ND	6.7	2.7
CIS-1,2-DICHLOROETHENE	ND	6.7	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.7	1.3
DIBROMOCHLOROMETHANE	ND	6.7	1.3
DICHLORODIFLUOROMETHANE	ND	6.7	2.7
ETHYLBENZENE	ND	6.7	1.3
ISOPROPYL BENZENE	ND	6.7	1.3
M,P-XYLENES	ND	13	2.7
MIBK	ND	13	6.7
METHYLENE CHLORIDE	ND	6.7	2.7
MTBE	ND	6.7	1.3
NAPHTHALENE	ND	6.7	2.7
N-BUTYLBENZENE	ND	6.7	1.3
N-PROPYLBENZENE	ND	6.7	1.3
O-XYLENE	ND	6.7	1.3
P-ISOPROPYLTOLUENE	ND	6.7	1.3
SEC-BUTYLBENZENE	ND	6.7	1.3
STYRENE	ND	6.7	1.3
TERT-BUTYLBENZENE	ND	6.7	1.3
TETRACHLOROETHENE	ND	6.7	1.3
TOLUENE	ND	6.7	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.7	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.7	1.3
TRICHLOROETHENE	ND	6.7	1.3
TRICHLOROFLUOROMETHANE	ND	6.7	2.7
VINYL CHLORIDE	ND	6.7	2.7
VINYL ACETATE	ND	6.7	2.7
FREON113	ND	6.7	2.7
DIBROMOMETHANE	ND	6.7	1.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	62.4	66.60	93.6	60-160
4-BROMOFLUOROBENZENE	77.0	66.60	116	70-150
TOLUENE-D8	65.3	66.60	98.0	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 17:43
Sample ID: B11-10D	Date Analyzed: 04/19/18 17:43
Lab Samp ID: D145-10	Dilution Factor: 0.97
Lab File ID: RDB214	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 21.7
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.2	1.2
1,1,1-TRICHLOROETHANE	ND	6.2	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.2	1.2
1,1,2-TRICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHENE	ND	6.2	1.2
1,1-DICHLOROPROPENE	ND	6.2	1.2
1,2,3-TRICHLOROBENZENE	ND	6.2	2.5
1,2,3-TRICHLOROPROPANE	ND	6.2	2.5
1,2,4-TRICHLOROBENZENE	ND	6.2	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.2	1.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.2	2.5
1,2-DIBROMOETHANE	ND	6.2	1.2
1,2-DICHLOROBENZENE	ND	6.2	1.2
1,2-DICHLOROETHANE	ND	6.2	1.2
1,2-DICHLOROPROPANE	ND	6.2	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.2	1.2
1,3-DICHLOROBENZENE	ND	6.2	1.2
1,3-DICHLOROPROPANE	ND	6.2	1.2
1,4-DICHLOROBENZENE	ND	6.2	1.2
2,2-DICHLOROPROPANE	ND	6.2	2.5
2-BUTANONE	ND	12	6.2
2-CHLOROTOLUENE	ND	6.2	1.2
2-HEXANONE	ND	12	6.2
4-CHLOROTOLUENE	ND	6.2	1.2
ACETONE	16	12	6.2
BENZENE	ND	6.2	1.2
BROMOBENZENE	ND	6.2	1.2
BROMOCHLOROMETHANE	ND	6.2	1.2
BROMODICHLOROMETHANE	ND	6.2	1.2
BROMOFORM	ND	6.2	2.5
BROMOMETHANE	ND	6.2	2.5
CARBON DISULFIDE	ND	6.2	1.2
CARBON TETRACHLORIDE	ND	6.2	1.2
CHLOROBENZENE	ND	6.2	1.2
CHLOROETHANE	ND	6.2	2.5
CHLOROFORM	ND	6.2	1.2
CHLOROMETHANE	ND	6.2	2.5
CIS-1,2-DICHLOROETHENE	ND	6.2	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.2	1.2
DIBROMOCHLOROMETHANE	ND	6.2	1.2
DICHLORODIFLUOROMETHANE	ND	6.2	2.5
ETHYLBENZENE	ND	6.2	1.2
ISOPROPYL BENZENE	ND	6.2	1.2
M,P-XYLENES	ND	12	2.5
MIBK	ND	12	6.2
METHYLENE CHLORIDE	ND	6.2	2.5
MTBE	ND	6.2	1.2
NAPHTHALENE	ND	6.2	2.5
N-BUTYLBENZENE	ND	6.2	1.2
N-PROPYLBENZENE	ND	6.2	1.2
O-XYLENE	ND	6.2	1.2
P-ISOPROPYLTOLUENE	ND	6.2	1.2
SEC-BUTYLBENZENE	ND	6.2	1.2
STYRENE	ND	6.2	1.2
TERT-BUTYLBENZENE	ND	6.2	1.2
TETRACHLOROETHENE	ND	6.2	1.2
TOLUENE	ND	6.2	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.2	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.2	1.2
TRICHLOROETHENE	ND	6.2	1.2
TRICHLOROFLUOROMETHANE	ND	6.2	2.5
VINYL CHLORIDE	ND	6.2	2.5
VINYL ACETATE	ND	6.2	2.5
FREON113	ND	6.2	2.5
DIBROMOMETHANE	ND	6.2	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	56.9	61.94	91.9	60-160
4-BROMOFLUOROBENZENE	70.6	61.94	114	70-150
TOLUENE-D8	61.5	61.94	99.3	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/19/18 18:11
Sample ID: B13-10	Date Analyzed: 04/19/18 18:11
Lab Samp ID: D145-12	Dilution Factor: 0.8
Lab File ID: RDB215	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : 13.7
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.6	0.93
1,1,1-TRICHLOROETHANE	ND	4.6	0.93
1,1,2,2-TETRACHLOROETHANE	ND	4.6	0.93
1,1,2-TRICHLOROETHANE	ND	4.6	0.93
1,1-DICHLOROETHANE	ND	4.6	0.93
1,1-DICHLOROETHENE	ND	4.6	0.93
1,1-DICHLOROPROPENE	ND	4.6	0.93
1,2,3-TRICHLOROBENZENE	ND	4.6	1.9
1,2,3-TRICHLOROPROPANE	ND	4.6	1.9
1,2,4-TRICHLOROBENZENE	ND	4.6	1.9
1,2,4-TRIMETHYLBENZENE	ND	4.6	0.93
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.6	1.9
1,2-DIBROMOETHANE	ND	4.6	0.93
1,2-DICHLOROBENZENE	ND	4.6	0.93
1,2-DICHLOROETHANE	ND	4.6	0.93
1,2-DICHLOROPROPANE	ND	4.6	0.93
1,3,5-TRIMETHYLBENZENE	ND	4.6	0.93
1,3-DICHLOROBENZENE	ND	4.6	0.93
1,3-DICHLOROPROPANE	ND	4.6	0.93
1,4-DICHLOROBENZENE	ND	4.6	0.93
2,2-DICHLOROPROPANE	ND	4.6	1.9
2-BUTANONE	ND	9.3	4.6
2-CHLOROTOLUENE	ND	4.6	0.93
2-HEXANONE	ND	9.3	4.6
4-CHLOROTOLUENE	ND	4.6	0.93
ACETONE	46	9.3	4.6
BENZENE	ND	4.6	0.93
BROMOBENZENE	ND	4.6	0.93
BROMOCHLOROMETHANE	ND	4.6	0.93
BROMODICHLOROMETHANE	ND	4.6	0.93
BROMOFORM	ND	4.6	1.9
BROMOMETHANE	ND	4.6	1.9
CARBON DISULFIDE	ND	4.6	0.93
CARBON TETRACHLORIDE	ND	4.6	0.93
CHLOROBENZENE	ND	4.6	0.93
CHLOROETHANE	ND	4.6	1.9
CHLOROFORM	ND	4.6	0.93
CHLOROMETHANE	ND	4.6	1.9
CIS-1,2-DICHLOROETHENE	ND	4.6	0.93
CIS-1,3-DICHLOROPROPENE	ND	4.6	0.93
DIBROMOCHLOROMETHANE	ND	4.6	0.93
DICHLORODIFLUOROMETHANE	ND	4.6	1.9
ETHYLBENZENE	ND	4.6	0.93
ISOPROPYL BENZENE	ND	4.6	0.93
M,P-XYLENES	ND	9.3	1.9
MIBK	ND	9.3	4.6
METHYLENE CHLORIDE	ND	4.6	1.9
MTBE	ND	4.6	0.93
NAPHTHALENE	ND	4.6	1.9
N-BUTYLBENZENE	ND	4.6	0.93
N-PROPYLBENZENE	ND	4.6	0.93
O-XYLENE	ND	4.6	0.93
P-ISOPROPYLTOLUENE	ND	4.6	0.93
SEC-BUTYLBENZENE	ND	4.6	0.93
STYRENE	ND	4.6	0.93
TERT-BUTYLBENZENE	ND	4.6	0.93
TETRACHLOROETHENE	ND	4.6	0.93
TOLUENE	ND	4.6	0.93
TRANS-1,2-DICHLOROETHENE	ND	4.6	0.93
TRANS-1,3-DICHLOROPROPENE	ND	4.6	0.93
TRICHLOROETHENE	ND	4.6	0.93
TRICHLOROFLUOROMETHANE	ND	4.6	1.9
VINYL CHLORIDE	ND	4.6	1.9
VINYL ACETATE	ND	4.6	1.9
FREON113	ND	4.6	1.9
DIBROMOMETHANE	ND	4.6	0.93

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.0	46.35	99.3	60-160
4-BROMOFLUOROBENZENE	51.5	46.35	111	70-150
TOLUENE-D8	45.5	46.35	98.2	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 17:18
Sample ID: B11-2	Date Analyzed: 04/27/18 17:18
Lab Samp ID: D145-14	Dilution Factor: 1.31
Lab File ID: RDB223	Matrix : SOIL
Ext Btch ID: VS03D11	% Moisture : 5.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	7.0	1.4
1,1,1-TRICHLOROETHANE	ND	7.0	1.4
1,1,2,2-TETRACHLOROETHANE	ND	7.0	1.4
1,1,2-TRICHLOROETHANE	ND	7.0	1.4
1,1-DICHLOROETHANE	ND	7.0	1.4
1,1-DICHLOROETHENE	ND	7.0	1.4
1,1-DICHLOROPROPENE	ND	7.0	1.4
1,2,3-TRICHLOROBENZENE	ND	7.0	2.8
1,2,3-TRICHLOROPROPANE	ND	7.0	2.8
1,2,4-TRICHLOROBENZENE	ND	7.0	2.8
1,2,4-TRIMETHYLBENZENE	ND	7.0	1.4
1,2-DIBROMO-3-CHLOROPROPANE	ND	7.0	2.8
1,2-DIBROMOETHANE	ND	7.0	1.4
1,2-DICHLOROBENZENE	ND	7.0	1.4
1,2-DICHLOROETHANE	ND	7.0	1.4
1,2-DICHLOROPROPANE	ND	7.0	1.4
1,3,5-TRIMETHYLBENZENE	ND	7.0	1.4
1,3-DICHLOROBENZENE	ND	7.0	1.4
1,3-DICHLOROPROPANE	ND	7.0	1.4
1,4-DICHLOROBENZENE	ND	7.0	1.4
2,2-DICHLOROPROPANE	ND	7.0	2.8
2-BUTANONE	11J	14	7.0
2-CHLOROTOLUENE	ND	7.0	1.4
2-HEXANONE	ND	14	7.0
4-CHLOROTOLUENE	ND	7.0	1.4
ACETONE	100	14	7.0
BENZENE	3.1J	7.0	1.4
BROMOBENZENE	ND	7.0	1.4
BROMOCHLOROMETHANE	ND	7.0	1.4
BROMODICHLOROMETHANE	ND	7.0	1.4
BROMOFORM	ND	7.0	2.8
BROMOMETHANE	ND	7.0	2.8
CARBON DISULFIDE	5.6J	7.0	1.4
CARBON TETRACHLORIDE	ND	7.0	1.4
CHLOROBENZENE	ND	7.0	1.4
CHLOROETHANE	ND	7.0	2.8
CHLOROFORM	ND	7.0	1.4
CHLOROMETHANE	ND	7.0	2.8
CIS-1,2-DICHLOROETHENE	ND	7.0	1.4
CIS-1,3-DICHLOROPROPENE	ND	7.0	1.4
DIBROMOCHLOROMETHANE	ND	7.0	1.4
DICHLORODIFLUOROMETHANE	ND	7.0	2.8
ETHYLBENZENE	ND	7.0	1.4
ISOPROPYL BENZENE	ND	7.0	1.4
M,P-XYLENES	3.1J	14	2.8
MIBK	ND	14	7.0
METHYLENE CHLORIDE	ND	7.0	2.8
MTBE	ND	7.0	1.4
NAPHTHALENE	ND	7.0	2.8
N-BUTYLBENZENE	ND	7.0	1.4
N-PROPYLBENZENE	ND	7.0	1.4
O-XYLENE	ND	7.0	1.4
P-ISOPROPYLTOLUENE	ND	7.0	1.4
SEC-BUTYLBENZENE	ND	7.0	1.4
STYRENE	ND	7.0	1.4
TERT-BUTYLBENZENE	ND	7.0	1.4
TETRACHLOROETHENE	ND	7.0	1.4
TOLUENE	5.3J	7.0	1.4
TRANS-1,2-DICHLOROETHENE	ND	7.0	1.4
TRANS-1,3-DICHLOROPROPENE	ND	7.0	1.4
TRICHLOROETHENE	ND	7.0	1.4
TRICHLOROFLUOROMETHANE	ND	7.0	2.8
VINYL CHLORIDE	ND	7.0	2.8
VINYL ACETATE	ND	7.0	2.8
FREON113	ND	7.0	2.8
DIBROMOMETHANE	ND	7.0	1.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	63.4	69.53	91.1	60-160
4-BROMOFLUOROBENZENE	82.0	69.53	118	70-150
TOLUENE-D8	70.2	69.53	101	70-140

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 18:14
Sample ID: B11-5	Date Analyzed: 04/27/18 18:14
Lab Samp ID: D145-15	Dilution Factor: 1.1
Lab File ID: RDB225	Matrix : SOIL
Ext Btch ID: VS03D11	% Moisture : 10.8
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.2	1.2
1,1,1-TRICHLOROETHANE	ND	6.2	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.2	2.5
1,1,2-TRICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHANE	ND	6.2	1.2
1,1-DICHLOROETHENE	ND	6.2	1.2
1,1-DICHLOROPROPENE	ND	6.2	2.5
1,2,3-TRICHLOROBENZENE	ND	6.2	2.5
1,2,3-TRICHLOROPROPANE	ND	6.2	2.5
1,2,4-TRICHLOROBENZENE	ND	6.2	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.2	2.5
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.2	2.5
1,2-DIBROMOETHANE	ND	6.2	1.2
1,2-DICHLOROBENZENE	ND	6.2	2.5
1,2-DICHLOROETHANE	ND	6.2	1.2
1,2-DICHLOROPROPANE	ND	6.2	1.2
1,3,5-TRIMETHYLBENZENE	ND	6.2	2.5
1,3-DICHLOROBENZENE	ND	6.2	2.5
1,3-DICHLOROPROPANE	ND	6.2	1.2
1,4-DICHLOROBENZENE	ND	6.2	2.5
2,2-DICHLOROPROPANE	ND	6.2	2.5
2-BUTANONE	16	12	6.2
2-CHLOROTOLUENE	ND	6.2	1.2
2-HEXANONE	ND	12	6.2
4-CHLOROTOLUENE	ND	6.2	1.2
ACETONE	130	12	6.2
BENZENE	2.0J	6.2	1.2
BROMOBENZENE	ND	6.2	2.5
BROMOCHLOROMETHANE	ND	6.2	2.5
BROMODICHLOROMETHANE	ND	6.2	1.2
BROMOFORM	ND	6.2	2.5
BROMOMETHANE	ND	6.2	2.5
CARBON DISULFIDE	12	6.2	2.5
CARBON TETRACHLORIDE	ND	6.2	2.5
CHLOROBENZENE	ND	6.2	1.2
CHLOROETHANE	ND	6.2	2.5
CHLOROFORM	ND	6.2	1.2
CHLOROMETHANE	ND	6.2	2.5
CIS-1,2-DICHLOROETHENE	ND	6.2	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.2	1.2
DIBROMOCHLOROMETHANE	ND	6.2	2.5
DICHLORODIFLUOROMETHANE	ND	6.2	2.5
ETHYLBENZENE	ND	6.2	1.2
ISOPROPYL BENZENE	ND	6.2	2.5
M,P-XYLENES	ND	12	2.5
MIBK	ND	12	6.2
METHYLENE CHLORIDE	ND	6.2	2.5
MTBE	ND	6.2	1.2
NAPHTHALENE	ND	6.2	2.5
N-BUTYLBENZENE	ND	6.2	1.2
N-PROPYLBENZENE	ND	6.2	1.2
O-XYLENE	ND	6.2	1.2
P-ISOPROPYLTOLUENE	ND	6.2	1.2
SEC-BUTYLBENZENE	ND	6.2	1.2
STYRENE	ND	6.2	1.2
TERT-BUTYLBENZENE	ND	6.2	1.2
TETRACHLOROETHENE	ND	6.2	1.2
TOLUENE	1.9J	6.2	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.2	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.2	1.2
TRICHLOROETHENE	ND	6.2	1.2
TRICHLOROFLUOROMETHANE	ND	6.2	2.5
VINYL CHLORIDE	ND	6.2	2.5
VINYL ACETATE	ND	6.2	2.5
FREON113	ND	6.2	2.5
DIBROMOMETHANE	ND	6.2	1.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	57.8	61.66	93.7	60-160
4-BROMOFLUOROBENZENE	89.7	61.66	145	70-150
TOLUENE-D8	66.4	61.66	108	70-140

QC SUMMARIES

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/19/18
Batch No. : 18D145	Date Extracted: 04/19/18 12:37
Sample ID: MBLK1S	Date Analyzed: 04/19/18 12:37
Lab Samp ID: VS03D10B	Dilution Factor: 1
Lab File ID: RDB203	Matrix : SOIL
Ext Btch ID: VS03D10	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	46.4	50.00	92.8	70-140
4-BROMOFLUOROBENZENE	53.5	50.00	107	70-130
TOLUENE-D8	48.8	50.00	97.6	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VS03D10B	VS03D10L	VS03D10C		
LAB FILE ID:	RDB203	RDB200	RDB201		
DATE EXTRACTED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE COLLECTED:	NA
DATE ANALYZED:	04/19/1812:37	04/19/1811:13	04/19/1811:41	DATE RECEIVED:	04/19/18
PREP. BATCH:	VS03D10	VS03D10	VS03D10		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	44.2	88	50.0	42.6	85	4	60-130	30
Benzene	ND	50.0	46.4	93	50.0	48.1	96	4	70-130	30
Chlorobenzene	ND	50.0	46.9	94	50.0	48.0	96	2	70-130	30
Toluene	ND	50.0	47.8	96	50.0	48.4	97	1	70-130	50
Trichloroethene	ND	50.0	47.0	94	50.0	47.7	95	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	43.1	86	50.0	41.7	83	70-140
4-Bromofluorobenzene	50.0	50.1	100	50.0	49.4	99	70-130
Toluene-d8	50.0	48.6	97	50.0	48.2	96	70-130

METHOD 5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/27/18
Batch No. : 18D145	Date Extracted: 04/27/18 16:51
Sample ID: MBLK2S	Date Analyzed: 04/27/18 16:51
Lab Samp ID: VS03D11B	Dilution Factor: 1
Lab File ID: RDB222	Matrix : SOIL
Ext Btch ID: VS03D11	% Moisture : NA
Calib. Ref.: RDB172	Instrument ID : T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DIBROMOETHANE	ND	5.0	1.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-CHLOROTOLUENE	ND	5.0	1.0
2-HEXANONE	ND	10	5.0
4-CHLOROTOLUENE	ND	5.0	1.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENES	ND	10	2.0
MIBK	ND	10	5.0
METHYLENE CHLORIDE	ND	5.0	2.0
MTBE	ND	5.0	1.0
NAPHTHALENE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
VINYL ACETATE	ND	5.0	2.0
FREON113	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	43.5	50.00	87.0	70-140
4-BROMOFLUOROBENZENE	53.2	50.00	106	70-130
TOLUENE-D8	49.1	50.00	98.2	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW 5035A/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VS03D11B	VS03D11L	VS03D11C		
LAB FILE ID:	RDB222	RDB219	RDB220		
DATE EXTRACTED:	04/27/1816:51	04/27/1815:28	04/27/1815:56	DATE COLLECTED:	NA
DATE ANALYZED:	04/27/1816:51	04/27/1815:28	04/27/1815:56	DATE RECEIVED:	04/27/18
PREP. BATCH:	VS03D11	VS03D11	VS03D11		
CALIB. REF:	RDB172	RDB172	RDB172		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50.0	42.6	85	50.0	45.3	91	6	60-130	30
Benzene	ND	50.0	50.1	100	50.0	52.3	105	4	70-130	30
Chlorobenzene	ND	50.0	44.7	89	50.0	47.2	94	5	70-130	30
Toluene	ND	50.0	47.6	95	50.0	49.5	99	4	70-130	50
Trichloroethene	ND	50.0	43.9	88	50.0	46.9	94	7	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	40.6	81	50.0	40.8	82	70-140
4-Bromofluorobenzene	50.0	55.6	111	50.0	53.1	106	70-130
Toluene-d8	50.0	51.0	102	50.0	49.3	99	70-130

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of two (2) water samples were received on 04/18/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3520C/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There was one (1) CCV associated with this SDG. Target analytes in CCV(Datafile ID:RDF017) were within calibration acceptance criteria. All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD034WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. SVD034WL/SVD034WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample D145-11 and -16 were initially extracted at dilution due to limited samples amount received.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : FO

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	SVD034WL	1	NA	04/25/1809:50	04/23/1810:15	RDF018	RCF004	18SVD034W	Lab Control Sample (LCS)
LCD1W	SVD034WC	1	NA	04/25/1810:12	04/23/1810:15	RDF019	RCF004	18SVD034W	LCS Duplicate
MBLK1W	SVD034WB	1	NA	04/25/1811:18	04/23/1810:15	RDF022	RCF004	18SVD034W	Method Blank
B11	18D145-11	1	NA	04/25/1814:00	04/23/1810:15	RDF029	RCF004	18SVD034W	Field Sample
EB	18D145-16	1	NA	04/25/1814:23	04/23/1810:15	RDF030	RCF004	18SVD034W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:48
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 10:15
Sample ID : B11	Date Analyzed: 04/25/18 14:00
Lab Samp ID: 18D145-11	Dilution Factor: 1
Lab File ID: RDF029	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: F0

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	ND	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.851	1.00	85	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:15
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/23/18 10:15
Sample ID : EB	Date Analyzed: 04/25/18 14:23
Lab Samp ID: 18D145-16	Dilution Factor: 1
Lab File ID: RDF030	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: FO

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.040	0.020
Acenaphthylene	ND	0.040	0.020
Anthracene	ND	0.040	0.020
Benzo(a)anthracene	ND	0.040	0.020
Benzo(a)pyrene	ND	0.040	0.020
Benzo(b)fluoranthene	ND	0.040	0.020
Benzo(k)fluoranthene	ND	0.040	0.020
Benzo(g,h,i)perylene	ND	0.040	0.020
Chrysene	ND	0.040	0.020
Dibenzo(a,h)anthracene	ND	0.040	0.020
Fluoranthene	ND	0.040	0.020
Fluorene	ND	0.040	0.020
Indeno(1,2,3-cd)pyrene	ND	0.040	0.020
Naphthalene	ND	0.040	0.020
Phenanthrene	ND	0.040	0.020
Pyrene	ND	0.040	0.020
2-Methylnaphthalene	ND	0.040	0.020
1-Methylnaphthalene	ND	0.040	0.020

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.720	1.00	72	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 500ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

QC SUMMARIES

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/23/18 10:15
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D145	Date Extracted: 04/23/18 10:15
Sample ID : MBLK1W	Date Analyzed: 04/25/18 11:18
Lab Samp ID: SVD034WB	Dilution Factor: 1
Lab File ID: RDF022	Matrix: WATER
Ext Btch ID: 18SVD034W	% Moisture: NA
Calib. Ref.: RCF004	Instrument ID: F0

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Acenaphthene	ND	0.020	0.010
Acenaphthylene	ND	0.020	0.010
Anthracene	ND	0.020	0.010
Benzo(a)anthracene	ND	0.020	0.010
Benzo(a)pyrene	ND	0.020	0.010
Benzo(b)fluoranthene	ND	0.020	0.010
Benzo(k)fluoranthene	ND	0.020	0.010
Benzo(g,h,i)perylene	ND	0.020	0.010
Chrysene	ND	0.020	0.010
Dibenzo(a,h)anthracene	ND	0.020	0.010
Fluoranthene	ND	0.020	0.010
Fluorene	ND	0.020	0.010
Indeno(1,2,3-cd)pyrene	ND	0.020	0.010
Naphthalene	ND	0.020	0.010
Phenanthrene	ND	0.020	0.010
Pyrene	ND	0.020	0.010
2-Methylnaphthalene	ND	0.020	0.010
1-Methylnaphthalene	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	0.466	0.500	93	50-135

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml	Final Volume : 1ml
Prepared by : JMuert	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3520C/8270C SIM

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: SVD034WB	SVD034WL	SVD034WC
LAB FILE ID	: RDF022	RDF018	RDF019
DATE PREPARED	: 04/23/18 10:15	04/23/18 10:15	04/23/18 10:15
DATE ANALYZED	: 04/25/18 11:18	04/25/18 09:50	04/25/18 10:12
PREP BATCH	: 18SVD034W	18SVD034W	18SVD034W
CALIBRATION REF	: RCF004	RCF004	RCF004

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	0.500	0.268	54	0.500	0.262	52	2	45-110	30
Acenaphthylene	ND	0.500	0.283	57	0.500	0.273	55	4	50-105	30
Anthracene	ND	0.500	0.313	63	0.500	0.299	60	5	55-110	30
Benzo(a)anthracene	ND	0.500	0.341	68	0.500	0.349	70	2	55-110	30
Benzo(a)pyrene	ND	0.500	0.399	80	0.500	0.391	78	2	55-110	30
Benzo(b)fluoranthene	ND	0.500	0.394	79	0.500	0.401	80	2	45-120	30
Benzo(k)fluoranthene	ND	0.500	0.431	86	0.500	0.430	86	0	45-125	30
Benzo(g,h,i)perylene	ND	0.500	0.322	64	0.500	0.331	66	3	40-125	30
Chrysene	ND	0.500	0.376	75	0.500	0.380	76	1	55-110	30
Dibenzo(a,h)anthracene	ND	0.500	0.318	64	0.500	0.334	67	5	40-125	30
Fluoranthene	ND	0.500	0.348	70	0.500	0.347	69	0	55-115	30
Fluorene	ND	0.500	0.299	60	0.500	0.290	58	3	50-110	30
Indeno(1,2,3-cd)pyrene	ND	0.500	0.309	62	0.500	0.320	64	3	45-125	30
Naphthalene	ND	0.500	0.265	53	0.500	0.252	50	5	40-100	30
Phenanthrene	ND	0.500	0.296	59	0.500	0.292	58	1	50-115	30
Pyrene	ND	0.500	0.356	71	0.500	0.357	71	0	50-130	30
2-Methylnaphthalene	ND	0.500	0.282	56	0.500	0.267	53	5	45-105	30
1-Methylnaphthalene	ND	0.500	0.281	56	0.500	0.269	54	4	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	0.500	0.346	69	0.500	0.350	70	50-135

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

A total of thirteen (13) soil samples were received on 04/18/18 to be analyzed for Semi Volatile Organics by GC/MS in accordance with Method 3550B/8270C SIM and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. There were three (3) CCVs associated with this SDG: CCV(Datafile ID:REJ159), CCV(Datafile ID:REJ199) and CCV(Datafile ID:REJ239). All calibration requirements were satisfied. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. SVD041SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. SVD041SL/SVD041SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. 18D145-02M/S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for D145-01 surrogate was out of surrogate limits; most likely due to matrix interference (dark colored extract). Sample reanalysis in this case will likely deliver similar result. For this reason, no re-analysis was performed. Refer to sample result summary forms for details. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met. The following analytes were manually integrated.

- Benzo(b)fluoranthene, Benzo(k)fluoranthene and Indeno(1,2,3-cd)pyrene in sample D145-01
- Fluoranthene, Benzo(b)fluoranthene, Benzo(k)fluoranthene and Indeno(1,2,3-cd)pyrene in samples D145-03 and -14
- Fluoranthene, Benzo(b)fluoranthene and Benzo(k)fluoranthene in sample D145-04
- Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene in samples D145-05, -06, -07, -08, -09, -13 and -15

Hence, the original chromatogram was retained and corrected chromatogram was initialed and dated. The secondary reviewer concurred with the manual integrations.
Sample D145-01, -03, -04, -05, -07, -08, -09, -13, -14 and -15 were initially analyzed at dilution due to dark-colored appearance in extracts.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : E4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	SVD041SB	1	NA	05/07/1810:27	04/27/1814:04	REJ162	RBJ167	18SVD041S	Method Blank
LCS1S	SVD041SL	1	NA	05/07/1810:45	04/27/1814:04	REJ163	RBJ167	18SVD041S	Lab Control Sample (LCS)
LCD1S	SVD041SC	1	NA	05/07/1811:04	04/27/1814:04	REJ164	RBJ167	18SVD041S	LCS Duplicate
B11-10	18D145-01	2	22.7	05/07/1818:34	04/27/1814:04	REJ188	RBJ167	18SVD041S	Field Sample
B11-15	18D145-02	1	14.3	05/07/1818:52	04/27/1814:04	REJ189	RBJ167	18SVD041S	Field Sample
B12-0.5	18D145-03	3	5.8	05/07/1819:11	04/27/1814:04	REJ190	RBJ167	18SVD041S	Field Sample
B11-15MS	18D145-02M	1	14.3	05/07/1819:30	04/27/1814:04	REJ191	RBJ167	18SVD041S	Matrix Spike Sample (MS)
B11-15MSD	18D145-02S	1	14.3	05/07/1819:49	04/27/1814:04	REJ192	RBJ167	18SVD041S	MS Duplicate (MSD)
B12-2	18D145-04	3	5.3	05/08/1818:19	04/27/1814:04	REJ228	RBJ167	18SVD041S	Field Sample
B12-5	18D145-05	3	12.5	05/08/1818:38	04/27/1814:04	REJ229	RBJ167	18SVD041S	Field Sample
B12-10	18D145-06	1	25.5	05/08/1818:57	04/27/1814:04	REJ230	RBJ167	18SVD041S	Field Sample
B13-0.5	18D145-07	3	5.0	05/08/1819:16	04/27/1814:04	REJ231	RBJ167	18SVD041S	Field Sample
B13-2	18D145-08	3	8.1	05/08/1819:34	04/27/1814:04	REJ232	RBJ167	18SVD041S	Field Sample
B13-5	18D145-09	2	6.9	05/09/1812:22	04/27/1814:04	REJ249	RBJ167	18SVD041S	Field Sample
B13-10	18D145-12	1	13.7	05/09/1812:40	04/27/1814:04	REJ250	RBJ167	18SVD041S	Field Sample
B11-0.5	18D145-13	3	3.0	05/09/1812:59	04/27/1814:04	REJ251	RBJ167	18SVD041S	Field Sample
B11-2	18D145-14	3	5.8	05/09/1813:18	04/27/1814:04	REJ252	RBJ167	18SVD041S	Field Sample
B11-5	18D145-15	5	10.8	05/09/1813:37	04/27/1814:04	REJ253	RBJ167	18SVD041S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-10	Date Analyzed: 05/07/18 18:34
Lab Samp ID: 18D145-01	Dilution Factor: 2
Lab File ID: REJ188	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 22.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	13	6.5
Acenaphthylene	8.1J	13	6.5
Anthracene	ND	13	6.5
Benzo(a)anthracene	28	13	6.5
Benzo(a)pyrene	33	13	6.5
Benzo(b)fluoranthene	32	13	6.5
Benzo(k)fluoranthene	7.8J	13	6.5
Benzo(g,h,i)perylene	27	13	6.5
Chrysene	25	13	6.5
Dibenzo(a,h)anthracene	ND	13	6.5
Fluoranthene	47	13	6.5
Fluorene	ND	13	6.5
Indeno(1,2,3-cd)pyrene	18	13	6.5
Naphthalene	ND	13	6.5
Phenanthrene	19	13	6.5
Pyrene	63	13	6.5
2-Methylnaphthalene	ND	13	6.5
1-Methylnaphthalene	ND	13	6.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	1340	862	155*	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.03g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:34
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-15	Date Analyzed: 05/07/18 18:52
Lab Samp ID: 18D145-02	Dilution Factor: 1
Lab File ID: REJ189	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 14.3
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	693	778	89	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:20
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-0.5	Date Analyzed: 05/07/18 19:11
Lab Samp ID: 18D145-03	Dilution Factor: 3
Lab File ID: REJ190	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	8.0
Acenaphthylene	ND	16	8.0
Anthracene	ND	16	8.0
Benzo(a)anthracene	31	16	8.0
Benzo(a)pyrene	29	16	8.0
Benzo(b)fluoranthene	32	16	8.0
Benzo(k)fluoranthene	8.6J	16	8.0
Benzo(g,h,i)perylene	36	16	8.0
Chrysene	36	16	8.0
Dibenzo(a,h)anthracene	ND	16	8.0
Fluoranthene	43	16	8.0
Fluorene	ND	16	8.0
Indeno(1,2,3-cd)pyrene	18	16	8.0
Naphthalene	ND	16	8.0
Phenanthrene	21	16	8.0
Pyrene	54	16	8.0
2-Methylnaphthalene	ND	16	8.0
1-Methylnaphthalene	ND	16	8.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	531	708	75	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:25
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-2	Date Analyzed: 05/08/18 18:19
Lab Samp ID: 18D145-04	Dilution Factor: 3
Lab File ID: REJ228	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.3
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	7.9
Acenaphthylene	ND	16	7.9
Anthracene	ND	16	7.9
Benzo(a)anthracene	35	16	7.9
Benzo(a)pyrene	31	16	7.9
Benzo(b)fluoranthene	34	16	7.9
Benzo(k)fluoranthene	9.7J	16	7.9
Benzo(g,h,i)perylene	46	16	7.9
Chrysene	39	16	7.9
Dibenzo(a,h)anthracene	ND	16	7.9
Fluoranthene	37	16	7.9
Fluorene	ND	16	7.9
Indeno(1,2,3-cd)pyrene	21	16	7.9
Naphthalene	ND	16	7.9
Phenanthrene	18	16	7.9
Pyrene	52	16	7.9
2-Methylnaphthalene	ND	16	7.9
1-Methylnaphthalene	ND	16	7.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	654	704	93	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:34
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-5	Date Analyzed: 05/08/18 18:38
Lab Samp ID: 18D145-05	Dilution Factor: 3
Lab File ID: REJ229	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 12.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	17	8.6
Acenaphthylene	45	17	8.6
Anthracene	18	17	8.6
Benzo(a)anthracene	130	17	8.6
Benzo(a)pyrene	160	17	8.6
Benzo(b)fluoranthene	150	17	8.6
Benzo(k)fluoranthene	40	17	8.6
Benzo(g,h,i)perylene	120	17	8.6
Chrysene	150	17	8.6
Dibenzo(a,h)anthracene	19	17	8.6
Fluoranthene	190	17	8.6
Fluorene	ND	17	8.6
Indeno(1,2,3-cd)pyrene	81	17	8.6
Naphthalene	ND	17	8.6
Phenanthrene	44	17	8.6
Pyrene	270	17	8.6
2-Methylnaphthalene	ND	17	8.6
1-Methylnaphthalene	ND	17	8.6

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	717	762	94	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:42
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B12-10	Date Analyzed: 05/08/18 18:57
Lab Samp ID: 18D145-06	Dilution Factor: 1
Lab File ID: REJ230	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 25.5
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	6.7	3.4
Acenaphthylene	5.8J	6.7	3.4
Anthracene	ND	6.7	3.4
Benzo(a)anthracene	25	6.7	3.4
Benzo(a)pyrene	23	6.7	3.4
Benzo(b)fluoranthene	24	6.7	3.4
Benzo(k)fluoranthene	5.8J	6.7	3.4
Benzo(g,h,i)perylene	19	6.7	3.4
Chrysene	20	6.7	3.4
Dibenzo(a,h)anthracene	ND	6.7	3.4
Fluoranthene	31	6.7	3.4
Fluorene	ND	6.7	3.4
Indeno(1,2,3-cd)pyrene	12	6.7	3.4
Naphthalene	ND	6.7	3.4
Phenanthrene	7.9	6.7	3.4
Pyrene	43	6.7	3.4
2-Methylnaphthalene	ND	6.7	3.4
1-Methylnaphthalene	ND	6.7	3.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	834	895	93	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:39
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-0.5	Date Analyzed: 05/08/18 19:16
Lab Samp ID: 18D145-07	Dilution Factor: 3
Lab File ID: REJ231	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.0
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	7.9
Acenaphthylene	9.5J	16	7.9
Anthracene	25	16	7.9
Benzo(a)anthracene	150	16	7.9
Benzo(a)pyrene	110	16	7.9
Benzo(b)fluoranthene	140	16	7.9
Benzo(k)fluoranthene	33	16	7.9
Benzo(g,h,i)perylene	92	16	7.9
Chrysene	240	16	7.9
Dibenzo(a,h)anthracene	26	16	7.9
Fluoranthene	210	16	7.9
Fluorene	ND	16	7.9
Indeno(1,2,3-cd)pyrene	54	16	7.9
Naphthalene	ND	16	7.9
Phenanthrene	120	16	7.9
Pyrene	220	16	7.9
2-Methylnaphthalene	ND	16	7.9
1-Methylnaphthalene	ND	16	7.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	669	702	95	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.03g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:50
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-2	Date Analyzed: 05/08/18 19:34
Lab Samp ID: 18D145-08	Dilution Factor: 3
Lab File ID: REJ232	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 8.1
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	8.2
Acenaphthylene	ND	16	8.2
Anthracene	12J	16	8.2
Benzo(a)anthracene	91	16	8.2
Benzo(a)pyrene	72	16	8.2
Benzo(b)fluoranthene	68	16	8.2
Benzo(k)fluoranthene	17	16	8.2
Benzo(g,h,i)perylene	66	16	8.2
Chrysene	220	16	8.2
Dibenzo(a,h)anthracene	24	16	8.2
Fluoranthene	47	16	8.2
Fluorene	ND	16	8.2
Indeno(1,2,3-cd)pyrene	32	16	8.2
Naphthalene	ND	16	8.2
Phenanthrene	58	16	8.2
Pyrene	83	16	8.2
2-Methylnaphthalene	ND	16	8.2
1-Methylnaphthalene	ND	16	8.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	779	725	107	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:57
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-5	Date Analyzed: 05/09/18 12:22
Lab Samp ID: 18D145-09	Dilution Factor: 2
Lab File ID: REJ249	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 6.9
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	11	5.4
Acenaphthylene	17	11	5.4
Anthracene	7.1J	11	5.4
Benzo(a)anthracene	73	11	5.4
Benzo(a)pyrene	77	11	5.4
Benzo(b)fluoranthene	78	11	5.4
Benzo(k)fluoranthene	16	11	5.4
Benzo(g,h,i)perylene	62	11	5.4
Chrysene	92	11	5.4
Dibenzo(a,h)anthracene	10J	11	5.4
Fluoranthene	110	11	5.4
Fluorene	ND	11	5.4
Indeno(1,2,3-cd)pyrene	40	11	5.4
Naphthalene	ND	11	5.4
Phenanthrene	29	11	5.4
Pyrene	140	11	5.4
2-Methylnaphthalene	ND	11	5.4
1-Methylnaphthalene	ND	11	5.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	684	716	96	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 09:06
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B13-10	Date Analyzed: 05/09/18 12:40
Lab Samp ID: 18D145-12	Dilution Factor: 1
Lab File ID: REJ250	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 13.7
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.8	2.9
Acenaphthylene	ND	5.8	2.9
Anthracene	ND	5.8	2.9
Benzo(a)anthracene	ND	5.8	2.9
Benzo(a)pyrene	ND	5.8	2.9
Benzo(b)fluoranthene	ND	5.8	2.9
Benzo(k)fluoranthene	ND	5.8	2.9
Benzo(g,h,i)perylene	ND	5.8	2.9
Chrysene	ND	5.8	2.9
Dibenzo(a,h)anthracene	ND	5.8	2.9
Fluoranthene	ND	5.8	2.9
Fluorene	ND	5.8	2.9
Indeno(1,2,3-cd)pyrene	ND	5.8	2.9
Naphthalene	ND	5.8	2.9
Phenanthrene	ND	5.8	2.9
Pyrene	ND	5.8	2.9
2-Methylnaphthalene	ND	5.8	2.9
1-Methylnaphthalene	ND	5.8	2.9

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	780	773	101	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.02g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 07:32
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-0.5	Date Analyzed: 05/09/18 12:59
Lab Samp ID: 18D145-13	Dilution Factor: 3
Lab File ID: REJ251	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 3.0
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	15	7.7
Acenaphthylene	8.4J	15	7.7
Anthracene	9.3J	15	7.7
Benzo(a)anthracene	51	15	7.7
Benzo(a)pyrene	50	15	7.7
Benzo(b)fluoranthene	59	15	7.7
Benzo(k)fluoranthene	13J	15	7.7
Benzo(g,h,i)perylene	73	15	7.7
Chrysene	78	15	7.7
Dibenzo(a,h)anthracene	11J	15	7.7
Fluoranthene	62	15	7.7
Fluorene	ND	15	7.7
Indeno(1,2,3-cd)pyrene	30	15	7.7
Naphthalene	9.9J	15	7.7
Phenanthrene	37	15	7.7
Pyrene	79	15	7.7
2-Methylnaphthalene	12J	15	7.7
1-Methylnaphthalene	ND	15	7.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	689	687	100	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 07:36
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-2	Date Analyzed: 05/09/18 13:18
Lab Samp ID: 18D145-14	Dilution Factor: 3
Lab File ID: REJ252	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 5.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	16	8.0
Acenaphthylene	ND	16	8.0
Anthracene	ND	16	8.0
Benzo(a)anthracene	23	16	8.0
Benzo(a)pyrene	19	16	8.0
Benzo(b)fluoranthene	19	16	8.0
Benzo(k)fluoranthene	ND	16	8.0
Benzo(g,h,i)perylene	26	16	8.0
Chrysene	26	16	8.0
Dibenzo(a,h)anthracene	ND	16	8.0
Fluoranthene	25	16	8.0
Fluorene	ND	16	8.0
Indeno(1,2,3-cd)pyrene	11J	16	8.0
Naphthalene	ND	16	8.0
Phenanthrene	18	16	8.0
Pyrene	33	16	8.0
2-Methylnaphthalene	11J	16	8.0
1-Methylnaphthalene	ND	16	8.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	702	708	99	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/18/18 08:05
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : B11-5	Date Analyzed: 05/09/18 13:37
Lab Samp ID: 18D145-15	Dilution Factor: 5
Lab File ID: REJ253	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: 10.8
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	28	14
Acenaphthylene	32	28	14
Anthracene	17J	28	14
Benzo(a)anthracene	130	28	14
Benzo(a)pyrene	140	28	14
Benzo(b)fluoranthene	130	28	14
Benzo(k)fluoranthene	43	28	14
Benzo(g,h,i)perylene	120	28	14
Chrysene	130	28	14
Dibenzo(a,h)anthracene	19J	28	14
Fluoranthene	190	28	14
Fluorene	ND	28	14
Indeno(1,2,3-cd)pyrene	77	28	14
Naphthalene	ND	28	14
Phenanthrene	69	28	14
Pyrene	240	28	14
2-Methylnaphthalene	ND	28	14
1-Methylnaphthalene	ND	28	14

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	774	747	104	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30.01g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

QC SUMMARIES

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 04/27/18 14:04
Project : POLA-1500 I STREET	Date Received: 04/27/18
Batch No. : 18D145	Date Extracted: 04/27/18 14:04
Sample ID : MBLK1S	Date Analyzed: 05/07/18 10:27
Lab Samp ID: SVD041SB	Dilution Factor: 1
Lab File ID: REJ162	Matrix: SOIL
Ext Btch ID: 18SVD041S	% Moisture: NA
Calib. Ref.: RBJ167	Instrument ID: E4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
Acenaphthene	ND	5.0	2.5
Acenaphthylene	ND	5.0	2.5
Anthracene	ND	5.0	2.5
Benzo(a)anthracene	ND	5.0	2.5
Benzo(a)pyrene	ND	5.0	2.5
Benzo(b)fluoranthene	ND	5.0	2.5
Benzo(k)fluoranthene	ND	5.0	2.5
Benzo(g,h,i)perylene	ND	5.0	2.5
Chrysene	ND	5.0	2.5
Dibenzo(a,h)anthracene	ND	5.0	2.5
Fluoranthene	ND	5.0	2.5
Fluorene	ND	5.0	2.5
Indeno(1,2,3-cd)pyrene	ND	5.0	2.5
Naphthalene	ND	5.0	2.5
Phenanthrene	ND	5.0	2.5
Pyrene	ND	5.0	2.5
2-Methylnaphthalene	ND	5.0	2.5
1-Methylnaphthalene	ND	5.0	2.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Terphenyl-d14	656	667	98	30-125

Notes:

Detection limits are reported relative to sample result significant figures.

Sample Amount : 30g	Final Volume : 2ml
Prepared by : JVille/KKv	Analyzed by : KVu

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: SVD041SB	SVD041SL	SVD041SC
LAB FILE ID	: REJ162	REJ163	REJ164
DATE PREPARED	: 04/27/18 14:04	04/27/18 14:04	04/27/18 14:04
DATE ANALYZED	: 05/07/18 10:27	05/07/18 10:45	05/07/18 11:04
PREP BATCH	: 18SVD041S	18SVD041S	18SVD041S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	MBResult (ug/kg)	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1330	1100	83	1330	1030	77	7	45-110	30
Acenaphthylene	ND	1330	1210	91	1330	1140	86	6	45-105	30
Anthracene	ND	1330	1160	87	1330	1130	85	3	55-105	30
Benzo(a)anthracene	ND	1330	1340	101	1330	1310	98	2	50-110	30
Benzo(a)pyrene	ND	1330	1280	96	1330	1240	93	3	50-110	30
Benzo(b)fluoranthene	ND	1330	1260	95	1330	1200	90	5	45-115	30
Benzo(k)fluoranthene	ND	1330	1230	92	1330	1220	92	1	45-125	30
Benzo(g,h,i)perylene	ND	1330	1230	92	1330	1200	90	2	40-125	30
Chrysene	ND	1330	1390	104	1330	1360	102	2	55-110	30
Dibenzo(a,h)anthracene	ND	1330	1320	99	1330	1290	97	2	40-125	30
Fluoranthene	ND	1330	1300	98	1330	1270	95	2	55-115	30
Fluorene	ND	1330	1210	91	1330	1140	86	6	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1330	1300	98	1330	1260	95	3	40-120	30
Naphthalene	ND	1330	1030	77	1330	980	74	5	40-105	30
Phenanthrene	ND	1330	1100	83	1330	1070	80	3	50-110	30
Pyrene	ND	1330	1290	97	1330	1260	95	2	45-125	30
2-Methylnaphthalene	ND	1330	1010	76	1330	954	72	6	45-105	30
1-Methylnaphthalene	ND	1330	1030	77	1330	965	72	7	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	LCSResult (ug/kg)	LCSRec (%)	SpikeAmt (ug/kg)	LCDResult (ug/kg)	LCDRec (%)	QCLimit (%)
Terphenyl-d14	667	656	98	667	621	93	30-125

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8270C SIM

MATRIX	: SOIL		% MOISTURE:14.3
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B11-15	B11-15MS	B11-15MSD
LAB SAMPLE ID	: 18D145-02	18D145-02M	18D145-02S
LAB FILE ID	: REJ189	REJ191	REJ192
DATE PREPARED	: 04/27/18 14:04	04/27/18 14:04	04/27/18 14:04
DATE ANALYZED	: 05/07/18 18:52	05/07/18 19:30	05/07/18 19:49
PREP BATCH	: 18SVD041S	18SVD041S	18SVD041S
CALIBRATION REF	: RBJ167	RBJ167	RBJ167

ACCESSION:

PARAMETERS	PSResult (ug/kg)	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Acenaphthene	ND	1560	1140	73	1560	1200	77	5	45-110	30
Acenaphthylene	ND	1560	1260	81	1560	1320	85	5	45-105	30
Anthracene	ND	1560	1270	82	1560	1310	84	3	55-105	30
Benzo(a)anthracene	ND	1560	1350	87	1560	1420	91	5	50-110	30
Benzo(a)pyrene	ND	1560	1420	91	1560	1460	94	3	50-110	30
Benzo(b)fluoranthene	ND	1560	1330	85	1560	1360	87	2	45-115	30
Benzo(k)fluoranthene	ND	1560	1450	93	1560	1500	96	3	45-125	30
Benzo(g,h,i)perylene	ND	1560	1340	86	1560	1370	88	2	40-125	30
Chrysene	ND	1560	1370	88	1560	1450	93	6	55-110	30
Dibenzo(a,h)anthracene	ND	1560	1450	93	1560	1480	95	2	40-125	30
Fluoranthene	ND	1560	1390	89	1560	1430	92	3	55-115	30
Fluorene	ND	1560	1240	80	1560	1300	84	5	50-110	30
Indeno(1,2,3-cd)pyrene	ND	1560	1420	91	1560	1450	93	2	40-120	30
Naphthalene	ND	1560	1120	72	1560	1190	76	6	40-105	30
Phenanthrene	ND	1560	1220	78	1560	1250	80	2	50-110	30
Pyrene	ND	1560	1360	87	1560	1420	91	4	45-125	30
2-Methylnaphthalene	ND	1560	1090	70	1560	1150	74	5	45-105	30
1-Methylnaphthalene	ND	1560	1100	71	1560	1160	75	5	30-160	30

SURROGATE PARAMETER	SpikeAmt (ug/kg)	MSResult (ug/kg)	MSRec (%)	SpikeAmt (ug/kg)	MSDResult (ug/kg)	MSDRec (%)	QCLimit (%)
Terphenyl-d14	778	674	87	778	657	84	30-125

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two (2) water samples were received on 04/18/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5030B/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. VG39D09B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. VG39D09L/VG39D09C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMD011SB	1	NA	04/23/1823:40	04/23/1823:40	ED23021A	ED23016A	GMD011S	Method Blank
LCS1S	GMD011SL	1	NA	04/23/1822:23	04/23/1822:23	ED23019A	ED23016A	GMD011S	Lab Control Sample (LCS)
LCD1S	GMD011SC	1	NA	04/23/1823:01	04/23/1823:01	ED23020A	ED23016A	GMD011S	LCS Duplicate
B11-10	D145-01I	0.92	22.7	04/24/1800:18	04/24/1800:18	ED23022A	ED23016A	GMD011S	Diluted Sample
B11-15	D145-02I	0.82	14.3	04/24/1800:57	04/24/1800:57	ED23023A	ED23016A	GMD011S	Diluted Sample
B12-0.5	D145-03I	1.04	5.8	04/24/1801:35	04/24/1801:35	ED23024A	ED23016A	GMD011S	Diluted Sample
B12-2	D145-04I	1.09	5.3	04/24/1802:13	04/24/1802:13	ED23025A	ED23016A	GMD011S	Diluted Sample
B12-5	D145-05I	1.08	12.5	04/24/1802:52	04/24/1802:52	ED23026A	ED23016A	GMD011S	Diluted Sample
B12-10	D145-06I	0.91	25.5	04/24/1803:30	04/24/1803:30	ED23027A	ED23016A	GMD011S	Diluted Sample
B13-0.5	D145-07I	1	5.0	04/24/1804:47	04/24/1804:47	ED23029A	ED23028A	GMD011S	Diluted Sample
B13-2	D145-08I	1.14	8.1	04/24/1805:26	04/24/1805:26	ED23030A	ED23028A	GMD011S	Diluted Sample
B13-5	D145-09I	1.33	6.9	04/24/1806:04	04/24/1806:04	ED23031A	ED23028A	GMD011S	Diluted Sample
B11-10D	D145-10I	0.88	21.7	04/24/1806:42	04/24/1806:42	ED23032A	ED23028A	GMD011S	Diluted Sample
B13-10	D145-12I	0.77	13.7	04/24/1807:21	04/24/1807:21	ED23033A	ED23028A	GMD011S	Diluted Sample
B11-0.5	D145-13I	1.19	3.0	04/24/1807:59	04/24/1807:59	ED23034A	ED23028A	GMD011S	Diluted Sample
B11-2	D145-14I	1.21	5.8	04/24/1808:38	04/24/1808:38	ED23035A	ED23028A	GMD011S	Diluted Sample
B11-5	D145-15I	1.22	10.8	04/24/1809:16	04/24/1809:16	ED23036A	ED23028A	GMD011S	Diluted Sample
B11-5MS	D145-15M	1.22	10.8	04/24/1809:55	04/24/1809:55	ED23037A	ED23028A	GMD011S	Matrix Spike Sample (MS)
B11-5MSD	D145-15S	1.22	10.8	04/24/1810:34	04/24/1810:34	ED23038A	ED23028A	GMD011S	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 00:18
Sample ID: B11-10	Date Analyzed: 04/24/18 00:18
Lab Samp ID: D145-01I	Dilution Factor: 0.92
Lab File ID: ED23022A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 22.7
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.60

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.96	2.380	82.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 00:57
Sample ID: B11-15	Date Analyzed: 04/24/18 00:57
Lab Samp ID: D145-02I	Dilution Factor: 0.82
Lab File ID: ED23023A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 14.3
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.96	0.48

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.59	1.914	83.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 01:35
Sample ID: B12-0.5	Date Analyzed: 04/24/18 01:35
Lab Samp ID: D145-03I	Dilution Factor: 1.04
Lab File ID: ED23024A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.8
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.208	79.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 02:13
Sample ID: B12-2	Date Analyzed: 04/24/18 02:13
Lab Samp ID: D145-04I	Dilution Factor: 1.09
Lab File ID: ED23025A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.3
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.58

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.302	76.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 02:52
Sample ID: B12-5	Date Analyzed: 04/24/18 02:52
Lab Samp ID: D145-05I	Dilution Factor: 1.08
Lab File ID: ED23026A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 12.5
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.62

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.05	2.469	83.2	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 03:30
Sample ID: B12-10	Date Analyzed: 04/24/18 03:30
Lab Samp ID: D145-06I	Dilution Factor: 0.91
Lab File ID: ED23027A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 25.5
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.61

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.08	2.443	85.1	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 04:47
Sample ID: B13-0.5	Date Analyzed: 04/24/18 04:47
Lab Samp ID: D145-07I	Dilution Factor: 1
Lab File ID: ED23029A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.0
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.76	2.105	83.4	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 05:26
Sample ID: B13-2	Date Analyzed: 04/24/18 05:26
Lab Samp ID: D145-08I	Dilution Factor: 1.14
Lab File ID: ED23030A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 8.1
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.62

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.01	2.481	81.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 06:04
Sample ID: B13-5	Date Analyzed: 04/24/18 06:04
Lab Samp ID: D145-09I	Dilution Factor: 1.33
Lab File ID: ED23031A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 6.9
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.4	0.71

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.32	2.857	81.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 06:42
Sample ID: B11-10D	Date Analyzed: 04/24/18 06:42
Lab Samp ID: D145-10I	Dilution Factor: 0.88
Lab File ID: ED23032A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 21.7
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.1	0.56

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.82	2.248	80.8	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 07:21
Sample ID: B13-10	Date Analyzed: 04/24/18 07:21
Lab Samp ID: D145-12I	Dilution Factor: 0.77
Lab File ID: ED23033A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 13.7
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	0.89	0.45

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.47	1.784	82.3	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 07:59
Sample ID: B11-0.5	Date Analyzed: 04/24/18 07:59
Lab Samp ID: D145-13I	Dilution Factor: 1.19
Lab File ID: ED23034A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 3.0
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.2	0.61

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.85	2.454	75.6	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 08:38
Sample ID: B11-2	Date Analyzed: 04/24/18 08:38
Lab Samp ID: D145-14I	Dilution Factor: 1.21
Lab File ID: ED23035A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 5.8
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.3	0.64

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.09	2.569	81.5	10-160

Parameter	H-C Range
Gasoline	C5-C12

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 09:16
Sample ID: B11-5	Date Analyzed: 04/24/18 09:16
Lab Samp ID: D145-15I	Dilution Factor: 1.22
Lab File ID: ED23036A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : 10.8
Calib. Ref.: ED23028A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.4	0.68

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.22	2.735	81.0	10-160

Parameter	H-C Range
Gasoline	C5-C12

QC SUMMARIES

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/23/18
Batch No. : 18D145	Date Extracted: 04/23/18 23:40
Sample ID: MBLK1S	Date Analyzed: 04/23/18 23:40
Lab Samp ID: GMD011SB	Dilution Factor: 1
Lab File ID: ED23021A	Matrix : SOIL
Ext Btch ID: GMD011S	% Moisture : NA
Calib. Ref.: ED23016A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.70	2.000	85.1	70-140

Parameter	H-C Range
Gasoline	C5-C12

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: METHOD SW5035A/SW8015B

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: GMD011SB GMD011SL GMD011SC
LAB FILE ID: ED23021A ED23019A ED23020A
DATE EXTRACTED: 04/23/1823:40 04/23/1822:23 04/23/1823:01 DATE COLLECTED: NA
DATE ANALYZED: 04/23/1823:40 04/23/1822:23 04/23/1823:01 DATE RECEIVED: 04/23/18
PREP. BATCH: GMD011S GMD011S GMD011S
CALIB. REF: ED23016A ED23016A ED23016A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	25.0	24.1	96	25.0	24.1	97	0	60-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.22	111	2.00	2.21	110	70-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: METHOD SW5035A/SW8015B

MATRIX:	SOIL			% MOISTURE:	10.8
DILUTION FACTOR:	1.22	1.22	1.22		
SAMPLE ID:	B11-5				
LAB SAMP ID:	D145-15I	D145-15M	D145-15S		
LAB FILE ID:	ED23036A	ED23037A	ED23038A		
DATE EXTRACTED:	04/24/1809:16	04/24/1809:55	04/24/1810:34	DATE COLLECTED:	04/18/18
DATE ANALYZED:	04/24/1809:16	04/24/1809:55	04/24/1810:34	DATE RECEIVED:	04/18/18
PREP. BATCH:	GMD011S	GMD011S	GMD011S		
CALIB. REF:	ED23028A	ED23028A	ED23028A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	34.2	29.3	86	34.2	29.2	85	0	10-160	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.74	2.62	96	2.74	2.70	99	10-160

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW5035A/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of fourteen (14) soil samples were received on 04/18/18 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method SW5035A/SW8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. GMD011SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. GMD011SL/GMD011SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in D145-15M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	VG39D09L	1	NA	04/24/1812:06	04/24/1812:06	ED23040A	ED23039A	VG39D0	Lab Control Sample (LCS)
LCD1W	VG39D09C	1	NA	04/24/1812:45	04/24/1812:45	ED23041A	ED23039A	VG39D0	LCS Duplicate
MBLK1W	VG39D09B	1	NA	04/24/1813:27	04/24/1813:27	ED23042A	ED23039A	VG39D0	Method Blank
B11	18D145-11	1	NA	04/24/1817:58	04/24/1817:58	ED23049A	ED23048A	VG39D0	Field Sample
EB	18D145-16	1	NA	04/24/1818:37	04/24/1818:37	ED23050A	ED23048A	VG39D0	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/18/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 17:58
Sample ID	: B11	Date Analyzed:	04/24/18 17:58
Lab Samp ID:	18D145-11	Dilution Factor:	1
Lab File ID:	ED23049A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED23048A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	0.015J	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0327	0.0400	82	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume :	5.0ML
Prepared by	: SCerva	Analyzed by :	SCerva

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/18/18 08:15
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 18:37
Sample ID	: EB	Date Analyzed:	04/24/18 18:37
Lab Samp ID:	18D145-16	Dilution Factor:	1
Lab File ID:	ED23050A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED23048A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	0.014J	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0325	0.0400	81	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume :	5.0ML
Prepared by	: SCerva	Analyzed by :	SCerva

QC SUMMARIES

METHOD SW5030B/SW8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: PARSONS	Date Collected:	04/24/18 13:27
Project	: POLA-1500 I STREET	Date Received:	04/24/18
Batch No.	: 18D145	Date Extracted:	04/24/18 13:27
Sample ID	: MBLK1W	Date Analyzed:	04/24/18 13:27
Lab Samp ID:	VG39D09B	Dilution Factor:	1
Lab File ID:	ED23042A	Matrix:	WATER
Ext Btch ID:	VG39D0	% Moisture:	NA
Calib. Ref.:	ED23039A	Instrument ID:	39

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.10	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0344	0.0400	86	60-140

Notes:

Parameter	H-C Range
Gasoline	C5-C12

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 5.0ML	Final Volume :	5.0ML
Prepared by	: SCerva	Analyzed by :	SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : SW5030B/SW8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VG39D09B	VG39D09L	VG39D09C
LAB FILE ID	: ED23042A	ED23040A	ED23041A
DATE PREPARED	: 04/24/18 13:27	04/24/18 12:06	04/24/18 12:45
DATE ANALYZED	: 04/24/18 13:27	04/24/18 12:06	04/24/18 12:45
PREP BATCH	: VG39D0	VG39D0	VG39D0
CALIBRATION REF	: ED23039A	ED23039A	ED23039A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.497	99	0.500	0.475	95	5	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0410	103	0.0400	0.0380	95	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two (2) water samples were received on 04/18/18 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method SW3520C/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD021WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD021WL/DSD021WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Sample D145-11 displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSD021WB	1	NA	04/24/1812:48	04/23/1813:15	LD24008A	LD24004A	18DSD021W	Method Blank
LCS1W	DSD021WL	1	NA	04/24/1813:04	04/23/1813:15	LD24009A	LD24004A	18DSD021W	Lab Control Sample (LCS)
LCD1W	DSD021WC	1	NA	04/24/1814:03	04/23/1813:15	LD24010A	LD24004A	18DSD021W	LCS Duplicate
B11	D145-11	1	NA	04/24/1819:21	04/23/1813:15	LD24029A	LD24022A	18DSD021W	Field Sample
EB	D145-16	1	NA	04/24/1819:38	04/23/1813:15	LD24030A	LD24022A	18DSD021W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:48
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/23/18 13:15
Sample ID	: B11	Date Analyzed:	04/24/18 19:21
Lab Samp ID:	18D145-11	Dilution Factor:	1
Lab File ID:	LD24029A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	0.37J	0.50	0.10
Motor Oil	1.4	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.742	1.00	74	50-130
Hexacosane	0.296	0.250	119	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 500ml	Final Volume :	5ml
Prepared by	: KValer	Analyzed by :	SDeeso

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:15
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/23/18 13:15
Sample ID	: EB	Date Analyzed:	04/24/18 19:38
Lab Samp ID:	18D145-16	Dilution Factor:	1
Lab File ID:	LD24030A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24022A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.50	0.10
Motor Oil	ND	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.805	1.00	81	50-130
Hexacosane	0.250	0.250	100	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 500ml	Final Volume :	5ml
Prepared by	: KValer	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/23/18 13:15
Project	: POLA-1500 I STREET	Date Received:	04/23/18
Batch No.	: 18D145	Date Extracted:	04/23/18 13:15
Sample ID	: MBLK1W	Date Analyzed:	04/24/18 12:48
Lab Samp ID:	DSD021WB	Dilution Factor:	1
Lab File ID:	LD24008A	Matrix:	WATER
Ext Btch ID:	18DSD021W	% Moisture:	NA
Calib. Ref.:	LD24004A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.50	0.10
Motor Oil	ND	0.50	0.10

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.957	1.00	96	50-130
Hexacosane	0.259	0.250	104	40-150

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1000ml	Final Volume	: 10ml
Prepared by	: KValer	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: DSD021WB	DSD021WL	DSD021WC
LAB FILE ID	: LD24008A	LD24009A	LD24010A
DATE PREPARED	: 04/23/18 13:15	04/23/18 13:15	04/23/18 13:15
DATE ANALYZED	: 04/24/18 12:48	04/24/18 13:04	04/24/18 14:03
PREP BATCH	: 18DSD021W	18DSD021W	18DSD021W
CALIBRATION REF:	LD24004A	LD24004A	LD24004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	5.00	4.84	97	5.00	4.66	93	4	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	1.00	1.01	101	1.00	0.986	99	50-130
Hexacosane	0.250	0.252	101	0.250	0.243	97	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of fourteen (14) soil samples were received on 04/18/18 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3550B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. DSD024SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. DSD024SL/DSD024SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Diesel was within MS QC limits in D145-09M/S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Samples D145-03, -04, -08 and -13 displayed mixed fuel pattern.
Samples D145-05, -07, -14 and -15 displayed heavier fuel pattern.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : D5

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Prep. Data FN	Batch	Notes
MBLK1S	DSD024SB	1	NA	04/25/1805:07	04/24/1811:45	LD24062A	LD24051A	18DSD024S	Method Blank
LCS1S	DSD024SL	1	NA	04/25/1805:23	04/24/1811:45	LD24063A	LD24051A	18DSD024S	Lab Control Sample (LCS)
LCD1S	DSD024SC	1	NA	04/25/1805:40	04/24/1811:45	LD24064A	LD24051A	18DSD024S	LCS Duplicate
B11-10	D145-01	1	22.7	04/25/1805:56	04/24/1811:45	LD24065A	LD24051A	18DSD024S	Field Sample
B11-15	D145-02	1	14.3	04/25/1806:46	04/24/1811:45	LD24068A	LD24066A	18DSD024S	Field Sample
B12-0.5	D145-03	1	5.8	04/25/1807:03	04/24/1811:45	LD24069A	LD24066A	18DSD024S	Field Sample
B12-2	D145-04	1	5.3	04/25/1807:36	04/24/1811:45	LD24071A	LD24066A	18DSD024S	Field Sample
B12-5	D145-05	1	12.5	04/25/1807:52	04/24/1811:45	LD24072A	LD24066A	18DSD024S	Field Sample
B12-10	D145-06	1	25.5	04/25/1808:09	04/24/1811:45	LD24073A	LD24066A	18DSD024S	Field Sample
B13-0.5	D145-07	1	5.0	04/25/1808:26	04/24/1811:45	LD24074A	LD24066A	18DSD024S	Field Sample
B13-2	D145-08	1	8.1	04/25/1808:42	04/24/1811:45	LD24075A	LD24066A	18DSD024S	Field Sample
B11-10D	D145-10	1	21.7	04/25/1808:59	04/24/1811:45	LD24076A	LD24066A	18DSD024S	Field Sample
B13-5	D145-09	1	6.9	04/25/1817:04	04/24/1811:45	LD24095A	LD24093A	18DSD024S	Field Sample
B13-5MS	D145-09M	1	6.9	04/25/1817:21	04/24/1811:45	LD24096A	LD24093A	18DSD024S	Matrix Spike Sample (MS)
B13-5MSD	D145-09S	1	6.9	04/25/1817:38	04/24/1811:45	LD24097A	LD24093A	18DSD024S	MS Duplicate (MSD)
B13-10	D145-12	1	13.7	04/25/1817:54	04/24/1811:45	LD24098A	LD24093A	18DSD024S	Field Sample
B11-0.5	D145-13	1	3.0	04/25/1818:11	04/24/1811:45	LD24099A	LD24093A	18DSD024S	Field Sample
B11-2	D145-14	1	5.8	04/25/1818:28	04/24/1811:45	LD24100A	LD24093A	18DSD024S	Field Sample
B11-5	D145-15I	5	10.8	04/25/1818:44	04/24/1811:45	LD24101A	LD24093A	18DSD024S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : PARSONS	Date Collected: 04/18/18 08:18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/24/18 11:45
Sample ID : B11-10	Date Analyzed: 04/25/18 05:56
Lab Samp ID: 18D145-01	Dilution Factor: 1
Lab File ID: LD24065A	Matrix: SOIL
Ext Btch ID: 18DSD024S	% Moisture: 22.7
Calib. Ref.: LD24051A	Instrument ID: D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.5
Motor Oil	ND	26	6.5

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	135	129	104	50-130
Hexacosane	35.4	32.3	109	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount : 10.03g	Final Volume : 10ml
Prepared by : JVille/TW	Analyzed by : SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:34
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-15	Date Analyzed:	04/25/18 06:46
Lab Samp ID:	18D145-02	Dilution Factor:	1
Lab File ID:	LD24068A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	14.3
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	110	117	95	50-130
Hexacosane	29.6	29.2	101	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:20
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-0.5	Date Analyzed:	04/25/18 07:03
Lab Samp ID:	18D145-03	Dilution Factor:	1
Lab File ID:	LD24069A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.8
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	27	11	5.3
Motor Oil	280	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	100	106	95	50-130
Hexacosane	25.7	26.5	97	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:25
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-2	Date Analyzed:	04/25/18 07:36
Lab Samp ID:	18D145-04	Dilution Factor:	1
Lab File ID:	LD24071A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.3
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	13	11	5.3
Motor Oil	270	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	99.0	106	94	50-130
Hexacosane	26.3	26.4	100	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:34
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-5	Date Analyzed:	04/25/18 07:52
Lab Samp ID:	18D145-05	Dilution Factor:	1
Lab File ID:	LD24072A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	12.5
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.7
Motor Oil	72	23	5.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	111	114	97	50-130
Hexacosane	29.2	28.6	102	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:42
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B12-10	Date Analyzed:	04/25/18 08:09
Lab Samp ID:	18D145-06	Dilution Factor:	1
Lab File ID:	LD24073A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	25.5
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.7
Motor Oil	ND	27	6.7

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	132	134	98	50-130
Hexacosane	37.0	33.6	110	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.03g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:39
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-0.5	Date Analyzed:	04/25/18 08:26
Lab Samp ID:	18D145-07	Dilution Factor:	1
Lab File ID:	LD24074A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.0
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.3
Motor Oil	130	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	96.5	105	92	50-130
Hexacosane	25.0	26.3	95	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:50
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-2	Date Analyzed:	04/25/18 08:42
Lab Samp ID:	18D145-08	Dilution Factor:	1
Lab File ID:	LD24075A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	8.1
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	12	11	5.4
Motor Oil	160	22	5.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	109	96	50-130
Hexacosane	28.3	27.2	104	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:57
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-5	Date Analyzed:	04/25/18 17:04
Lab Samp ID:	18D145-09	Dilution Factor:	1
Lab File ID:	LD24095A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	6.9
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	11	5.4
Motor Oil	ND	21	5.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	107	98	50-130
Hexacosane	29.8	26.9	111	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:20
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-10D	Date Analyzed:	04/25/18 08:59
Lab Samp ID:	18D145-10	Dilution Factor:	1
Lab File ID:	LD24076A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	21.7
Calib. Ref.:	LD24066A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	13	6.4
Motor Oil	ND	26	6.4

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	118	128	92	50-130
Hexacosane	31.2	31.9	98	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 09:06
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B13-10	Date Analyzed:	04/25/18 17:54
Lab Samp ID:	18D145-12	Dilution Factor:	1
Lab File ID:	LD24098A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	13.7
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	12	5.8
Motor Oil	ND	23	5.8

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	117	116	101	50-130
Hexacosane	31.6	29.0	109	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 07:32
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-0.5	Date Analyzed:	04/25/18 18:11
Lab Samp ID:	18D145-13	Dilution Factor:	1
Lab File ID:	LD24099A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	3.0
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	19	10	5.2
Motor Oil	340	21	5.2

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	105	103	101	50-130
Hexacosane	29.0	25.8	113	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.01g	Final Volume	: 10ml
Prepared by	: JVille/TW	Analyzed by	: SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 07:36
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-2	Date Analyzed:	04/25/18 18:28
Lab Samp ID:	18D145-14	Dilution Factor:	1
Lab File ID:	LD24100A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	5.8
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	6.9J	11	5.3
Motor Oil	150	21	5.3

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	112	106	106	50-130
Hexacosane	31.1	26.5	117	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.04g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/18/18 08:05
Project	: POLA-1500 I STREET	Date Received:	04/18/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: B11-5	Date Analyzed:	04/25/18 18:44
Lab Samp ID:	18D145-15I	Dilution Factor:	5
Lab File ID:	LD24101A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	10.8
Calib. Ref.:	LD24093A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	56	28
Motor Oil	690	112	28

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	103	112	92	50-130
Hexacosane	27.6	28.0	98	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10.02g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

QC SUMMARIES

METHOD 3550B/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: PARSONS	Date Collected:	04/24/18 11:45
Project	: POLA-1500 I STREET	Date Received:	04/24/18
Batch No.	: 18D145	Date Extracted:	04/24/18 11:45
Sample ID	: MBLK1S	Date Analyzed:	04/25/18 05:07
Lab Samp ID:	DSD024SB	Dilution Factor:	1
Lab File ID:	LD24062A	Matrix:	SOIL
Ext Btch ID:	18DSD024S	% Moisture:	NA
Calib. Ref.:	LD24051A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Diesel	ND	10	5.0
Motor Oil	ND	20	5.0

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	101	100	101	50-130
Hexacosane	26.8	25.0	107	40-160

Notes:

Parameter	H-C Range
Diesel	C13-C22
Motor Oil	C23-C40

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10g	Final Volume :	10ml
Prepared by	: JVille/TW	Analyzed by :	SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8015B

MATRIX : SOIL			% MOISTURE:NA
DILUTION FACTOR: 1		1	1
SAMPLE ID : MBLK1S		LCS1S	LCD1S
LAB SAMPLE ID : DSD024SB		DSD024SL	DSD024SC
LAB FILE ID : LD24062A		LD24063A	LD24064A
DATE PREPARED : 04/24/18 11:45		04/24/18 11:45	04/24/18 11:45
DATE ANALYZED : 04/25/18 05:07		04/25/18 05:23	04/25/18 05:40
PREP BATCH : 18DSD024S		18DSD024S	18DSD024S
CALIBRATION REF: LD24051A		LD24051A	LD24051A

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	500	518	104	500	529	106	2	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	QCLimit (%)
Bromobenzene	100	104	104	100	102	102	50-130
Hexacosane	25.0	27.5	110	25.0	26.7	107	60-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3550B/8015B

MATRIX	: SOIL		% MOISTURE:6.9
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B13-5	B13-5MS	B13-5MSD
LAB SAMPLE ID	: 18D145-09	18D145-09M	18D145-09S
LAB FILE ID	: LD24095A	LD24096A	LD24097A
DATE PREPARED	: 04/24/18 11:45	04/24/18 11:45	04/24/18 11:45
DATE ANALYZED	: 04/25/18 17:04	04/25/18 17:21	04/25/18 17:38
PREP BATCH	: 18DSD024S	18DSD024S	18DSD024S
CALIBRATION REF	: LD24093A	LD24093A	LD24093A

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	537	588	109	537	608	113	3	60-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	QCLimit (%)
Bromobenzene	107	112	104	107	113	105	50-130
Hexacosane	26.9	28.2	105	26.9	30.4	113	40-160

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METHOD SW3550B/SW8082
PCBs

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD SW3550B/SW8082
PCBS

A total of three (3) soil samples were received on 04/18/18 to be analyzed for PCBs in accordance with Method SW3550B/SW8082 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. 60D016SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. 60D016SL/60D016SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Relative percentage difference (RPD) between the two results was evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram was checked for anomalies and results were selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.
Sample extracts subjected to appropriate cleanup technique to reduce matrix interference are recorded in extraction log. Refer to extraction log for details.

LAB CHRONICLE
PCBs

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 71

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D016SB	1	NA	04/24/1803:36	04/20/1815:05	KD23032A	KD23021A	CPD016S	Method Blank
LCS1S	60D016SL	1	NA	04/23/1819:32	04/20/1815:05	KD23008A	KD23005A	CPD016S	Lab Control Sample (LCS)
LCD1S	60D016SC	1	NA	04/23/1819:52	04/20/1815:05	KD23009A	KD23005A	CPD016S	LCS Duplicate
B12-0.5	D145-03	1	5.8	04/24/1802:35	04/20/1815:05	KD23029A	KD23021A	CPD016S	Field Sample
B13-0.5	D145-07	1	5.0	04/24/1802:55	04/20/1815:05	KD23030A	KD23021A	CPD016S	Field Sample
B11-0.5	D145-13	1	3.0	04/24/1803:15	04/20/1815:05	KD23031A	KD23021A	CPD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: B12-0.5	Date Analyzed: 04/24/18 02:35
Lab Samp ID: D145-03	Dilution Factor: 1
Lab File ID: KD23029A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 5.8
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(35J) | 33J	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(14.07) | 14.03	14.15	(99.4) | 99.1	50-130
DECACHLOROBIPHENYL	(15.48) | 14.47	14.15	(109) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: B13-0.5	Date Analyzed: 04/24/18 02:55
Lab Samp ID: D145-07	Dilution Factor: 1
Lab File ID: KD23030A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 5.0
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	53	18 | 18
PCB-1221	(ND) | ND	53	18 | 18
PCB-1232	(ND) | ND	53	18 | 18
PCB-1242	(ND) | ND	53	18 | 18
PCB-1248	(ND) | ND	53	18 | 18
PCB-1254	(ND) | ND	53	18 | 18
PCB-1260	(45J) | 43J	53	18 | 18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.17 | (14.35)	14.03	101 | (102)	50-130
DECACHLOROBIPHENYL	(16.39) | 13.98	14.03	(117) | 99.6	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: 04/18/18
Project : POLA-1500 I STREET	Date Received: 04/18/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: B11-0.5	Date Analyzed: 04/24/18 03:15
Lab Samp ID: D145-13	Dilution Factor: 1
Lab File ID: KD23031A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : 3.0
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	52	17 | 17
PCB-1221	(ND) | ND	52	17 | 17
PCB-1232	(ND) | ND	52	17 | 17
PCB-1242	(ND) | ND	52	17 | 17
PCB-1248	(ND) | ND	52	17 | 17
PCB-1254	(ND) | ND	52	17 | 17
PCB-1260	58 | (61)	52	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(13.84) | 13.61	13.74	(101) | 99.0	50-130
DECACHLOROBIPHENYL	(16.10) | 14.08	13.74	(117) | 102	50-150

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

QC SUMMARIES

METHOD SW3550B/SW8082
PCBs

Client : PARSONS	Date Collected: NA
Project : POLA-1500 I STREET	Date Received: 04/20/18
Batch No. : 18D145	Date Extracted: 04/20/18 15:05
Sample ID: MBLK1S	Date Analyzed: 04/24/18 03:36
Lab Samp ID: 60D016SB	Dilution Factor: 1
Lab File ID: KD23032A	Matrix : SOIL
Ext Btch ID: CPD016S	% Moisture : NA
Calib. Ref.: KD23021A	Instrument ID : GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND) | ND	50	17 | 17
PCB-1221	(ND) | ND	50	17 | 17
PCB-1232	(ND) | ND	50	17 | 17
PCB-1242	(ND) | ND	50	17 | 17
PCB-1248	(ND) | ND	50	17 | 17
PCB-1254	(ND) | ND	50	17 | 17
PCB-1260	(ND) | ND	50	17 | 17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.79 | (14.15)	13.33	103 | (106)	60-130
DECACHLOROBIPHENYL	(17.67) | 14.59	13.33	(133) | 109	70-140

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: PARSONS
PROJECT: POLA-1500 I STREET
BATCH NO.: 18D145
METHOD: SW3550B/SW8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 I I
SAMPLE ID: MBLK1S
LAB SAMP ID: 60D016SB 60D016SL 60D016SC
LAB FILE ID: KD23032A KD23008A KD23009A
DATE EXTRACTED: 04/20/1815:05 04/20/1815:05 04/20/1815:05 DATE COLLECTED: NA
DATE ANALYZED: 04/24/1803:36 04/23/1819:32 04/23/1819:52 DATE RECEIVED: 04/20/18
PREP. BATCH: CPD016S CPD016S CPD016S
CALIB. REF: KD23021A KD23005A KD23005A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND) | ND	167	(154) | 148	(92) | 89	167	(171) | 166	(103) | 100	(10) | 11	70-140	50
PCB-1260	(ND) | ND	167	(180) | 150	(108) | 90	167	(185) | 166	(111) | 100	(3) | 10	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	(11.91) | 10.98	(89.4) | 82.4	13.33	(13.48) | 12.98	(101) | 97.4	60-130
Decachlorobiphenyl	13.33	(15.50) | 13.26	(116) | 99.5	13.33	(15.74) | 14.20	(118) | 107	70-140

LABORATORY REPORT FOR

PARSONS

POLA-1500 I STREET

METALS / MERCURY

SDG#: 18D145

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3010A/6010B
METALS BY TRACE ICP

One (1) water sample was received on 04/18/18 to be analyzed for Metals by Trace ICP in accordance with Method 3010A/6010B and project specific requirements.

Holding Time
The sample was digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD030WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD030WL/IPD030WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPD030WB	1.000	NA	04/23/1822:20	04/23/1810:17	ID8D018124	ID8D018122	IPD030W	Method Blank
LCS1W	IPD030WL	1.000	NA	04/23/1822:24	04/23/1810:17	ID8D018125	ID8D018122	IPD030W	Lab Control Sample (LCS)
LCD1W	IPD030WC	1.000	NA	04/23/1822:28	04/23/1810:17	ID8D018126	ID8D018122	IPD030W	LCS Duplicate
EB	D145-16	1.000	NA	04/23/1823:28	04/23/1810:17	ID8D018142	ID8D018132	IPD030W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: EB
Lab Samp ID: D145-16
Lab File ID: ID8D018142
Ext Btch ID: IPD030W
Calib. Ref.: ID8D018132

Date Collected: 04/18/18 08:15
Date Received: 04/18/18
Date Extracted: 04/23/18 10:17
Date Analyzed: 04/23/18 23:28
Dilution Factor: 1
Matrix: WATER
% Moisture: NA
Instrument ID: D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0300
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00300
Cobalt	ND	0.0100	0.00200
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0100	0.00300
Nickel	ND	0.0100	0.00300
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00300
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00200
Zinc	ND	0.0200	0.0100

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 50ml
Prepared by : MCande

Final Volume:50ml
Analyzed by:MRomer

METHOD 3010A/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: MBLK1W
Lab Samp ID: IPD030WB
Lab File ID: ID8D018124
Ext Btch ID: IPD030W
Calib. Ref.: ID8D018122

Date Collected: NA
Date Received: NA
Date Extracted: 04/23/18 10:17
Date Analyzed: 04/23/18 22:20
Dilution Factor: 1
Matrix: WATER
% Moisture: NA
Instrument ID: D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0300
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00300
Cobalt	ND	0.0100	0.00200
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0100	0.00300
Nickel	ND	0.0100	0.00300
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00300
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00200
Zinc	ND	0.0200	0.0100

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 50ml
Prepared by : MCande

Final Volume:50ml
Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPD030WB	IPD030WL	IPD030WC
LAB FILE ID	: ID8D018124	ID8D018125	ID8D018126
DATE PREPARED	: 04/23/18 10:17	04/23/18 10:17	04/23/18 10:17
DATE ANALYZED	: 04/23/18 22:20	04/23/18 22:24	04/23/18 22:28
PREP BATCH	: IPD030W	IPD030W	IPD030W
CALIBRATION REF	: ID8D018122	ID8D018122	ID8D018122

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	2.5	2.50	100	2.5	2.50	100	0	80-120	20
Arsenic	ND	0.5	0.509	102	0.5	0.510	102	0	80-120	20
Barium	ND	0.5	0.491	98	0.5	0.490	98	0	80-120	20
Beryllium	ND	0.5	0.462	92	0.5	0.466	93	1	80-120	20
Cadmium	ND	0.5	0.478	96	0.5	0.480	96	0	80-120	20
Chromium	ND	0.5	0.508	102	0.5	0.509	102	0	80-120	20
Cobalt	ND	0.5	0.479	96	0.5	0.482	96	1	80-120	20
Copper	ND	0.5	0.461	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.483	97	0.5	0.486	97	1	80-120	20
Molybdenum	ND	0.5	0.520	104	0.5	0.523	105	1	80-120	20
Nickel	ND	0.5	0.472	94	0.5	0.475	95	1	80-120	20
Selenium	ND	0.5	0.486	97	0.5	0.487	97	0	80-120	20
Silver	ND	0.5	0.443	89	0.5	0.446	89	1	80-120	20
Thallium	ND	0.5	0.523	105	0.5	0.521	104	0	80-120	20
Vanadium	ND	0.5	0.509	102	0.5	0.512	102	1	80-120	20
Zinc	ND	0.5	0.510	102	0.5	0.512	102	0	80-120	20

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of thirteen (13) soil samples were received on 04/18/18 to be analyzed for Metals by Trace ICP in accordance with Method 3050B/6010B and project specific requirements.

Holding Time
Samples were digested and analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source(ICV). Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were satisfied.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. IPD032SB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. IPD032SL/IPD032SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed and the following was noted: D145-01M/S - Percent recovery for Barium was not within MS QC limits. Presence of matrix interference was suspected. The rest of the analytes were in control. Analytical spike and serial dilution were analyzed and evaluated as appropriate. Results were within expected values. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD032SB	1.000	NA	04/25/1812:22	04/24/1810:21	ID8D020023	ID8D020018	IPD032S	Method Blank
LCS1S	IPD032SL	1.000	NA	04/25/1812:26	04/24/1810:21	ID8D020024	ID8D020018	IPD032S	Lab Control Sample (LCS)
LCD1S	IPD032SC	1.000	NA	04/25/1812:30	04/24/1810:21	ID8D020025	ID8D020018	IPD032S	LCS Duplicate
B11-10MS	D145-01M	1.000	22.7	04/25/1812:51	04/24/1810:21	ID8D020031	ID8D020029	IPD032S	Matrix Spike Sample (MS)
B11-10MSD	D145-01S	1.000	22.7	04/25/1812:55	04/24/1810:21	ID8D020032	ID8D020029	IPD032S	MS Duplicate (MSD)
B11-10	D145-01A	1.000	22.7	04/25/1812:59	04/24/1810:21	ID8D020033	ID8D020029	IPD032S	Analytical Spike Sample
B11-10	D145-01	1.000	22.7	04/25/1813:02	04/24/1810:21	ID8D020034	ID8D020029	IPD032S	Field Sample
B11-10	D145-01J	5.000	22.7	04/25/1813:06	04/24/1810:21	ID8D020035	ID8D020029	IPD032S	Diluted Sample
B11-15	D145-02	1.000	14.3	04/25/1813:10	04/24/1810:21	ID8D020036	ID8D020029	IPD032S	Field Sample
B12-0.5	D145-03	1.000	5.8	04/25/1813:14	04/24/1810:21	ID8D020037	ID8D020029	IPD032S	Field Sample
B12-2	D145-04	1.000	5.3	04/25/1813:17	04/24/1810:21	ID8D020038	ID8D020029	IPD032S	Field Sample
B12-5	D145-05	1.000	12.5	04/25/1813:21	04/24/1810:21	ID8D020039	ID8D020029	IPD032S	Field Sample
B12-10	D145-06	1.000	25.5	04/25/1813:25	04/24/1810:21	ID8D020040	ID8D020029	IPD032S	Field Sample
B13-0.5	D145-07	1.000	5.0	04/25/1813:36	04/24/1810:21	ID8D020043	ID8D020041	IPD032S	Field Sample
B13-2	D145-08	1.000	8.1	04/25/1813:39	04/24/1810:21	ID8D020044	ID8D020041	IPD032S	Field Sample
B13-5	D145-09	1.000	6.9	04/25/1813:43	04/24/1810:21	ID8D020045	ID8D020041	IPD032S	Field Sample
B13-10	D145-12	1.000	13.7	04/25/1813:47	04/24/1810:21	ID8D020046	ID8D020041	IPD032S	Field Sample
B11-0.5	D145-13	1.000	3.0	04/25/1813:51	04/24/1810:21	ID8D020047	ID8D020041	IPD032S	Field Sample
B11-2	D145-14	1.000	5.8	04/25/1813:54	04/24/1810:21	ID8D020048	ID8D020041	IPD032S	Field Sample
B11-5	D145-15	1.000	10.8	04/25/1813:58	04/24/1810:21	ID8D020049	ID8D020041	IPD032S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-10
Lab Samp ID: D145-01
Lab File ID: ID8D020034
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 08:18
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:02
Dilution Factor: 1
Matrix: SOIL
% Moisture: 22.7
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.2	1.22
Arsenic	5.01	1.22	0.488
Barium	182	1.22	0.244
Beryllium	0.437J	1.22	0.244
Cadmium	0.519J	1.22	0.122
Chromium	25.4	1.22	0.244
Cobalt	16.8	1.22	0.244
Copper	21.7	1.22	0.244
Lead	4.79	1.22	0.244
Molybdenum	ND	6.10	0.610
Nickel	21.9	1.22	0.244
Selenium	ND	1.22	0.610
Silver	ND	1.22	0.305
Thallium	ND	1.22	0.610
Vanadium	50.9	1.22	0.610
Zinc	83.3	2.44	1.22

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.06g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-15
Lab Samp ID: D145-02
Lab File ID: ID8D020036
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 08:34
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:10
Dilution Factor: 1
Matrix: SOIL
% Moisture: 14.3
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.7	1.07
Arsenic	2.82	1.07	0.428
Barium	86.7	1.07	0.214
Beryllium	0.452J	1.07	0.214
Cadmium	0.255J	1.07	0.107
Chromium	19.2	1.07	0.214
Cobalt	7.67	1.07	0.214
Copper	13.1	1.07	0.214
Lead	4.68	1.07	0.214
Molybdenum	ND	5.35	0.535
Nickel	14.1	1.07	0.214
Selenium	ND	1.07	0.535
Silver	ND	1.07	0.268
Thallium	ND	1.07	0.535
Vanadium	28.3	1.07	0.535
Zinc	39.4	2.14	1.07

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.09g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B12-0.5
Lab Samp ID: D145-03
Lab File ID: ID8D020037
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 09:20
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:14
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.8
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.4	1.04
Arsenic	15.0	1.04	0.416
Barium	171	1.04	0.208
Beryllium	0.518J	1.04	0.208
Cadmium	1.42	1.04	0.104
Chromium	36.0	1.04	0.208
Cobalt	14.2	1.04	0.208
Copper	74.8	1.04	0.208
Lead	167	1.04	0.208
Molybdenum	2.12J	5.20	0.520
Nickel	31.2	1.04	0.208
Selenium	ND	1.04	0.520
Silver	ND	1.04	0.260
Thallium	ND	1.04	0.520
Vanadium	50.7	1.04	0.520
Zinc	157	2.08	1.04

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.02g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B12-2
Lab Samp ID: D145-04
Lab File ID: ID8D020038
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 09:25
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:17
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.3
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.3	1.03
Arsenic	11.8	1.03	0.414
Barium	148	1.03	0.207
Beryllium	0.461J	1.03	0.207
Cadmium	1.30	1.03	0.103
Chromium	28.7	1.03	0.207
Cobalt	12.2	1.03	0.207
Copper	59.8	1.03	0.207
Lead	140	1.03	0.207
Molybdenum	1.44J	5.17	0.517
Nickel	24.2	1.03	0.207
Selenium	ND	1.03	0.517
Silver	ND	1.03	0.259
Thallium	ND	1.03	0.517
Vanadium	44.7	1.03	0.517
Zinc	148	2.07	1.03

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.02g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS	Date Collected: 04/18/18 09:34
Project : POLA-1500 I STREET	Date Received: 04/18/18
SDG NO. : 18D145	Date Extracted: 04/24/18 10:21
Sample ID: B12-5	Date Analyzed: 04/25/18 13:21
Lab Samp ID: D145-05	Dilution Factor: 1
Lab File ID: ID8D020039	Matrix: SOIL
Ext Btch ID: IPD032S	% Moisture: 12.5
Calib. Ref.: ID8D020029	Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	1.09
Arsenic	7.12	1.09	0.435
Barium	182	1.09	0.218
Beryllium	0.505J	1.09	0.218
Cadmium	0.466J	1.09	0.109
Chromium	27.9	1.09	0.218
Cobalt	17.6	1.09	0.218
Copper	27.0	1.09	0.218
Lead	6.61	1.09	0.218
Molybdenum	ND	5.44	0.544
Nickel	24.0	1.09	0.218
Selenium	ND	1.09	0.544
Silver	ND	1.09	0.272
Thallium	ND	1.09	0.544
Vanadium	55.9	1.09	0.544
Zinc	92.7	2.18	1.09

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount : 1.05g	Final Volume:100ml
Prepared by : MCande	Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B12-10
Lab Samp ID: D145-06
Lab File ID: ID8D020040
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020029

Date Collected: 04/18/18 09:42
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:25
Dilution Factor: 1
Matrix: SOIL
% Moisture: 25.5
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	12.9	1.29
Arsenic	3.48	1.29	0.517
Barium	108	1.29	0.258
Beryllium	0.281J	1.29	0.258
Cadmium	0.208J	1.29	0.129
Chromium	17.2	1.29	0.258
Cobalt	10.7	1.29	0.258
Copper	12.7	1.29	0.258
Lead	3.25	1.29	0.258
Molybdenum	ND	6.46	0.646
Nickel	14.3	1.29	0.258
Selenium	ND	1.29	0.646
Silver	ND	1.29	0.323
Thallium	ND	1.29	0.646
Vanadium	34.9	1.29	0.646
Zinc	56.8	2.58	1.29

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.04g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B13-0.5
Lab Samp ID: D145-07
Lab File ID: ID8D020043
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 08:39
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:36
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.0
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.83J	10.3	1.03
Arsenic	22.5	1.03	0.413
Barium	153	1.03	0.206
Beryllium	0.444J	1.03	0.206
Cadmium	0.774J	1.03	0.103
Chromium	27.1	1.03	0.206
Cobalt	12.2	1.03	0.206
Copper	35.8	1.03	0.206
Lead	50.0	1.03	0.206
Molybdenum	1.81J	5.16	0.516
Nickel	23.3	1.03	0.206
Selenium	ND	1.03	0.516
Silver	ND	1.03	0.258
Thallium	ND	1.03	0.516
Vanadium	40.7	1.03	0.516
Zinc	182	2.06	1.03

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.02g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B13-2
Lab Samp ID: D145-08
Lab File ID: ID8D020044
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 08:50
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:39
Dilution Factor: 1
Matrix: SOIL
% Moisture: 8.1
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	3.01J	10.6	1.06
Arsenic	31.7	1.06	0.423
Barium	153	1.06	0.211
Beryllium	0.386J	1.06	0.211
Cadmium	0.614J	1.06	0.106
Chromium	28.0	1.06	0.211
Cobalt	11.2	1.06	0.211
Copper	32.2	1.06	0.211
Lead	53.9	1.06	0.211
Molybdenum	1.63J	5.28	0.528
Nickel	21.9	1.06	0.211
Selenium	ND	1.06	0.528
Silver	ND	1.06	0.264
Thallium	ND	1.06	0.528
Vanadium	38.8	1.06	0.528
Zinc	102	2.11	1.06

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.03g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 08:57
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145	Date Extracted:	04/24/18 10:21
Sample ID:	B13-5	Date Analyzed:	04/25/18 13:43
Lab Samp ID:	D145-09	Dilution Factor:	1
Lab File ID:	ID8D020045	Matrix:	SOIL
Ext Btch ID:	IPD032S	% Moisture:	6.9
Calib. Ref.:	ID8D020041	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	5.18	1.01	0.405
Barium	152	1.01	0.203
Beryllium	0.364J	1.01	0.203
Cadmium	0.477J	1.01	0.101
Chromium	22.9	1.01	0.203
Cobalt	14.6	1.01	0.203
Copper	19.4	1.01	0.203
Lead	7.32	1.01	0.203
Molybdenum	ND	5.06	0.506
Nickel	19.7	1.01	0.203
Selenium	ND	1.01	0.506
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.506
Vanadium	44.1	1.01	0.506
Zinc	78.2	2.03	1.01

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.06g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B13-10
Lab Samp ID: D145-12
Lab File ID: ID8D020046
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 09:06
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:47
Dilution Factor: 1
Matrix: SOIL
% Moisture: 13.7
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.3	1.13
Arsenic	86.5	1.13	0.450
Barium	70.1	1.13	0.225
Beryllium	0.316J	1.13	0.225
Cadmium	0.281J	1.13	0.113
Chromium	15.8	1.13	0.225
Cobalt	8.89	1.13	0.225
Copper	10.6	1.13	0.225
Lead	3.46	1.13	0.225
Molybdenum	0.762J	5.63	0.563
Nickel	12.0	1.13	0.225
Selenium	ND	1.13	0.563
Silver	ND	1.13	0.281
Thallium	ND	1.13	0.563
Vanadium	26.5	1.13	0.563
Zinc	30.2	2.25	1.13

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.03g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-0.5
Lab Samp ID: D145-13
Lab File ID: ID8D020047
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 07:32
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:51
Dilution Factor: 1
Matrix: SOIL
% Moisture: 3.0
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	1.34J	9.92	0.992
Arsenic	12.5	0.992	0.397
Barium	190	0.992	0.198
Beryllium	0.530J	0.992	0.198
Cadmium	2.60	0.992	0.0992
Chromium	62.1	0.992	0.198
Cobalt	14.5	0.992	0.198
Copper	74.6	0.992	0.198
Lead	124	0.992	0.198
Molybdenum	8.08	4.96	0.496
Nickel	40.0	0.992	0.198
Selenium	ND	0.992	0.496
Silver	ND	0.992	0.248
Thallium	ND	0.992	0.496
Vanadium	50.8	0.992	0.496
Zinc	476	1.98	0.992

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.04g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: B11-2
Lab Samp ID: D145-14
Lab File ID: ID8D020048
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020041

Date Collected: 04/18/18 07:36
Date Received: 04/18/18
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 13:54
Dilution Factor: 1
Matrix: SOIL
% Moisture: 5.8
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.1	1.01
Arsenic	14.7	1.01	0.404
Barium	142	1.01	0.202
Beryllium	0.429J	1.01	0.202
Cadmium	1.01J	1.01	0.101
Chromium	32.5	1.01	0.202
Cobalt	11.3	1.01	0.202
Copper	35.5	1.01	0.202
Lead	47.1	1.01	0.202
Molybdenum	1.55J	5.05	0.505
Nickel	23.5	1.01	0.202
Selenium	ND	1.01	0.505
Silver	ND	1.01	0.253
Thallium	ND	1.01	0.505
Vanadium	39.1	1.01	0.505
Zinc	154	2.02	1.01

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1.05g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 08:05
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145	Date Extracted:	04/24/18 10:21
Sample ID:	B11-5	Date Analyzed:	04/25/18 13:58
Lab Samp ID:	D145-15	Dilution Factor:	1
Lab File ID:	ID8D020049	Matrix:	SOIL
Ext Btch ID:	IPD032S	% Moisture:	10.8
Calib. Ref.:	ID8D020041	Instrument ID:	D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	1.06
Arsenic	7.70	1.06	0.423
Barium	173	1.06	0.211
Beryllium	0.451J	1.06	0.211
Cadmium	0.562J	1.06	0.106
Chromium	25.7	1.06	0.211
Cobalt	16.7	1.06	0.211
Copper	24.2	1.06	0.211
Lead	8.54	1.06	0.211
Molybdenum	0.722J	5.29	0.529
Nickel	23.2	1.06	0.211
Selenium	ND	1.06	0.529
Silver	ND	1.06	0.264
Thallium	ND	1.06	0.529
Vanadium	51.5	1.06	0.529
Zinc	94.1	2.11	1.06

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1.06g	Final Volume:	100ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD 3050B/6010B
METALS BY TRACE ICP

Client : PARSONS
Project : POLA-1500 I STREET
SDG NO. : 18D145
Sample ID: MBLK1S
Lab Samp ID: IPD032SB
Lab File ID: ID8D020023
Ext Btch ID: IPD032S
Calib. Ref.: ID8D020018

Date Collected: NA
Date Received: NA
Date Extracted: 04/24/18 10:21
Date Analyzed: 04/25/18 12:22
Dilution Factor: 1
Matrix: SOIL
% Moisture: NA
Instrument ID: D8

PARAMETERS	Result (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	1.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.100
Chromium	ND	1.00	0.200
Cobalt	ND	1.00	0.200
Copper	ND	1.00	0.200
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	1.00	0.200
Selenium	ND	1.00	0.500
Silver	ND	1.00	0.250
Thallium	ND	1.00	0.500
Vanadium	ND	1.00	0.500
Zinc	ND	2.00	1.00

Note: Detection limits are reported relative to sample result significant figures.
Sample Amount : 1g
Prepared by : MCande

Final Volume:100ml
Analyzed by:MRomer

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: IPD032SB	IPD032SL	IPD032SC
LAB FILE ID	: ID8D020023	ID8D020024	ID8D020025
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 12:22	04/25/18 12:26	04/25/18 12:30
PREP BATCH	: IPD032S	IPD032S	IPD032S
CALIBRATION REF	: ID8D020018	ID8D020018	ID8D020018

ACCESSION:

PARAMETERS	MBResult (mg/kg)	SpikeAmt (mg/kg)	LCSResult (mg/kg)	LCSRec (%)	SpikeAmt (mg/kg)	LCDResult (mg/kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	250	234	94	250	231	92	1	80-120	20
Arsenic	ND	50	46.8	94	50	46.0	92	2	80-120	20
Barium	ND	50	47.8	96	50	47.3	95	1	80-120	20
Beryllium	ND	50	48.4	97	50	48.1	96	1	80-120	20
Cadmium	ND	50	45.9	92	50	45.3	91	1	80-120	20
Chromium	ND	50	48.5	97	50	47.8	96	1	80-120	20
Cobalt	ND	50	48.2	96	50	47.7	95	1	80-120	20
Copper	ND	50	45.9	92	50	45.7	91	0	80-120	20
Lead	ND	50	47.1	94	50	46.6	93	1	80-120	20
Molybdenum	ND	50	49.9	100	50	49.4	99	1	80-120	20
Nickel	ND	50	49.7	99	50	48.9	98	2	80-120	20
Selenium	ND	50	47.0	94	50	46.3	93	2	80-120	20
Silver	ND	50	41.6	83	50	41.3	83	1	80-120	20
Thallium	ND	50	43.8	88	50	43.4	87	1	80-120	20
Vanadium	ND	50	50.8	102	50	50.1	100	1	80-120	20
Zinc	ND	50	52.6	105	50	52.0	104	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL		% MOISTURE: 22.7
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: B11-10	B11-10MS	B11-10MSD
LAB SAMPLE ID	: D145-01	D145-01M	D145-01S
LAB FILE ID	: ID8D020034	ID8D020031	ID8D020032
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 13:02	04/25/18 12:51	04/25/18 12:55
PREP BATCH	: IPD032S	IPD032S	IPD032S
CALIBRATION REF	: ID8D020029	ID8D020029	ID8D020029

ACCESSION:

PARAMETERS	PSResult (mg/kg)	SpikeAmt (mg/kg)	MSResult (mg/kg)	MSRec (%)	SpikeAmt (mg/kg)	MSDResult (mg/kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Antimony	ND	314	269	85.7	302	252	83.4	7	75-125	20
Arsenic	5.01	62.8	64.8	95.2	60.5	63.8	97.2	2	75-125	20
Barium	182	62.8	210	44.6*	60.5	232	82.6	10	75-125	20
Beryllium	0.437J	62.8	59.7	94.4	60.5	58.7	96.3	2	75-125	20
Cadmium	0.519J	62.8	59.1	93.3	60.5	58.0	95.0	2	75-125	20
Chromium	25.4	62.8	80.9	88.4	60.5	81.3	92.4	0	75-125	20
Cobalt	16.8	62.8	75.6	93.6	60.5	76.0	97.9	1	75-125	20
Copper	21.7	62.8	77.5	88.9	60.5	78.1	93.2	1	75-125	20
Lead	4.79	62.8	64.1	94.4	60.5	63.2	96.5	1	75-125	20
Molybdenum	ND	62.8	63.1	100	60.5	60.1	99.3	5	75-125	20
Nickel	21.9	62.8	81.2	94.4	60.5	81.9	99.2	1	75-125	20
Selenium	ND	62.8	61.5	97.9	60.5	60.4	99.8	2	75-125	20
Silver	ND	62.8	56.5	90.0	60.5	55.7	92.1	1	75-125	20
Thallium	ND	62.8	53.7	85.5	60.5	52.4	86.6	2	75-125	20
Vanadium	50.9	62.8	105	86.1	60.5	107	92.7	2	75-125	20
Zinc	83.3	62.8	142	93.5	60.5	147	105	3	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 22.7
DILUTION FACTOR	: 1	5
SAMPLE ID	: B11-10	B11-10
LAB SAMPLE ID	: D145-01	D145-01J
LAB FILE ID	: ID8D020034	ID8D020035
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 13:02	04/25/18 13:06
PREP BATCH	: IPD032S	IPD032S
CALIBRATION REF	: ID8D020029	ID8D020029

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	SD Result (mg/kg)	%Difference (%)	Max %D (%)
Antimony	ND	ND	0	10
Arsenic	5.01	4.40J	NA	10
Barium	182	187	3	10
Beryllium	0.437J	ND	NA	10
Cadmium	0.519J	ND	NA	10
Chromium	25.4	26.3	4	10
Cobalt	16.8	17.0	1	10
Copper	21.7	24.2	12*	10
Lead	4.79	4.47J	NA	10
Molybdenum	ND	ND	0	10
Nickel	21.9	21.9	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	50.9	52.6	3	10
Zinc	83.3	82.2	1	10

SD - Serial Dilution
* Out of QC limit

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : 3050B/6010B

MATRIX	: SOIL	% MOISTURE: 22.7
DILUTION FACTOR	: 1	1
SAMPLE ID	: B11-10	B11-10
LAB SAMPLE ID	: D145-01	D145-01A
LAB FILE ID	: ID8D020034	ID8D020033
DATE PREPARED	: 04/24/18 10:21	04/24/18 10:21
DATE ANALYZED	: 04/25/18 13:02	04/25/18 12:59
PREP BATCH	: IPD032S	IPD032S
CALIBRATION REF	: ID8D020029	ID8D020029

ACCESSION:

PARAMETERS	Sample Result (mg/kg)	Spike Amt (mg/kg)	AS Result (mg/kg)	AS Rec (%)	QC Limit (%)
Antimony	ND	305	317	104	75-125
Arsenic	5.01	61	72.7	111	75-125
Barium	182	61	255	120	75-125
Beryllium	0.437J	61	66.9	109	75-125
Cadmium	0.519J	61	65.9	107	75-125
Chromium	25.4	61	91.1	108	75-125
Cobalt	16.8	61	84.9	112	75-125
Copper	21.7	61	88.2	109	75-125
Lead	4.79	61	71.9	110	75-125
Molybdenum	ND	61	65.7	108	75-125
Nickel	21.9	61	92.0	115	75-125
Selenium	ND	61	68.4	112	75-125
Silver	ND	61	61.9	101	75-125
Thallium	ND	61	59.7	98	75-125
Vanadium	50.9	61	119	112	75-125
Zinc	83.3	61	160	126*	75-125

AS - Analytical Spike
* Out of QC limit

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 7470A
MERCURY BY COLD VAPOR

One (1) water sample was received on 04/18/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7470A and project specific requirements.

Holding Time
The sample was digested and analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD026WB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD026WL/HGD026WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 47

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGD026WB	1	NA	04/26/1816:18	04/26/1813:00	M47D016011	M47D016	18HGD026W	Method Blank
LCS1W	HGD026WL	1	NA	04/26/1816:20	04/26/1813:00	M47D016012	M47D016	18HGD026W	Lab Control Sample (LCS)
LCD1W	HGD026WC	1	NA	04/26/1816:22	04/26/1813:00	M47D016013	M47D016	18HGD026W	LCS Duplicate
EB	D145-16	1	NA	04/26/1817:13	04/26/1813:00	M47D016037	M47D016	18HGD026W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D145

Matrix : WATER
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DILT'N FACTOR	MOIST (%)	RL (ug/L)	MDL (ug/L)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1W	HGD026WB	ND	1	NA	0.500	0.100	04/26/1816:18	04/26/1813:00	M47D016011	M47D016	18HGD026W	NA	NA
LCS1W	HGD026WL	2.46	1	NA	0.500	0.100	04/26/1816:20	04/26/1813:00	M47D016012	M47D016	18HGD026W	NA	NA
LCD1W	HGD026WC	2.47	1	NA	0.500	0.100	04/26/1816:22	04/26/1813:00	M47D016013	M47D016	18HGD026W	NA	NA
EB	D145-16	ND	1	NA	0.500	0.100	04/26/1817:13	04/26/1813:00	M47D016037	M47D016	18HGD026W	04/18/1808:15	04/18/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : METHOD 7470A

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: HGD026WB	HGD026WL	HGD026WC
LAB FILE ID	: M47D016011	M47D016012	M47D016013
DATE PREPARED	: 04/26/1813:00	04/26/1813:00	04/26/1813:00
DATE ANALYZED	: 04/26/1816:18	04/26/1816:20	04/26/1816:22
PREP BATCH	: 18HGD026W	18HGD026W	18HGD026W
CALIBRATION REF:	M47D016	M47D016	M47D016

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	2.50	2.46	98.4	2.50	2.47	98.8	0	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

CASE NARRATIVE

Client : PARSONS

Project: POLA-1500 I STREET

SDG : 18D145

METHOD 7471A
MERCURY BY COLD VAPOR

A total of thirteen (13) soil samples were received on 04/18/18 to be analyzed for Mercury by Cold Vapor in accordance with Method 7471A and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one (1) method blank was analyzed. Mercury was not detected in HGD028SB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of LCS/LCD was analyzed. HGD028SL/HGD028SC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one (1) set of MS/MSD was analyzed. Mercury was within MS QC limits in 145-08M/S. Refer to Matrix QC summary form for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET

SDG NO. : 18D145
Instrument ID : 47

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD028SB	1	NA	04/30/1819:30	04/30/1815:50	M47D017041	M47D017	18HGD028S	Method Blank
LCS1S	HGD028SL	1	NA	04/30/1819:32	04/30/1815:50	M47D017042	M47D017	18HGD028S	Lab Control Sample (LCS)
LCD1S	HGD028SC	1	NA	04/30/1819:35	04/30/1815:50	M47D017043	M47D017	18HGD028S	LCS Duplicate
B13-2	D145-08	1	8.1	04/30/1819:43	04/30/1815:50	M47D017047	M47D017	18HGD028S	Field Sample
B13-2MS	D145-08M	1	8.1	04/30/1819:47	04/30/1815:50	M47D017049	M47D017	18HGD028S	Matrix Spike Sample (MS)
B13-2MSD	D145-08S	1	8.1	04/30/1819:49	04/30/1815:50	M47D017050	M47D017	18HGD028S	MS Duplicate (MSD)
B11-10	D145-01	1	22.7	04/30/1819:51	04/30/1815:50	M47D017051	M47D017	18HGD028S	Field Sample
B11-15	D145-02	1	14.3	04/30/1819:53	04/30/1815:50	M47D017052	M47D017	18HGD028S	Field Sample
B12-0.5	D145-03	1	5.8	04/30/1819:55	04/30/1815:50	M47D017053	M47D017	18HGD028S	Field Sample
B12-2	D145-04	1	5.3	04/30/1819:57	04/30/1815:50	M47D017054	M47D017	18HGD028S	Field Sample
B12-5	D145-05	1	12.5	04/30/1819:59	04/30/1815:50	M47D017055	M47D017	18HGD028S	Field Sample
B12-10	D145-06	1	25.5	04/30/1820:01	04/30/1815:50	M47D017056	M47D017	18HGD028S	Field Sample
B13-0.5	D145-07	1	5.0	04/30/1820:07	04/30/1815:50	M47D017059	M47D017	18HGD028S	Field Sample
B13-5	D145-09	1	6.9	04/30/1820:09	04/30/1815:50	M47D017060	M47D017	18HGD028S	Field Sample
B13-10	D145-12	1	13.7	04/30/1820:11	04/30/1815:50	M47D017061	M47D017	18HGD028S	Field Sample
B11-5	D145-15	1	10.8	04/30/1820:18	04/30/1815:50	M47D017064	M47D017	18HGD028S	Field Sample
B11-0.5	D145-13I	50	3.0	05/01/1810:56	04/30/1815:50	M47E001011	M47E001	18HGD028S	Diluted Sample
B11-2	D145-14I	10	5.8	05/01/1810:58	04/30/1815:50	M47E001012	M47E001	18HGD028S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : PARSONS
Project : POLA-1500 I STREET
Batch No. : 18D145

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/Kg)	DILT'N FACTOR	MOIST (%)	RL (mg/Kg)	MDL (mg/Kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGD028SB	ND	1	NA	0.100	0.0200	04/30/1819:30	04/30/1815:50	M47D017041	M47D017	18HGD028S	NA	NA
LCS1S	HGD028SL	0.417	1	NA	0.100	0.0200	04/30/1819:32	04/30/1815:50	M47D017042	M47D017	18HGD028S	NA	NA
LCD1S	HGD028SC	0.407	1	NA	0.100	0.0200	04/30/1819:35	04/30/1815:50	M47D017043	M47D017	18HGD028S	NA	NA
B13-2	D145-08	0.0423J	1	8.1	0.107	0.0214	04/30/1819:43	04/30/1815:50	M47D017047	M47D017	18HGD028S	04/18/1808:50	04/18/18
B13-2MS	D145-08M	0.506	1	8.1	0.107	0.0215	04/30/1819:47	04/30/1815:50	M47D017049	M47D017	18HGD028S	04/18/1808:50	04/18/18
B13-2MSD	D145-08S	0.530	1	8.1	0.106	0.0212	04/30/1819:49	04/30/1815:50	M47D017050	M47D017	18HGD028S	04/18/1808:50	04/18/18
B11-10	D145-01	ND	1	22.7	0.122	0.0245	04/30/1819:51	04/30/1815:50	M47D017051	M47D017	18HGD028S	04/18/1808:18	04/18/18
B11-15	D145-02	ND	1	14.3	0.116	0.0231	04/30/1819:53	04/30/1815:50	M47D017052	M47D017	18HGD028S	04/18/1808:34	04/18/18
B12-0.5	D145-03	0.0639J	1	5.8	0.103	0.0206	04/30/1819:55	04/30/1815:50	M47D017053	M47D017	18HGD028S	04/18/1809:20	04/18/18
B12-2	D145-04	0.0731J	1	5.3	0.0995	0.0199	04/30/1819:57	04/30/1815:50	M47D017054	M47D017	18HGD028S	04/18/1809:25	04/18/18
B12-5	D145-05	0.0313J	1	12.5	0.114	0.0227	04/30/1819:59	04/30/1815:50	M47D017055	M47D017	18HGD028S	04/18/1809:34	04/18/18
B12-10	D145-06	0.0421J	1	25.5	0.134	0.0267	04/30/1820:01	04/30/1815:50	M47D017056	M47D017	18HGD028S	04/18/1809:42	04/18/18
B13-0.5	D145-07	0.123	1	5.0	0.104	0.0208	04/30/1820:07	04/30/1815:50	M47D017059	M47D017	18HGD028S	04/18/1808:39	04/18/18
B13-5	D145-09	0.0362J	1	6.9	0.107	0.0214	04/30/1820:09	04/30/1815:50	M47D017060	M47D017	18HGD028S	04/18/1808:57	04/18/18
B13-10	D145-12	ND	1	13.7	0.113	0.0226	04/30/1820:11	04/30/1815:50	M47D017061	M47D017	18HGD028S	04/18/1809:06	04/18/18
B11-5	D145-15	0.0261J	1	10.8	0.109	0.0219	04/30/1820:18	04/30/1815:50	M47D017064	M47D017	18HGD028S	04/18/1808:05	04/18/18
B11-0.5	D145-13I	38.6	50	3.0	5.06	1.01	05/01/1810:56	04/30/1815:50	M47E001011	M47E001	18HGD028S	04/18/1807:32	04/18/18
B11-2	D145-14I	3.59	10	5.8	1.04	0.207	05/01/1810:58	04/30/1815:50	M47E001012	M47E001	18HGD028S	04/18/1807:36	04/18/18

Note: Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1S	LCS1S	LCD1S
LAB SAMPLE ID	: HGD028SB	HGD028SL	HGD028SC
LAB FILE ID	: M47D017041	M47D017042	M47D017043
DATE PREPARED	: 04/30/1815:50	04/30/1815:50	04/30/1815:50
DATE ANALYZED	: 04/30/1819:30	04/30/1819:32	04/30/1819:35
PREP BATCH	: 18HGD028S	18HGD028S	18HGD028S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	MBResult (mg/Kg)	SpikeAmt (mg/Kg)	LCSResult (mg/Kg)	LCSRec (%)	SpikeAmt (mg/Kg)	LCDResult (mg/Kg)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	ND	0.417	0.417	100	0.417	0.407	97.6	2	80-120	20

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145
METHOD : METHOD 7471A

MATRIX	: SOIL		% MOISTURE:8.1
DILUTION FACTOR:	1	1	1
SAMPLE ID	: B13-2	B13-2MS	B13-2MSD
LAB SAMPLE ID	: D145-08	D145-08M	D145-08S
LAB FILE ID	: M47D017047	M47D017049	M47D017050
DATE PREPARED	: 04/30/1815:50	04/30/1815:50	04/30/1815:50
DATE ANALYZED	: 04/30/1819:43	04/30/1819:47	04/30/1819:49
PREP BATCH	: 18HGD028S	18HGD028S	18HGD028S
CALIBRATION REF:	M47D017	M47D017	M47D017

ACCESSION:

PARAMETERS	PSResult (mg/Kg)	SpikeAmt (mg/Kg)	MSResult (mg/Kg)	MSRec (%)	SpikeAmt (mg/Kg)	MSDResult (mg/Kg)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Mercury	0.0423J	0.448	0.506	104	0.442	0.530	110	5	75-125	20

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 07:32
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID:	B11-0.5	Date Analyzed:	05/24/18 16:48
Lab Samp ID:	D145-13I	Dilution Factor:	5
Lab File ID:	ID8E019060	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019055	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	0.389	0.250	0.0750
Copper	3.23	0.250	0.0750
Lead	7.79	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	04/18/18 07:32
Project	: POLA-1500 I STREET	Date Received:	04/18/18
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID:	B11-0.5	Date Analyzed:	05/24/18 16:52
Lab Samp ID:	D145-13J	Dilution Factor:	25
Lab File ID:	ID8E019061	Matrix:	LEACHATE
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019055	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	1.25	0.375
Copper	3.14	1.25	0.375
Lead	7.64	1.25	0.375

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID:	MBLK1W	Date Analyzed:	05/24/18 15:58
Lab Samp ID:	IPE028WB	Dilution Factor:	1
Lab File ID:	ID8E019047	Matrix:	WATER
Ext Btch ID:	IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.0100	0.00300
Copper	ND	0.0100	0.00300
Lead	ND	0.0100	0.00300

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 50ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer

METHOD WET/3010A/6010B
STLC METALS BY TRACE ICP

Client	: PARSONS	Date Collected:	NA
Project	: POLA-1500 I STREET	Date Received:	NA
SDG NO.	: 18D145A	Date Extracted:	05/24/18 10:18
Sample ID	: MBLK2W	Date Analyzed:	05/24/18 16:09
Lab Samp ID	: WTE003SB	Dilution Factor:	5
Lab File ID	: ID8E019050	Matrix:	LEACHATE
Ext Btch ID	: IPE028W	% Moisture:	NA
Calib. Ref.:	ID8E019045	Instrument ID:	D8

PARAMETERS	Result (mg/L)	RL (mg/L)	MDL (mg/L)
Chromium	ND	0.250	0.0750
Copper	ND	0.250	0.0750
Lead	ND	0.250	0.0750

Note: Detection limits are reported relative to sample result significant figures.

Sample Amount	: 10ml	Final Volume:	50ml
Prepared by	: MCande	Analyzed by:	MRomer
DateTime Leached:	05/21/18 12:30		

D145-13A.TXT
D145-13I.TXT
D145-13J.TXT
D145-13M.TXT
D145-13S.TXT
IPE028WB.TXT
IPE028WC.TXT
IPE028WL.TXT
WTE003SB.TXT

```
00  ID8E019014  ICV        |
00  ID8E019015  ICB        |
00  ID8E019016  ICSA1      |
00  ID8E019017  ICSAB1     |
00  ID8E019019  CCV1       |
00  ID8E019020  CCB1       |
00  ID8E019045  CCV4       |
00  ID8E019046  CCB4       |
00  ID8E019047  IPE028WB   |
00  ID8E019048  IPE028WL   |
00  ID8E019049  IPE028WC   |
00  ID8E019050  WTE003SB   |
00  ID8E019055  CCV5       |
00  ID8E019056  CCB5       |
00  ID8E019057  D145-13M   |
00  ID8E019058  D145-13S   |
00  ID8E019059  D145-13A   |
00  ID8E019060  D145-13I   |
00  ID8E019061  D145-13J   |
00  ID8E019062  CCV6       |
00  ID8E019063  CCB6       |
```

"1","IPE028WB","ID8E019047"
"2","IPE028WL","ID8E019048"
"3","IPE028WC","ID8E019049"
"4","WTE003SB","ID8E019050"
"5","D145-13M","ID8E019057"
"6","D145-13I","ID8E019060"
"7","D145-13S","ID8E019058"
"8","D145-13A","ID8E019059"
"9","D145-13J","ID8E019061"

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1.000	1.000	1.000
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: IPE028WB	IPE028WL	IPE028WC
LAB FILE ID	: ID8E019047	ID8E019048	ID8E019049
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 15:58	05/24/18 16:02	05/24/18 16:06
PREP BATCH	: IPE028W	IPE028W	IPE028W
CALIBRATION REF	: ID8E019045	ID8E019045	ID8E019045

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Chromium	ND	0.5	0.482	96	0.5	0.487	97	1	80-120	20
Copper	ND	0.5	0.458	92	0.5	0.464	93	1	80-120	20
Lead	ND	0.5	0.460	92	0.5	0.465	93	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX : LEACHATE % MOISTURE: NA
DILUTION FACTOR: 5 5 5
SAMPLE ID : B11-0.5 B11-0.5MS B11-0.5MSD
LAB SAMPLE ID : D145-13I D145-13M D145-13S
LAB FILE ID : ID8E019060 ID8E019057 ID8E019058
DATE PREPARED : 05/24/18 10:18 05/24/18 10:18 05/24/18 10:18
DATE ANALYZED : 05/24/18 16:48 05/24/18 16:36 05/24/18 16:40
PREP BATCH : IPE028W IPE028W IPE028W
CALIBRATION REF: ID8E019055 ID8E019055 ID8E019055

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Chromium	0.389	2.5	2.80	96.4	2.5	2.73	93.6	3	75-125	20
Copper	3.23	2.5	5.26	81.2	2.5	5.24	80.4	0	75-125	20
Lead	7.79	2.5	9.50	68.4*	2.5	9.32	61.2*	2	75-125	20

PSResult - Parent Sample Result
* Out of QC limit

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX	: LEACHATE	% MOISTURE: NA
DILUTION FACTOR	: 5	5
SAMPLE ID	: B11-0.5	B11-0.5
LAB SAMPLE ID	: D145-13I	D145-13A
LAB FILE ID	: ID8E019060	ID8E019059
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 16:48	05/24/18 16:44
PREP BATCH	: IPE028W	IPE028W
CALIBRATION REF	: ID8E019055	ID8E019055

ACCESSION:

PARAMETERS	Sample Result (mg/L)	Spike Amt (mg/L)	AS Result (mg/L)	AS Rec (%)	QC Limit (%)
Chromium	0.389	12.5	14.2	110	75-125
Copper	3.23	12.5	16.6	107	75-125
Lead	7.79	12.5	20.6	102	75-125

AS - Analytical Spike

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT : PARSONS
PROJECT : POLA-1500 I STREET
BATCH NO. : 18D145A
METHOD : WET/3010A/6010B

MATRIX	: LEACHATE	% MOISTURE: NA
DILUTION FACTOR	: 5	25
SAMPLE ID	: B11-0.5	B11-0.5
LAB SAMPLE ID	: D145-13I	D145-13J
LAB FILE ID	: ID8E019060	ID8E019061
DATE PREPARED	: 05/24/18 10:18	05/24/18 10:18
DATE ANALYZED	: 05/24/18 16:48	05/24/18 16:52
PREP BATCH	: IPE028W	IPE028W
CALIBRATION REF	: ID8E019055	ID8E019055

ACCESSION:

PARAMETERS	Sample Result (mg/L)	SD Result (mg/L)	%Difference (%)	Max %D (%)
Chromium	0.389	ND	NA	10
Copper	3.23	3.14	3	10
Lead	7.79	7.64	2	10

SD - Serial Dilution

APPENDIX D

Jones Environmental Soil Gas Analytical Reports

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LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref.No:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project Name:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Colby Wakeman
QA/QC Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B2-5**	**SG7-5**	**B1-5**	**B1-5 REP**	**B8-5**		
Jones ID:	**D-1460-01**	**D-1460-02**	**D-1460-03**	**D-1460-04**	**D-1460-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	**0.566**	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B2-5**	**SG7-5**	**B1-5**	**B1-5 REP**	**B8-5**		
Jones ID:	**D-1460-01**	**D-1460-02**	**D-1460-03**	**D-1460-04**	**D-1460-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	**0.407**	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	**0.455**	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	100%	103%	106%	105%	106%	60 - 140	
Toluene-d_8	79%	81%	84%	74%	83%	60 - 140	
4-Bromofluorobenzene	●	81%	84%	82%	82%	60 - 140	
	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS		

ND= Not Detected

● = High Hydrocarbon concentration in this sample prevented adequate surrogate recovery

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B14-5**	**B10-5**	**B12-5**		
Jones ID:	**D-1460-06**	**D-1460-07**	**D-1460-08**	**Practical Quantitation Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**B14-5**	**B10-5**	**B12-5**		
Jones ID:	**D-1460-06**	**D-1460-07**	**D-1460-08**	**Practical Quantitation Limit**	**Units**
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	1.000	µg/L
TIC:					
n-Pentane	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	104%	107%	104%	60 - 140	
Toluene-d_8	83%	84%	83%	60 - 140	
4-Bromofluorobenzene	82%	83%	80%	60 - 140	
	D1-042318-CHECKS	D1-042318-CHECKS	D1-042318-CHECKS		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**042318-D1MB1**	**042318-D1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
Benzene	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	0.020	µg/L
Bromoform	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	0.020	µg/L
Chloroform	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**042318-D1MB1**	**042318-D1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	0.020	µg/L
Freon 113	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	0.020	µg/L
Naphthalene	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	0.020	µg/L
Styrene	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	0.020	µg/L
Toluene	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	0.020	µg/L
o-Xylene	ND	ND	0.020	µg/L
MTBE	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	1.000	µg/L
TIC:				
n-Pentane	ND	ND	1.000	µg/L
n-Hexane	ND	ND	1.000	µg/L
n-Heptane	ND	ND	1.000	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	104%	105%	60 - 140	
Toluene-d_8	78%	81%	60 - 140	
4-Bromofluorobenzene	80%	80%	60 - 140	
	D1-042318-CHECKS	D1-042318-CHECKS		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/23/2018
Client Address:	100 W Walnut St Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	D-1460 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project:	1517-1520 E I Street	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I Street Wilmington, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: D1-042318-D-1460

Jones ID:	**042318-D1LCS1**	**042318-D1LCSD1**			**042318-D1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	191%	194%	1.8%	70 - 130	123%	80 - 120
1,1-Dichloroethene	121%	121%	0.3%	70 - 130	105%	80 - 120
Cis-1,2-Dichloroethene	128%	127%	0.4%	70 - 130	113%	80 - 120
1,1,1-Trichloroethane	109%	109%	0.4%	70 - 130	100%	80 - 120
Benzene	130%	131%	1.0%	70 - 130	101%	80 - 120
Trichloroethene	129%	128%	1.0%	70 - 130	115%	80 - 120
Toluene	115%	118%	2.5%	70 - 130	105%	80 - 120
Tetrachloroethene	116%	114%	1.4%	70 - 130	99%	80 - 120
Chlorobenzene	129%	129%	0.6%	70 - 130	118%	80 - 120
Ethylbenzene	129%	130%	0.3%	70 - 130	114%	80 - 120
1,2,4 Trimethylbenzene	122%	126%	3.3%	70 - 130	117%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	106%	108%		60 - 140	107%	60 - 140
Toluene-d_8	84%	83%		60 - 140	87%	60 - 140
4-Bromofluorobenzene	85%	84%		60 - 140	88%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Soil-Gas Chain-of-Custody Record

Client: **PARSONS**

Project Name: **1517-1520 E I STREET**

Project Address: **1517 E I STREET**

WILMINGTON, CA

Email:

Phone:

Report To: **JIM GOEPEL**

Sampler: **ANNALISE O'TOOLE**

Date: 4/23/2018

Client Project #: 451077

Purge Number: □ 1P □ 3P □ 7P □ 10P

Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY

Jones Project # **D-1460**

Page 1 of 1

Sample Container: GAS TIGHT GLASS SYRINGE

If different than above, see Notes.

Turn Around Requested

- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- X Mobile Lab

Tracer

- □ n-pentane
- □ n-hexane
- □ n-heptane
- □ Helium
- □ 1,1-DFA
- □ _____

Reporting Limits Requested: X Commercial □ Residential

Units: ug/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (in/H_2O)	Number of Containers	Notes & Special Instructions
B2-5	3	1980	4/23/18	6:43	6:45	D-1460-01	~200	ANNALISE.1	TSS 118007	SG	X				<2	1	
SG7-5	3	1980	4/23/18	6:56	7:00	D-1460-02	~200	ANGELA.2	M100.106	SG	X				2	1	
B1-5	3	1980	4/23/18	7:13	7:17	D-1460-03	~200	ANNALISE.1	TSS 118007	SG	X				<2	1	
B1-5 REP	3	1980	4/23/18	7:29	7:32	D-1460-04	~200	ANNALISE.1	TSS 118007	SG	X				<2	1	
B8-5	3	1980	4/23/18	8:03	8:04	D-1460-05	~200	ANNALISE.1	TSS 118007	SG	X				2	1	
B14-5	3	1980	4/23/18	8:15	8:19	D-1460-06	~200	ANGELA.2	M100.106	SG	X				10	1	
B10-5	3	1980	4/23/18	8:31	8:36	D-1460-07	~200	ANNALISE.1	TSS 118007	SG	X				<2	1	
B12-5	3	1980	4/23/18	8:44	8:54	D-1460-08	~200	ANGELA.2	M100.106	SG	X				<2	1	

Relinquished By (Signature): Carrie Cortes — Printed Name: Carrie Cortes — Company: Parsons — Date: 4/23/18 — Time: 0917

Received By (Signature): Annalise O'Toole — Printed Name: Annalise O'Toole — Company: Jones Environmental — Date: 4-23-18 — Time: 0917

8 Total Number of Containers

Relinquished By (Signature) — Printed Name — Company — Date — Time

Received By Laboratory (Signature) — Printed Name — Company — Date — Time

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

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562-646-1611
805-399-0060

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:**	ST-12034
		Client Ref.No.:	451077
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. ASTM D1946 – Methane

Approval:

Colby Wakeman
QA/QC Manager

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 451077
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

Sample ID:	**B1-5**	**B1-5 REP**	**SG7-5**	**B2-5**	**B8-5**		
JEL ID:	**ST-12034-01**	**ST-12034-02**	**ST-12034-03**	**ST-12034-04**	**ST-12034-05**	**Practical Quantitation Limit**	**Units**
Methane (CH_4)	ND	ND	ND	**0.1**	ND	0.01	%
Dilution Factor	1	1	1	1	1		
	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01		

ND = Not Detected

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LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 1/2/3135
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

Sample ID:	**B14-5**	**B10-5**	**B12-5**		
JEL ID:	**ST-12034-06**	**ST-12034-07**	**ST-12034-08**	**Practical Quantitation Limit**	**Units**
Methane (CH_4)	ND	ND	ND	0.01	%
Dilution Factor	1	1	1		
	ASTM-042318_01	ASTM-042318_01	ASTM-042318_01		

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 1/2/3135
Attn:	Jim Goepel	**Date Sampled:**	4/23/2018
		Date Received:	4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

Sample ID:	**AMBIENT AIR**		
JEL ID:	**AA-042318_01**	**Practical Quantitation Limit**	**Units**
Methane (CH_4)	ND	0.01	%
Dilution Factor	1		
	ASTM-042318_01		

ND = Not Detected

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/24/2018
Client Address:	100 W. Walnut St Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12034 1/2/3135
Attn:	Jim Goepel	**Date Sampled:** **Date Received:**	4/23/2018 4/23/2018
Project:	1517-1520 E I St.	**Date Analyzed:**	4/23/2018
Project Address:	1517 E I St. Wilmington, CA	**Physical State:**	Soil Gas

ASTM D1946 – Methane

GC#: ASTM-042318_01

JEL ID:	**LCS-042318_01**	**LCSD_042318_01**		
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)
Methane (CH_4)	100%	100%		60 - 140

LCS = Lab Control Sample
LCSD = Lab Control Sample Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Chain-of-Custody Record

Client: Parsons
Date: 4-23-18
Project Name: 1517 - 1520 E I St.
Client Project #: 451077
Project Address: 1517 E I St.
Wilmington, CA
Email:
Phone:
Report To: Jim Goepel
Sampler: Annalise O.

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

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Jones Project #
ST-12034
Page 1 of 1

Sample Condition as Recieved:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Sample Container / Preservative Abbreviations

AS - Acetate Sleeve
SS - Stainless Steel Sleeve
BS - Brass Sleeve
G - Glass
AB - Amber Bottle
P - Plastic
SOBI - Sodium Bisulfate
MeOH - Methanol
HCl - Hydrochloric Acid
HNO3 - Nitric Acid
O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Methane	Number of Containers	Notes & Special Instructions
B1-S	4/23	0737	ST-12034-01	-	tedlar	S	X	1	
B1-S REP	4/23	0739	ST-12034-02	-	tedlar	S	X	1	
SG7-S	4/23	0742	ST-12034-03	-	tedlar	S	X	1	
B2-S	4/23	0744	ST-12034-04	-	tedlar	S	X	1	
B8-S	4/23	0858	ST-12034-05	-	tedlar	S	X	1	
B14-S	4/23	0856	ST-12034-06	-	tedlar	S	X	1	
B10-S	4/23	0901	ST-12034-07	-	tedlar	S	X	1	
B12-S	4/23	0903	ST-12034-08	-	tedlar	S	X	1	

	Printed Name		Company	Date	Time
Relinquished By (Signature)	Carrie Cozier		Parsons	4/23/18	0917
Relinquished By (Signature)	Annalise O'Toole		JONES ENVIRONMENTAL	4-23-18	1011
Received By (Signature)	Annalise O'Toole		JONES ENVIRONMENTAL	4-23-18	0917
Received By Laboratory (Signature)	Madeline Worshin		JONES ENV.	4/23/18	1015

8 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

Supplemental
Subsurface Investigation Report

FEBRUARY 17, 2009

Performed at:

7TH STREET GARAGE
1510/1520 EAST I STREET
WILMINGTON, CALIFORNIA

Performed for:

PORT OF LOS ANGELES
ENVIRONMENTAL MANAGEMENT DIVISION
425 SOUTH PALOS VERDES STREET
SAN PEDRO, CALIFORNIA 90731

PROJECT DIRECTIVE #15
AGREEMENT NUMBER 2659
ADP NUMBER 070619-118

Performed by:

Pacific Edge Engineering, Inc.

26691 Plaza, Suite 270
Lake Forest, CA 92630

Tabb Bubier
Principal

In Association with:

Jenkins Environmental Associates

J E A

11749 Capri Drive
Whittier, CA 90601

Richard L. Jenkins, Ph.D., P.E.
Project Manager

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(949) 470-1937; (949) 470-0943 (FAX)

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PROFESSIONAL CERTIFICATION

Pacific Edge Engineering, Inc., under the professional supervision of Craig Stolz, has prepared this report. The findings, conclusions, specifications, and/or professional opinions presented in this report have been prepared in accordance with generally accepted professional engineering practice, and within the scope of the project. There is no other warranty, either expressed or implied.

Craig A. Stolz
P.E. No. C049758
Principal Engineer
Pacific Edge Engineering, Inc.

EXECUTIVE SUMMARY

Pacific Edge Engineering, Inc. (Pacific Edge), on behalf of the Port of Los Angeles (Port), conducted soil, soil gas, and grab-groundwater sampling to supplement investigation results obtained during Pacific Edge's October 2007 investigation (Reference #1).

The property is known as the "7th Street Garage" and is located at 1510/1520 East I Street in Wilmington, California (the Site). A Site location map is presented as Figure 1.

The Site is an unpaved rectangular shaped parcel approximately 1.28 acres in size and consists of eleven (11) contiguous lots (see Figure 2). During the 2007 investigation, the Site was being used as a salvage and storage yard for automobiles, boats, and recreational vehicles. Sometime after the 2007 investigation the tenant vacated the Site and the Site remained idle. During the 2008 investigation, the former tenant was preparing to again occupy the Site and conduct their salvage operations. The Site is located within the area classified by Los Angeles Regional Water Quality Control Boards (RWQCB) as a de-designated groundwater area (Reference #2).

A Phase I Environmental Assessment (Reference #3) was conducted by Pacific Edge and the following Recognized Environmental Conditions (RECs) were identified:

- Oil Well NWU31-27 located on the southeastern portion of lot #18
- Historic Sanborn Maps show above ground oil storage tanks located on lots 14, 15, and 20.
- Current salvage operations have a potential for discharging vehicle fluids and metals directly to surface soil

In October 2007, Pacific Edge conducted a soil and soil gas investigation to assess the above RECs. The results of the 2007 investigation identified TPH, VOC, PCBs, and metals contamination that warranted further investigation.

Subsequently, Pacific Edge conducted the supplemental investigation documented herein. Prior to conducting the supplemental investigation, Pacific Edge was informed by the Port that an asphalt cover was being considered for the Site and that the upper 2-feet of soils were not suitable from a geotechnical standpoint and would need to be excavated prior to construction of an asphalt cover. As a result, the supplemental investigation placed more emphasis on the upper 2-feet of soil in order to evaluate appropriate management measures if this soil were excavated for construction of the asphalt cover.

The supplemental investigation was conducted on October 30 and 31, 2008. Soil, soil gas, and grab-groundwater samples were collected throughout the Site. Sample locations were selected to further assess areas where elevated contaminant concentrations were detected during the 2007 investigation, and evaluate areas that were not accessible during the 2007 investigation. All data collected during both investigations were compared to one (1) or more of the following criteria:

- Preliminary Remediation Goals (PRGs) – USEPA Region 9 (Reference #4)
- California Human Health Screening Levels (CHHSLs) – CalEPA (Reference #5)
- Soil Screening Levels - Los Angeles Regional Water Quality Control Board (Reference #6)
- Unrestricted re-use level for Total TPH (TPH $_{C6\text{-}C44}$) impacted soil (Reference #7)
- Methane Mitigation Standards – City of Los Angeles (Reference #8)
- Maximum Contaminant Levels for Drinking Water - CalEPA (Reference #9)
- California Code of Regulations (Reference #10)

Site data was compared to the above criteria to evaluate 1) if contaminants would pose a potential health risk under the current industrial land use setting, 2) if remediation is necessary under the current industrial use, 3) if soil management measures are necessary in the event Site soils are disturbed or excavated in the future, and 3) if soil gas and groundwater warrant further action.

The investigation results indicate the following:

- Site soils have been impacted by Total TPH (TPH $_{C6-C44}$). The distribution of total TPH is predominantly a mixture of diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-C44}$) with minor amounts of gasoline (TPH $_{C6-C12}$) detected in a few samples. Total TPH (TPH $_{C6-C44}$) concentrations exceed the unrestricted re-use concentration of 1,000 mg/kg at several locations. The highest total TPH concentrations are located at the former ASTs on the western portion of the Site. If soils with a total TPH concentration greater than 1,000 mg/kg are disturbed or excavated this soil should be properly managed for off-site disposal or recycling. Figure 10 (upper 2-feet) and Figure 11 (> 2-feet) illustrate the estimated area with soil impacted above the 1,000 mg/kg unrestricted re-use criteria.
- Low concentrations of Volatile Organic Compounds (VOCs) were detected in soil and are concomitant with TPH. All detected VOCs in soil were below their respective industrial PRG value indicating no further action is warranted with respect to VOCs absorbed to soil.
- Polycyclic Aromatic Hydrocarbons (PAHs) analytes were detected at low concentrations in two (2) soil samples. Detected PAH analyte concentrations were significantly below their respective industrial PRG value indicating no further action is warranted.
- Arsenic was detected in all soil samples above its industrial CHHSL value. It is a common occurrence in southern California for background arsenic concentrations to exceed its CHHSL value. Review of the arsenic Site data suggests a background concentration range from 1.74 mg/kg to 9.05 mg/kg. Five (5) soil samples showed arsenic concentrations above the presumed background range and therefore are subject to further action. Further action could include a site-specific risk assessment to determine if an unacceptable human health risk exists at the Site, or cover the impacted areas to eliminate the potential exposure pathway, or removal of impacted soil at these areas. These areas are show on Figures 10 and 11.
- Cadmium exceeded its industrial CHHSL value at three (3) locations and indicates further action is warranted. Further actions include those discussed above. These areas are show on Figure 10.

- Lead did not exceed its industrial CHHSL value of 3,500 mg/kg. However, lead did exceed its TTLC and STLC values at several locations. Ten (10) soil samples with the highest total lead concentrations were subjected to the California WET procedure. Eighty (80) percent of these ten (10) samples exceeded the lead STLC of 5 mg/L. The estimated areas impacted with lead above its TTLC and STLC are shown on Figure 10. Excavated soil from these areas should be managed as hazardous waste according with Title 22, California Code of Regulations. It is important to note that forty-six (46) samples had total lead concentrations greater than 50 mg/kg, which is 10 times the STLC value of 5 mg/L. Not all of these samples were tested for soluble lead. As a result, soil excavated outside the area shown on Figure 10 should be stockpiled and sampled for total and soluble lead prior to re-use or disposal.
- PCBs (aroclor-1248 and aroclor-1254) were detected in twenty-one (21) soil samples. Aroclor-1248 and 1254 exceeded their industrial CHHSL value in eleven (11) samples indicating further action is warranted. Further actions include those discussed above. These areas are show on Figure 10.
- Several VOCs were sporadically detected in soil gas at the Site. The detected VOCs are concomitant with TPH and fuels. Benzene was detected at three (3) locations and is the only VOC detected above its industrial CHHSL value for shallow soils. The shallow soil gas industrial CHHSL value represents a concentration that is protective of indoor air by intrusion. Since buildings are not present at the Site no further action appears warranted with respect to VOCs in soil gas. However, if future Site development were to include construction of buildings, additional soil gas investigation and/or appropriate mitigation measures should be considered.
- Methane was detected in three (3) soil gas samples. At the former ASTs on the western portion of the Site methane was detected at a concentration of 7,580 parts per million by volume (ppmv). According to the City of Los Angeles Methane Code, this concentration would require further investigation and possible mitigation measures for new building construction. Since buildings are not present at the Site no further action appears warranted with respect to methane in soil gas. If future Site development were to include construction of buildings, additional methane investigation and/or appropriate mitigation

measures should be considered. However, removal of TPH impacted soil at the former ASTs area would likely mitigate methane concentrations below levels of concern for construction of a building, assuming potential TPH impacts to underlying groundwater does not result in unacceptable methane levels.

- Total TPH (TPH $_{C6-C44}$) was detected in all grab-groundwater samples with the highest concentration of 34,000 microgram per liter (ug/L) detected in GS27 at the former ASTs area. This area is also where the highest TPH concentrations in soil were detected suggesting that the former ASTs is a source of groundwater contamination. A hydrocarbon sheen was observed on the grab-groundwater sample collected in GS27. It is therefore possible that free-floating product is present beneath the former ASTs area. The installation of groundwater wells is a method to evaluate the presence of free-floating product at the former ASTs area.
- Similar to soil, the distribution of total TPH in groundwater is predominantly a mixture of diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-C44}$) with the exception of GS13 located near the northeastern property boundary. In GS13, gasoline (TPH $_{C6-C12}$) was the predominant contaminant. Review of soil and groundwater results suggest that it is possible that an off-site source is contributing to groundwater contamination at the Site. The installation of groundwater monitoring wells is one method to investigate if an off-site source of gasoline is contributing to on-site groundwater contamination.
- VOCs concomitant with TPH and fuels were detected at low concentrations in grab-groundwater samples collected at the former ASTs. None of these VOCs exceeded their primary MCL for drinking water. Of particular note is MTBE which was detected at a low concentration of 1.4 ug/L (MCL = 13 ug/L) in GS25. MTBE was not detected in any other grab-groundwater sample or any soil sample. This suggests a relatively recent release (post ASTs) and could be the result of tenant salvage operations or an off-site source.
- Other non TPH and fuel related VOCs detected in groundwater include trichloroethene (TCE), c-1,2-dichloroethene (cis-DCE), and t-1,2-dichloroethene (trans-DCE). These VOCs were detected in one grab-groundwater sample (GS20), with the exception of cis-DCE which was also detected in sample GS19. These VOCs were detected at

concentrations below their respective MCL value for drinking water. Cis-DCE and trans-DCE are likely daughter products of the decomposition of TCE. None of these VOCs were detected in soil samples. Based on the location of grab-groundwater samples GS19 and GS20 an off-site source is suspected. The installation of groundwater monitoring wells is one method to investigate potential off-site sources for these VOCs.

- The presence of the oil well at the Site will present special constraints for the construction of any buildings near or over the well in the future. The regulatory requirements will include, but may not be limited to, those as defined by the California Division of Oil, Gas, and Geothermal Resources.

In summary, contaminants in soil, soil vapor, and shallow groundwater were encountered at the Site. The presence of detected contaminants in soil and groundwater may pose a risk to human health or the environment and warrant further action. Further action could include some or all of the following: 1) a site-specific risk assessment to determine if an unacceptable human health risk exists at the Site, or 2) cover the impacted areas to eliminate the potential exposure pathway, or 3) removal of impacted soil at these areas.

1.0 INTRODUCTION

The purpose of the supplemental investigation, documented herein, was to further assess the nature and extent of contamination identified during Pacific Edge's initial subsurface investigation conducted on October 12, 2007 (Reference #1).

1.1 SITE DESCRIPTION

A Site location map is presented as Figure 1. The Site is bordered on the north by East I Street, on the west by an industrial property, on the east by a commercial property, and on the south by an un-named alley. The Site is approximately 1.28 acres in size and consists of eleven (11) lots. The center lot was formerly an extension of Lansing Avenue. The entire Site is unpaved and is secured by a chain-link fence with one access gate located along East I Street.

At the time of the 2007 investigation, the tenant (7th Street Garage) operated a salvage and storage business. Automobiles, boats and recreational vehicles were salvaged at the Site. According to 7th Street Garage on-site personnel, processing of wood or metal was not conducted and salvaging primarily consisted of dismantling vehicles for resale of used parts on an as needed basis. 7th Street Garage vacated the property sometime after the 2007 investigation, leaving the Site a dirt lot. During the supplemental investigation conducted in October 2008, 7th Street Garage was preparing to again occupy the Site. Site preparation consisted of trash removal (small amount of paper and plastic debris that had accumulated) and leveling of some small areas using hand shovels and rakes.

Oil well NWU31-27 is the only permanent structure located at the Site. This oil well is within lot #18 at the eastern portion of the Site. The well is owned by Warren Resources, Inc and is part of the North Wilmington Oil Field Unit (NWU). The well was installed in October 1955 to a depth of 3,610-feet below ground surface (bgs). Oil production began on October 18, 1955 with initial production of 40 barrels per day of oil and water. No other information regarding this well was obtained by Pacific Edge. The status of this well is unknown but it appears to be an idle well.

A 1950 Sanborn map shows the oil well on lot #18 and four (4) aboveground oil storage tanks (ASTs) and supporting concrete dykes. Three (3) of the former ASTs were located on Lot #'s 14, 15, and 20, with the remaining AST located on lot #2 of the adjacent property. There is no current visual evidence of the ASTs or the concrete dykes. A copy of the 1950 Sanborn Map is included as Appendix A.

Figure 2 presents an aerial photograph of the Site and illustrates the approximate location of the lots, oil well, and ASTs. It should be noted that stored vehicles shown on Figure 2 does not represent actual Site conditions during the initial investigation in October 2007 or the supplemental investigation in October 2008.

1.2 OCTOBER 2007 INVESTIGATION

During the 2007 investigation, a total of twelve (12) borings identified as GS1 through GS12 were advanced using a Geoprobe. Boring locations are depicted on Figure 2.

At each boring location, temporary soil gas probes were installed at a depth of 5-feet below ground surface (bgs) for the collection of soil gas samples. Soil samples were also collected at each boring location at the depths of 0.5-, 2.5-, and 5.5-feet bgs. Groundwater was not encountered during the advancement of any soil borings.

Soil and soil gas samples were analyzed for Volatile Organic Compounds (VOCs). Soil samples were also analyzed for one or more of the following:

- Total Petroleum Hydrocarbons (C7-C44)
- CAM Metals
- Organochlorine Pesticides (OCPs)
- Polychlorinated Biphenyls (PCBs)
- Semi-Volatile Organic Compounds (SVOCs)

1.2.1 VOCs in Soil Gas

Several VOCs were detected at low concentrations in soil gas samples. Benzene was the only VOC that exceeded its California Human Health Screening Level (CHHSL) of 0.122 micrograms per liter (ug/L) for an industrial setting (Reference #5). Locations where benzene in soil gas exceeded its industrial CHHSL included GS1 (0.539 ug/L), GS2 (0.984 ug/L), and GS4 (0.174 ug/L).

1.2.2 VOCs in Soil

Benzene was not detected in any soil sample analyzed for VOCs. Toluene, Ethanol, Bromoform, and p/m-Xylene were the only VOCs detected in soil. Toluene was detected in four (4) samples at low concentrations. The highest toluene concentration of 1.3 ug/L was detected at the depth of 5.5-feet bgs in GS9 located in Lot #15 near the former oil ASTs. Xylene (p/m) was detected in one (1) sample, with a concentration of 1.8 ug/L in boring GS10 located in Lot #14. Ethanol was detected in one (1) sample, with a concentration of 540 ug/L in boring GS3 located in Lot #19. Bromoform was detected in one (1) sample, with a concentration of 8.9 ug/L in boring GS7 located in the center of the Site (formerly an extension of Lansing Avenue). Because CHHSL values are not provided for VOCs in soil, detected VOC concentrations were compared to their Preliminary Remediation Goal (PRG) for industrial soil (Reference #4). Detected VOC concentrations did not exceed their respective PRG for industrial soil.

1.2.3 TPH in Soil

Total Petroleum Hydrocarbons (TPH) was detected in all soil samples analyzed, with the exception of samples collected at Geoprobe location GS1. Total TPH (C7-C44) concentrations exceeding 1,000 milligrams per kilogram (mg/kg) included the following locations:

- GS3 (1,300 mg/kg) at a depth of 2.5-feet in Lot #19
- GS6 (4,400 mg/kg) at a depth of 0.5-feet in the center lot
- GS7 (13,000 mg/kg) at a depth of 0.5-feet in the center lot
- GS8 (4,700 mg/kg) at a depth of 0.5-feet in Lot #16

- GS8 (6,700 mg/kg) at a depth of 2.5-feet in Lot #16
- GS9 (13,000 mg/kg) at a depth of 0.5-feet in Lot #15 near the former oil ASTs
- GS9 (30,000 mg/kg) at a depth of 2.5-feet in Lot #15 near the former oil ASTs
- GS10 (4,100 mg/kg) at a depth of 2.5-feet in Lot #14

TPH was detected at a concentration of 250 mg/kg or less throughout the remainder of the Site.

1.2.4 SVOCs in Soil

Bis (2-ethylhexyl) Phthalate and Phenol were the only SVOCs detected in soil. Bis (2-ethylhexyl) Phthalate was detected in two (2) samples at the depth of 2.5-feet in borings GS8 and GS10 at concentrations of 2.2 mg/kg and 2.0 mg/kg, respectively. Phenol was detected in ten (10) samples at the depth of 2.5-feet. The highest Phenol concentration was detected in GS6 at 2.8 mg/kg. CHHSL values have not been established for these SVOCs. Therefore, detected SVOC concentrations were compared to their industrial PRG value. Detected SVOC concentrations did not exceed their respective PRG for industrial soil.

1.2.5 OCPs in Soil

DDT was the only OCP detected in soil. DDT was detected in borings GS4 and GS5 at the depth of 2.5-feet at concentrations of 5.2 micrograms per kilogram (ug/kg) and 5.9 ug/kg, respectively. DDT did not exceed the industrial CHHSL of 6,300 ug/kg.

1.2.6 PCBs in Soil

PCB analysis was performed on all samples collected at a depth of 0.5-feet bgs. Aroclor-1248 was detected in one (1) sample, GS7, at a concentration of 1,800 ug/kg, which exceeded the industrial CHHSL of 300 ug/kg. Aroclor-1254 was detected in four (4) samples (GS4, GS5, GS6, and GS7). Aroclor-1254 exceeded the industrial CHHSL in the sample collected at GS7 having a concentration of 990 ug/kg.

1.2.7 Metals in Soil

Metals were detected in soil at concentrations which were considered not a concern, with the exception of arsenic, lead, and cadmium. Arsenic was detected throughout the Site at concentrations that exceeded the industrial CHHSL value. Arsenic concentrations ranged from 2.81 mg/kg to 14.4 mg/kg.

Lead was not detected above the industrial CHSSL value of 3,500 mg/kg. However, the industrial CHHSL value is above the Total Threshold Limit Concentration (TTLC) value for lead of 1,000 mg/kg as defined in Title 22, California Code of Regulations. The maximum detected lead concentration was 1,210 mg/kg located at the depth of 0.5-feet in boring GS6. The maximum detected lead concentration was the only sample that exceeded the TTLC value of 1,000 mg/kg. Nine (9) soil samples had a total lead concentration that exceeded 50 mg/kg, which is 10 times the Soluble Threshold Limit Concentration (STLC) for lead of 5 mg/kg.

Cadmium was detected in eight samples analyzed. Cadmium was not detected at a concentration above its industrial CHHSL value but was considered slightly elevated in several samples including GS6 at 0.5-feet bgs where lead exceeded the TTLC value.

2.0 SUPPLEMENTAL SUBSURFACE INVESTIGATION

Based on the October 2007 investigation results, supplemental sampling was conducted to:

- Further define the extent of TPH, VOCs, PCBs, arsenic, cadmium, and lead in soil by obtaining additional data at areas where elevated concentrations were previously detected and obtain data in areas that were not accessible during the 2007 investigation.
- Evaluate potential Polycyclic Aromatic Hydrocarbons concentrations in soil.
- Obtain additional soil gas data to verify previous results and determine the potential extent of benzene exceeding the industrial CHHSL for shallow soils. Obtain methane data due to elevated TPH concentrations in soil and the presence of an oil well on the Site.
- Evaluate groundwater for potential contamination of TPH and VOCs.

The supplemental subsurface investigation was conducted by Pacific Edge on October 30 and 31, 2008. Soil, soil gas, and grab-groundwater samples were collected from one (1) or more Geoprobe borings (G13 through G31). Hand auger borings HA1 through HA12 were also completed for collection of shallow soil samples. Soil boring logs for the supplemental investigation (2008 investigation) are included as Appendix B. Boring and hand auger locations for the 2007 and 2008 investigations are depicted on Figure 2.

2007 and 2008 investigation results were compared to the following criteria to evaluate 1) if contaminants would pose a potential health risk under the current industrial land use setting, 2) if remediation is necessary under the current industrial use, 3) if soil management measures are necessary in the event Site soils are disturbed or excavated in the future, and 3) if soil gas and groundwater warrant further action:

- Preliminary Remediation Goals (PRGs) – USEPA Region 9 (Reference #4)
- California Human Health Screening Levels (CHHSLs) – CalEPA (Reference #5)
- Soil Screening Levels - Los Angeles Regional Water Quality Control Board (Reference #6)

- Unrestricted re-use level for Total TPH (TPH $_{C6-C44}$) impacted soil (Reference #7)
- Methane Mitigation Standards – City of Los Angeles (Reference #8)
- Maximum Contaminant Levels for Drinking Water - CalEPA (Reference #9)
- California Code of Regulations (Reference #10)

2.1 FIELD METHODS

Boring and hand auger locations were selected to further assess areas where elevated contaminant concentrations were detected during the 2007 investigation, and evaluate areas that were not accessible during the 2007 investigation.

During the 2008 investigation, nineteen (19) Geoprobe borings were advanced to groundwater at approximately 10.5-feet below ground surface (bgs). A total of sixty-nine (69) soil samples were collected at the general depths of 1-, 5-, and 10-feet bgs.

An additional thirty-eight (38) soil samples were collected from twelve (12) hand auger locations. Hand auger samples were collected from the depths of 0.5-, 1-, and 2-feet bgs, with the exception of HA11 and HA12 where samples were also collected at 3-feet bgs.

Temporarily soil gas probes were installed in eight (8) of the Geoprobe borings at the depth of 5-feet bgs. Soil gas samples were collected in accordance with the joint Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board (CRWQCB) "Advisory – Active Soil Gas Investigation" guideline dated January 28, 2003 (DTSC/CRWQCB, 2003). Soil gas samples were collected using a summa canister for VOC analysis and a syringe that was immediately injected into a tedlar bag for methane analysis. Tedlar bag samples were collected first, followed by sample collection using a summa canister.

Grab-groundwater samples were collected at eleven (11) Geoprobe locations by setting a temporary stainless-steel screen from approximately 10- to 14-feet bgs.

Pacific Edge's Standard Operating Procedures (SOPs) for soil, soil gas, and grab-groundwater sampling are included as Appendix C. Encore™ test kits were utilized by the sampler in accordance with EPA Method 5035 for soil samples selected for Volatile Organic Compound (VOC) analysis.

2.2 ANALYTICAL METHODS

Soil samples were analyzed for one or more of the following:

- Total Petroleum Hydrocarbons (C6-C44) by EPA Method 8015 (M)
- Total Arsenic, Cadmium, and Lead by EPA Method 6010B
- Leachable Lead by EPA Method 6010B
- VOCs by EPA Method 5035B/8260B
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C SIM

Soil gas samples were analyzed for VOCs by EPA Method 8260 and methane by EPA Method 8015 (M).

Grab-groundwater samples were analyzed for one or more of the following:

- Total Petroleum Hydrocarbons (C6-C44) by EPA Method 8015 (M)
- VOCs by EPA Method 8260B

Soil and grab-groundwater laboratory reports and chain-of-custody documents are provided as Appendix D. Soil gas laboratory reports and chain-of-custody documents are provided as Appendix E.

2.3 SOIL RESULTS

2.3.1 TPH

An additional forty-one (41) soil samples were selected for total TPH (TPH $_{C6-C44}$) analysis during the supplemental investigation (2008 investigation). TPH $_{C6-C44}$ was detected in all soil samples except GS18 and GS23 at the depth of 10-feet bgs.

Detected TPH concentrations for both investigations were compared to the RWQCB's maximum soil screening levels (Reference #6) for soils above a non-drinking water aquifer and an unrestricted re-use criterion routinely employed by the Port of Los Angeles (Reference #7). These screening levels are:

- Gasoline (TPH $_{C4-C12}$) = 1,000 mg/kg
- Diesel (TPH $_{C13-C22}$) = 10,000 mg/kg
- Motor Oil (TPH $_{C23-C44}$) = 50,000 mg/kg
- Unrestricted re-use (TPH $_{C4-C44}$) = 1,000 mg/kg

The above screening levels were used to evaluate the need for remediation under current undisturbed Site conditions and/or if the soil can be reused if disturbed or excavated. The following summarizes TPH concentrations detected in soil during the 2007 and 2008 investigations that exceed one or more of the above screening levels:

Sample ID	Date Sampled	TPH gas C6-C12[(a)] (mg/kg)	TPH diesel C13-C22[(b)] (mg/kg)	TPH motor oil C23-C44[(c)] (mg/kg)	TPH C6-C44[(d)] (mg/kg)
GS3-2.5'	10/12/07	ND[(e)]	139.2	1,141	1,300
GS6-0.5'	10/12/07	ND	289.7	4,100	4,400
GS7-0.5'	10/12/07	ND	729	12,500	13,000

Sample ID	Date Sampled	TPH gas C6-C12[(a)] (mg/kg)	TPH diesel C13-C22[(b)] (mg/kg)	TPH motor oil C23-C44[(c)] (mg/kg)	TPH C6-C44[(d)] (mg/kg)
GS8-0.5'	10/12/07	ND	156.8	4,600	4,700
GS8-2.5'	10/12/07	520	1,018	5,180	6,700
GS9-0.5'	10/12/07	4.4	2,088	10,460	13,000
GS9-2.5'	10/12/07	486	8,700	19,600	30,000
GS10-2.5'	10/12/07	ND	351	3,830	4,100
GS25-1'	10/31/08	3.8	2,233	11,960	14,000
GS27-10'	10/31/08	1,890	8,600	10,300	21,000

(a) Sum of hydrocarbons classified to be in the carbon length range of 6 to 12.
(b) Sum of hydrocarbons classified to be in the carbon length range of 13 to 22.
(c) Sum of hydrocarbons classified to be in the carbon length range of 23 to 44.
(d) Sum of hydrocarbons classified to be in the carbon length range of 6 to 44.
(e) Not detected above laboratory reporting limit.

TPH ($_{C6-C12}$) as gasoline exceeded its screening level at a depth of 10-feet in GS27.

TPH ($_{C6-C44}$) exceeded the unrestricted re-use criterion of 1,000 mg/kg at several Site locations in addition to GS27.

Table 1 presents a comprehensive summary of all analytical results for TPH in soil. TPH ($_{C6-C44}$) concentrations are also illustrated on Figure 3.

2.3.2 VOCs

An additional thirty-eight (38) soil samples were selected for VOC analysis during the 2008 investigation. Table 2 presents a comprehensive summary of VOCs detected in soil during the 2007 and 2008 investigations.

The following presents the maximum detected VOC concentration in soil during both investigations, the location at which the maximum concentration was detected, and the number of locations the VOC was detected. A comparison to CHHSLs was not conducted because

CHHSL values for VOCs in soil have not been established. Therefore, a comparison to EPA Region IX Preliminary Remediation Goals (PRG) for an industrial setting is presented in the table below:

Location	Depth (feet bgs)	# of Detects/ # of Samples	Detected VOC	Max Detected Conc. (mg/kg)	Industrial PRG (mg/kg)
GS27	10	3/50	Benzene	0.11	5.6
GS27	10	1/50	Ethylbenzene	5.9	29
GS13	5	15/50	Toluene	0.0086	46,000
GS27	10	1/50	o-Xylene	0.14	23,000
GS10	2.5	1/50	p/m-Xylene	0.0018	19,000
GS7	2.5	1/50	Bromoform	0.0089	220
GS3	2.5	1/12	Ethanol	0.54	NA
GS27	10	1/50	Isopropylbenzene	3.5	11,000
GS27	10	1/50	Naphthalene	15	670
GS27	10	1/50	n-Butylbenzene	4.3	NA
GS27	10	1/50	n-Propylbenzene	5.7	NA
GS27	10	1/50	sec-Butylbenzene	4.2	NA

As shown above, the maximum detected VOC concentrations were significantly less than their respective industrial PRG value.

2.3.3 PAHs

A total of twenty (20) soil samples were selected for PAH analysis during the 2008 investigation. Soil samples were not analyzed for PAHs during the 2007 investigation. Table 3 presents a comprehensive summary of PAHs detected in soil during the 2008 investigation.

The following presents the maximum detected PAH concentrations in soil, the location at which the maximum concentration was detected, and the number of locations the PAH was detected. CHHSL values for the detected PAH analytes are not available. Therefore, a comparison to EPA Region IX Preliminary Remediation Goals (PRG) for an industrial setting is presented in the table below:

Location	Depth (feet bgs)	# of Detects/ # of Samples	Detected PAH	Max Detected Conc. (mg/kg)	Industrial PRG (mg/kg)
GS27	10	1/20	Acenaphthene	1.2	33,000
GS20	1	1/20	Chrysene	0.023	210
GS27	10	1/20	Fluorene	1.6	22,000
GS27	10	1/20	1-Methylnaphthalene	17	99
GS27	10	2/20	2-Methylnaphthalene	26	4,100
GS27	10	2/20	Naphthalene	8.3	670
GS20	1	1/20	Pyrene	0.029	17,000

As shown above, the maximum detected PAH analyte concentrations were significantly less than their respective industrial PRG value.

2.3.4 Arsenic, Cadmium & Lead

Arsenic, cadmium, and lead were identified as metals of potential concern based on the 2007 investigation results. During the 2008 investigation, samples were selected for analysis of total arsenic, cadmium, and lead. Additionally, ten (10) samples were selected for soluble lead analysis.

Arsenic, cadmium, and lead concentrations were compared to their industrial CHHSL value. Lead was also compared to its Total Threshold Limit Concentration (TTLC) and/or its Soluble Threshold Limit Concentration (STLC) as defined in Title 22, California Code of Regulations.

2.3.4.1 Arsenic

A total of sixty-four (64) samples were analyzed for total arsenic during both investigations. Arsenic did not exceed its TTLC value of 500 mg/kg. Arsenic did exceed its industrial CHHSL value of 0.24 mg/kg in all samples. It is common for background or ambient arsenic levels to exceed the industrial CHHSL value.

Detected arsenic concentrations ranged from 1.74 mg/kg to 105 mg/kg. In fifty-nine (59) samples the arsenic concentration ranged from 1.74 mg/kg to 9.05 mg/kg and this range indicates

a distribution that likely represents Site background/ambient levels for arsenic. The following arsenic concentrations are greater than the presumed Site background range:

Sample ID	Depth (feet bgs)	Arsenic (mg/kg)
GS3	2.5	14.4
GS9	0.5	12.0
GS24	0.5	59.3
GS24	1	105.0
GS29	0.5	65.3

2.3.4.2 Cadmium

A total of seventy-two samples (72) were analyzed for total cadmium during both investigations. Cadmium was detected in forty-five (45) samples and ranged in concentrations from 0.56 mg/kg to 11.7 mg/kg. Cadmium did not exceed its TTLC value of 100 mg/kg. Cadmium did exceed its industrial CHHSL value of 7.5 mg/kg in three (3) samples as follows:

Sample ID	Depth (feet bgs)	Cadmium (mg/kg)
GS22	1	11.1
GS31	0.5	8.55
HA3	1	11.7

2.3.4.3 Lead

Eighty-three (83) samples were analyzed for total lead during both investigations. Total lead exceeded its TTLC value of 1,000 mg/kg in four (4) samples and include:

Sample ID	Depth (feet bgs)	Total Lead (mg/kg)
GS6	0.5	1,210
GS22	1	1,180
HA5	0.5	1,110

Sample ID	Depth (feet bgs)	Total Lead (mg/kg)
HA8	1	1,550

Ten (10) samples that did not exceed the TTLC for lead but were 10 times the STLC value (50 mg/kg) were subsequently analyzed for soluble lead. Of these ten (10) samples, eight (8) samples exceeded the STLC value for lead of 5 mg/L and include the following:

Sample ID	Depth (feet bgs)	Soluble Lead (mg/L)
GS22	0.5	16.6
GS28	0.5	24.9
GS29	0.5	5.31
GS30	0.5	65.9
HA3	0.5	15.5
HA4	0.5	26.8
HA4	1	40.7
HA6	1	75.1

It should be noted that an additional thirty-one (31) samples with a total lead concentration exceeding 10 times the STLC were not analyzed for soluble lead.

Table 4 presents a comprehensive summary of all metals detected in soil during both investigations. Arsenic, cadmium, and lead concentrations are also depicted on Figure 4.

2.3.5 PCBs

A total of fifty-seven (57) samples were analyzed for PCBs during both investigations. Aroclor-1248 and/or Aroclor-1254 were detected in twenty-one (21) of these samples. Both Aroclor-1248 and Aroclor-1254 exceeded the industrial CHHSLs of 0.3 mg/kg. The following presents a summary of locations where Aroclor-1248 and/or Aroclor-1254 exceeded the industrial CHHSL:

Location	Depth (feet bgs)	PCB	Detected Concentration above Industrial CHHSL (0.3 mg/kg)
GS7	0.5	Aroclor-1248 Aroclor-1254	1.8 0.99
GS18	0.5	Aroclor-1248 Aroclor-1254	0.3 0.34
GS22	1	Aroclor-1248 Aroclor-1254	2.1 1.1
GS23	0.5	Aroclor-1248 Aroclor-1254	1.6 0.59
GS30	0.5	Aroclor-1248 Aroclor-1254	4.4 <0.5
GS31	0.5	Aroclor-1248 Aroclor-1254	33 <5.0
GS31	1	Aroclor-1248 Aroclor-1254	0.32 <0.05
HA6	0.5	Aroclor-1248 Aroclor-1254	0.44 0.32
HA7	1	Aroclor-1248 Aroclor-1254	<0.25 2.1
HA8	0.5	Aroclor-1248 Aroclor-1254	1.9 0.85
HA8	1	Aroclor-1248 Aroclor-1254	0.54 <0.05

A complete summary of PCBs detected in soil during both investigations is presented as Table 5. Detected Aroclor-1248 and Aroclor-1254 concentrations are also illustrated on Figure 5.

2.4 SOIL GAS RESULTS

A total of twelve (12) shallow (5-feet bgs) soil gas probes were installed during the 2007 investigation and eight (8) shallow soil gas probes were installed in select Geoprobe borings during the 2008 investigation.

2.4.1 VOCs

The following presents the maximum detected VOC concentrations, the location at which the maximum concentration was detected, and the number of locations the VOC was detected. Additionally, the maximum VOC concentration is compared to its industrial CHHSL value:

Location	Depth (feet bgs)	# of Detects/ # of Locations	Analyte	Max Detected Conc. (µg/L)	Industrial CHHSL (µg/L)
GS2	5	3/20	Benzene	0.984	0.122
GS27	5	3/20	Ethylbenzene	1.64	NA
GS2	5	8/20	Toluene	6.55	378
GS2	5	3/20	Xylenes	3.43	87.9
GS27	5	1/20	sec-Butylbenzene	0.155	NA
GS27	5	1/20	Isopropylbenzene	0.783	NA
GS27	5	1/20	n-Propylbenzene	0589	NA
GS27	5	2/20	1,3,5-Trimethylbenzene	0.783	NA
GS2	5	11/12	Gasoline Range Organics	39.0	NA

Benzene is the only VOC with a soil gas concentration that exceeds its industrial CHHSL. Benzene exceeded the industrial CHHSL value of 0.122 ug/L at three (3) locations, GS1, GS2, and GS4. These locations are located on the eastern portion of the Site.

Table 6 presents a complete summary of all VOCs detected in soil gas during both investigations. VOC concentrations are also depicted on Figure 6.

2.4.2 Methane

Soil gas samples collected during the 2007 investigation were not analyzed for methane. During the 2008 investigation, methane was detected in three (3) of the eight (8) soil gas samples as follows:

- GS16 @ 10.8 ppmv
- GS25 @ 13.5 ppmv
- GS27 @ 7,580 ppmv

The highest methane concentrations (GS25 and GS27) were detected near the former ASTs located on the western portion of the Site where the highest TPH concentrations were detected in soil and groundwater. The methane concentration of 7,580 ppmv at GS27 exceeds the City of Los Angeles Building and Safety Department's standard for new building construction. Table 7 presents a summary of methane results. Methane concentrations are also depicted on Figure 7.

2.5 GRAB-GROUNDWATER RESULTS

Grab-groundwater samples were not collected during the 2007 investigation. Twelve (12) grab-groundwater samples were collected from select Geoprobe locations during the 2008 investigation. The depth to groundwater was observed to be approximately 10.5- to 12-feet bgs.

Of note is an oil sheen observed on the surface of the grab-groundwater sample collected from sample GS27. GS27 is located at the former ASTs on the western portion of the Site. The highest TPH concentrations in soil and methane concentrations in soil gas were detected at this former ASTs location.

2.5.1 TPH

The following summarizes TPH concentrations in grab-groundwater samples:

Sample ID	Date Sampled	TPH gas C6-C12[(a)] (ug/L)	TPH diesel C13-C22[(b)] (ug/L)	TPH motor oil C23-C44[(c)] (ug/L)	Total TPH C6-C44[(d)] (ug/L)
GS13	10/30/08	275	166	245	690
GS15	10/30/08	24.5	207	431	660
GS16	10/30/08	49.6	95.8	161.5	310
GS19	10/30/08	13.2	29.8	94	140
GS20	10/30/08	13.9	36.2	109.5	160
GS21	10/30/08	19	60.2	108.4	190
GS22	10/30/08	22.7	263.7	330.6	620
GS23	10/30/08	16.6	53.8	113.3	180
GS25	10/31/08	47.1	371	355	780
GS26	10/31/08	ND[(e)]	64	196.4	260
GS27	10/31/08	759	19,600	13,580	34,000
GS30	10/31/08	ND	14.7	84.1	98

(a) Sum of hydrocarbons classified to be in the carbon length range of 6 to 12.
(b) Sum of hydrocarbons classified to be in the carbon length range of 13 to 22.
(c) Sum of hydrocarbons classified to be in the carbon length range of 23 to 44.
(d) Sum of hydrocarbons classified to be in the carbon length range of 6 to 44.

(e) Not detected above laboratory reporting limit.

Table 8 presents a complete summary of all analytical results for TPH in groundwater. Detected concentrations expressed as TPH ($_{C6-C44}$) are also illustrated on Figure 8.

2.5.2 VOCs

The following presents the maximum detected VOC concentrations in grab-groundwater samples, the location at which the maximum concentration was detected, and the number of locations the VOC was detected. Additionally, the maximum VOC concentration is compared to the primary Maximum Contaminant Level (MCL) for drinking water, although underlying groundwater is classified as a de-designated use aquifer:

Location	# of Detects/ # of Locations	VOC	Max Detected Conc. (µg/L)	Primary MCL (µg/L)
GS27	1/12	Benzene	0.64	1
GS27	1/12	Ethylbenzene	1.1	300
GS27	2/12	Isopropylbenzene	15	none
GS27	1/12	Naphthalene	29	none
GS27	2/12	n-Butylbenzene	4.1	none
GS27	2/12	n-propylbenzene	16	none
GS25	1/12	MTBE	1.4	13
GS27	2/12	Sec-Butylbenzene	6.3	none
GS20	3/12	c-1,2-Dichloroethene	4.5	6
GS20	1/12	t-1,2-Dichloroethene	1.5	10
GS20	1/12	Trichloroethene	2.8	5

None of the detected VOCs exceed the primary MCL for drinking water. The majority of the VOCs and their maximum concentrations were detected at GS27, which is located at the former ASTs on the western portion of the Site. This former AST area is also where the highest TPH concentrations in soil and grab-groundwater were detected and the highest methane concentration detected in soil gas.

Table 9 presents a summary of all VOCs detected in groundwater. VOC concentrations are also depicted on Figure 6.

3.0 CONCLUSIONS

It is Pacific Edge's opinion that potential contaminant sources at the Site include the following:

- The historic ASTs and activities related to their operation.
- Release(s) of vehicle fluids and from salvage operations conducted at the Site by the current tenant or past tenants conducting similar activities.
- Off-site source(s) for some groundwater contaminants (such as PCE, MTBE, and gasoline).

The following discussion presents the rationale for the above conclusions.

3.1 SOIL

3.1.1 TPH

Total TPH (TPH $_{C6-C44}$) was detected above the laboratory reporting limit in forty-two (42) of sixty-five (65) soil samples. Review of the data suggests more than one (1) source and/or release of TPH at the Site, with the highest concentrations at or in close proximity of the former ASTs on the western portion of the Site.

Diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-44}$) comprise approximately 90% or greater of the total TPH ($_{C6-C44}$) detected in Site soils. Gasoline (TPH $_{C4-C12}$) concentrations were negligible compared to diesel and motor oil concentrations, with the exception of sample GS27 at 10-feet bgs where gasoline accounted for approximately 9% of the total TPH detected.

Diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-44}$) concentrations did not exceed the RWQCB's maximum screening levels for soil above a non-drinking water aquifer.

Soil sample GS27 at 10-feet bgs is the only sample that reported a gasoline (TPH $_{C4-C12}$) concentration (1,890 mg/kg) exceeding the RWQCB's maximum screening level of 1,000

mg/kg. Shallower soil samples collected at 1-foot and 5-feet bgs in GS27 showed negligible gasoline concentrations of 1.24 mg/kg and 0.22 mg/kg, respectively. Given that groundwater was observed to be at approximately 10.5-feet bgs and gasoline (TPH $_{C4-C12}$) was also detected in grab-groundwater samples across the Site, it is likely that the high gasoline concentration in soil at GS27 at 10-feet bgs is within the capillary fringe/smear zone and a result of gasoline in groundwater.

Site soils have also been impacted with total TPH $_{C6-C44}$ concentrations above the unrestricted reuse criterion of 1,000 mg/kg at several locations in addition to the former ASTs location. Based on Site data, it is reasonable to conclude that sources for TPH in soil include the former ASTs on the western portion of the Site and unrelated releases most likely caused by the salvaging of automobiles, boats, and recreational vehicles by the current or past tenant conducting similar activities.

3.1.2 VOCs

A total of fifty (50) soil samples have been analyzed for VOCs. Low VOC concentrations were detected in eighteen (18) of the fifty (50) soil samples. All detected VOCs are concomitant with TPH, with benzene and toluene the only VOCs detected in more than one (1) sample. Benzene was detected in three (3) samples and highest concentration detected was 0.11 mg/kg in GS27 at 10-feet bgs. Toluene was detected in fifteen (15) samples and the highest concentration detected was 0.0086 mg/kg in GS13 at 5-feet bgs.

All maximum detected VOC concentrations were significantly less than their respective industrial PRG value, indicating no further action under the current industrial use is warranted with regard to VOCs in soil.

3.1.3 PAHs

A total of twenty (20) soil samples have been analyzed for PAHs. Low concentrations of several PAHs were detected in two (2) soil samples, GS20 at 1-foot bgs and GS27 at 10-feet bgs.

All maximum detected PAH concentrations were significantly less than their respective industrial PRG value, indicating no further action under the current industrial use is warranted with regard to PAHs in soil.

3.1.4 Metals

Arsenic, cadmium, and lead were identified as potential metals of concern based on the 2007 investigation results.

3.1.4.1 Arsenic

Sixty-four (64) samples were analyzed for total arsenic with all samples having concentrations that exceed the industrial CHHSL value of 0.24 mg/kg. Published human health screening levels are frequently lower than natural background levels for arsenic. Arsenic is not considered a chemical of potential concern requiring action if ambient or background concentrations exceed published health screening levels.

Detected arsenic concentrations ranged from 1.74 mg/kg to 105 mg/kg. In fifty-nine (59) samples the arsenic concentration ranged from 1.74 mg/kg to 9.05 mg/kg and this range indicates a distribution that likely represents Site background levels for arsenic. The remaining five (5) samples are considered to have elevated arsenic concentrations above the presumed background/ambient range. Elevated arsenic concentrations ranged from 12 mg/kg to 105 mg/kg.

3.1.4.2 Cadmium

Seventy-two (72) samples were analyzed for total cadmium. Cadmium was detected in forty-five (45) samples and ranged in concentration from 0.56 mg/kg to 11.7 mg/kg.

Cadmium exceeded its industrial CHHSL at three (3) sample locations.

3.1.4.3 Lead

Eighty-three (83) samples were analyzed for total lead and ten (10) samples were analyzed for soluble lead. Total lead did not exceed its industrial CHHSL value of 3,500 mg/kg. Total lead

exceeded its TTLC value of 1,000 mg/kg at four (4) sample locations. Of the ten (10) samples tested for soluble lead, eight (8) samples exceeded the STLC value of 5 mg/kg. Thirty-six (36) additional samples, which were not tested for soluble lead, had total lead concentrations exceeding 50 mg/kg, or 10 times the STLC.

3.1.5 PCBs

Fifty-seven (57) samples were analyzed for PCBs. Aroclor-1248 and Aroclor-1254 were the only PCBs detected. Aroclor-1248 and Aroclor-1254 were detected in twenty-one (21) samples, with concentrations exceeding the industrial CHHSL value of 0.3 mg/kg in eleven (11) samples.

3.2 SOIL GAS

Twenty (20) soil gas probes were installed at 5-feet bgs to collect shallow soil gas samples for VOC and methane analysis.

3.2.1.1 VOCs

Several VOCs were sporadically detected at the Site. The detected VOCs are concomitant with TPH and fuels. Benzene is the only VOC detected above its industrial CHHSL value for shallow soils.

The industrial CHHSL value represents a shallow soil gas concentration that is protective of indoor air by intrusion. Since buildings are not currently present at the Site, no further action is deemed warranted with respect to soil gas. If buildings are constructed at the Site in the future, additional soil gas investigation or appropriate mitigation measures should be considered.

3.2.1.2 Methane

Methane was detected at three (3) soil gas sample locations. Two (2) locations, GS16 and GS25 indicated low methane concentrations of 10.8 ppmv and 13.5 ppmv. At location GS27 where high TPH concentrations in soil were detected the methane concentration was 7,580 ppmv.

Per the City of Los Angeles Methane Code, a methane concentration of 7,580 ppmv would require further investigation and possible mitigation measures for new building construction.

Since buildings are not currently present at the Site, no further action is deemed warranted with respect to methane. Additionally, removal of TPH impacted soil at in the vicinity of the former ASTs near GS9 and GS27 would likely mitigate methane concentrations below levels of concern for construction of buildings over the former ASTs area.

3.3 GRAB-GROUNDWATER

Twelve (12) grab-groundwater were collected from randomly selected Geoprobe borings and analyzed for TPH and VOCs.

3.3.1 TPH

Total TPH (TPH $_{C6-C44}$) was detected in all samples at relatively low concentrations with the exception of GS27 where the total TPH concentration of 34,000 ug/L was detected. GS27 is located at the former ASTs on the western portion of the Site. A free product sheen was observed on the grab-groundwater sample collected GS27. Based on the elevated total TPH concentration and a sheen observed on sample GS27, the potential exists for a free floating product plume at the former ASTs.

With the exception of grab-groundwater sample GS13, diesel (TPH $_{C13-C22}$) and motor oil (TPH $_{C23-C44}$) were the predominant TPH contaminant.

At GS13, gasoline was the predominant portion of total TPH (40% gasoline), with diesel (24%) and motor oil (36%) comprising the remainder of the total TPH detected. This distribution is noticeably different than other locations where diesel and motor oil comprised 84% to 96% of the total TPH detected. Total TPH was not detected in soil samples collected at 5-feet and 10-feet bgs in GS13. Gasoline (TPH $_{C6-C12}$) was not detected in the 5-foot soil sample at GS13. A low gasoline concentration of 0.31 mg/kg was detected in soil at the 10-foot depth in GS13. This sample is likely within the capillary fringe/smear zone.

The TPH carbon distribution in grab-groundwater samples suggests that gasoline is the predominant TPH contaminant at GS13 and a mix of diesel and motor oil is the predominant

contaminants at all other locations. Given that 1) total TPH concentrations in soil at GS13 were not detected, 2) gasoline (at a low concentration) was only detected in the soil sample collected at 10-feet bgs, and 3) GS13 is located at the northeastern property boundary, it is possible that an off-site source is contributing to groundwater contamination at the Site. On-site sources for TPH groundwater contamination include the former ASTs on the western portion of the Site and unrelated releases most likely caused by the salvaging of automobiles, boats, and recreational vehicles by the current or past tenant conducting similar activities.

3.3.2 VOCs

VOCs were not detected in the majority of grab-groundwater samples. Several VOCs concomitant with TPH and fuels were detected at low concentrations in samples collected at the former ASTs on the western portion of the Site. These VOCs were detected at concentrations below their respective MCL for drinking water. Of particular note is MTBE which was detected at a low concentration of 1.4 ug/L grab-groundwater sample GS25. MTBE was not detected in any other groundwater sample or any soil sample. This suggests a relatively recent release (post ASTs) and could be the result of current or past salvage operations at the Site or an off-site release to the west.

Non TPH related VOCs detected include trichloroethene (TCE), c-1,2-dichloroethene (cis-DCE, and t-1,2-dischloroethene (trans-DCE). These VOCs were also detected at concentrations below their respective MCL for drinking water. These VOCs were detected in grab-groundwater sample GS20 only which is located on the southeastern portion of the Site, with the exception of cis-DCE which was also detected at low concentrations in sample GS19 and GS20. TCE, cis-DCE, and trans-DCE were not detected in any soil sample. The decomposition of TCE in the environment results in the daughter products cis-DCE and trans-DCE, and this is likely the case at the Site. Therefore, the source of TCE in one (1) groundwater sample near the southeastern Site border and the absence of TCE, cis-DCE, and trans-DCE in Site soil samples suggest a potential off-site source.

3.4 CONTAMINANT MANAGEMENT MEASURES

Figure 10 (upper 2-feet of soil) and Figure 11 (greater than 2-feet bgs) illustrate the estimated soil areas impacted by contaminants that exceed the following screening levels. As with any subsurface investigation these estimated areas can expand or shrink and result in other conclusions by conducting additional sampling to better define the vertical and horizontal extent.

- Total TPH (TPH $_{C6\text{-}C44}$) concentrations above the 1,000 mg/kg unrestricted reuse criterion.
- Lead concentrations that exceed the TTLC or STLC values.
- PCB concentrations that exceed the industrial CHHSL value.
- Arsenic concentrations that exceed the industrial CHHSL value and presumed maximum background concentration.
- Cadmium concentrations that exceed the industrial CHHSL value.

Disturbance or excavation of TPH impacted areas (Figures 10 and 11) should not be reused. If this TPH soil is excavated in the future, it should be managed for disposal at an appropriate landfill or recycling facility.

Disturbance or excavation of lead impacted areas (Figures 10 and 11) should not be reused due to existing hazardous concentrations. If these lead impacted soil areas are excavated, soils should be managed as a hazardous waste in accordance with all appropriate regulations.

PCB, arsenic, and cadmium impacted areas shown on Figures 10 and 11 exceed their respective industrial CHHSL values. The industrial CHHSL value is the maximum concentration in soil that is considered protective of human health under an industrial setting. Exceeding an industrial CHHSL value does not mean that an unacceptable human health risk exists, but that further action is warranted. Further action can include additional sampling, a site specific risk assessment, or mitigation. Therefore, appropriate actions for the identified areas may consist of some or all of the following: 1) a risk assessment to determine the site specific potential risk to

human health, or 2) covering the impacted area to eliminate the potential exposure pathway, or 3) removal of impacted soil from the Site.

If future Site development includes construction of building, soil gas and methane mitigation measures may be necessary on portions of the Site. If buildings are constructed on the Site, further assessment of soil gas and methane conditions should be undertaken at that time to evaluate the need for mitigation measures.

Possible free floating product on groundwater may be present in the area of the former ASTs. Installation of groundwater monitoring wells is one method to evaluate if free floating product is present. Groundwater monitoring wells could also be installed to monitor contaminant levels at the Site and assess the potential for off-site sources contributing to groundwater contamination.

The presence of the oil well at the Site will present special constraints for construction of any buildings near or over the well in the future. The regulatory requirements will include, but may not be limited to, those defined by the California Division of Oil, Gas, and Geothermal Resources.

4.0 REFERENCES

1. Pacific Edge Engineering, Inc., December 2007. Draft *Subsurface Investigation Report – 7th Street Garage, 1510/1520 East I Street, Wilmington, California.*

2. State of California, The Resources Agency, Department of Water Resources, Southern District, September 2001. *Watermaster Service in the West Coast Basin, Los Angeles County*.

3. Pacific Edge Engineering, Inc., October 3, 2007. *Draft Phase I Environmental Site Assessment (ESA) – 7th Street Garage, 1510/1520 East I Street, Wilmington, California.*

4. U.S. Environmental Protection Agency, Region 9, September 2008. *Preliminary Remediation Goals (PRGs).*

5. California Environmental Protection Agency, January 2005. *Use of California Human Health Screening Levels (CHHSL) in Evaluation of Contaminated Properties.*

6. California Regional Water Quality Control Board – Los Angeles Region, May 1996. *Interim Site Assessment & Cleanup Guidebook.*

7. Tetra Tech Inc., April 2004. *Phase II Soil, Soil Gas, and Groundwater Report, Port of Los Angeles C&M Yard, 500 Pier A Street, Los Angeles, California.*

8. City of Los Angeles Department of Building and Safety, www.ladbs.org/rpt_code_pub/methane.htm. *Methane Mitigation Standards.*

9. State of California, January 23, 2009. Maximum Contaminant Levels (MCLs), *California Code of Regulations, Title 22, Division 4, Chapter 15.*

10. State of California, July 20, 2005. TTLC and STLC, *California Code of Regulations, Title 22, Division 4.5, Chapter 11. Article 3, Table II*

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5.0 LIMITATIONS

This document is prepared for the sole use and benefit of the Port of Los Angeles (POLA). Neither this report, nor any information contained herein, shall be used or relied upon by any person other than the POLA. The responsibility for making any disclosures or reports to any third party and for taking a corrective, remedial, or mitigative action shall be solely that of the POLA.

Our judgments and conclusions in this report are based upon the analytical data and information acquired during this investigation and our experiences on similar projects. It is possible that variations in surface and subsurface conditions exist beyond the points explored in this limited soil investigation. Further, changes in subsurface conditions found could occur at some time in the future due to variations in rainfall, temperature, land use (both on-site and off-site), or other factors. These changes can affect the behavior of materials and contaminants in soil and groundwater.

The data obtained from the collected samples does not preclude the presence of other chemical materials at the site that may or may not be considered chemical of concern. Further, changes in applicable regulatory standards periodically occur as a result of legislative actions and/or studies. This may result in the findings of this report being invalidated, wholly or in part, by changes beyond our control.

Opinions and judgments expressed within this report are bases upon our understanding and interpretation of current regulatory standards and should not be used as legal opinions. The services provided for this project have been performed in accordance with the Scope of Work and the contract between Pacific Edge Engineering, Inc. and the POLA. The services performed have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in Southern California. Pacific Edge Engineering, Inc. makes no warranty, expressed or implied.

Figures

Figure 1 - Site Loaction Map

LEGEND

- △ = Oil Well
- ● = Hand Auger Location - Oct 2008
- ⊕ = Soil & Soil Gas Sample Locations - Oct 2007
- ⊕ = Soil Sample Location - Oct 2008
- ◑ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- 0.5' 1.0' 2.5' 5.0' 10.0' = Total TPH (C6-C44) in soil (mg/kg) at 0.5', 1', 2.5', 5' and 10'.
- NS = Indicates not sampled at this depth
- ▭ = TPH (C6-C44) concentration above 1,000 mg/kg.

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FIGURE 3
TPH (C6-C44) CONCENTRATIONS
IN SOIL (mg/kg)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
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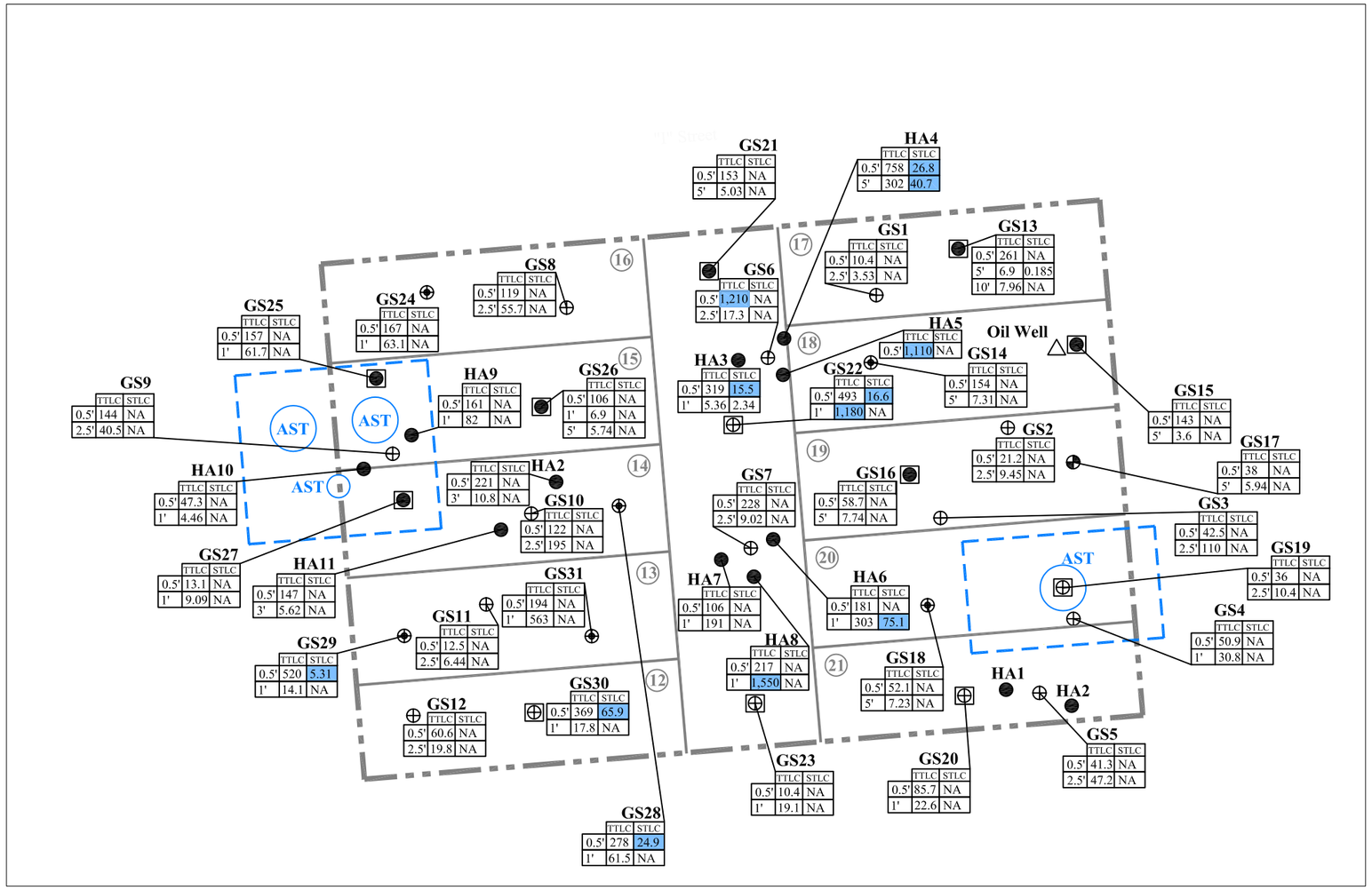

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- ◑ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- — — — = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- TTLC STLC 0.5' 758 26.8 = 758 mg/kg & 26.8 mg/L at 0.5' bgs .
- NA = Not Analyzed
- = Lead concentration above the TTLC or STLC

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FIGURE 4
LEAD CONCENTRATIONS IN SOIL

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
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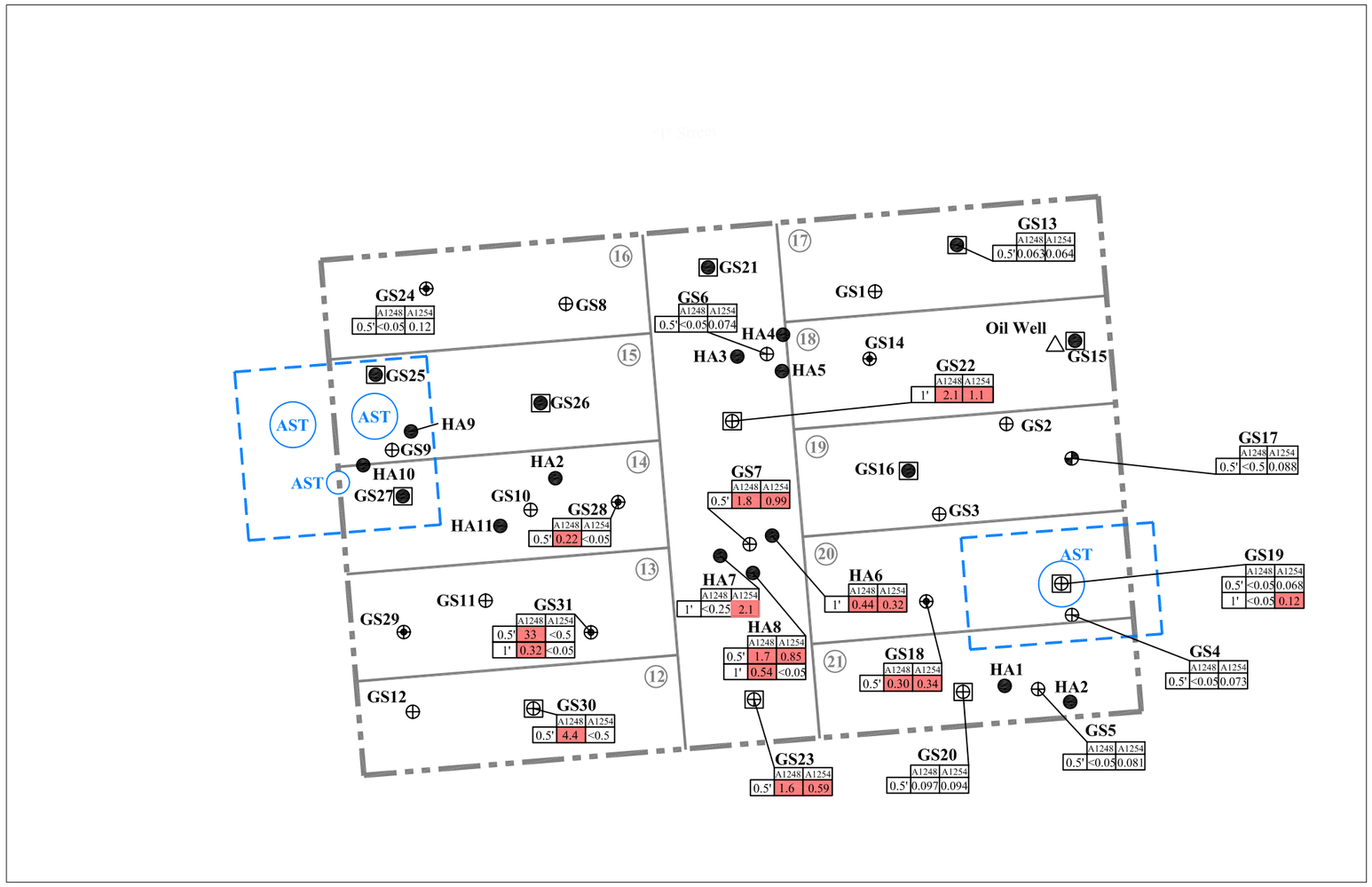

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- ⊕ = Soil Sample Location - Oct 2008
- ◒ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- 1' | A1248 2.1 | A1254 1.1 = Aroclor-1248 concentration of 2.1 mg/kg & Aroclor-1254 concentration of 1.1 mg/kg at 1'.
- NA = Not Analyzed
- = PCB concentration above the Industrial CHHSL value of 0.3 mg/kg.

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FIGURE 5
PCB CONCENTRATIONS IN SOIL

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
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FILE NAME:	2659/PD15/FIGURES/FIG3		

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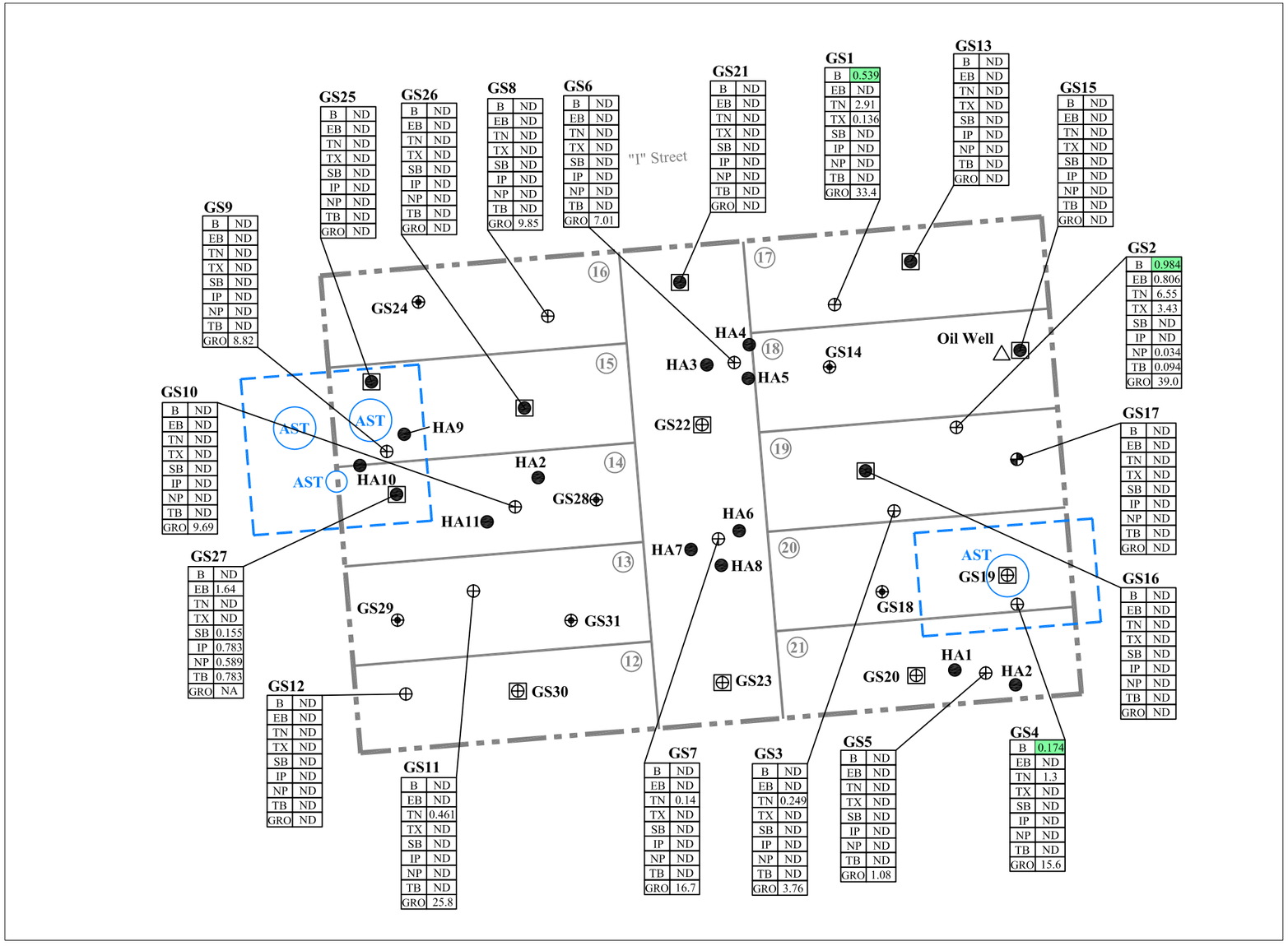

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- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- NA = Not Analyzed
- ND = Not Detected
- = Benzene concentration above the Industrial CHHSL value of 0.122 mg/L for shallow soil gas.
- B = Benzene
- EB = Ethlybenzene
- TN = Toluene
- TX = Total Xylenes
- SB = sec-Butylbenzene
- IP = Isopropylbenzene
- NP = n-Propylbenzene
- TB = 1,3,5-Trimethylbenzene
- GRO = Gasoline Range Organics (note: GRO only analyzed for samples GS1 through GS12)

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FIGURE 6
VOC CONCENTRATIONS IN
SHALLOW SOIL GAS (5-FEET BGS)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
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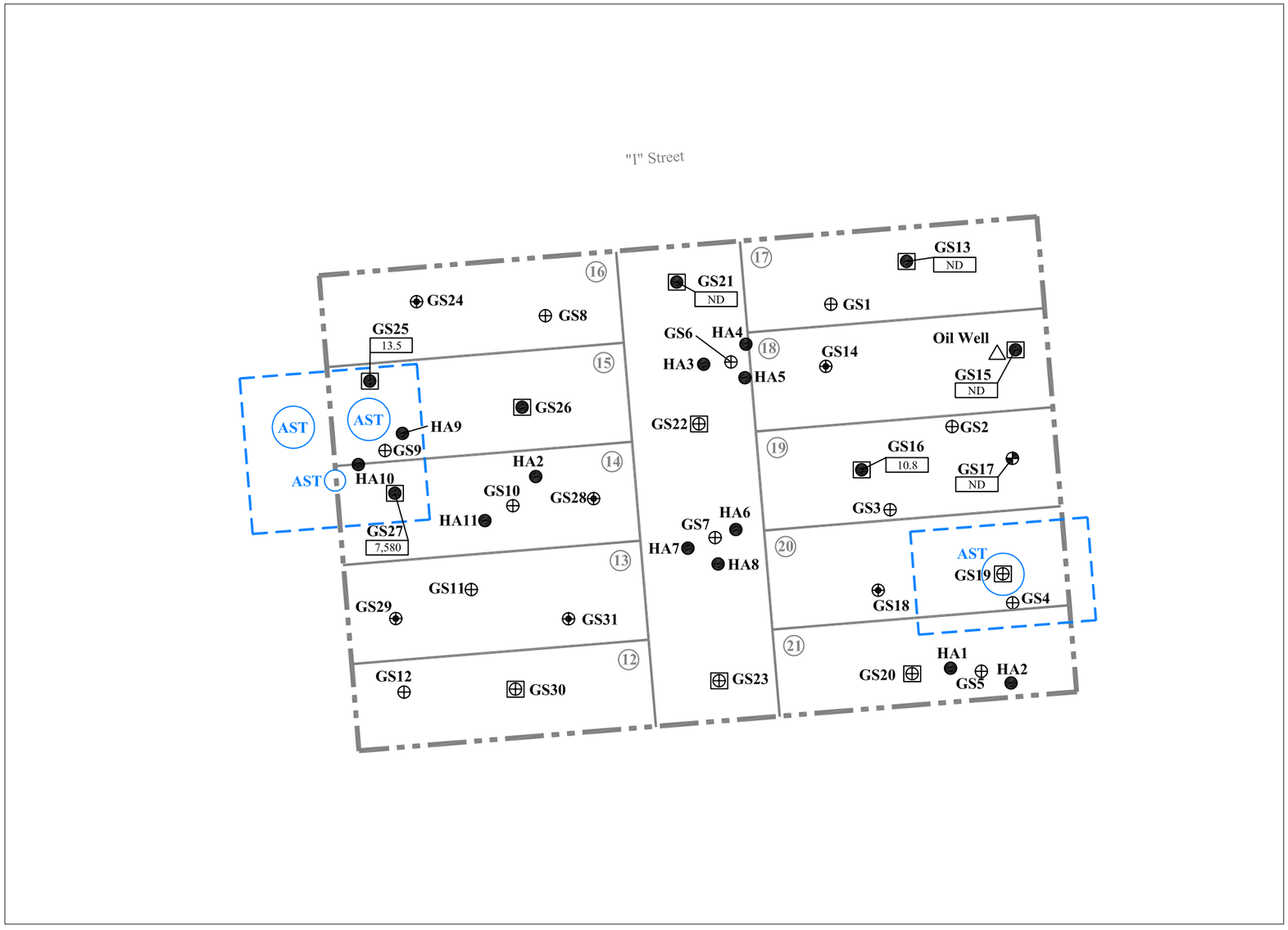

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- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ⊕ = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- 10.8 = Methane concentrations in parts per million by volume (ppmv).

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FIGURE 7
METHANE CONCENTRATIONS IN
SHALLOW SOIL GAS (5-FEET BGS)

DATE:	1/27/09	SCALE:	~1" = 50'
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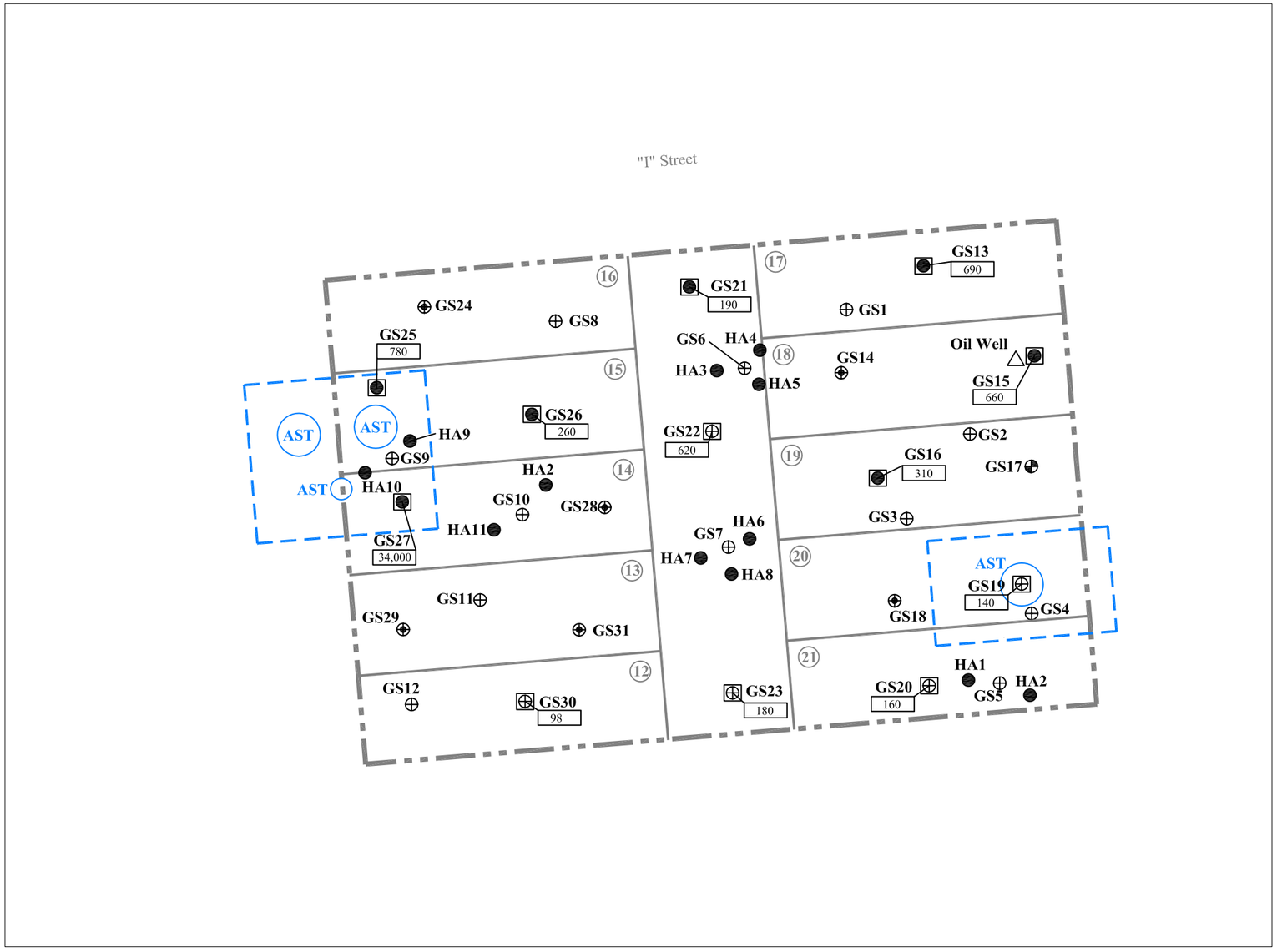

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- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- 140 = Total TPH concentrations in micrograms per liter (ug/l).

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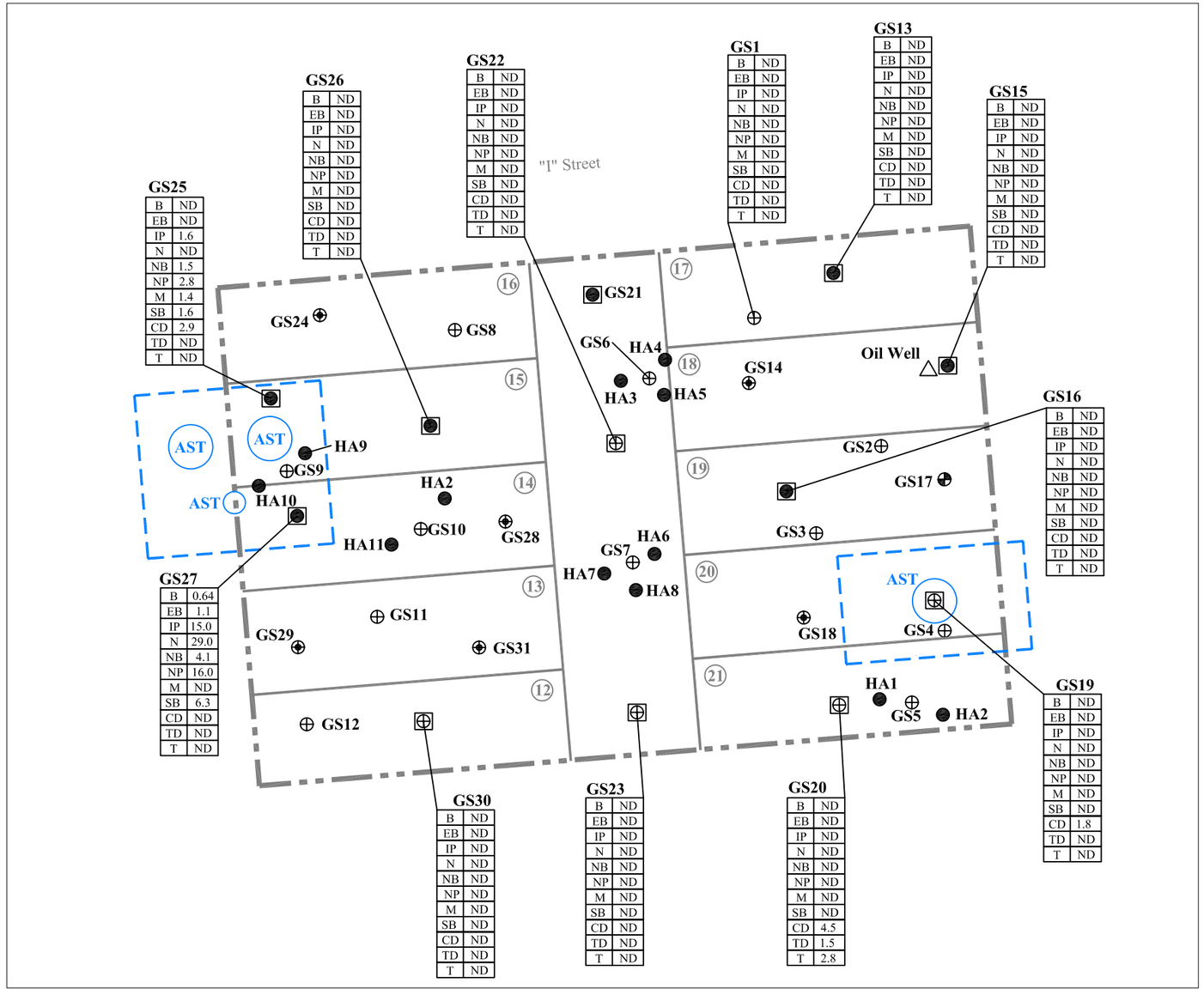
FIGURE 8
TOTAL TPH CONCENTRATIONS IN GROUNDWATER (ug/l)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		



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- ◒ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- ND = Not Detected
- B = Benzene
- EB = Ethlybenzene
- IP = Isopropylbenzene
- N = Napthalene
- NB = n-Butylbenzene
- NP = n-Propylbenzene
- M = MTBE
- SB = sec-Butylbenzene
- CD = c-1,2-Dichloroethene
- TD = t-1,2-Dichloroethene
- T = Trichloroethene

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FIGURE 9
VOC CONCENTRATIONS IN GROUNDWATER (ug/l)

DATE:	1/27/09	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG3		

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- ⊕ = Soil Sample Location - Oct 2008
- ◔ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- = Estimated area with PCB concentrations greater than Industrial CHHSL of 0.3 mg/kg.
- = Estimated area with TPH (C6-C44) concentrations greater than 1,000 mg/kg.
- = Estimated area with arsenic concentrations above presumed background and Industrial CHHSL.
- = Estimated area with cadmium concentrations at or above Indistrial CHHSL of 7.5 mg/kg.
- = Estimated area with lead concentrations greater than the TTLC or STLC.

PACIFIC EDGE ENGINEERING, INC.
JENKINS ENVIRONMENTAL ASSOCIATES

PORT OF LOS ANGELES
1510 E "I" STREET
WILMINGTON, CA

FIGURE 10
ESTIMATED AREAS WITH
SOIL IMPACTS (UPPER 2 FEET)

DATE:	12/04/08	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG2		

LEGEND

- △ = Oil Well
- ● = Hand Auger Location - Oct 2008
- ⊕ = Soil & Soil Gas Sample Locations - Oct 2007
- ⊕ = Soil Sample Location - Oct 2008
- ◔ = Soil & Soil Gas Sample Location - Oct 2008
- ⊕ = Soil & Groundwater Sample Location - Oct 2008
- ● = Soil, Soil Gas & Groundwater Sample Location - Oct 2008
- (12) = Lot Number
- – – – = Former Concrete Dyke
- AST = Former Aboveground oil storage tank
- = Estimated area with PCB concentrations greater than Industrial CHHSL of 0.3 mg/kg.
- = Estimated area with TPH (C6-C44) concentrations greater than 1,000 mg/kg.
- = Estimated area with arsenic concentrations above presumed background & Industrial CHHSL.
- = Estimated area with cadmium concentrations at or above Indistrial CHHSL of 7.5 mg/kg.
- = Estimated area with lead concentrations greater than the TTLC or STLC.

PACIFIC EDGE ENGINEERING, INC.
JENKINS ENVIRONMENTAL ASSOCIATES

PORT OF LOS ANGELES
1510 E "I" STREET
WILMINGTON, CA

FIGURE 11
ESTIMATED AREAS WITH
SOIL IMPACTS (>2 FEET)

DATE:	12/04/08	SCALE:	~1" = 50'
DRAWN BY:	CLF	PD#:	15
CHECKED BY:	CAS	ADP#:	XXXXXX
FILE NAME:	2659/PD15/FIGURES/FIG2		

Tables

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS1	0.5	10/12/2007		<	<	0.25	0.56	0.28	0.28	0.15	0.28	0.16	1.9	0.24	<	<	<	<		< 5.0
GS1	2.5	10/12/2007		<	<	0.3	1.0	0.4	0.47	0.29	0.35	0.3	0.76	0.2	<	<	<	<		< 5.0
GS2	0.5	10/12/2007		<	<	<	<	<	1.1	1.7	9.5	12.0	28.0	61.0	93.0	78.0	65.0	72.0		420.0
GS2	2.5	10/12/2007		<	<	1.5	1.1	0.83	1.2	0.64	2.0	1.6	13.0	5.8	7.9	6.2	4.4	5.2		51.0
GS3	0.5	10/12/2007		<	<	0.45	0.22	0.13	0.79	0.5	2.5	2.5	16.0	18.0	34.0	29.0	17.0	28.0		150.0
GS3	2.5	10/12/2007		<	<	<	<	3.2	12.0	23.0	46.0	55.0	91.0	200.0	270.0	200.0	210.0	170.0		**1,300.0**
GS4	0.5	10/12/2007		<	<	0.45	0.95	1.1	1.8	1.8	3.1	5.2	15.0	19.0	32.0	26.0	19.0	30.0		160.0
GS4	2.5	10/12/2007		<	<	0.22	0.56	0.041	0.52	0.7	1.7	1.7	7.4	4.2	7.3	3.7	3.0	4.4		35.0
GS5	0.5	10/12/2007		<	<	0.36	0.89	<	1.2	2.9	6.3	7.7	25.0	39.0	66.0	67.0	51.0	53.0		320.0
GS5	2.5	10/12/2007		<	<	0.1	0.13	0.36	2.0	3.2	5.2	5.2	10.0	12.0	14.0	9.3	7.6	10.0		79.0
GS6	0.5	10/12/2007		<	<	<	<	<	4.7	33.0	92.0	160.0	300.0	770.0	**1,000.0**	840.0	670.0	520.0		**4,400.0**
GS6	2.5	10/12/2007		<	<	0.38	0.1	0.075	0.78	0.57	3.1	3.2	18.0	16.0	18.0	11.0	9.5	11.0		92.0
GS7	0.5	10/12/2007		<	<	<	<	14.0	59.0	96.0	190.0	370.0	650.0	**2,100.0**	**3,600.0**	**2,300.0**	**2,100.0**	**1,800.0**		**13,000.0**
GS7	2.5	10/12/2007		<	<	<	<	0.41	0.37	0.22	0.17	0.87	2.2	2.3	1.8	0.28	<	<		8.6
GS8	0.5	10/12/2007		<	<	<	<	<	7.8	22.0	55.0	72.0	130.0	500.0	990.0	900.0	**1,100.0**	980.0		**4,700.0**
GS8	2.5	10/12/2007		<	<	360.0	160.0	78.0	160.0	180.0	350.0	250.0	400.0	720.0	910.0	**1,300.0**	950.0	900.0		**6,700.0**
GS9	0.5	10/12/2007		<	<	<	4.4	68.0	220.0	440.0	680.0	680.0	960.0	**2,100.0**	**2,500.0**	**1,800.0**	**1,700.0**	**1,400.0**		**13,000.0**
GS9	2.5	10/12/2007		<	16.0	120.0	350.0	930.0	**1,600.0**	**2,200.0**	**2,600.0**	**2,300.0**	**2,400.0**	**4,600.0**	**5,000.0**	**3,300.0**	**2,100.0**	**2,200.0**		**30,000.0**
GS10	0.5	10/12/2007		<	<	<	1.4	3.5	6.1	4.6	10.0	14.0	24.0	51.0	87.0	56.0	34.0	57.0		350.0
GS10	2.5	10/12/2007		<	<	<	<	<	16.0	45.0	110.0	180.0	330.0	760.0	**1,100.0**	720.0	530.0	390.0		**4,100.0**
GS11	0.5	10/12/2007		<	<	0.32	0.89	0.53	0.8	1.0	3.0	2.8	9.2	11.0	15.0	13.0	12.0	11.0		81.0
GS11	2.5	10/12/2007		<	<	0.13	0.65	0.46	1.2	0.27	0.4	0.25	2.1	0.12	<	<	<	<		5.6
GS12	0.5	10/12/2007		<	<	<	<	0.25	1.5	3.9	6.0	12.0	20.0	28.0	43.0	26.0	21.0	31.0		190.0
GS12	2.5	10/12/2007		<	<	0.62	1.9	2.1	2.8	3.5	8.8	15.0	34.0	53.0	64.0	41.0	8.3	19.0		250.0

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS13	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	0.35	<	<	<	<	< 5.0	
GS13	10	10/30/2008	<	<	<	<	0.31	0.26	0.67	0.13	0.11	0.11	0.084	2.7	<	<	<	<	< 5.0	
GS14	5	10/30/2008	<	<	<	<	0.28	0.39	0.59	0.25	0.18	0.2	0.19	1.7	<	<	<	<	< 5.0	
GS14	9.5	10/30/2008	<	<	<	<	<	0.3	1.0	1.1	1.7	2.2	3.2	13.0	14.0	12.0	14.0	8.3	70.0	
GS15	5	10/30/2008	<	<	<	<	0.17	0.3	0.49	0.11	0.19	0.22	0.27	0.72	<	<	<	<	< 5.0	
GS15	10	10/30/2008	<	<	<	<	0.62	0.24	1.5	0.14	0.15	0.16	0.12	8.4	<	<	<	<	11.0	
GS16	5	10/30/2008	<	<	<	<	<	0.06	0.23	<	<	<	0.044	0.58	<	<	<	<	< 5.0	
GS16	10	10/30/2008	<	<	<	<	0.44	0.3	0.86	0.12	0.14	0.11	0.14	4.5	<	<	<	<	6.6	
GS17	5	10/30/2008	<	<	<	<	0.12	0.13	0.32	<	<	<	0.09	0.85	<	<	<	<	< 5.0	
GS17	10	10/30/2008	<	<	<	<	0.27	0.18	0.45	0.13	0.15	0.39	0.22	1.4	<	<	<	<	< 5.0	
GS18	5	10/30/2008	<	<	<	<	<	0.05	0.29	0.13	0.087	0.006	<	0.55	<	<	<	<	< 5.0	
GS18	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS19	1	10/30/2008	<	<	<	<	0.27	0.99	1.5	1.6	3.0	3.8	5.9	22.0	26.0	21.0	34.0	15.0	130.0	
GS19	5	10/30/2008	<	<	<	<	<	0.19	0.31	<	<	<	<	1.3	<	<	<	<	< 5.0	
GS19	10	10/30/2008	<	<	<	<	0.46	0.61	1.7	0.19	0.19	0.17	0.14	6.2	<	<	<	<	9.6	
GS20	5	10/30/2008	<	<	<	<	0.73	0.32	1.7	0.17	<	<	0.064	9.7	<	<	<	<	13.0	
GS20	10	10/30/2008	<	<	<	<	0.36	0.34	0.55	0.18	0.17	0.42	0.82	1.0	<	<	<	<	< 5.0	
GS21	5	10/30/2008	<	<	<	<	0.16	0.22	0.5	0.27	0.2	0.32	0.31	0.34	<	<	<	<	< 5.0	
GS21	10	10/30/2008	<	<	<	<	0.3	0.26	1.0	0.27	0.2	0.17	0.25	3.5	<	<	<	<	5.9	
GS22	5	10/30/2008	<	<	<	0.034	0.12	0.21	0.4	0.17	0.42	0.95	4.3	2.6	1.6	0.096	<	<	11.0	
GS22	10	10/30/2008	<	<	<	<	0.2	0.27	0.56	0.37	0.82	0.17	8.0	0.1	<	<	<	<	10.0	
GS23	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	2.6	<	<	<	<	<	< 5.0	
GS23	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS24	5	10/31/2008	<	<	0.29	0.19	0.13	0.23	0.51	0.32	0.61	1.3	1.4	6.0	3.1	1.9	3.2	2.8	22.0	

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS24	10	10/31/2008	<	<	<	<	<	0.044	0.2	0.095	0.11	0.34	0.83	0.57	<	<	<	<	< 5.0	
GS25	1	10/31/2008	<	<	<	<	3.8	53.0	200.0	390.0	640.0	950.0	960.0	**2,600.0**	**2,700.0**	**2,100.0**	**2,100.0**	**1,500.0**	**14,000.0**	
GS25	5	10/31/2008	<	<	<	<	<	<	<	<	<	<	0.18	0.28	<	<	<	<	< 5.0	
GS25	10	10/31/2008	<	<	<	<	0.36	0.18	0.72	0.06	0.1	0.39	0.4	4.3	<	<	<	<	6.5	
GS26	5	10/31/2008	<	<	<	0.9	1.0	0.52	1.5	0.27	0.21	0.21	0.21	4.3	0.17	<	<	<	9.3	
GS26	10	10/31/2008	<	<	<	1.5	0.94	0.5	1.0	0.32	0.22	0.22	0.19	1.6	0.6	<	<	<	7.1	
GS27	1	10/31/2008	<	<	0.54	0.42	0.28	0.65	1.5	3.1	6.1	8.9	12.0	29.0	34.0	25.0	28.0	15.0	160.0	
GS27	5	10/31/2008	<	<	<	<	0.22	0.19	0.52	0.14	0.13	0.26	0.61	3.5	<	<	<	<	5.6	
GS27	10	10/31/2008	<	<	100.0	590.0	**1,200.0**	**1,900.0**	**1,900.0**	**1,600.0**	**1,700.0**	**1,500.0**	**1,300.0**	**2,600.0**	**2,300.0**	**1,600.0**	**1,500.0**	**1,000.0**	**21,000.0**	
GS28	5	10/31/2008	<	<	<	<	0.35	0.15	1.2	0.088	0.08	0.36	0.65	7.2	<	<	<	<	10.0	
GS28	10	10/31/2008	<	<	<	<	<	<	<	<	<	0.047	0.28	0.83	<	<	<	<	< 5.0	
GS29	5	10/31/2008	<	0.64	0.52	0.36	0.97	0.64	1.4	1.2	1.8	2.3	2.4	11.0	7.7	5.2	5.1	3.2	45.0	
GS29	10	10/31/2008	<	<	<	<	<	<	0.3	0.008	0.021	0.35	1.0	1.8	<	<	<	<	< 5.0	
GS30	5	10/31/2008	<	<	<	<	<	<	0.72	0.11	0.064	0.3	0.27	3.4	<	<	<	<	< 5.0	
GS30	10	10/31/2008	<	<	<	<	<	0.032	0.59	0.011	0.02	0.38	0.33	2.9	<	<	<	<	< 5.0	
GS31	5	10/31/2008	<	<	<	<	<	<	0.26	0.044	0.045	0.27	0.3	0.73	<	<	<	<	< 5.0	
GS31	10	10/31/2008	<	<	<	<	<	<	0.68	0.029	0.11	0.32	0.52	5.0	<	<	<	<	6.6	

1) TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M)

2) C = Carbon Chain Range

3) Concentration = or > 1,000 mg/kg in bold text.

4) "<" indicates compound not detected. Laboratory detection limits for individual carbon chain ranges was not supplied by laboratory.

5) Blank = Not Analyzed

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS1	0.5	10/12/2007		<	<	0.25	0.56	0.28	0.28	0.15	0.28	0.16	1.9	0.24	<	<	<	<		< 5.0
GS1	2.5	10/12/2007		<	<	0.3	1.0	0.4	0.47	0.29	0.35	0.3	0.76	0.2	<	<	<	<		< 5.0
GS2	0.5	10/12/2007		<	<	<	<	<	1.1	1.7	9.5	12.0	28.0	61.0	93.0	78.0	65.0	72.0		420.0
GS2	2.5	10/12/2007		<	<	1.5	1.1	0.83	1.2	0.64	2.0	1.6	13.0	5.8	7.9	6.2	4.4	5.2		51.0
GS3	0.5	10/12/2007		<	<	0.45	0.22	0.13	0.79	0.5	2.5	2.5	16.0	18.0	34.0	29.0	17.0	28.0		150.0
GS3	2.5	10/12/2007		<	<	<	<	3.2	12.0	23.0	46.0	55.0	91.0	200.0	270.0	200.0	210.0	170.0		**1,300.0**
GS4	0.5	10/12/2007		<	<	0.45	0.95	1.1	1.8	1.8	3.1	5.2	15.0	19.0	32.0	26.0	19.0	30.0		160.0
GS4	2.5	10/12/2007		<	<	0.22	0.56	0.041	0.52	0.7	1.7	1.7	7.4	4.2	7.3	3.7	3.0	4.4		35.0
GS5	0.5	10/12/2007		<	<	0.36	0.89	<	1.2	2.9	6.3	7.7	25.0	39.0	66.0	67.0	51.0	53.0		320.0
GS5	2.5	10/12/2007		<	<	0.1	0.13	0.36	2.0	3.2	5.2	5.2	10.0	12.0	14.0	9.3	7.6	10.0		79.0
GS6	0.5	10/12/2007		<	<	<	<	<	4.7	33.0	92.0	160.0	300.0	770.0	**1,000.0**	840.0	670.0	520.0		**4,400.0**
GS6	2.5	10/12/2007		<	<	0.38	0.1	0.075	0.78	0.57	3.1	3.2	18.0	16.0	18.0	11.0	9.5	11.0		92.0
GS7	0.5	10/12/2007		<	<	<	<	14.0	59.0	96.0	190.0	370.0	650.0	**2,100.0**	**3,600.0**	**2,300.0**	**2,100.0**	**1,800.0**		**13,000.0**
GS7	2.5	10/12/2007		<	<	<	<	0.41	0.37	0.22	0.17	0.87	2.2	2.3	1.8	0.28	<	<		8.6
GS8	0.5	10/12/2007		<	<	<	<	<	7.8	22.0	55.0	72.0	130.0	500.0	990.0	900.0	**1,100.0**	980.0		**4,700.0**
GS8	2.5	10/12/2007		<	<	360.0	160.0	78.0	160.0	180.0	350.0	250.0	400.0	720.0	910.0	**1,300.0**	950.0	900.0		**6,700.0**
GS9	0.5	10/12/2007		<	<	<	4.4	68.0	220.0	440.0	680.0	680.0	960.0	**2,100.0**	**2,500.0**	**1,800.0**	**1,700.0**	**1,400.0**		**13,000.0**
GS9	2.5	10/12/2007		<	16.0	120.0	350.0	930.0	**1,600.0**	**2,200.0**	**2,600.0**	**2,300.0**	**2,400.0**	**4,600.0**	**5,000.0**	**3,300.0**	**2,100.0**	**2,200.0**		**30,000.0**
GS10	0.5	10/12/2007		<	<	<	1.4	3.5	6.1	4.6	10.0	14.0	24.0	51.0	87.0	56.0	34.0	57.0		350.0
GS10	2.5	10/12/2007		<	<	<	<	<	16.0	45.0	110.0	180.0	330.0	760.0	**1,100.0**	720.0	530.0	390.0		**4,100.0**
GS11	0.5	10/12/2007		<	<	0.32	0.89	0.53	0.8	1.0	3.0	2.8	9.2	11.0	15.0	13.0	12.0	11.0		81.0
GS11	2.5	10/12/2007		<	<	0.13	0.65	0.46	1.2	0.27	0.4	0.25	2.1	0.12	<	<	<	<		5.6
GS12	0.5	10/12/2007		<	<	<	<	0.25	1.5	3.9	6.0	12.0	20.0	28.0	43.0	26.0	21.0	31.0		190.0
GS12	2.5	10/12/2007		<	<	0.62	1.9	2.1	2.8	3.5	8.8	15.0	34.0	53.0	64.0	41.0	8.3	19.0		250.0

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS13	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	0.35	<	<	<	<	< 5.0	
GS13	10	10/30/2008	<	<	<	<	0.31	0.26	0.67	0.13	0.11	0.11	0.084	2.7	<	<	<	<	< 5.0	
GS14	5	10/30/2008	<	<	<	<	0.28	0.39	0.59	0.25	0.18	0.2	0.19	1.7	<	<	<	<	< 5.0	
GS14	9.5	10/30/2008	<	<	<	<	<	0.3	1.0	1.1	1.7	2.2	3.2	13.0	14.0	12.0	14.0	8.3	70.0	
GS15	5	10/30/2008	<	<	<	<	0.17	0.3	0.49	0.11	0.19	0.22	0.27	0.72	<	<	<	<	< 5.0	
GS15	10	10/30/2008	<	<	<	<	0.62	0.24	1.5	0.14	0.15	0.16	0.12	8.4	<	<	<	<	11.0	
GS16	5	10/30/2008	<	<	<	<	<	0.06	0.23	<	<	<	0.044	0.58	<	<	<	<	< 5.0	
GS16	10	10/30/2008	<	<	<	<	0.44	0.3	0.86	0.12	0.14	0.11	0.14	4.5	<	<	<	<	6.6	
GS17	5	10/30/2008	<	<	<	<	0.12	0.13	0.32	<	<	<	0.09	0.85	<	<	<	<	< 5.0	
GS17	10	10/30/2008	<	<	<	<	0.27	0.18	0.45	0.13	0.15	0.39	0.22	1.4	<	<	<	<	< 5.0	
GS18	5	10/30/2008	<	<	<	<	<	0.05	0.29	0.13	0.087	0.006	<	0.55	<	<	<	<	< 5.0	
GS18	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS19	1	10/30/2008	<	<	<	<	0.27	0.99	1.5	1.6	3.0	3.8	5.9	22.0	26.0	21.0	34.0	15.0	130.0	
GS19	5	10/30/2008	<	<	<	<	<	0.19	0.31	<	<	<	<	1.3	<	<	<	<	< 5.0	
GS19	10	10/30/2008	<	<	<	<	0.46	0.61	1.7	0.19	0.19	0.17	0.14	6.2	<	<	<	<	9.6	
GS20	5	10/30/2008	<	<	<	<	0.73	0.32	1.7	0.17	<	<	0.064	9.7	<	<	<	<	13.0	
GS20	10	10/30/2008	<	<	<	<	0.36	0.34	0.55	0.18	0.17	0.42	0.82	1.0	<	<	<	<	< 5.0	
GS21	5	10/30/2008	<	<	<	<	0.16	0.22	0.5	0.27	0.2	0.32	0.31	0.34	<	<	<	<	< 5.0	
GS21	10	10/30/2008	<	<	<	<	0.3	0.26	1.0	0.27	0.2	0.17	0.25	3.5	<	<	<	<	5.9	
GS22	5	10/30/2008	<	<	<	0.034	0.12	0.21	0.4	0.17	0.42	0.95	4.3	2.6	1.6	0.096	<	<	11.0	
GS22	10	10/30/2008	<	<	<	<	0.2	0.27	0.56	0.37	0.82	0.17	8.0	0.1	<	<	<	<	10.0	
GS23	5	10/30/2008	<	<	<	<	<	<	<	<	<	<	2.6	<	<	<	<	<	< 5.0	
GS23	10	10/30/2008	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< 5.0	
GS24	5	10/31/2008	<	<	0.29	0.19	0.13	0.23	0.51	0.32	0.61	1.3	1.4	6.0	3.1	1.9	3.2	2.8	22.0	

Table 1
TPH in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total	C7-C44 Total
GS24	10	10/31/2008	<	<	<	<	<	0.044	0.2	0.095	0.11	0.34	0.83	0.57	<	<	<	<	< 5.0	
GS25	1	10/31/2008	<	<	<	<	3.8	53.0	200.0	390.0	640.0	950.0	960.0	**2,600.0**	**2,700.0**	**2,100.0**	**2,100.0**	**1,500.0**	**14,000.0**	
GS25	5	10/31/2008	<	<	<	<	<	<	<	<	<	<	0.18	0.28	<	<	<	<	< 5.0	
GS25	10	10/31/2008	<	<	<	<	0.36	0.18	0.72	0.06	0.1	0.39	0.4	4.3	<	<	<	<	6.5	
GS26	5	10/31/2008	<	<	<	0.9	1.0	0.52	1.5	0.27	0.21	0.21	0.21	4.3	0.17	<	<	<	9.3	
GS26	10	10/31/2008	<	<	<	1.5	0.94	0.5	1.0	0.32	0.22	0.22	0.19	1.6	0.6	<	<	<	7.1	
GS27	1	10/31/2008	<	<	0.54	0.42	0.28	0.65	1.5	3.1	6.1	8.9	12.0	29.0	34.0	25.0	28.0	15.0	160.0	
GS27	5	10/31/2008	<	<	<	<	0.22	0.19	0.52	0.14	0.13	0.26	0.61	3.5	<	<	<	<	5.6	
GS27	10	10/31/2008	<	<	100.0	590.0	**1,200.0**	**1,900.0**	**1,900.0**	**1,600.0**	**1,700.0**	**1,500.0**	**1,300.0**	**2,600.0**	**2,300.0**	**1,600.0**	**1,500.0**	**1,000.0**	**21,000.0**	
GS28	5	10/31/2008	<	<	<	<	0.35	0.15	1.2	0.088	0.08	0.36	0.65	7.2	<	<	<	<	10.0	
GS28	10	10/31/2008	<	<	<	<	<	<	<	<	<	0.047	0.28	0.83	<	<	<	<	< 5.0	
GS29	5	10/31/2008	<	0.64	0.52	0.36	0.97	0.64	1.4	1.2	1.8	2.3	2.4	11.0	7.7	5.2	5.1	3.2	45.0	
GS29	10	10/31/2008	<	<	<	<	<	<	0.3	0.008	0.021	0.35	1.0	1.8	<	<	<	<	< 5.0	
GS30	5	10/31/2008	<	<	<	<	<	<	0.72	0.11	0.064	0.3	0.27	3.4	<	<	<	<	< 5.0	
GS30	10	10/31/2008	<	<	<	<	<	0.032	0.59	0.011	0.02	0.38	0.33	2.9	<	<	<	<	< 5.0	
GS31	5	10/31/2008	<	<	<	<	<	<	0.26	0.044	0.045	0.27	0.3	0.73	<	<	<	<	< 5.0	
GS31	10	10/31/2008	<	<	<	<	<	<	0.68	0.029	0.11	0.32	0.52	5.0	<	<	<	<	6.6	

1) TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M)

2) C = Carbon Chain Range

3) Concentration = or > 1,000 mg/kg in bold text.

4) "<" indicates compound not detected. Laboratory detection limits for individual carbon chain ranges was not supplied by laboratory.

5) Blank = Not Analyzed

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
GS1	2.5	10-12-07	< 0.96	< 0.96	**0.97**	< 0.96	< 1.9	< 4.8	< 480.0	< 0.96	< 9.6	< 0.96	< 0.96	< 0.96
GS2	5.5	10-12-07	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.1	< 410.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS3	2.5	10-12-07	< 0.85	< 0.85	< 0.85	< 0.85	< 1.7	< 4.2	**540.0**	< 0.85	< 8.5	< 0.85	< 0.85	< 0.85
GS4	5.5	10-12-07	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.0	< 400.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS5	2.5	10-12-07	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2	< 420.0	< 0.84	< 8.4	< 0.84	< 0.84	< 0.84
GS6	5.5	10-12-07	< 0.89	< 0.89	< 0.89	< 0.89	< 1.8	< 4.5	< 450.0	< 0.89	< 8.9	< 0.89	< 0.89	< 0.89
GS7	2.5	10-12-07	< 0.91	< 0.91	< 0.91	< 0.91	< 1.8	**8.9**	< 450.0	< 0.91	< 9.1	< 0.91	< 0.91	< 0.91
GS8	2.5	10-12-07	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.2	< 420.0	< 0.83	< 8.3	< 0.83	< 0.83	< 0.83
GS9	5.5	10-12-07	< 0.89	< 0.89	**1.3**	< 0.89	< 1.8	< 4.4	< 440.0	< 0.89	< 8.9	< 0.89	< 0.89	< 0.89
GS10	2.5	10-12-07	< 0.8	< 0.8	**1.1**	< 0.8	**1.8**	< 4.0	< 400.0	< 0.8	< 8.0	< 0.8	< 0.8	< 0.8
GS11	5.5	10-12-07	< 0.79	< 0.79	**1.1**	< 0.79	< 1.6	< 4.0	< 400.0	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79
GS12	5.5	10-12-07	< 0.81	< 0.81	< 0.81	< 0.81	< 1.6	< 4.1	< 410.0	< 0.81	< 8.1	< 0.81	< 0.81	< 0.81
GS13	5.0	10-30-08	< 0.93	< 0.93	**8.6**	< 0.93	< 1.9	< 4.6		< 0.93	< 9.3	< 0.93	< 1.9	< 0.93
GS13	10.0	10-30-08	< 0.84	< 0.84	**2.4**	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS14	5.0	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS14	9.5	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS15	5.0	10-30-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS15	10.0	10-30-08	< 0.82	< 0.82	**1.3**	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS16	5.0	10-30-08	< 0.87	< 0.87	**3.0**	< 0.87	< 1.7	< 4.4		< 0.87	< 8.7	< 0.87	< 1.7	< 0.87
GS16	10.0	10-30-08	< 0.85	< 0.85	**4.7**	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS17	5.0	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS17	10.0	10-30-08	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 50.0	< 5.0	< 5.0	< 5.0
GS18	5.0	10-30-08	< 0.89	< 0.89	**1.0**	< 0.89	< 1.8	< 4.5		< 0.89	< 8.9	< 0.89	< 1.8	< 0.89
GS18	10.0	10-30-08	**1.7**	< 0.83	**1.5**	< 0.83	< 1.7	< 4.2		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS19	5.0	10-30-08	< 0.92	< 0.92	< 0.92	< 0.92	< 1.8	< 4.6		< 0.92	< 9.2	< 0.92	< 1.8	< 0.92
GS19	10.0	10-30-08	< 0.8	< 0.8	< 0.8	< 0.8	< 1.6	< 4.0		< 0.8	< 8.0	< 0.8	< 1.6	< 0.8
GS20	5.0	10-30-08	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS20	10.0	10-30-08	**1.9**	< 0.95	**1.1**	< 0.95	< 1.9	< 4.8		< 0.95	< 9.5	< 0.95	< 1.9	< 0.95

Table 2 - VOC "Hits" in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Benzene	Ethylbenzene	Toluene	o-Xylene	p/m-Xylene	Bromoform	Ethanol	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
GS21	5.0	10-30-08	< 0.79	< 0.79	< 0.79	< 0.79	< 1.6	< 4.0		< 0.79	< 7.9	< 0.79	< 1.6	< 0.79
GS21	10.0	10-30-08	< 0.85	< 0.85	**1.0**	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS22	5.0	10-30-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS22	10.0	10-30-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS23	5.0	10-30-08	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS23	10.0	10-30-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS24	5.0	10-31-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS24	10.0	10-31-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS25	5.0	10-31-08	< 0.86	< 0.86	< 0.86	< 0.86	< 1.7	< 4.3		< 0.86	< 8.6	< 0.86	< 1.7	< 0.86
GS25	10.0	10-31-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS26	5.0	10-31-08	< 0.82	< 0.82	< 0.82	< 0.82	< 1.6	< 4.1		< 0.82	< 8.2	< 0.82	< 1.6	< 0.82
GS26	10.0	10-31-08	< 0.86	< 0.86	**1.3**	< 0.86	< 1.7	< 4.3		< 0.86	< 8.6	< 0.86	< 1.7	< 0.86
GS27	5.0	10-31-08	< 0.85	< 0.85	< 0.85	< 0.85	< 1.7	< 4.2		< 0.85	< 8.5	< 0.85	< 1.7	< 0.85
GS27	10.0	10-31-08	**110.0**	**5,900.0**	< 88.0	**140.0**	< 180.0	< 440.0		**3,500.0**	**15,000.0**	**4,300.0**	**5,700.0**	**4,200.0**
GS28	5.0	10-31-08	< 0.9	< 0.9	< 0.9	< 0.9	< 1.8	< 4.5		< 0.9	< 9.0	< 0.9	< 1.8	< 0.9
GS28	10.0	10-31-08	< 0.84	< 0.84	< 0.84	< 0.84	< 1.7	< 4.2		< 0.84	< 8.4	< 0.84	< 1.7	< 0.84
GS29	5.0	10-31-08	< 0.79	< 0.79	< 0.79	< 0.79	< 1.6	< 4.0		< 0.79	< 7.9	< 0.79	< 1.6	< 0.79
GS29	10.0	10-31-08	< 0.83	< 0.83	**1.3**	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS30	5.0	10-31-08	< 0.89	< 0.89	< 0.89	< 0.89	< 1.8	< 4.4		< 0.89	< 8.9	< 0.89	< 1.8	< 0.89
GS30	10.0	10-31-08	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5	< 3.9		< 0.77	< 7.7	< 0.77	< 1.5	< 0.77
GS31	5.0	10-31-08	< 0.83	< 0.83	< 0.83	< 0.83	< 1.7	< 4.1		< 0.83	< 8.3	< 0.83	< 1.7	< 0.83
GS31	10.0	10-31-08	< 0.8	< 0.8	< 0.8	< 0.8	< 1.6	< 4.0		< 0.8	< 8.0	< 0.8	< 1.6	< 0.8

Detected concentrations do not equal or exceed the Industrial PRG value for soil.

Blank = Not Analyzed

Table 3
PAHs in Soil Summary (mg/kg)
1510 East I Street, Wilmington, California

Sample	Depth (ft)	Date	Acenaphthene	Chrysene	Fluorene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
GS13	0.5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS13	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS14	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS15	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS16	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS17	10	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS18	10	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS19	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS20	1	10/30/2008	< 0.02	**0.023**	< 0.02	< 0.02	**0.03**	**0.033**	**0.035**	**0.029**
GS21	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS22	5	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS23	10	10/30/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS24	10	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS25	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS26	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS27	10	10/31/2008	**1.2**	< 1.0	**1.6**	**17.0**	**26.0**	**8.3**	**4.2**	< 1.0
GS28	10	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS29	10	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS30	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
GS31	5	10/31/2008	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Detected concentrations do not exceed the Industrial PRG value.

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Sample ID	Date Sampled	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
GS1-0.5'	10-12-07	< 0.75	**3.85**	104.0	0.281	< 0.5	15.3	9.27	28.6	10.4		< 0.084	0.934	12.3	< 0.75	< 0.25	< 0.75	28.5	39.7
GS1-2.5'	10-12-07	< 0.75	**2.81**	101.0	0.26	< 0.5	14.1	8.79	12.0	3.5		< 0.084	0.408	10.6	< 0.75	< 0.25	< 0.75	26.2	28.1
GS2-0.5'	10-12-07	< 0.75	**3.83**	118.0	0.313	< 0.5	17.5	9.72	19.9	21.2		< 0.084	0.538	16.1	< 0.75	< 0.25	< 0.75	33.4	76.8
GS2-2.5'	10-12-07	< 0.75	**5.52**	125.0	0.391	< 0.5	25.9	11.4	24.0	9.45		< 0.084	1.07	19.7	< 0.75	< 0.25	< 0.75	37.7	60.6
GS3-0.5'	10-12-07	< 0.75	**5.58**	186.0	< 0.25	< 0.5	18.0	4.98	161.0	42.5		< 0.084	2.14	17.9	< 0.75	< 0.25	< 0.75	23.6	195.0
GS3-2.5'	10-12-07	< 0.75	**14.4**	174.0	0.305	1.3	23.2	9.32	74.1	110.0		0.096	1.57	31.1	< 0.75	< 0.25	< 0.75	35.9	191.0
GS4-0.5'	10-12-07	< 0.75	**5.24**	154.0	0.363	< 0.5	23.4	9.95	26.3	36.0		< 0.084	0.587	16.6	< 0.75	< 0.25	< 0.75	37.4	95.2
GS4-2.5'	10-12-07	< 0.75	**7.11**	94.7	0.298	< 0.5	16.5	11.6	16.7	10.4		< 0.084	0.339	14.9	< 0.75	< 0.25	< 0.75	35.2	74.8
GS5-0.5'	10-12-07	< 0.75	**5.24**	150.0	0.394	< 0.5	34.2	11.3	28.3	41.3		< 0.084	0.669	20.7	< 0.75	< 0.25	< 0.75	41.4	95.4
GS5-2.5'	10-12-07	< 0.75	**4.68**	142.0	0.357	< 0.5	25.7	10.8	34.3	47.2		< 0.084	0.739	18.1	< 0.75	< 0.25	< 0.75	38.2	112.0
GS6-0.5'	10-12-07	< 0.75	**6.02**	223.0	< 0.25	2.02	21.2	7.24	140.0	1,210.0		< 0.084	1.98	35.0	< 0.75	< 0.25	< 0.75	33.3	508.0
GS6-2.5'	10-12-07	< 0.75	**6.8**	152.0	0.766	< 0.5	34.5	14.6	25.2	17.3		< 0.084	< 0.25	27.6	< 0.75	< 0.25	< 0.75	57.7	68.8
GS7-0.5'	10-12-07	< 0.75	**6.28**	143.0	< 0.25	1.45	18.2	7.08	57.9	228.0		< 0.084	2.7	22.3	< 0.75	< 0.25	< 0.75	29.2	255.0
GS7-2.5'	10-12-07	< 0.75	**5.48**	76.6	0.649	< 0.5	29.6	12.7	26.4	9.02		< 0.084	< 0.25	20.3	< 0.75	< 0.25	< 0.75	56.4	59.1
GS8-0.5'	10-12-07	< 0.75	**6.79**	183.0	< 0.25	0.514	17.2	5.35	283.0	119.0		< 0.084	1.74	23.8	< 0.75	< 0.25	< 0.75	27.2	326.0
GS8-2.5'	10-12-07	< 0.75	**5.44**	120.0	0.41	< 0.5	22.1	9.53	40.6	55.7		0.1	0.781	19.3	< 0.75	< 0.25	< 0.75	37.0	130.0
GS9-0.5'	10-12-07	< 0.75	**12.0**	250.0	< 0.25	0.934	23.1	7.72	62.6	144.0		0.124	3.32	30.3	< 0.75	< 0.25	< 0.75	47.1	460.0
GS9-2.5'	10-12-07	< 0.75	**4.95**	356.0	< 0.25	< 0.5	19.0	7.54	28.7	40.5		< 0.084	1.27	20.7	< 0.75	< 0.25	< 0.75	31.7	63.6
GS10-0.5'	10-12-07	< 0.75	**5.41**	228.0	< 0.25	0.56	19.2	4.31	152.0	122.0		< 0.084	2.82	21.2	< 0.75	< 0.25	< 0.75	18.0	1,200.0
GS10-2.5'	10-12-07	< 0.75	**5.28**	230.0	< 0.25	0.781	21.0	5.04	722.0	195.0		< 0.084	2.55	30.3	< 0.75	< 0.25	< 0.75	19.8	494.0
GS11-0.5'	10-12-07	< 0.75	**3.66**	97.1	0.353	< 0.5	18.0	9.58	16.2	12.5		< 0.084	0.287	14.6	< 0.75	< 0.25	< 0.75	32.5	49.8
GS11-2.5'	10-12-07	< 0.75	**3.65**	133.0	0.364	< 0.5	19.1	9.55	15.1	6.44		< 0.084	0.299	14.0	< 0.75	< 0.25	< 0.75	35.1	45.0
GS12-0.5'	10-12-07	< 0.75	**8.41**	145.0	0.472	1.76	79.3	11.0	47.9	60.6		< 0.084	1.54	41.1	< 0.75	< 0.25	< 0.75	53.5	1,760.0
GS12-2.5'	10-12-07	< 0.75	**3.62**	143.0	0.312	< 0.5	17.9	8.79	26.7	19.8		< 0.084	0.49	17.2	< 0.75	< 0.25	< 0.75	30.3	80.7
GS13-0.5'	10-30-08		**7.83**			5.13				261.0									
GS13-5'	10-30-08		**2.99**			< 0.5				6.9	0.185								
GS13-10'	10-30-08		**2.4**			< 0.5				7.96									
GS14-0.5'	10-30-08		**4.87**			1.51				154.0									
GS14-5'	10-30-08		**6.12**			< 0.5				7.31									
GS15-0.5'	10-30-08		**5.48**			2.28				143.0									
GS15-5'	10-30-08		**1.89**			< 0.5				3.6									
GS16-0.5'	10-30-08		**5.19**			0.75				58.7									

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Sample ID	Date Sampled	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
GS16-5'	10-30-08		**5.39**			< 0.5				7.74									
GS17-0.5'	10-30-08		**3.74**			0.983				38.0									
GS17-5'	10-30-08		**3.23**			< 0.5				5.94									
GS18-0.5'	10-30-08		**4.88**			0.966				52.1									
GS18-5'	10-30-08		**5.51**			< 0.5				7.23									
GS19-0.5'	10-30-08		**4.28**			1.29				50.9									
GS19-1'	10-30-08		**4.29**			0.569				30.8									
GS20-0.5'	10-30-08		**4.49**			1.48				85.7									
GS20-1'	10-30-08		**1.74**			< 0.5				22.6									
GS21-0.5'	10-30-08		**3.72**			1.4				153.0									
GS21-5'	10-30-08		**4.84**			< 0.5				5.03									
GS22-0.5'	10-30-08		**4.43**			2.6				493.0	16.6								
GS22-1'	10-30-08		**9.05**			**11.1**				1,180.0									
GS23-0.5'	10-30-08		**2.16**			< 0.5				10.4									
GS23-1'	10-30-08		**2.9**			0.698				19.1									
GS24-0.5'	10-31-08		**59.3**			1.37				167.0									
GS24-1'	10-31-08		**105.0**			1.04				63.1									
GS25-0.5'	10-31-08		**2.83**			1.7				157.0									
GS25-1'	10-31-08		**6.31**			0.685				61.7									
GS26-1'	10-31-08		**3.16**			1.67				69.0									
GS26-5'	10-31-08		**7.79**			0.613				5.74									
GS26-0.5'	10-31-08		**5.83**			2.68				106.0									
GS27-0.5'	10-31-08		**3.9**			0.637				13.1									
GS27-1'	10-31-08		**3.15**			< 0.5				9.09									
GS28-0.5'	10-31-08		**5.07**			1.77				278.0	24.9								
GS28-1'	10-31-08		**8.11**			2.01				61.5									
GS29-0.5'	10-31-08		**65.3**			1.09				520.0	5.31								
GS29-1'	10-31-08		**2.54**			4.96				14.1									
GS30-0.5'	10-31-08		**32.5**			4.36				369.0	65.9								
GS30-1'	10-31-08		**2.92**			0.56				17.8									
GS31-0.5'	10-31-08		**3.97**			**8.55**				194.0									
GS31-1'	10-31-08		**2.48**			1.23				51.3									

Table 4 - Metals in Soil Summary
1510 East I Street, Wilmington, California

Sample ID	Date Sampled	*Sb*	*As*	*Ba*	*Be*	*Cd*	*Cr*	*Co*	*Cu*	*Pb*	*Pb STLC*	*Hg*	*Mo*	*Ni*	*Se*	*Ag*	*Th*	*V*	*Zn*
HA3-0.5'	10-31-08					2.74				319.0	15.5								
HA3-1'	10-31-08					**11.7**				536.0	2.34								
HA4-0.5'	10-31-08					3.08				758.0	26.8								
HA4-1'	10-31-08					3.2				302.0	40.7								
HA5-0.5'	10-31-08					3.32				1,110.0									
HA6-0.5'	10-31-08					5.48				181.0									
HA6-1'	10-31-08									303.0	75.1								
HA7-0.5'	10-31-08					1.71				106.0									
HA7-1'	10-31-08									191.0									
HA8-0.5'	10-31-08					3.21				217.0									
HA8-1'	10-31-08									1,550.0									
HA9-0.5'	10-31-08									161.0									
HA9-1'	10-31-08									82.0									
HA10-0.5'	10-31-08									47.3									
HA10-1'	10-31-08									4.46									
HA11-0.5'	10-31-08									147.0									
HA11-3'	10-31-08									5.62									
HA12-0.5'	10-31-08									221.0									
HA12-3'	10-31-08									10.8									
GS15-GW	10-30-08		0.22			0.011				0.285									

1) All metal values expressed as mg/kg, except Pb-STLC. Pb-STLC values expressed as mg/L.
2) Blank value indicates not analyzed.
3) Bold value indicates it exceeds the industrial CHHSL value.
4) Underlined value indicates it exceeds the TTLC value.
5) Shaded value indicates it exceeds the STLC value.

Sb - Antimony
As - Arsenic
Ba - Barium
Be - Beryllium
Cd - Cadmium
Cr - Chromium
Co - Cobalt
Cu - Copper
Pb - Lead
Hg - Mercury
Mo - Molybdenum
Ni - Nickel
Se - Selenium
Ag - Silver
Th - Thallium
V - Vanadium
Zn - Zinc

Table 5 - PCB in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Location	Depth (feet)	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
GS1	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS2	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS3	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS4	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**73.0**	< 50.0	< 50.0
GS5	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**81.0**	< 50.0	< 50.0
GS6	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**74.0**	< 50.0	< 50.0
GS7	0.5	10-12-07	< 250.0	< 250.0	< 250.0	< 250.0	**1,800.0**	**990.0**	< 250.0	< 250.0
GS8	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS9	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS10	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS11	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS12	0.5	10-12-07	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS13	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**63.0**	**64.0**	< 50.0	< 50.0
GS13	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS14	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS14	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS15	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS15	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS16	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS16	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS17	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**88.0**	< 50.0	< 50.0
GS17	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS18	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**300.0**	**340.0**	< 50.0	< 50.0
GS18	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS19	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**68.0**	< 50.0	< 50.0
GS19	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**120.0**	< 50.0	< 50.0
GS20	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	**97.0**	**94.0**	< 50.0	< 50.0
GS20	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS21	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS21	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS22	0.5	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS22	1.0	10-30-08	< 250.0	< 250.0	< 250.0	< 250.0	**2,100.0**	**1,100.0**	< 250.0	< 250.0
GS23	0.5	10-30-08	< 100.0	< 100.0	< 100.0	< 100.0	**1,600.0**	**590.0**	< 100.0	< 100.0
GS23	1.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS23	5.0	10-30-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS24	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**120.0**	< 50.0	< 50.0
GS24	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS25	5.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0

Table 5 - PCB in Soil Summary (ug/kg)
1510 East I Street, Wilmington, California

Location	Depth (feet)	Date Sampled	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
GS25	10.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS26	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS26	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS27	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS27	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS28	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**220.0**	< 50.0	< 50.0	< 50.0
GS28	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS29	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS29	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS30	0.5	10-31-08	< 500.0	< 500.0	< 500.0	< 500.0	**4,400.0**	< 500.0	< 500.0	< 500.0
GS30	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
GS31	0.5	10-31-08	< 5,000.0	< 5,000.0	< 5,000.0	< 5,000.0	**33,000.0**	< 5,000.0	< 5,000.0	< 5,000.0
GS31	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**320.0**	< 50.0	< 50.0	< 50.0
HA6-	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
HA6-	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**440.0**	**320.0**	< 50.0	< 50.0
HA7-	0.5	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
HA7-	1.0	10-31-08	< 250.0	< 250.0	< 250.0	< 250.0	< 250.0	**2,100.0**	< 250.0	< 250.0
HA8-	0.5	10-31-08	< 100.0	< 100.0	< 100.0	< 100.0	**1,900.0**	**850.0**	< 100.0	< 100.0
HA8-	1.0	10-31-08	< 50.0	< 50.0	< 50.0	< 50.0	**540.0**	< 50.0	< 50.0	< 50.0

Underlined value indicates concentration is equal to or exceeds the Indusrtial CHHSL value for soil.

Table 6 - VOC "Hits" in Soil Gas Summary
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Units	Benzene	Ethylbenzene	Toluene	Xylenes	sec-Butylbenzene	Isopropylbenzene	n-Propylbenzene	1,3,5-Tri-methylbenzene	Gasoline Range Organics
GS1	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**18.7**
GS1	5.0	10-12-07	ug/L	**0.265**	< 0.02	**1.08**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**29.1**
GS1	5.0	10-12-07	ug/L	**0.539**	< 0.02	**2.91**	**0.136**	< 0.02	< 0.02	< 0.02	< 0.02	**33.4**
GS2	5.0	10-12-07	ug/L	**0.821**	**0.421**	**5.62**	**2.64**	< 0.02	< 0.02	< 0.02	< 0.02	**35.9**
GS2	5.0	10-12-07	ug/L	**0.984**	**0.806**	**6.55**	**3.43**	< 0.02	< 0.02	**0.034**	**0.094**	**39.0**
GS3	5.0	10-12-07	ug/L	< 0.02	< 0.02	**0.299**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**3.76**
GS4	5.0	10-12-07	ug/L	**0.174**	< 0.02	**1.3**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**15.6**
GS5	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**1.08**
GS6	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**7.01**
GS7	5.0	10-12-07	ug/L	< 0.02	< 0.02	**0.14**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**16.7**
GS8	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**9.85**
GS9	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**8.82**
GS10	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**9.69**
GS11	5.0	10-12-07	ug/L	< 0.02	< 0.02	**0.461**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**25.8**
GS12	5.0	10-12-07	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.2
GS13	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS15	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS16	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS17	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS21	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS25	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS26	5.0	10-31-08	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
GS27	5.0	10-31-08	ug/L	< 0.02	**1.64**	< 0.02	< 0.02	**0.155**	**0.783**	**0.589**	**0.783**	

Blank value indicates that compound was not analyzed.

Underlined value indicates concentration exceeds industrial CHHSL value.

Table 7 - Methane in Soil Gas Summary
1510 East I Street, Wilmington, California

Location	Depth (feet)	Date Sampled	Methane	Units
GS13	5.0	10-31-08	< 10.0	ppmv
GS15	5.0	10-31-08	< 10.0	ppmv
GS16	5.0	10-31-08	**10.8**	ppmv
GS17	5.0	10-31-08	< 10.0	ppmv
GS21	5.0	10-31-08	< 10.0	ppmv
GS25	5.0	10-31-08	**13.5**	ppmv
GS26	5.0	10-31-08	< 10.0	ppmv
GS27	5.0	10-31-08	**7,580.0**	ppmv

Table 8 - TPH in Groundwater Smmary (ug/L)
1510 East I Street, Wilmington, California

Sample	Depth	Date	C6	C7	C8	C9-C10	C11-C12	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	C23-C24	C25-C28	C29-C32	C33-C36	C37-C40	C41-C44	C6-C44 Total
GS13	12	10/30/2008	16.0	81.0	100.0	59.0	19.0	10.0	24.0	31.0	60.0	41.0	65.0	81.0	49.0	19.0	10.0	21.0	***690.0***
GS15	12	10/30/2008	1.4	10.0	2.7	5.2	5.2	13.0	28.0	40.0	61.0	65.0	110.0	130.0	92.0	41.0	13.0	45.0	***660.0***
GS16	12	10/30/2008	2.1	17.0	12.0	10.0	8.5	7.8	12.0	17.0	28.0	31.0	48.0	50.0	30.0	8.5	3.0	22.0	***310.0***
GS19	12	10/30/2008	<	4.4	2.8	3.3	2.7	2.0	2.5	3.3	10.0	12.0	19.0	25.0	20.0	11.0	4.0	15.0	***140.0***
GS20	12	10/30/2008	<	6.8	2.1	2.4	2.6	2.8	4.6	5.8	11.0	12.0	24.0	24.0	20.0	8.1	8.4	25.0	***160.0***
GS21	12	10/30/2008	<	6.7	2.6	4.3	5.4	4.9	6.6	9.7	18.0	21.0	30.0	30.0	20.0	7.9	3.5	17.0	***190.0***
GS22	12	10/30/2008	<	10.0	3.8	3.8	5.1	8.7	33.0	63.0	88.0	71.0	95.0	120.0	58.0	23.0	4.6	30.0	***620.0***
GS23	12	10/30/2008	<	8.1	1.7	3.2	3.6	2.6	6.6	9.6	18.0	17.0	34.0	30.0	21.0	4.3	10.0	14.0	***180.0***
GS25	12	10/31/2008	<	<	1.1	14.0	32.0	59.0	69.0	80.0	72.0	91.0	100.0	90.0	75.0	40.0	26.0	24.0	***780.0***
GS26	12	10/31/2008	<	<	<	<	<	<	5.9	<	49.0	9.1	100.0	42.0	32.0	14.0	6.3	2.1	***260.0***
GS27	12	10/31/2008	<	<	<	79.0	680.0	1,600.0	3,900.0	4,200.0	5,700.0	4,200.0	2,900.0	3,300.0	3,100.0	1,800.0	1,600.0	880.0	***34,000.0***
GS30	12	10/31/2008	<	<	<	<	<	<	<	1.6	7.7	5.4	11.0	32.0	24.0	12.0	5.1	<	***98.0***

TPH = Total Petroleum Hydrocarbon - EPA Method 8015B (M) C6-C44

C = Carbon Chain Range

"<" in C6 through C41-C44 columns indicates compound not detected. Laboratory detection limits for individual carbon chain ranges was not supplied by laboratory.

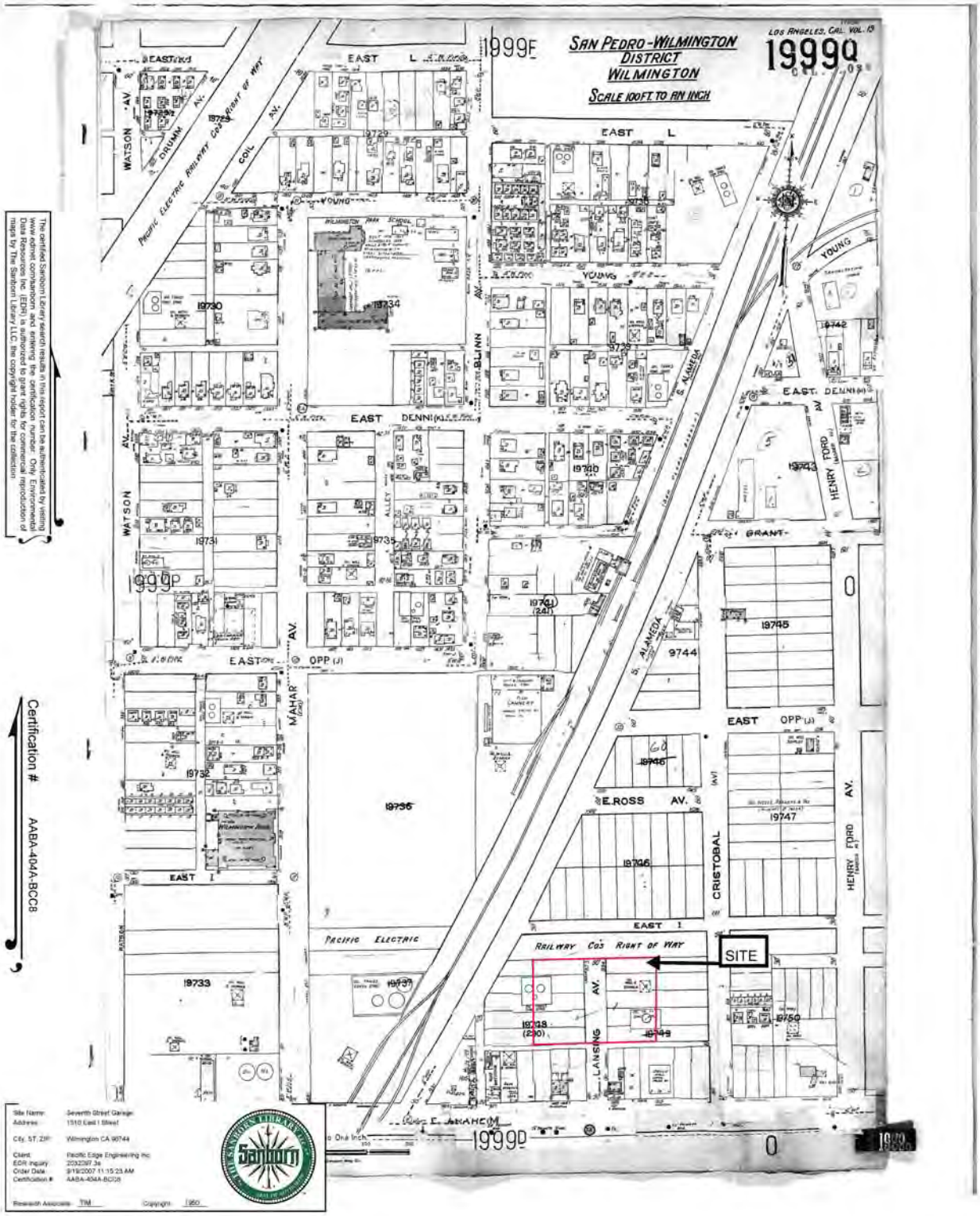
Table 9 - VOC "Hits" in Water Summary (ug/L)
1510 East I Street, Wilmington, California

Sample ID	Depth (feet)	Date Sampled	Benzene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	MTBE	sec-Butylbenzene	c-1,2-Dichloroethene	t-1,2-Dichloroethene	Trichloroethene
GS13	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS15	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS16	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS19	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0	< 1.0
GS20	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.5**	**1.5**	**2.8**
GS21	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS22	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS23	12.0	10-30-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS25	12.0	10-31-08	< 0.5	< 1.0	**1.6**	< 10.0	**1.5**	**2.8**	**1.4**	**1.6**	**2.9**	< 1.0	< 1.0
GS26	12.0	10-31-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GS27	12.0	10-31-08	**0.64**	**1.1**	**15.0**	**29.0**	**4.1**	**16.0**	< 1.0	**6.3**	< 1.0	< 1.0	< 1.0
GS30	12.0	10-31-08	< 0.5	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Detected concentrations do not exceed respective MCL

Appendix A

SANBORN MAP (1950)


SAN PEDRO - WILMINGTON
DISTRICT
WILMINGTON
SCALE 100 FT. TO AN INCH
LOS ANGELES, CAL. VOL. 13
1999
1999F
1999P
1999D
EAST
L
YOUNG
DENNIS
GRANT
OPP (J)
WATSON AV.
S. ALAMEDA
S. BLINN
MAHAR
E. ROSS AV.
CRISTOBAL
HENRY FORD AV.
PACIFIC ELECTRIC RAILWAY CO'S RIGHT OF WAY
SITE
19730
19734
19729
19731
19735
19732
19736
19733
19737
19720
19738 (230)
19739
9744
19745
19746
19747
19748
19749
19750
19742
19743
Site Name: Seventh Street Garage
Address: 1510 East I Street
City, ST, ZIP: Wilmington CA 90744
Client: Pacific Edge Engineering Inc
EDR Inquiry: 2032397.3s
Order Date: 8/9/2007 11:15:23 AM
Certification #: AABA-404A-BCC8
Research Associate: TIM
Copyright: 1960
Certification # AABA-404A-BCC8

Appendix B

BORING LOGS

(949) 470-1937; (949) 470-0943 (FAX)

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS13

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SC	0	6" - 2' 10YR4/4 (dark yellowish brown), moist, CLAYEY SILTY VERY FINE SAND (20,30,40), scattered fine sand (10), no odor
		NR			2' - 4' No Returns
			SM	0.3	4' - 5' 10YR3/3 (dark brown), moist, SILTY VERY FINE SAND (30,55), scattered fine sand (10), trace clay (5), no odor
5		SMPL			5' - 5'6" Sample
			CL		5'6" - 6' 10YR4/4 (dark yellowish brown), moist, SILTY CLAY (45,40), scattered very fine sand (10), trace fine sand (5), no odor
		NR			6' - 8' No Returns
			CL	0	8' - 9'6" 2.5Y5/4 (light olive brown), moist, SILTY VERY FINELY SANDY CLAY (40,30,25), trace fine sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS14

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM		6" - 2'	10YR4/3 (brown), moist, SILTY FINE TO MEDIUM SAND (15,30,30) scattered very fine sand (10), scattered angular gravel (10), trace coarse sand (5), no odor	
		NR			2' - 4'	No Returns	
			CL		4' - 5'	10YR4/4 (dark yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (45,30,15), scattered fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SP		8' - 9'	2.5Y5/4 (light olive brown), moist, FINE TO MEDIUM SAND (25,55), scattered silt (10), scattered very fine sand (10), no odor	
			ML		9' - 9'6"	2.5Y6/4 (light yellowish brown), moist, CLAYEY VERY FINELY SANDY SILT (20,60,15), trace fine sand (5), no odor	
10		SMPL			9'6" - 10'	Sample	
					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS15

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SP	2.3	6" - 1'6" 10YR5/4 (yellowish brown), moist, MEDIUM TO COARSE SAND (40, 30), scattered fine sand (10), scattered angular gravel (10), trace silt (5), trace fine sand (5), no odor
		NR			1'6" - 4' No Returns
			SM	0	4' - 5' 10YR4/3 (brown), moist, VERY FINELY TO FINELY SANDY SILT (60,20,15), trace clay (5), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			CL	0	8' - 9'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (45,25,20), scattered fine sand (10), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS16

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 1'6"	10YR4/3 (brown), SILTY VERY FINE TO FINE SAND (15,20,40), trace clay (5), scattered medium sand (10), trace coarse sand (5), trace angular gravel (5), no odor	
		NR			1'6" - 4'	No Returns	
			CL	0	4' - 5'	10YR5/4 (yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (45,30,15), scattered fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
					5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			SM	0.1	8' - 9'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINE TO FINE SAND (15,25,50), scattered medium sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS17

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM		6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (20,30,40), trace clay (5), trace medium sand (5), no odor
		NR			1'6" - 4' No Returns
			SM		4' - 5' 10YR4/3 (brown), moist, SILTY VERY FINE TO FINE SAND (15,35,45), trace clay (5), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			CL		8' - 9'6" 2.5Y4/4 (olive brown), moist, SILTY VERY FINELY SANDY CLAY (50,20,20), scattered fine sand (10), no odor
		SMPL			9'6" - 10' Sample
10		NR			10' - 14' No Returns
			CL		14' - 16' 2.5Y5/2 (grayish brown), saturated, SILTY VERY FINELY SANDY CLAY (45,30,15), scattered fine sand (10), no odor
15					Estimated Groundwater Depth = 10'6" to 12'
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS18

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (20,50,20), scattered clay (10), no odor
		NR			1'6" - 4' No Returns
			CL	0	4' - 5' 10YR4/4 (dark yellowish brown), moist, SILTY CLAY (50,35), scattered very fine sand (10), trace fine sand (5), no odor
5		SMPL			5' - 5'6" Sample
			SM		5'6" - 6' 10YR4/6 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (25,40,20), scattered medium sand (10), trace clay (5), no odor
		NR			6' - 8' No Returns
			CL	0	8' - 9' 2.5Y4/4 (olive brown), moist, SILTY CLAY (50,40), scattered very fine sand (10), no odor
		SMPL			9' - 9'6" Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS19

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/3 (brown), moist, SILTY VERY FINE TO FINE SAND (15,50,25), trace medium sand (5), trace angular gravel (5), no odor
		NR			1'6" - 4' No Returns
			CL	1.8	4' - 5' 10YR4/4 (dark yellowish brown), moist, SILTY CLAY (50,35), scattered very fine sand (10), trace fine sand (5), no odor
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			CL	0	8' - 9'6" 2.5Y4/4 (olive brown), moist, SILTY VERY FINELY SANDY CLAY (50,15,20), scattered fine sand (10), trace medium sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS20

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	20.1	6" - 1' 10YR3/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (25,40,20), scattered clay (10), trace sub-angular gravel (5), no odor
			SM		1' - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE TO FINE SAND (20,50,20), trace clay (5), trace medium sand (5), no odor
		NR			1'6" - 4' No Returns
			ML	0.6	4' - 5' 10YR4/4 (dark yellowish brown), moist, VERY FINELY TO FINELY SANDY SILT (45,25,15), scattered clay (10), trace medium sand (5), no odor
5		SMPL			5' - 5'6" Sample
			SM		5'6" - 6' 10YR4/4 (dark yellowish brown), moist, CLAYEY SILTY VERY FINE SAND (25,25,40), scattered fine sand (10), no odor
		NR			6' - 8' No Returns
			ML	0	8' - 9'6" 2.5Y6/2 (light brownish gray), moist, VERY FINELY SANDY SILT (20,65), scattered clay (10), trace fine sand (5), no odor
		SMPL			9'6" - 10' Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS21

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR3/3 (dark brown), moist, SILTY VERY FINE TO FINE SAND (30,40,20), scattered clay (10), no odor	
		NR			2' - 4'	No Returns	
			ML	0	4' - 5'	10YR4/4 (dark yellowish brown), moist, CLAYEY SILT (35,50), scattered very fine sand (10), trace fine sand (5), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SP	0	8' - 9'	2.5Y5/0 (light olive brown), FINE TO MEDIUM SAND (20,65), scattered very fine sand (10), trace coarse sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS22

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			CL	0	6" - 1'6"	10YR4/4 (dark yellowish brown), moist, SILTY VERY FINELY SANDY CLAY (55,20,15), scattered fine sand (10), no odor	
		NR			1'6" - 4'	No Returns	
			SM	0	4' - 5'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINE SAND (50,30), scattered clay (10), scattered fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			ML	0	8' - 9'	2.5Y5/2 (grayish brown), moist, CLAYEY SILT (30,60), scattered very fine sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS23

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			ML	0	6" - 1'6"	10YR4/2 (dark grayish brown), moist, VERY FINELY SANDY SILT (50,35), scattered clay (10), trace fine sand (5), no odor	
		NR			1'6" - 4'	No Returns	
			CL	0.4	4' - 5'	10YR4/4 (dark yellowish brown), moist, SILTY CLAY (65,25), scattered very fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
			CL		5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			CL	0	8' - 9'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINELY SANDY CLAY (40,30,25), trace fine sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS24

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 9"	10YR4/3 (brown), moist, SILTY VERY FINE SAND (25,65), scattered fine sand (10), no odor	
		NR			9" - 4'	No Returns	
			SM	0	4' - 5'	10YR4/6 (dark yellowish brown), moist, SILTY VERY FINE SAND (35,45), scattered clay (10), scattered fine sand (10), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SM	0	8' - 9'	2.5Y5/4 (light olive brown), moist, SILTY VERY FINE TO FINE SAND (30,50,15), trace medium sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS25

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 9"	10YR3/6 (dark yellowish brown), moist, SILTY VERY FINE SAND (40,55), trace fine sand (5), no odor	
		NR			9" - 4'	No Returns	
			ML	0	4' - 5'	10YR4/4 (dark yellowish brown), moist, CLAYEY VERY FINELY SANDY SILT (25,45,30), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			ML	0	8' - 9'	2.5Y5/6 (light olive brown), moist, CLAYEY SILT (40,50), scattered very fine sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS26

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR4/4 (dark yellowish brown), moist, CLAYEY SILTY VERY FINE SAND (35,20,40), trace fine sand (5), no odor	
		NR			2' - 4'	No Returns	
			ML	0	4' - 5'	2.5Y5/6 (light olive brown), moist, VERY FINELY SANDY SILT (55,35), trace clay (5), trace fine sand (5), no odor	
5		SMPL			5' - 5'6"	Sample	
			ML		5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			SP	0	8' - 9'	2.5Y6/4 (light yellowish brown), moist, FINE TO MEDIUM SAND (35,60), trace very fine sand (5), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS27

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE SAND (45,55), no odor	
		NR			2' - 4'	No Returns	
			ML	0	4' - 5'	2.5Y4/4 (olive brown), moist, CLAYEY VERY FINELY SANDY SILT (25,50,25), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SM	1556	8' - 9'	2.5Y4/2 (dark grayish brown), SILTY VERY FINE SAND (40,55), trace clay (5), strong petroleum odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS28

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 1'6"	10YR4/3 (brown), moist, SILTY VERY FINE SAND (35,55), trace clay (5), trace fine sand (5), no odor	
		NR			1'6" - 4'	No Returns	
			SP	0	4' - 5'	10YR5/6 (yellowish brown), moist, VERY FINE TO FINE SAND (30,50), scattered silt (10), scattered medium sand (10), trace clay (5), no odor	
5		SMPL			5' - 5'6"	Sample	
			SP		5'6" - 6'	Same as above	
		NR			6' - 8'	No Returns	
			SM	0	8' - 9'	10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE SAND (30,50), scattered clay (10), scattered fine sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS29

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION
		SMPL			0 - 6" Sample
			SM	0	6" - 1'6" 10YR4/4 (dark yellowish brown), moist, SILTY VERY FINE SAND (30,60), scattered fine sand (10), no odor
		NR			1'6" - 4' No Returns
			SM	0	4' - 5' Same as above
5		SMPL			5' - 5'6" Sample
		NR			5'6" - 8' No Returns
			SM	0	8' - 9' 2.5Y5/4 (light olive brown), moist, SILTY VERY FINE SAND (20,70), scattered very fine sand (10), no odor
		SMPL			9' - 9'6" Sample
10					Estimated Groundwater Depth = 10'6" to 12'
15					
20					
25					
30					

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS30

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 1'6"	10YR4/3 (brown), moist, SILTY VERY FINE SAND (30,60), scattered fine sand (10), no odor	
		NR			1'6" - 4'	No Returns	
			SM	0	4' - 5'	10YR4/6 (dark yellowish brown), SILTY VERY FINE TO FINE SAND (20,60,20), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			SC	0	8' - 9'	2.5Y5/4 (light olive brown), moist, CLAYEY VERY FINE TO FINE SAND (15,40,25), scattered silt (10), scattered medium sand (10), no odor	
		SMPL			9' - 9'6"	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

PROJECT NAME:	0108.0058.015.001	DRILLING METHOD/DIAMETER:	Geoprobe
LOCATION:	1510 East I Street, Wilmington CA	DRILLING COMPANY:	Coreprobe International
LOGGED BY:	SCOTT MILES	MONITORING EQUIPMENT:	PID
DATE:	10/30/2008	DROP/WEIGHT:	
ELEVATION:	UNKNOWN	NOTES:	

SOIL BORING LOG GS31

DEPTH (FEET)	BLOW COUNT	SAMPLE INTERVAL	USCS SYMBOL	PID READING	SOIL DESCRIPTION		
		SMPL			0 - 6"	Sample	
			SM	0	6" - 2'	10YR4/3 (brown), moist, SILTY VERY FINE SAND (30,60), scattered fine sand (10), no odor	
		NR			2' - 4'	No Returns	
			SM	0	4' - 5'	10YR4/6 (dark yellowish brown), SILTY VERY FINE TO FINE SAND (20,60,20), no odor	
5		SMPL			5' - 5'6"	Sample	
		NR			5'6" - 8'	No Returns	
			ML	0.5	8' - 9'6"	2.5Y5/4 (light olive brown), moist, VERY FINELY SANDY SILT (45,40), scattered clay (10), trace fine sand (5), no odor	
		SMPL			9'6" - 10'	Sample	
10					Estimated Groundwater Depth = 10'6" to 12'		
15							
20							
25							
30							

Appendix C

PACIFIC EDGE STANDARD OPERATING PROCEDURES

PACIFIC EDGE ENGINEERING, INC.
STANDARD OPERATING PROCEDURES
GEOPROBE SOIL SAMPLING

DRILLING PROCEDURES

A Geoprobe employs hydraulic power to push a probe unit into subsurface soil. The hydraulic mechanism is assisted by a drive hammer which provides additional force to penetrate dense or hard soil materials.

The probe unit consists of a 2-foot long, 1 3/4 inch diameter California-modified solid-spoon soil sampler and one to five-feet long threaded push rod. The sampler holds an acetate, brass, or stainless steel liner utilized to contain the soil sample. Acetate liners are generally used for collection of soil samples.

The Probe-Drive Sampler remains completely sealed while it is pushed or driven to the desired sampling depth. Once the target depth is reached, a retractable point which previously sealed the sampler is removed and the sampler is pushed an additional 28-inches. The rods and sampler are then retrieved, the sampler is disassembled, the sample tubes removed for identification and analysis, and the apparatus decontaminated prior to reuse. This method allows collection of discrete, relatively undisturbed soil samples from the Site.

SAMPLE COLLECTION

Upon retrieval of the sampler, the acetate sample liners from the desired sampling depths are capped with Teflon^{TM} sheets and plastic end caps. The top and bottom of the sample tube is marked. The sample tubes are labeled, placed in a cooler chilled to approximately 4^0C and shipped to an analytic laboratory under chain-of-custody documentation.

A portion of the sample not wrapped for analysis is placed in a zip-loc bag and allowed to sit for a minimum of 5 minutes. Head space readings are collected with a portable photo-ionization detector by placing the tip of the detector inside the plastic bag. Head space readings are recorded on the boring log. This soil is also inspected for texture, color, moisture content, and other distinguishing characteristics. Soil lithology is described using the Unified Soil Classification System and recorded on a soil boring log. The drilling log includes the sample depth, geologic observations, head space readings, and other details as outlined in California EPA's "Drilling, Coring, Sampling and Logging at Hazardous Substance Release Sites, Interim Final, 1994". All sampling activities are performed by or under the oversight of a California Registered Geologist.

Since samples are obtained by driving the sampling equipment into the subsurface rather than drilling, minimal drill cuttings are generated; thus minimizing the waste resulting from this operation. The boreholes are backfilled with cement grout or hydrated bentonite.

(949) 470-1937; (949) 470-0943 (FAX)

PACIFIC EDGE ENGINEERING, INC.
STANDARD OPERATING PROCEDURES
SOIL GAS SAMPLING - TEMPORARY SAMPLE POINTS

The following steps are generally utilized by Pacific Edge Engineering, Inc. for collection of soil gas samples from temporary sample points:

1) A Geoprobe is utilized to push a 1.25-inch diameter probe rod assembly into the ground until the desired depth is reached. The rod assembly is extracted and the open borehole is sounded to verify that caving has not occurred.
2) A vapor implant consisting of a porous stone is attached to the end of 1/4" O.D. x 0.17" I.D. poly tubing and the tubing/implant are threaded to the bottom of the open borehole.
3) A measured amount of sand filter pack is poured into the hole to cover the implant to an elevation approximately 6-inches above the implant.
4) Approximately 3-inches of powdered bentonite are placed into the borehole on top of the sand.
5) Temporary 1/4" O.D. x 0.17" I.D. poly tubing is threaded to the bottom of the borehole hole (top of powdered bentonite installed in Step 4). The tubing is connected to a water reservoir and is utilized to tremie water into the borehole for hydration of the bentonite.
6) Granular bentonite is slowly added to fill the remaining annulus of the borehole. The bentonite is hydrated through the tremie tube which is slowly removed as the granular bentonite is added.
7) A minimum of 30 minutes are allowed after setting the probe before collecting soil gas samples.
8) Immediately prior to sampling, laboratory grade Isopropyl Alcohol (IPA) is placed over the granular bentonite at the surface of the seal. The IPA serves as a tracer gas for surface leakage. Due to rapid volatization, additional IPA is added if the soil gas sample is not collected within 15-minutes of the initial placement of IPA.
9) The tubing/formation annuluses are purged with a low-flow air sampling pump or a calibrated syringe. The number of purge volumes is based on purge volume testing performed in accordance with Department of Toxic Substances Control (DTSC) "Advisory – Active Soil Gas Investigation" guideline dated January 28, 2003. The purge volume is calculated based on the following:
   - 0.25-inch Tubing (0.17-inch inside diameter) = 0.0045 liters/foot (*l/f*)
   - Open Formation - (assumes use of 1.25" diameter probe rods and 6-inch coarse sand pack with 39% porosity[1]) = 0.046 *l*

   Example - One purge volume for a 15-foot probe depth with 1-foot of tubing extending above ground = 0.0045 *l/ft* x 16 *ft* + 0.046 *l* = 0.118 *l*

[1] Porosity for coarse sand from Driscoll, Groundwater and Wells, 1986

(949) 470-1937; (949) 470-0943 (FAX)

10) A soil gas sample is collected with a calibrated glass syringe provided by the mobile laboratory. The syringe, upon sample collection, is immediately transferred to the mobile laboratory for analysis.

Appendix D

LABORATORY REPORTS – SOIL AND GRAB-GROUNDWATER

Calscience
Environmental
Laboratories, Inc.

November 06, 2008

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2683**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/30/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Emma C. Dennison
for

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 1 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-0.5'	**08-10-2683-1-A**	**10/30/08 08:35**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:29**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.87	0.750	1		Lead	154	0.500	1	
Cadmium	1.51	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:32**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	6.12	0.750	1		Lead	7.31	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-0.5'	**08-10-2683-4-A**	**10/30/08 09:07**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:34**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.74	0.750	1		Lead	38.0	0.500	1	
Cadmium	0.983	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:36**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.23	0.750	1		Lead	5.94	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-0.5'	**08-10-2683-7-A**	**10/30/08 09:40**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:38**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	7.83	0.750	1		Lead	261	0.500	1	
Cadmium	5.13	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:41**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.99	0.750	1		Lead	6.90	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 2 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-10'	**08-10-2683-9-A**	**10/30/08 09:50**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:43**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.40	0.750	1		Lead	7.96	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-0.5'	**08-10-2683-11-A**	**10/30/08 10:30**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:47**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.48	0.750	1		Lead	143	0.500	1	
Cadmium	2.28	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:49**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	1.89	0.750	1		Lead	3.60	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-0.5'	**08-10-2683-15-A**	**10/30/08 11:25**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:57**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.19	0.750	1		Lead	58.7	0.500	1	
Cadmium	0.750	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:59**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.39	0.750	1		Lead	7.74	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-0.5'	**08-10-2683-19-A**	**10/30/08 12:00**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:01**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.88	0.750	1		Lead	52.1	0.500	1	
Cadmium	0.966	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 3 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-A**	**10/30/08 12:05**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:04**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.51	0.750	1		Lead	7.23	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-0.5'	**08-10-2683-22-A**	**10/30/08 12:50**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:06**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.28	0.750	1		Lead	50.9	0.500	1	
Cadmium	1.29	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-1'	**08-10-2683-23-A**	**10/30/08 12:52**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:08**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.29	0.750	1		Lead	30.8	0.500	1	
Cadmium	0.569	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-0.5'	**08-10-2683-27-A**	**10/30/08 13:20**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:10**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.49	0.750	1		Lead	85.7	0.500	1	
Cadmium	1.48	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-1'	**08-10-2683-28-A**	**10/30/08 13:22**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:12**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	1.74	0.750	1		Lead	22.6	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-0.5'	**08-10-2683-32-A**	**10/30/08 13:55**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:14**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.16	0.750	1		Lead	10.4	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 4 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-1'	**08-10-2683-33-A**	**10/30/08 13:57**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:16**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.90	0.750	1		Lead	19.1	0.500	1	
Cadmium	0.698	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-0.5'	**08-10-2683-36-A**	**10/30/08 14:30**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:24**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.43	0.750	1		Lead	493	0.500	1	
Cadmium	2.60	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-1'	**08-10-2683-37-A**	**10/30/08 14:33**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:26**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	9.05	0.750	1		Lead	1180	0.500	1	
Cadmium	11.1	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-0.5'	**08-10-2683-42-A**	**10/30/08 15:10**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:28**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.72	0.750	1		Lead	153	0.500	1	
Cadmium	1.40	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 21:30**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	4.84	0.750	1		Lead	5.03	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,689**	**N/A**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 20:17**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 5 of 5

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,692**	**N/A**	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08 19:12**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3010A Total
	Method:	EPA 6010B
	Units:	mg/L
Project: POLA-7th Street Garage		Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-GW	**08-10-2683-14-E**	**10/30/08 11:05**	**Aqueous**	**ICP 5300**	**10/31/08**	**11/04/08 13:10**	**081031LA3**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.220	0.0100	1		Lead	0.285	0.0100	1	
Cadmium	0.0110	0.00500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-8,777**	**N/A**	**Aqueous**	**ICP 5300**	**10/31/08**	**11/03/08 10:33**	**081031LA3**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.0100	1		Lead	ND	0.0100	1	
Cadmium	ND	0.00500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 06:45**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.20		1	
C7	ND		1		C23-C24	0.19		1	
C8	ND		1		C25-C28	1.7		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.28		1		C33-C36	ND		1	
C13-C14	0.39		1		C37-C40	ND		1	
C15-C16	0.59		1		C41-C44	ND		1	
C17-C18	0.25		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.18		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-9.5'	**08-10-2683-3-A**	**10/30/08 08:45**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 07:25**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		2		C21-C22	2.2		2	
C7	ND		2		C23-C24	3.2		2	
C8	ND		2		C25-C28	13		2	
C9-C10	ND		2		C29-C32	14		2	
C11-C12	ND		2		C33-C36	12		2	
C13-C14	0.30		2		C37-C40	14		2	
C15-C16	1.0		2		C41-C44	8.3		2	
C17-C18	1.1		2		C6-C44 Total	70	10	2	
C19-C20	1.7		2						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 08:06**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.090		1	
C8	ND		1		C25-C28	0.85		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.12		1		C33-C36	ND		1	
C13-C14	0.13		1		C37-C40	ND		1	
C15-C16	0.32		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-10'	**08-10-2683-6-A**	**10/30/08 09:15**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 08:45**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.39		1	
C7	ND		1		C23-C24	0.22		1	
C8	ND		1		C25-C28	1.4		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.27		1		C33-C36	ND		1	
C13-C14	0.18		1		C37-C40	ND		1	
C15-C16	0.45		1		C41-C44	ND		1	
C17-C18	0.13		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.15		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	115	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 09:27**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	0.35		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-10'	**08-10-2683-9-A**	**10/30/08 09:50**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 10:08**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.11		1	
C7	ND		1		C23-C24	0.084		1	
C8	ND		1		C25-C28	2.7		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.31		1		C33-C36	ND		1	
C13-C14	0.26		1		C37-C40	ND		1	
C15-C16	0.67		1		C41-C44	ND		1	
C17-C18	0.13		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 10:50**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.22		1	
C7	ND		1		C23-C24	0.27		1	
C8	ND		1		C25-C28	0.72		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.17		1		C33-C36	ND		1	
C13-C14	0.30		1		C37-C40	ND		1	
C15-C16	0.49		1		C41-C44	ND		1	
C17-C18	0.11		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.19		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

GS15-10'	**08-10-2683-13-A**	**10/30/08 10:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 11:30**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.16		1	
C7	ND		1		C23-C24	0.12		1	
C8	ND		1		C25-C28	8.4		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.62		1		C33-C36	ND		1	
C13-C14	0.24		1		C37-C40	ND		1	
C15-C16	1.5		1		C41-C44	ND		1	
C17-C18	0.14		1		C6-C44 Total	11	5.0	1	
C19-C20	0.15		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 12:12**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.044		1	
C8	ND		1		C25-C28	0.58		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.060		1		C37-C40	ND		1	
C15-C16	0.23		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-10'	**08-10-2683-17-A**	**10/30/08 11:35**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 12:54**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.11		1	
C7	ND		1		C23-C24	0.14		1	
C8	ND		1		C25-C28	4.5		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.44		1		C33-C36	ND		1	
C13-C14	0.30		1		C37-C40	ND		1	
C15-C16	0.86		1		C41-C44	ND		1	
C17-C18	0.12		1		C6-C44 Total	6.6	5.0	1	
C19-C20	0.14		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	121	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-A**	**10/30/08 12:05**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 14:20**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.0063		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	0.55		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.050		1		C37-C40	ND		1	
C15-C16	0.29		1		C41-C44	ND		1	
C17-C18	0.13		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.087		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-10'	**08-10-2683-21-A**	**10/30/08 12:15**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 15:02**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-1'	**08-10-2683-23-A**	**10/30/08 12:52**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 15:45**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		3		C21-C22	3.8		3	
C7	ND		3		C23-C24	5.9		3	
C8	ND		3		C25-C28	22		3	
C9-C10	ND		3		C29-C32	26		3	
C11-C12	0.27		3		C33-C36	21		3	
C13-C14	0.99		3		C37-C40	34		3	
C15-C16	1.5		3		C41-C44	15		3	
C17-C18	1.6		3		C6-C44 Total	130	15	3	
C19-C20	3.0		3						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

GS19-5'	08-10-2683-24-A	10/30/08 12:55	Solid	GC 3	10/31/08	11/01/08 16:27	081031B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	1.3		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.19		1		C37-C40	ND		1	
C15-C16	0.31		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-10'	**08-10-2683-25-A**	**10/30/08 13:00**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 17:09**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.17		1	
C7	ND		1		C23-C24	0.14		1	
C8	ND		1		C25-C28	6.2		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.46		1		C33-C36	ND		1	
C13-C14	0.61		1		C37-C40	ND		1	
C15-C16	1.7		1		C41-C44	ND		1	
C17-C18	0.19		1		C6-C44 Total	9.6	5.0	1	
C19-C20	0.19		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-5'	**08-10-2683-29-A**	**10/30/08 13:28**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 17:50**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.064		1	
C8	ND		1		C25-C28	9.7		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.73		1		C33-C36	ND		1	
C13-C14	0.32		1		C37-C40	ND		1	
C15-C16	1.7		1		C41-C44	ND		1	
C17-C18	0.17		1		C6-C44 Total	13	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-10'	**08-10-2683-30-A**	**10/30/08 13:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 18:31**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.42		1	
C7	ND		1		C23-C24	0.82		1	
C8	ND		1		C25-C28	1.0		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.36		1		C33-C36	ND		1	
C13-C14	0.34		1		C37-C40	ND		1	
C15-C16	0.55		1		C41-C44	ND		1	
C17-C18	0.18		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.17		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-5'	**08-10-2683-34-A**	**10/30/08 14:01**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 19:13**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	2.6		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
	Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-10'	**08-10-2683-35-A**	**10/30/08 14:05**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 19:53**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-5'	**08-10-2683-38-A**	**10/30/08 14:40**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 20:34**	**081031B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.95		1	
C7	ND		1		C23-C24	4.3		1	
C8	ND		1		C25-C28	2.6		1	
C9-C10	0.034		1		C29-C32	1.6		1	
C11-C12	0.12		1		C33-C36	0.096		1	
C13-C14	0.21		1		C37-C40	ND		1	
C15-C16	0.40		1		C41-C44	ND		1	
C17-C18	0.17		1		C6-C44 Total	11	5.0	1	
C19-C20	0.42		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-10'	**08-10-2683-39-A**	**10/30/08 14:45**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 22:12**	**081031B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.17		1	
C7	ND		1		C23-C24	8.0		1	
C8	ND		1		C25-C28	0.10		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.20		1		C33-C36	ND		1	
C13-C14	0.27		1		C37-C40	ND		1	
C15-C16	0.56		1		C41-C44	ND		1	
C17-C18	0.37		1		C6-C44 Total	10	5.0	1	
C19-C20	0.82		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 22:52**	**081031B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.32		1	
C7	ND		1		C23-C24	0.31		1	
C8	ND		1		C25-C28	0.34		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.16		1		C33-C36	ND		1	
C13-C14	0.22		1		C37-C40	ND		1	
C15-C16	0.50		1		C41-C44	ND		1	
C17-C18	0.27		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.20		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-10'	**08-10-2683-44-A**	**10/30/08 15:20**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 23:32**	**081031B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.17		1	
C7	ND		1		C23-C24	0.25		1	
C8	ND		1		C25-C28	3.5		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.30		1		C33-C36	ND		1	
C13-C14	0.26		1		C37-C40	ND		1	
C15-C16	1.0		1		C41-C44	ND		1	
C17-C18	0.27		1		C6-C44 Total	5.9	5.0	1	
C19-C20	0.20		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

Method Blank	**099-12-275-2,274**	**N/A**	**Solid**	**GC 3**	**10/31/08**	**10/31/08 18:56**	**081031B06**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

Method Blank	**099-12-275-2,275**	**N/A**	**Solid**	**GC 3**	**10/31/08**	**11/01/08 03:26**	**081031B05**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)
	Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-GW	**08-10-2683-10-E**	**10/30/08 10:00**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 19:37**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	16		1		C21-C22	41		1	
C7	81		1		C23-C24	65		1	
C8	100		1		C25-C28	81		1	
C9-C10	59		1		C29-C32	49		1	
C11-C12	19		1		C33-C36	19		1	
C13-C14	10		1		C37-C40	10		1	
C15-C16	24		1		C41-C44	21		1	
C17-C18	31		1		C6-C44 Total	690	50	1	
C19-C20	60		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	68-140	

GS15-GW	08-10-2683-14-E	10/30/08 11:05	Aqueous	GC 47	10/31/08	11/03/08 19:54	081031B09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	1.4		1		C21-C22	65		1	
C7	10		1		C23-C24	110		1	
C8	2.7		1		C25-C28	130		1	
C9-C10	5.2		1		C29-C32	92		1	
C11-C12	5.2		1		C33-C36	41		1	
C13-C14	13		1		C37-C40	13		1	
C15-C16	28		1		C41-C44	45		1	
C17-C18	40		1		C6-C44 Total	660	50	1	
C19-C20	61		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-GW	**08-10-2683-18-E**	**10/30/08 11:45**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 20:46**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	2.1		1		C21-C22	31		1	
C7	17		1		C23-C24	48		1	
C8	12		1		C25-C28	50		1	
C9-C10	10		1		C29-C32	30		1	
C11-C12	8.5		1		C33-C36	8.5		1	
C13-C14	7.8		1		C37-C40	3.0		1	
C15-C16	12		1		C41-C44	22		1	
C17-C18	17		1		C6-C44 Total	310	50	1	
C19-C20	28		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-GW	**08-10-2683-26-E**	**10/30/08 13:10**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:03**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	12		1	
C7	4.4		1		C23-C24	19		1	
C8	2.8		1		C25-C28	25		1	
C9-C10	3.3		1		C29-C32	20		1	
C11-C12	2.7		1		C33-C36	11		1	
C13-C14	2.0		1		C37-C40	4.0		1	
C15-C16	2.5		1		C41-C44	15		1	
C17-C18	3.3		1		C6-C44 Total	140	50	1	
C19-C20	10		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-GW	**08-10-2683-31-E**	**10/30/08 13:50**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:20**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	12		1	
C7	6.8		1		C23-C24	24		1	
C8	2.1		1		C25-C28	24		1	
C9-C10	2.4		1		C29-C32	20		1	
C11-C12	2.6		1		C33-C36	8.1		1	
C13-C14	2.8		1		C37-C40	8.4		1	
C15-C16	4.6		1		C41-C44	25		1	
C17-C18	5.8		1		C6-C44 Total	160	50	1	
C19-C20	11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-GW	**08-10-2683-40-E**	**10/30/08 14:15**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:37**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	17		1	
C7	8.1		1		C23-C24	34		1	
C8	1.7		1		C25-C28	30		1	
C9-C10	3.2		1		C29-C32	21		1	
C11-C12	3.6		1		C33-C36	4.3		1	
C13-C14	2.6		1		C37-C40	10		1	
C15-C16	6.6		1		C41-C44	14		1	
C17-C18	9.6		1		C6-C44 Total	180	50	1	
C19-C20	18		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-GW	**08-10-2683-41-E**	**10/30/08 15:00**	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08 21:54**	**081031B09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	71		1	
C7	10		1		C23-C24	95		1	
C8	3.8		1		C25-C28	120		1	
C9-C10	3.8		1		C29-C32	58		1	
C11-C12	5.1		1		C33-C36	23		1	
C13-C14	8.7		1		C37-C40	4.6		1	
C15-C16	33		1		C41-C44	30		1	
C17-C18	63		1		C6-C44 Total	620	50	1	
C19-C20	88		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

GS21-GW	08-10-2683-45-E	10/30/08 15:30	Aqueous	GC 47	10/31/08	11/03/08 22:11	081031B09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	21		1	
C7	6.7		1		C23-C24	30		1	
C8	2.6		1		C25-C28	30		1	
C9-C10	4.3		1		C29-C32	20		1	
C11-C12	5.4		1		C33-C36	7.9		1	
C13-C14	4.9		1		C37-C40	3.5		1	
C15-C16	6.6		1		C41-C44	17		1	
C17-C18	9.7		1		C6-C44 Total	190	50	1	
C19-C20	18		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	68-140	

Method Blank	099-12-330-801	N/A	Aqueous	GC 47	10/31/08	11/03/08 15:56	081031B09

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 16:26**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	94	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	72	34-148							

GS17-10'	**08-10-2683-6-A**	**10/30/08 09:15**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 17:12**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	102	18-162			2-Fluorobiphenyl	91	14-146		
p-Terphenyl-d14	76	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-0.5'	**08-10-2683-7-A**	**10/30/08 09:40**	**Solid**	**GC/MS GG**	**10/31/08**	**11/06/08 01:09**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	99	18-162			2-Fluorobiphenyl	84	14-146		
p-Terphenyl-d14	94	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 17:58**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	97	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	67	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 18:44**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	210	18-162		2	2-Fluorobiphenyl	183	14-146		2
p-Terphenyl-d14	56	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 19:30**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	52	18-162			2-Fluorobiphenyl	50	14-146		
p-Terphenyl-d14	41	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-10'	**08-10-2683-21-A**	**10/30/08 12:15**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 20:17**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	91	18-162			2-Fluorobiphenyl	82	14-146		
p-Terphenyl-d14	68	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-5'	**08-10-2683-24-A**	**10/30/08 12:55**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 21:02**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	73	18-162			2-Fluorobiphenyl	70	14-146		
p-Terphenyl-d14	59	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-1'	**08-10-2683-28-A**	**10/30/08 13:22**	**Solid**	**GC/MS GG**	**10/31/08**	**11/06/08 01:55**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	0.033	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	0.030	0.020	1		Chrysene	0.023	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	0.035	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	0.029	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	305	18-162		2	2-Fluorobiphenyl	357	14-146		2
p-Terphenyl-d14	104	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-10'	**08-10-2683-35-A**	**10/30/08 14:05**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 21:49**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	83	18-162			2-Fluorobiphenyl	76	14-146		
p-Terphenyl-d14	67	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-5'	**08-10-2683-38-A**	**10/30/08 14:40**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 22:35**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	91	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	72	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 23:22**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	89	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	62	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-241**	**N/A**	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08 11:49**	**081031L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	109	18-162			2-Fluorobiphenyl	92	14-146		
p-Terphenyl-d14	73	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-0.5'	**08-10-2683-1-A**	**10/30/08 08:35**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 16:40**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	53	50-130		

GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 16:59**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	54	50-130			2,4,5,6-Tetrachloro-m-Xylene	53	50-130		

GS17-0.5'	**08-10-2683-4-A**	**10/30/08 09:07**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 17:18**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	88	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 18:15**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	54	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-0.5'	**08-10-2683-7-A**	**10/30/08 09:40**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 18:34**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	63	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	64	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	59	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 12:45**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	86	50-130			2,4,5,6-Tetrachloro-m-Xylene	66	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-0.5'	**08-10-2683-11-A**	**10/30/08 10:30**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 13:04**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	54	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-A**	**10/30/08 10:35**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 22:03**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	65	50-130			2,4,5,6-Tetrachloro-m-Xylene	93	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-0.5'	**08-10-2683-15-A**	**10/30/08 11:25**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 19:51**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	62	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-A**	**10/30/08 11:30**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 22:32**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	69	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-0.5'	**08-10-2683-19-A**	**10/30/08 12:00**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 22:51**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	300	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	340	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	58	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-A**	**10/30/08 12:05**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 22:22**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	63	50-130			2,4,5,6-Tetrachloro-m-Xylene	83	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-0.5'	**08-10-2683-22-A**	**10/30/08 12:50**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 23:29**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	68	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	51	50-130		

GS19-1'	**08-10-2683-23-A**	**10/30/08 12:52**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 23:48**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	120	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	52	50-130			2,4,5,6-Tetrachloro-m-Xylene	57	50-130		

GS20-0.5'	**08-10-2683-27-A**	**10/30/08 13:20**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 00:07**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	97	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	94	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	59	50-130			2,4,5,6-Tetrachloro-m-Xylene	61	50-130		

GS20-1'	**08-10-2683-28-A**	**10/30/08 13:22**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 13:23**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	74	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-0.5'	**08-10-2683-32-A**	**10/30/08 13:55**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 23:19**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	100	2		Aroclor-1248	1600	100	2	
Aroclor-1221	ND	100	2		Aroclor-1254	590	100	2	
Aroclor-1232	ND	100	2		Aroclor-1260	ND	100	2	
Aroclor-1242	ND	100	2		Aroclor-1262	ND	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	63	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

GS23-1'	**08-10-2683-33-A**	**10/30/08 13:57**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 13:42**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	60	50-130			2,4,5,6-Tetrachloro-m-Xylene	62	50-130		

GS23-5'	**08-10-2683-34-A**	**10/30/08 14:01**	**Solid**	**GC 31**	**10/31/08**	**11/05/08 23:57**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	57	50-130			2,4,5,6-Tetrachloro-m-Xylene	55	50-130		

GS22-0.5'	**08-10-2683-36-A**	**10/30/08 14:30**	**Solid**	**GC 31**	**10/31/08**	**11/06/08 14:01**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	81	50-130			2,4,5,6-Tetrachloro-m-Xylene	61	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-1'	**08-10-2683-37-A**	**10/30/08 14:33**	**Solid**	**GC 16**	**10/31/08**	**11/05/08 20:14**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	250	5		Aroclor-1248	2100	250	5	
Aroclor-1221	ND	250	5		Aroclor-1254	1100	250	5	
Aroclor-1232	ND	250	5		Aroclor-1260	ND	250	5	
Aroclor-1242	ND	250	5		Aroclor-1262	ND	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	53	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

GS21-0.5'	**08-10-2683-42-A**	**10/30/08 15:10**	**Solid**	**GC 16**	**10/31/08**	**11/04/08 20:48**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

GS21-5'	**08-10-2683-43-A**	**10/30/08 15:15**	**Solid**	**GC 16**	**10/31/08**	**11/04/08 21:07**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	60	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		

Method Blank	**099-12-535-486**	**N/A**	**Solid**	**GC 16**	**10/31/08**	**11/03/08 10:51**	**081031L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	84	50-130			2,4,5,6-Tetrachloro-m-Xylene	108	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/30/08
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-488**	**N/A**	**Solid**	**GC 31**	**10/31/08**	**11/04/08 13:46**	**081031L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	119	50-130			2,4,5,6-Tetrachloro-m-Xylene	91	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-GW	**08-10-2683-10-D**	**10/30/08 10:00**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 14:23**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	82-130		1,2-Dichloroethane-d4	102	75-141	
Toluene-d8	98	83-113		1,4-Bromofluorobenzene	88	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-GW	**08-10-2683-14-D**	**10/30/08 11:05**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 14:50**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	98	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	91	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-GW	**08-10-2683-18-A**	**10/30/08 11:45**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 15:18**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	115	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	89	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-GW	**08-10-2683-26-D**	**10/30/08 13:10**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 15:45**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	1.8	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	82-130		1,2-Dichloroethane-d4	102	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	91	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-GW	**08-10-2683-31-D**	**10/30/08 13:50**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 16:12**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.8	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	4.5	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.5	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	82-130		1,2-Dichloroethane-d4	103	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	93	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-GW	**08-10-2683-40-D**	**10/30/08 14:15**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 16:39**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	116	82-130			1,2-Dichloroethane-d4	105	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	93	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-GW	**08-10-2683-41-D**	**10/30/08 15:00**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 17:06**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	112	82-130			1,2-Dichloroethane-d4	102	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	90	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-GW	**08-10-2683-45-C**	**10/30/08 15:30**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 17:34**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	82-130			1,2-Dichloroethane-d4	103	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	90	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,366**	**N/A**	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08 12:06**	**081104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	20	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	20	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	92	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-C**	**10/30/08 09:45**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 13:42**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.928		1,3-Dichloropropane	ND	0.93	0.928	
Benzene	ND	0.93	0.928		2,2-Dichloropropane	ND	4.6	0.928	
Bromobenzene	ND	0.93	0.928		1,1-Dichloropropene	ND	1.9	0.928	
Bromochloromethane	ND	1.9	0.928		c-1,3-Dichloropropene	ND	0.93	0.928	
Bromodichloromethane	ND	0.93	0.928		t-1,3-Dichloropropene	ND	1.9	0.928	
Bromoform	ND	4.6	0.928		Ethylbenzene	ND	0.93	0.928	
Bromomethane	ND	19	0.928		2-Hexanone	ND	19	0.928	
2-Butanone	ND	19	0.928		Isopropylbenzene	ND	0.93	0.928	
n-Butylbenzene	ND	0.93	0.928		p-Isopropyltoluene	ND	0.93	0.928	
sec-Butylbenzene	ND	0.93	0.928		Methylene Chloride	ND	9.3	0.928	
tert-Butylbenzene	ND	0.93	0.928		4-Methyl-2-Pentanone	ND	19	0.928	
Carbon Disulfide	ND	9.3	0.928		Naphthalene	ND	9.3	0.928	
Carbon Tetrachloride	ND	0.93	0.928		n-Propylbenzene	ND	1.9	0.928	
Chlorobenzene	ND	0.93	0.928		Styrene	ND	0.93	0.928	
Chloroethane	ND	1.9	0.928		1,1,1,2-Tetrachloroethane	ND	0.93	0.928	
Chloroform	ND	0.93	0.928		1,1,2,2-Tetrachloroethane	ND	1.9	0.928	
Chloromethane	ND	19	0.928		Tetrachloroethene	ND	0.93	0.928	
2-Chlorotoluene	ND	0.93	0.928		Toluene	8.6	0.93	0.928	
4-Chlorotoluene	ND	0.93	0.928		1,2,3-Trichlorobenzene	ND	1.9	0.928	
Dibromochloromethane	ND	1.9	0.928		1,2,4-Trichlorobenzene	ND	1.9	0.928	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.928		1,1,1-Trichloroethane	ND	0.93	0.928	
1,2-Dibromoethane	ND	0.93	0.928		1,1,2-Trichloroethane	ND	0.93	0.928	
Dibromomethane	ND	0.93	0.928		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.928	
1,2-Dichlorobenzene	ND	0.93	0.928		Trichloroethene	ND	1.9	0.928	
1,3-Dichlorobenzene	ND	0.93	0.928		Trichlorofluoromethane	ND	9.3	0.928	
1,4-Dichlorobenzene	ND	0.93	0.928		1,2,3-Trichloropropane	ND	1.9	0.928	
Dichlorodifluoromethane	ND	1.9	0.928		1,2,4-Trimethylbenzene	ND	1.9	0.928	
1,1-Dichloroethane	ND	0.93	0.928		1,3,5-Trimethylbenzene	ND	1.9	0.928	
1,2-Dichloroethane	ND	0.93	0.928		Vinyl Acetate	ND	9.3	0.928	
1,1-Dichloroethene	ND	0.93	0.928		Vinyl Chloride	ND	0.93	0.928	
c-1,2-Dichloroethene	ND	0.93	0.928		p/m-Xylene	ND	1.9	0.928	
t-1,2-Dichloroethene	ND	0.93	0.928		o-Xylene	ND	0.93	0.928	
1,2-Dichloropropane	ND	0.93	0.928		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.928	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	128	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 2 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-10'	**08-10-2683-9-C**	**10/30/08 09:50**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 14:09**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.845		1,3-Dichloropropane	ND	0.84	0.845	
Benzene	ND	0.84	0.845		2,2-Dichloropropane	ND	4.2	0.845	
Bromobenzene	ND	0.84	0.845		1,1-Dichloropropene	ND	1.7	0.845	
Bromochloromethane	ND	1.7	0.845		c-1,3-Dichloropropene	ND	0.84	0.845	
Bromodichloromethane	ND	0.84	0.845		t-1,3-Dichloropropene	ND	1.7	0.845	
Bromoform	ND	4.2	0.845		Ethylbenzene	ND	0.84	0.845	
Bromomethane	ND	17	0.845		2-Hexanone	ND	17	0.845	
2-Butanone	ND	17	0.845		Isopropylbenzene	ND	0.84	0.845	
n-Butylbenzene	ND	0.84	0.845		p-Isopropyltoluene	ND	0.84	0.845	
sec-Butylbenzene	ND	0.84	0.845		Methylene Chloride	ND	8.4	0.845	
tert-Butylbenzene	ND	0.84	0.845		4-Methyl-2-Pentanone	ND	17	0.845	
Carbon Disulfide	ND	8.4	0.845		Naphthalene	ND	8.4	0.845	
Carbon Tetrachloride	ND	0.84	0.845		n-Propylbenzene	ND	1.7	0.845	
Chlorobenzene	ND	0.84	0.845		Styrene	ND	0.84	0.845	
Chloroethane	ND	1.7	0.845		1,1,1,2-Tetrachloroethane	ND	0.84	0.845	
Chloroform	ND	0.84	0.845		1,1,2,2-Tetrachloroethane	ND	1.7	0.845	
Chloromethane	ND	17	0.845		Tetrachloroethene	ND	0.84	0.845	
2-Chlorotoluene	ND	0.84	0.845		Toluene	2.4	0.84	0.845	
4-Chlorotoluene	ND	0.84	0.845		1,2,3-Trichlorobenzene	ND	1.7	0.845	
Dibromochloromethane	ND	1.7	0.845		1,2,4-Trichlorobenzene	ND	1.7	0.845	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.845		1,1,1-Trichloroethane	ND	0.84	0.845	
1,2-Dibromoethane	ND	0.84	0.845		1,1,2-Trichloroethane	ND	0.84	0.845	
Dibromomethane	ND	0.84	0.845		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.845	
1,2-Dichlorobenzene	ND	0.84	0.845		Trichloroethene	ND	1.7	0.845	
1,3-Dichlorobenzene	ND	0.84	0.845		Trichlorofluoromethane	ND	8.4	0.845	
1,4-Dichlorobenzene	ND	0.84	0.845		1,2,3-Trichloropropane	ND	1.7	0.845	
Dichlorodifluoromethane	ND	1.7	0.845		1,2,4-Trimethylbenzene	ND	1.7	0.845	
1,1-Dichloroethane	ND	0.84	0.845		1,3,5-Trimethylbenzene	ND	1.7	0.845	
1,2-Dichloroethane	ND	0.84	0.845		Vinyl Acetate	ND	8.4	0.845	
1,1-Dichloroethene	ND	0.84	0.845		Vinyl Chloride	ND	0.84	0.845	
c-1,2-Dichloroethene	ND	0.84	0.845		p/m-Xylene	ND	1.7	0.845	
t-1,2-Dichloroethene	ND	0.84	0.845		o-Xylene	ND	0.84	0.845	
1,2-Dichloropropane	ND	0.84	0.845		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.845	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	71-137			1,2-Dichloroethane-d4	133	58-160		
1,4-Bromofluorobenzene	91	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 3 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-5'	**08-10-2683-12-C**	**10/30/08 10:35**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 14:35**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.822		1,3-Dichloropropane	ND	0.82	0.822	
Benzene	ND	0.82	0.822		2,2-Dichloropropane	ND	4.1	0.822	
Bromobenzene	ND	0.82	0.822		1,1-Dichloropropene	ND	1.6	0.822	
Bromochloromethane	ND	1.6	0.822		c-1,3-Dichloropropene	ND	0.82	0.822	
Bromodichloromethane	ND	0.82	0.822		t-1,3-Dichloropropene	ND	1.6	0.822	
Bromoform	ND	4.1	0.822		Ethylbenzene	ND	0.82	0.822	
Bromomethane	ND	16	0.822		2-Hexanone	ND	16	0.822	
2-Butanone	ND	16	0.822		Isopropylbenzene	ND	0.82	0.822	
n-Butylbenzene	ND	0.82	0.822		p-Isopropyltoluene	ND	0.82	0.822	
sec-Butylbenzene	ND	0.82	0.822		Methylene Chloride	ND	8.2	0.822	
tert-Butylbenzene	ND	0.82	0.822		4-Methyl-2-Pentanone	ND	16	0.822	
Carbon Disulfide	ND	8.2	0.822		Naphthalene	ND	8.2	0.822	
Carbon Tetrachloride	ND	0.82	0.822		n-Propylbenzene	ND	1.6	0.822	
Chlorobenzene	ND	0.82	0.822		Styrene	ND	0.82	0.822	
Chloroethane	ND	1.6	0.822		1,1,1,2-Tetrachloroethane	ND	0.82	0.822	
Chloroform	ND	0.82	0.822		1,1,2,2-Tetrachloroethane	ND	1.6	0.822	
Chloromethane	ND	16	0.822		Tetrachloroethene	ND	0.82	0.822	
2-Chlorotoluene	ND	0.82	0.822		Toluene	ND	0.82	0.822	
4-Chlorotoluene	ND	0.82	0.822		1,2,3-Trichlorobenzene	ND	1.6	0.822	
Dibromochloromethane	ND	1.6	0.822		1,2,4-Trichlorobenzene	ND	1.6	0.822	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.822		1,1,1-Trichloroethane	ND	0.82	0.822	
1,2-Dibromoethane	ND	0.82	0.822		1,1,2-Trichloroethane	ND	0.82	0.822	
Dibromomethane	ND	0.82	0.822		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.822	
1,2-Dichlorobenzene	ND	0.82	0.822		Trichloroethene	ND	1.6	0.822	
1,3-Dichlorobenzene	ND	0.82	0.822		Trichlorofluoromethane	ND	8.2	0.822	
1,4-Dichlorobenzene	ND	0.82	0.822		1,2,3-Trichloropropane	ND	1.6	0.822	
Dichlorodifluoromethane	ND	1.6	0.822		1,2,4-Trimethylbenzene	ND	1.6	0.822	
1,1-Dichloroethane	ND	0.82	0.822		1,3,5-Trimethylbenzene	ND	1.6	0.822	
1,2-Dichloroethane	ND	0.82	0.822		Vinyl Acetate	ND	8.2	0.822	
1,1-Dichloroethene	ND	0.82	0.822		Vinyl Chloride	ND	0.82	0.822	
c-1,2-Dichloroethene	ND	0.82	0.822		p/m-Xylene	ND	1.6	0.822	
t-1,2-Dichloroethene	ND	0.82	0.822		o-Xylene	ND	0.82	0.822	
1,2-Dichloropropane	ND	0.82	0.822		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.822	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	71-137			1,2-Dichloroethane-d4	130	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 4 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS15-10'	**08-10-2683-13-C**	**10/30/08 10:40**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 15:01**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.821		1,3-Dichloropropane	ND	0.82	0.821	
Benzene	ND	0.82	0.821		2,2-Dichloropropane	ND	4.1	0.821	
Bromobenzene	ND	0.82	0.821		1,1-Dichloropropene	ND	1.6	0.821	
Bromochloromethane	ND	1.6	0.821		c-1,3-Dichloropropene	ND	0.82	0.821	
Bromodichloromethane	ND	0.82	0.821		t-1,3-Dichloropropene	ND	1.6	0.821	
Bromoform	ND	4.1	0.821		Ethylbenzene	ND	0.82	0.821	
Bromomethane	ND	16	0.821		2-Hexanone	ND	16	0.821	
2-Butanone	ND	16	0.821		Isopropylbenzene	ND	0.82	0.821	
n-Butylbenzene	ND	0.82	0.821		p-Isopropyltoluene	ND	0.82	0.821	
sec-Butylbenzene	ND	0.82	0.821		Methylene Chloride	ND	8.2	0.821	
tert-Butylbenzene	ND	0.82	0.821		4-Methyl-2-Pentanone	ND	16	0.821	
Carbon Disulfide	ND	8.2	0.821		Naphthalene	ND	8.2	0.821	
Carbon Tetrachloride	ND	0.82	0.821		n-Propylbenzene	ND	1.6	0.821	
Chlorobenzene	ND	0.82	0.821		Styrene	ND	0.82	0.821	
Chloroethane	ND	1.6	0.821		1,1,1,2-Tetrachloroethane	ND	0.82	0.821	
Chloroform	ND	0.82	0.821		1,1,2,2-Tetrachloroethane	ND	1.6	0.821	
Chloromethane	ND	16	0.821		Tetrachloroethene	ND	0.82	0.821	
2-Chlorotoluene	ND	0.82	0.821		Toluene	1.3	0.82	0.821	
4-Chlorotoluene	ND	0.82	0.821		1,2,3-Trichlorobenzene	ND	1.6	0.821	
Dibromochloromethane	ND	1.6	0.821		1,2,4-Trichlorobenzene	ND	1.6	0.821	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.821		1,1,1-Trichloroethane	ND	0.82	0.821	
1,2-Dibromoethane	ND	0.82	0.821		1,1,2-Trichloroethane	ND	0.82	0.821	
Dibromomethane	ND	0.82	0.821		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.821	
1,2-Dichlorobenzene	ND	0.82	0.821		Trichloroethene	ND	1.6	0.821	
1,3-Dichlorobenzene	ND	0.82	0.821		Trichlorofluoromethane	ND	8.2	0.821	
1,4-Dichlorobenzene	ND	0.82	0.821		1,2,3-Trichloropropane	ND	1.6	0.821	
Dichlorodifluoromethane	ND	1.6	0.821		1,2,4-Trimethylbenzene	ND	1.6	0.821	
1,1-Dichloroethane	ND	0.82	0.821		1,3,5-Trimethylbenzene	ND	1.6	0.821	
1,2-Dichloroethane	ND	0.82	0.821		Vinyl Acetate	ND	8.2	0.821	
1,1-Dichloroethene	ND	0.82	0.821		Vinyl Chloride	ND	0.82	0.821	
c-1,2-Dichloroethene	ND	0.82	0.821		p/m-Xylene	ND	1.6	0.821	
t-1,2-Dichloroethene	ND	0.82	0.821		o-Xylene	ND	0.82	0.821	
1,2-Dichloropropane	ND	0.82	0.821		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.821	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	71-137			1,2-Dichloroethane-d4	131	58-160		
1,4-Bromofluorobenzene	91	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 5 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-5'	**08-10-2683-16-C**	**10/30/08 11:30**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 15:27**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	44	0.871		1,3-Dichloropropane	ND	0.87	0.871	
Benzene	ND	0.87	0.871		2,2-Dichloropropane	ND	4.4	0.871	
Bromobenzene	ND	0.87	0.871		1,1-Dichloropropene	ND	1.7	0.871	
Bromochloromethane	ND	1.7	0.871		c-1,3-Dichloropropene	ND	0.87	0.871	
Bromodichloromethane	ND	0.87	0.871		t-1,3-Dichloropropene	ND	1.7	0.871	
Bromoform	ND	4.4	0.871		Ethylbenzene	ND	0.87	0.871	
Bromomethane	ND	17	0.871		2-Hexanone	ND	17	0.871	
2-Butanone	ND	17	0.871		Isopropylbenzene	ND	0.87	0.871	
n-Butylbenzene	ND	0.87	0.871		p-Isopropyltoluene	ND	0.87	0.871	
sec-Butylbenzene	ND	0.87	0.871		Methylene Chloride	ND	8.7	0.871	
tert-Butylbenzene	ND	0.87	0.871		4-Methyl-2-Pentanone	ND	17	0.871	
Carbon Disulfide	ND	8.7	0.871		Naphthalene	ND	8.7	0.871	
Carbon Tetrachloride	ND	0.87	0.871		n-Propylbenzene	ND	1.7	0.871	
Chlorobenzene	ND	0.87	0.871		Styrene	ND	0.87	0.871	
Chloroethane	ND	1.7	0.871		1,1,1,2-Tetrachloroethane	ND	0.87	0.871	
Chloroform	ND	0.87	0.871		1,1,2,2-Tetrachloroethane	ND	1.7	0.871	
Chloromethane	ND	17	0.871		Tetrachloroethene	ND	0.87	0.871	
2-Chlorotoluene	ND	0.87	0.871		Toluene	3.0	0.87	0.871	
4-Chlorotoluene	ND	0.87	0.871		1,2,3-Trichlorobenzene	ND	1.7	0.871	
Dibromochloromethane	ND	1.7	0.871		1,2,4-Trichlorobenzene	ND	1.7	0.871	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.871		1,1,1-Trichloroethane	ND	0.87	0.871	
1,2-Dibromoethane	ND	0.87	0.871		1,1,2-Trichloroethane	ND	0.87	0.871	
Dibromomethane	ND	0.87	0.871		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.7	0.871	
1,2-Dichlorobenzene	ND	0.87	0.871		Trichloroethene	ND	1.7	0.871	
1,3-Dichlorobenzene	ND	0.87	0.871		Trichlorofluoromethane	ND	8.7	0.871	
1,4-Dichlorobenzene	ND	0.87	0.871		1,2,3-Trichloropropane	ND	1.7	0.871	
Dichlorodifluoromethane	ND	1.7	0.871		1,2,4-Trimethylbenzene	ND	1.7	0.871	
1,1-Dichloroethane	ND	0.87	0.871		1,3,5-Trimethylbenzene	ND	1.7	0.871	
1,2-Dichloroethane	ND	0.87	0.871		Vinyl Acetate	ND	8.7	0.871	
1,1-Dichloroethene	ND	0.87	0.871		Vinyl Chloride	ND	0.87	0.871	
c-1,2-Dichloroethene	ND	0.87	0.871		p/m-Xylene	ND	1.7	0.871	
t-1,2-Dichloroethene	ND	0.87	0.871		o-Xylene	ND	0.87	0.871	
1,2-Dichloropropane	ND	0.87	0.871		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.871	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	122	71-137			1,2-Dichloroethane-d4	136	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 6 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS16-10'	**08-10-2683-17-C**	**10/30/08 11:35**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 15:53**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.846		1,3-Dichloropropane	ND	0.85	0.846	
Benzene	ND	0.85	0.846		2,2-Dichloropropane	ND	4.2	0.846	
Bromobenzene	ND	0.85	0.846		1,1-Dichloropropene	ND	1.7	0.846	
Bromochloromethane	ND	1.7	0.846		c-1,3-Dichloropropene	ND	0.85	0.846	
Bromodichloromethane	ND	0.85	0.846		t-1,3-Dichloropropene	ND	1.7	0.846	
Bromoform	ND	4.2	0.846		Ethylbenzene	ND	0.85	0.846	
Bromomethane	ND	17	0.846		2-Hexanone	ND	17	0.846	
2-Butanone	ND	17	0.846		Isopropylbenzene	ND	0.85	0.846	
n-Butylbenzene	ND	0.85	0.846		p-Isopropyltoluene	ND	0.85	0.846	
sec-Butylbenzene	ND	0.85	0.846		Methylene Chloride	ND	8.5	0.846	
tert-Butylbenzene	ND	0.85	0.846		4-Methyl-2-Pentanone	ND	17	0.846	
Carbon Disulfide	ND	8.5	0.846		Naphthalene	ND	8.5	0.846	
Carbon Tetrachloride	ND	0.85	0.846		n-Propylbenzene	ND	1.7	0.846	
Chlorobenzene	ND	0.85	0.846		Styrene	ND	0.85	0.846	
Chloroethane	ND	1.7	0.846		1,1,1,2-Tetrachloroethane	ND	0.85	0.846	
Chloroform	ND	0.85	0.846		1,1,2,2-Tetrachloroethane	ND	1.7	0.846	
Chloromethane	ND	17	0.846		Tetrachloroethene	ND	0.85	0.846	
2-Chlorotoluene	ND	0.85	0.846		Toluene	4.7	0.85	0.846	
4-Chlorotoluene	ND	0.85	0.846		1,2,3-Trichlorobenzene	ND	1.7	0.846	
Dibromochloromethane	ND	1.7	0.846		1,2,4-Trichlorobenzene	ND	1.7	0.846	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.846		1,1,1-Trichloroethane	ND	0.85	0.846	
1,2-Dibromoethane	ND	0.85	0.846		1,1,2-Trichloroethane	ND	0.85	0.846	
Dibromomethane	ND	0.85	0.846		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.846	
1,2-Dichlorobenzene	ND	0.85	0.846		Trichloroethene	ND	1.7	0.846	
1,3-Dichlorobenzene	ND	0.85	0.846		Trichlorofluoromethane	ND	8.5	0.846	
1,4-Dichlorobenzene	ND	0.85	0.846		1,2,3-Trichloropropane	ND	1.7	0.846	
Dichlorodifluoromethane	ND	1.7	0.846		1,2,4-Trimethylbenzene	ND	1.7	0.846	
1,1-Dichloroethane	ND	0.85	0.846		1,3,5-Trimethylbenzene	ND	1.7	0.846	
1,2-Dichloroethane	ND	0.85	0.846		Vinyl Acetate	ND	8.5	0.846	
1,1-Dichloroethene	ND	0.85	0.846		Vinyl Chloride	ND	0.85	0.846	
c-1,2-Dichloroethene	ND	0.85	0.846		p/m-Xylene	ND	1.7	0.846	
t-1,2-Dichloroethene	ND	0.85	0.846		o-Xylene	ND	0.85	0.846	
1,2-Dichloropropane	ND	0.85	0.846		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.846	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	71-137			1,2-Dichloroethane-d4	130	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 7 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-5'	**08-10-2683-20-C**	**10/30/08 12:05**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 16:20**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	45	0.893		1,3-Dichloropropane	ND	0.89	0.893	
Benzene	ND	0.89	0.893		2,2-Dichloropropane	ND	4.5	0.893	
Bromobenzene	ND	0.89	0.893		1,1-Dichloropropene	ND	1.8	0.893	
Bromochloromethane	ND	1.8	0.893		c-1,3-Dichloropropene	ND	0.89	0.893	
Bromodichloromethane	ND	0.89	0.893		t-1,3-Dichloropropene	ND	1.8	0.893	
Bromoform	ND	4.5	0.893		Ethylbenzene	ND	0.89	0.893	
Bromomethane	ND	18	0.893		2-Hexanone	ND	18	0.893	
2-Butanone	ND	18	0.893		Isopropylbenzene	ND	0.89	0.893	
n-Butylbenzene	ND	0.89	0.893		p-Isopropyltoluene	ND	0.89	0.893	
sec-Butylbenzene	ND	0.89	0.893		Methylene Chloride	ND	8.9	0.893	
tert-Butylbenzene	ND	0.89	0.893		4-Methyl-2-Pentanone	ND	18	0.893	
Carbon Disulfide	ND	8.9	0.893		Naphthalene	ND	8.9	0.893	
Carbon Tetrachloride	ND	0.89	0.893		n-Propylbenzene	ND	1.8	0.893	
Chlorobenzene	ND	0.89	0.893		Styrene	ND	0.89	0.893	
Chloroethane	ND	1.8	0.893		1,1,1,2-Tetrachloroethane	ND	0.89	0.893	
Chloroform	ND	0.89	0.893		1,1,2,2-Tetrachloroethane	ND	1.8	0.893	
Chloromethane	ND	18	0.893		Tetrachloroethene	ND	0.89	0.893	
2-Chlorotoluene	ND	0.89	0.893		Toluene	1.0	0.89	0.893	
4-Chlorotoluene	ND	0.89	0.893		1,2,3-Trichlorobenzene	ND	1.8	0.893	
Dibromochloromethane	ND	1.8	0.893		1,2,4-Trichlorobenzene	ND	1.8	0.893	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.893		1,1,1-Trichloroethane	ND	0.89	0.893	
1,2-Dibromoethane	ND	0.89	0.893		1,1,2-Trichloroethane	ND	0.89	0.893	
Dibromomethane	ND	0.89	0.893		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.893	
1,2-Dichlorobenzene	ND	0.89	0.893		Trichloroethene	ND	1.8	0.893	
1,3-Dichlorobenzene	ND	0.89	0.893		Trichlorofluoromethane	ND	8.9	0.893	
1,4-Dichlorobenzene	ND	0.89	0.893		1,2,3-Trichloropropane	ND	1.8	0.893	
Dichlorodifluoromethane	ND	1.8	0.893		1,2,4-Trimethylbenzene	ND	1.8	0.893	
1,1-Dichloroethane	ND	0.89	0.893		1,3,5-Trimethylbenzene	ND	1.8	0.893	
1,2-Dichloroethane	ND	0.89	0.893		Vinyl Acetate	ND	8.9	0.893	
1,1-Dichloroethene	ND	0.89	0.893		Vinyl Chloride	ND	0.89	0.893	
c-1,2-Dichloroethene	ND	0.89	0.893		p/m-Xylene	ND	1.8	0.893	
t-1,2-Dichloroethene	ND	0.89	0.893		o-Xylene	ND	0.89	0.893	
1,2-Dichloropropane	ND	0.89	0.893		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.893	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	121	71-137			1,2-Dichloroethane-d4	134	58-160		
1,4-Bromofluorobenzene	89	66-126			Toluene-d8	103	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 8 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS18-10'	**08-10-2683-21-C**	**10/30/08 12:15**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 16:46**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.831		1,3-Dichloropropane	ND	0.83	0.831	
Benzene	1.7	0.83	0.831		2,2-Dichloropropane	ND	4.2	0.831	
Bromobenzene	ND	0.83	0.831		1,1-Dichloropropene	ND	1.7	0.831	
Bromochloromethane	ND	1.7	0.831		c-1,3-Dichloropropene	ND	0.83	0.831	
Bromodichloromethane	ND	0.83	0.831		t-1,3-Dichloropropene	ND	1.7	0.831	
Bromoform	ND	4.2	0.831		Ethylbenzene	ND	0.83	0.831	
Bromomethane	ND	17	0.831		2-Hexanone	ND	17	0.831	
2-Butanone	ND	17	0.831		Isopropylbenzene	ND	0.83	0.831	
n-Butylbenzene	ND	0.83	0.831		p-Isopropyltoluene	ND	0.83	0.831	
sec-Butylbenzene	ND	0.83	0.831		Methylene Chloride	ND	8.3	0.831	
tert-Butylbenzene	ND	0.83	0.831		4-Methyl-2-Pentanone	ND	17	0.831	
Carbon Disulfide	ND	8.3	0.831		Naphthalene	ND	8.3	0.831	
Carbon Tetrachloride	ND	0.83	0.831		n-Propylbenzene	ND	1.7	0.831	
Chlorobenzene	ND	0.83	0.831		Styrene	ND	0.83	0.831	
Chloroethane	ND	1.7	0.831		1,1,1,2-Tetrachloroethane	ND	0.83	0.831	
Chloroform	ND	0.83	0.831		1,1,2,2-Tetrachloroethane	ND	1.7	0.831	
Chloromethane	ND	17	0.831		Tetrachloroethene	ND	0.83	0.831	
2-Chlorotoluene	ND	0.83	0.831		Toluene	1.5	0.83	0.831	
4-Chlorotoluene	ND	0.83	0.831		1,2,3-Trichlorobenzene	ND	1.7	0.831	
Dibromochloromethane	ND	1.7	0.831		1,2,4-Trichlorobenzene	ND	1.7	0.831	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.831		1,1,1-Trichloroethane	ND	0.83	0.831	
1,2-Dibromoethane	ND	0.83	0.831		1,1,2-Trichloroethane	ND	0.83	0.831	
Dibromomethane	ND	0.83	0.831		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.831	
1,2-Dichlorobenzene	ND	0.83	0.831		Trichloroethene	ND	1.7	0.831	
1,3-Dichlorobenzene	ND	0.83	0.831		Trichlorofluoromethane	ND	8.3	0.831	
1,4-Dichlorobenzene	ND	0.83	0.831		1,2,3-Trichloropropane	ND	1.7	0.831	
Dichlorodifluoromethane	ND	1.7	0.831		1,2,4-Trimethylbenzene	ND	1.7	0.831	
1,1-Dichloroethane	ND	0.83	0.831		1,3,5-Trimethylbenzene	ND	1.7	0.831	
1,2-Dichloroethane	ND	0.83	0.831		Vinyl Acetate	ND	8.3	0.831	
1,1-Dichloroethene	ND	0.83	0.831		Vinyl Chloride	ND	0.83	0.831	
c-1,2-Dichloroethene	ND	0.83	0.831		p/m-Xylene	ND	1.7	0.831	
t-1,2-Dichloroethene	ND	0.83	0.831		o-Xylene	ND	0.83	0.831	
1,2-Dichloropropane	ND	0.83	0.831		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.831	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	71-137			1,2-Dichloroethane-d4	132	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-5'	**08-10-2683-24-C**	**10/30/08 12:55**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 17:12**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.919		1,3-Dichloropropane	ND	0.92	0.919	
Benzene	ND	0.92	0.919		2,2-Dichloropropane	ND	4.6	0.919	
Bromobenzene	ND	0.92	0.919		1,1-Dichloropropene	ND	1.8	0.919	
Bromochloromethane	ND	1.8	0.919		c-1,3-Dichloropropene	ND	0.92	0.919	
Bromodichloromethane	ND	0.92	0.919		t-1,3-Dichloropropene	ND	1.8	0.919	
Bromoform	ND	4.6	0.919		Ethylbenzene	ND	0.92	0.919	
Bromomethane	ND	18	0.919		2-Hexanone	ND	18	0.919	
2-Butanone	ND	18	0.919		Isopropylbenzene	ND	0.92	0.919	
n-Butylbenzene	ND	0.92	0.919		p-Isopropyltoluene	ND	0.92	0.919	
sec-Butylbenzene	ND	0.92	0.919		Methylene Chloride	ND	9.2	0.919	
tert-Butylbenzene	ND	0.92	0.919		4-Methyl-2-Pentanone	ND	18	0.919	
Carbon Disulfide	ND	9.2	0.919		Naphthalene	ND	9.2	0.919	
Carbon Tetrachloride	ND	0.92	0.919		n-Propylbenzene	ND	1.8	0.919	
Chlorobenzene	ND	0.92	0.919		Styrene	ND	0.92	0.919	
Chloroethane	ND	1.8	0.919		1,1,1,2-Tetrachloroethane	ND	0.92	0.919	
Chloroform	ND	0.92	0.919		1,1,2,2-Tetrachloroethane	ND	1.8	0.919	
Chloromethane	ND	18	0.919		Tetrachloroethene	ND	0.92	0.919	
2-Chlorotoluene	ND	0.92	0.919		Toluene	ND	0.92	0.919	
4-Chlorotoluene	ND	0.92	0.919		1,2,3-Trichlorobenzene	ND	1.8	0.919	
Dibromochloromethane	ND	1.8	0.919		1,2,4-Trichlorobenzene	ND	1.8	0.919	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.919		1,1,1-Trichloroethane	ND	0.92	0.919	
1,2-Dibromoethane	ND	0.92	0.919		1,1,2-Trichloroethane	ND	0.92	0.919	
Dibromomethane	ND	0.92	0.919		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.2	0.919	
1,2-Dichlorobenzene	ND	0.92	0.919		Trichloroethene	ND	1.8	0.919	
1,3-Dichlorobenzene	ND	0.92	0.919		Trichlorofluoromethane	ND	9.2	0.919	
1,4-Dichlorobenzene	ND	0.92	0.919		1,2,3-Trichloropropane	ND	1.8	0.919	
Dichlorodifluoromethane	ND	1.8	0.919		1,2,4-Trimethylbenzene	ND	1.8	0.919	
1,1-Dichloroethane	ND	0.92	0.919		1,3,5-Trimethylbenzene	ND	1.8	0.919	
1,2-Dichloroethane	ND	0.92	0.919		Vinyl Acetate	ND	9.2	0.919	
1,1-Dichloroethene	ND	0.92	0.919		Vinyl Chloride	ND	0.92	0.919	
c-1,2-Dichloroethene	ND	0.92	0.919		p/m-Xylene	ND	1.8	0.919	
t-1,2-Dichloroethene	ND	0.92	0.919		o-Xylene	ND	0.92	0.919	
1,2-Dichloropropane	ND	0.92	0.919		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.919	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	140	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS19-10'	**08-10-2683-25-C**	**10/30/08 13:00**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 17:38**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.801		1,3-Dichloropropane	ND	0.80	0.801	
Benzene	ND	0.80	0.801		2,2-Dichloropropane	ND	4.0	0.801	
Bromobenzene	ND	0.80	0.801		1,1-Dichloropropene	ND	1.6	0.801	
Bromochloromethane	ND	1.6	0.801		c-1,3-Dichloropropene	ND	0.80	0.801	
Bromodichloromethane	ND	0.80	0.801		t-1,3-Dichloropropene	ND	1.6	0.801	
Bromoform	ND	4.0	0.801		Ethylbenzene	ND	0.80	0.801	
Bromomethane	ND	16	0.801		2-Hexanone	ND	16	0.801	
2-Butanone	ND	16	0.801		Isopropylbenzene	ND	0.80	0.801	
n-Butylbenzene	ND	0.80	0.801		p-Isopropyltoluene	ND	0.80	0.801	
sec-Butylbenzene	ND	0.80	0.801		Methylene Chloride	ND	8.0	0.801	
tert-Butylbenzene	ND	0.80	0.801		4-Methyl-2-Pentanone	ND	16	0.801	
Carbon Disulfide	ND	8.0	0.801		Naphthalene	ND	8.0	0.801	
Carbon Tetrachloride	ND	0.80	0.801		n-Propylbenzene	ND	1.6	0.801	
Chlorobenzene	ND	0.80	0.801		Styrene	ND	0.80	0.801	
Chloroethane	ND	1.6	0.801		1,1,1,2-Tetrachloroethane	ND	0.80	0.801	
Chloroform	ND	0.80	0.801		1,1,2,2-Tetrachloroethane	ND	1.6	0.801	
Chloromethane	ND	16	0.801		Tetrachloroethene	ND	0.80	0.801	
2-Chlorotoluene	ND	0.80	0.801		Toluene	ND	0.80	0.801	
4-Chlorotoluene	ND	0.80	0.801		1,2,3-Trichlorobenzene	ND	1.6	0.801	
Dibromochloromethane	ND	1.6	0.801		1,2,4-Trichlorobenzene	ND	1.6	0.801	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.801		1,1,1-Trichloroethane	ND	0.80	0.801	
1,2-Dibromoethane	ND	0.80	0.801		1,1,2-Trichloroethane	ND	0.80	0.801	
Dibromomethane	ND	0.80	0.801		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.801	
1,2-Dichlorobenzene	ND	0.80	0.801		Trichloroethene	ND	1.6	0.801	
1,3-Dichlorobenzene	ND	0.80	0.801		Trichlorofluoromethane	ND	8.0	0.801	
1,4-Dichlorobenzene	ND	0.80	0.801		1,2,3-Trichloropropane	ND	1.6	0.801	
Dichlorodifluoromethane	ND	1.6	0.801		1,2,4-Trimethylbenzene	ND	1.6	0.801	
1,1-Dichloroethane	ND	0.80	0.801		1,3,5-Trimethylbenzene	ND	1.6	0.801	
1,2-Dichloroethane	ND	0.80	0.801		Vinyl Acetate	ND	8.0	0.801	
1,1-Dichloroethene	ND	0.80	0.801		Vinyl Chloride	ND	0.80	0.801	
c-1,2-Dichloroethene	ND	0.80	0.801		p/m-Xylene	ND	1.6	0.801	
t-1,2-Dichloroethene	ND	0.80	0.801		o-Xylene	ND	0.80	0.801	
1,2-Dichloropropane	ND	0.80	0.801		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.801	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	123	71-137			1,2-Dichloroethane-d4	142	58-160		
1,4-Bromofluorobenzene	91	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 11 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-5'	**08-10-2683-29-C**	**10/30/08 13:28**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 18:04**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		1,3-Dichloropropane	ND	0.83	0.826	
Benzene	ND	0.83	0.826		2,2-Dichloropropane	ND	4.1	0.826	
Bromobenzene	ND	0.83	0.826		1,1-Dichloropropene	ND	1.7	0.826	
Bromochloromethane	ND	1.7	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Bromodichloromethane	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromoform	ND	4.1	0.826		Ethylbenzene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		2-Hexanone	ND	17	0.826	
2-Butanone	ND	17	0.826		Isopropylbenzene	ND	0.83	0.826	
n-Butylbenzene	ND	0.83	0.826		p-Isopropyltoluene	ND	0.83	0.826	
sec-Butylbenzene	ND	0.83	0.826		Methylene Chloride	ND	8.3	0.826	
tert-Butylbenzene	ND	0.83	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
Carbon Disulfide	ND	8.3	0.826		Naphthalene	ND	8.3	0.826	
Carbon Tetrachloride	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chloromethane	ND	17	0.826		Tetrachloroethene	ND	0.83	0.826	
2-Chlorotoluene	ND	0.83	0.826		Toluene	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Dibromochloromethane	ND	1.7	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
1,2-Dibromoethane	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromomethane	ND	0.83	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		Trichloroethene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,1-Dichloroethane	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Vinyl Chloride	ND	0.83	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	123	71-137		1,2-Dichloroethane-d4	139	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS20-10'	**08-10-2683-30-C**	**10/30/08 13:40**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 18:31**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	48	0.954		1,3-Dichloropropane	ND	0.95	0.954	
Benzene	1.9	0.95	0.954		2,2-Dichloropropane	ND	4.8	0.954	
Bromobenzene	ND	0.95	0.954		1,1-Dichloropropene	ND	1.9	0.954	
Bromochloromethane	ND	1.9	0.954		c-1,3-Dichloropropene	ND	0.95	0.954	
Bromodichloromethane	ND	0.95	0.954		t-1,3-Dichloropropene	ND	1.9	0.954	
Bromoform	ND	4.8	0.954		Ethylbenzene	ND	0.95	0.954	
Bromomethane	ND	19	0.954		2-Hexanone	ND	19	0.954	
2-Butanone	ND	19	0.954		Isopropylbenzene	ND	0.95	0.954	
n-Butylbenzene	ND	0.95	0.954		p-Isopropyltoluene	ND	0.95	0.954	
sec-Butylbenzene	ND	0.95	0.954		Methylene Chloride	ND	9.5	0.954	
tert-Butylbenzene	ND	0.95	0.954		4-Methyl-2-Pentanone	ND	19	0.954	
Carbon Disulfide	ND	9.5	0.954		Naphthalene	ND	9.5	0.954	
Carbon Tetrachloride	ND	0.95	0.954		n-Propylbenzene	ND	1.9	0.954	
Chlorobenzene	ND	0.95	0.954		Styrene	ND	0.95	0.954	
Chloroethane	ND	1.9	0.954		1,1,1,2-Tetrachloroethane	ND	0.95	0.954	
Chloroform	ND	0.95	0.954		1,1,2,2-Tetrachloroethane	ND	1.9	0.954	
Chloromethane	ND	19	0.954		Tetrachloroethene	ND	0.95	0.954	
2-Chlorotoluene	ND	0.95	0.954		Toluene	1.1	0.95	0.954	
4-Chlorotoluene	ND	0.95	0.954		1,2,3-Trichlorobenzene	ND	1.9	0.954	
Dibromochloromethane	ND	1.9	0.954		1,2,4-Trichlorobenzene	ND	1.9	0.954	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.954		1,1,1-Trichloroethane	ND	0.95	0.954	
1,2-Dibromoethane	ND	0.95	0.954		1,1,2-Trichloroethane	ND	0.95	0.954	
Dibromomethane	ND	0.95	0.954		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.5	0.954	
1,2-Dichlorobenzene	ND	0.95	0.954		Trichloroethene	ND	1.9	0.954	
1,3-Dichlorobenzene	ND	0.95	0.954		Trichlorofluoromethane	ND	9.5	0.954	
1,4-Dichlorobenzene	ND	0.95	0.954		1,2,3-Trichloropropane	ND	1.9	0.954	
Dichlorodifluoromethane	ND	1.9	0.954		1,2,4-Trimethylbenzene	ND	1.9	0.954	
1,1-Dichloroethane	ND	0.95	0.954		1,3,5-Trimethylbenzene	ND	1.9	0.954	
1,2-Dichloroethane	ND	0.95	0.954		Vinyl Acetate	ND	9.5	0.954	
1,1-Dichloroethene	ND	0.95	0.954		Vinyl Chloride	ND	0.95	0.954	
c-1,2-Dichloroethene	ND	0.95	0.954		p/m-Xylene	ND	1.9	0.954	
t-1,2-Dichloroethene	ND	0.95	0.954		o-Xylene	ND	0.95	0.954	
1,2-Dichloropropane	ND	0.95	0.954		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.954	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	121	71-137			1,2-Dichloroethane-d4	137	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 13 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-5'	**08-10-2683-34-C**	**10/30/08 14:01**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 18:57**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		1,3-Dichloropropane	ND	0.83	0.826	
Benzene	ND	0.83	0.826		2,2-Dichloropropane	ND	4.1	0.826	
Bromobenzene	ND	0.83	0.826		1,1-Dichloropropene	ND	1.7	0.826	
Bromochloromethane	ND	1.7	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Bromodichloromethane	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromoform	ND	4.1	0.826		Ethylbenzene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		2-Hexanone	ND	17	0.826	
2-Butanone	ND	17	0.826		Isopropylbenzene	ND	0.83	0.826	
n-Butylbenzene	ND	0.83	0.826		p-Isopropyltoluene	ND	0.83	0.826	
sec-Butylbenzene	ND	0.83	0.826		Methylene Chloride	ND	8.3	0.826	
tert-Butylbenzene	ND	0.83	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
Carbon Disulfide	ND	8.3	0.826		Naphthalene	ND	8.3	0.826	
Carbon Tetrachloride	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chloromethane	ND	17	0.826		Tetrachloroethene	ND	0.83	0.826	
2-Chlorotoluene	ND	0.83	0.826		Toluene	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Dibromochloromethane	ND	1.7	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
1,2-Dibromoethane	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromomethane	ND	0.83	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		Trichloroethene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,1-Dichloroethane	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Vinyl Chloride	ND	0.83	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	125	71-137			1,2-Dichloroethane-d4	144	58-160		
1,4-Bromofluorobenzene	89	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 14 of 19

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS23-10'	**08-10-2683-35-C**	**10/30/08 14:05**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 19:23**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.82		1,3-Dichloropropane	ND	0.82	0.82	
Benzene	ND	0.82	0.82		2,2-Dichloropropane	ND	4.1	0.82	
Bromobenzene	ND	0.82	0.82		1,1-Dichloropropene	ND	1.6	0.82	
Bromochloromethane	ND	1.6	0.82		c-1,3-Dichloropropene	ND	0.82	0.82	
Bromodichloromethane	ND	0.82	0.82		t-1,3-Dichloropropene	ND	1.6	0.82	
Bromoform	ND	4.1	0.82		Ethylbenzene	ND	0.82	0.82	
Bromomethane	ND	16	0.82		2-Hexanone	ND	16	0.82	
2-Butanone	ND	16	0.82		Isopropylbenzene	ND	0.82	0.82	
n-Butylbenzene	ND	0.82	0.82		p-Isopropyltoluene	ND	0.82	0.82	
sec-Butylbenzene	ND	0.82	0.82		Methylene Chloride	ND	8.2	0.82	
tert-Butylbenzene	ND	0.82	0.82		4-Methyl-2-Pentanone	ND	16	0.82	
Carbon Disulfide	ND	8.2	0.82		Naphthalene	ND	8.2	0.82	
Carbon Tetrachloride	ND	0.82	0.82		n-Propylbenzene	ND	1.6	0.82	
Chlorobenzene	ND	0.82	0.82		Styrene	ND	0.82	0.82	
Chloroethane	ND	1.6	0.82		1,1,1,2-Tetrachloroethane	ND	0.82	0.82	
Chloroform	ND	0.82	0.82		1,1,2,2-Tetrachloroethane	ND	1.6	0.82	
Chloromethane	ND	16	0.82		Tetrachloroethene	ND	0.82	0.82	
2-Chlorotoluene	ND	0.82	0.82		Toluene	ND	0.82	0.82	
4-Chlorotoluene	ND	0.82	0.82		1,2,3-Trichlorobenzene	ND	1.6	0.82	
Dibromochloromethane	ND	1.6	0.82		1,2,4-Trichlorobenzene	ND	1.6	0.82	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.82		1,1,1-Trichloroethane	ND	0.82	0.82	
1,2-Dibromoethane	ND	0.82	0.82		1,1,2-Trichloroethane	ND	0.82	0.82	
Dibromomethane	ND	0.82	0.82		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.82	
1,2-Dichlorobenzene	ND	0.82	0.82		Trichloroethene	ND	1.6	0.82	
1,3-Dichlorobenzene	ND	0.82	0.82		Trichlorofluoromethane	ND	8.2	0.82	
1,4-Dichlorobenzene	ND	0.82	0.82		1,2,3-Trichloropropane	ND	1.6	0.82	
Dichlorodifluoromethane	ND	1.6	0.82		1,2,4-Trimethylbenzene	ND	1.6	0.82	
1,1-Dichloroethane	ND	0.82	0.82		1,3,5-Trimethylbenzene	ND	1.6	0.82	
1,2-Dichloroethane	ND	0.82	0.82		Vinyl Acetate	ND	8.2	0.82	
1,1-Dichloroethene	ND	0.82	0.82		Vinyl Chloride	ND	0.82	0.82	
c-1,2-Dichloroethene	ND	0.82	0.82		p/m-Xylene	ND	1.6	0.82	
t-1,2-Dichloroethene	ND	0.82	0.82		o-Xylene	ND	0.82	0.82	
1,2-Dichloropropane	ND	0.82	0.82		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.82	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	136	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-5'	**08-10-2683-38-C**	**10/30/08 14:40**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 19:49**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.84		1,3-Dichloropropane	ND	0.84	0.84	
Benzene	ND	0.84	0.84		2,2-Dichloropropane	ND	4.2	0.84	
Bromobenzene	ND	0.84	0.84		1,1-Dichloropropene	ND	1.7	0.84	
Bromochloromethane	ND	1.7	0.84		c-1,3-Dichloropropene	ND	0.84	0.84	
Bromodichloromethane	ND	0.84	0.84		t-1,3-Dichloropropene	ND	1.7	0.84	
Bromoform	ND	4.2	0.84		Ethylbenzene	ND	0.84	0.84	
Bromomethane	ND	17	0.84		2-Hexanone	ND	17	0.84	
2-Butanone	ND	17	0.84		Isopropylbenzene	ND	0.84	0.84	
n-Butylbenzene	ND	0.84	0.84		p-Isopropyltoluene	ND	0.84	0.84	
sec-Butylbenzene	ND	0.84	0.84		Methylene Chloride	ND	8.4	0.84	
tert-Butylbenzene	ND	0.84	0.84		4-Methyl-2-Pentanone	ND	17	0.84	
Carbon Disulfide	ND	8.4	0.84		Naphthalene	ND	8.4	0.84	
Carbon Tetrachloride	ND	0.84	0.84		n-Propylbenzene	ND	1.7	0.84	
Chlorobenzene	ND	0.84	0.84		Styrene	ND	0.84	0.84	
Chloroethane	ND	1.7	0.84		1,1,1,2-Tetrachloroethane	ND	0.84	0.84	
Chloroform	ND	0.84	0.84		1,1,2,2-Tetrachloroethane	ND	1.7	0.84	
Chloromethane	ND	17	0.84		Tetrachloroethene	ND	0.84	0.84	
2-Chlorotoluene	ND	0.84	0.84		Toluene	ND	0.84	0.84	
4-Chlorotoluene	ND	0.84	0.84		1,2,3-Trichlorobenzene	ND	1.7	0.84	
Dibromochloromethane	ND	1.7	0.84		1,2,4-Trichlorobenzene	ND	1.7	0.84	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.84		1,1,1-Trichloroethane	ND	0.84	0.84	
1,2-Dibromoethane	ND	0.84	0.84		1,1,2-Trichloroethane	ND	0.84	0.84	
Dibromomethane	ND	0.84	0.84		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.84	
1,2-Dichlorobenzene	ND	0.84	0.84		Trichloroethene	ND	1.7	0.84	
1,3-Dichlorobenzene	ND	0.84	0.84		Trichlorofluoromethane	ND	8.4	0.84	
1,4-Dichlorobenzene	ND	0.84	0.84		1,2,3-Trichloropropane	ND	1.7	0.84	
Dichlorodifluoromethane	ND	1.7	0.84		1,2,4-Trimethylbenzene	ND	1.7	0.84	
1,1-Dichloroethane	ND	0.84	0.84		1,3,5-Trimethylbenzene	ND	1.7	0.84	
1,2-Dichloroethane	ND	0.84	0.84		Vinyl Acetate	ND	8.4	0.84	
1,1-Dichloroethene	ND	0.84	0.84		Vinyl Chloride	ND	0.84	0.84	
c-1,2-Dichloroethene	ND	0.84	0.84		p/m-Xylene	ND	1.7	0.84	
t-1,2-Dichloroethene	ND	0.84	0.84		o-Xylene	ND	0.84	0.84	
1,2-Dichloropropane	ND	0.84	0.84		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.84	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	125	71-137		1,2-Dichloroethane-d4	142	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-10'	**08-10-2683-39-C**	**10/30/08 14:45**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 20:15**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.824		1,3-Dichloropropane	ND	0.82	0.824	
Benzene	ND	0.82	0.824		2,2-Dichloropropane	ND	4.1	0.824	
Bromobenzene	ND	0.82	0.824		1,1-Dichloropropene	ND	1.6	0.824	
Bromochloromethane	ND	1.6	0.824		c-1,3-Dichloropropene	ND	0.82	0.824	
Bromodichloromethane	ND	0.82	0.824		t-1,3-Dichloropropene	ND	1.6	0.824	
Bromoform	ND	4.1	0.824		Ethylbenzene	ND	0.82	0.824	
Bromomethane	ND	16	0.824		2-Hexanone	ND	16	0.824	
2-Butanone	ND	16	0.824		Isopropylbenzene	ND	0.82	0.824	
n-Butylbenzene	ND	0.82	0.824		p-Isopropyltoluene	ND	0.82	0.824	
sec-Butylbenzene	ND	0.82	0.824		Methylene Chloride	ND	8.2	0.824	
tert-Butylbenzene	ND	0.82	0.824		4-Methyl-2-Pentanone	ND	16	0.824	
Carbon Disulfide	ND	8.2	0.824		Naphthalene	ND	8.2	0.824	
Carbon Tetrachloride	ND	0.82	0.824		n-Propylbenzene	ND	1.6	0.824	
Chlorobenzene	ND	0.82	0.824		Styrene	ND	0.82	0.824	
Chloroethane	ND	1.6	0.824		1,1,1,2-Tetrachloroethane	ND	0.82	0.824	
Chloroform	ND	0.82	0.824		1,1,2,2-Tetrachloroethane	ND	1.6	0.824	
Chloromethane	ND	16	0.824		Tetrachloroethene	ND	0.82	0.824	
2-Chlorotoluene	ND	0.82	0.824		Toluene	ND	0.82	0.824	
4-Chlorotoluene	ND	0.82	0.824		1,2,3-Trichlorobenzene	ND	1.6	0.824	
Dibromochloromethane	ND	1.6	0.824		1,2,4-Trichlorobenzene	ND	1.6	0.824	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.824		1,1,1-Trichloroethane	ND	0.82	0.824	
1,2-Dibromoethane	ND	0.82	0.824		1,1,2-Trichloroethane	ND	0.82	0.824	
Dibromomethane	ND	0.82	0.824		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.824	
1,2-Dichlorobenzene	ND	0.82	0.824		Trichloroethene	ND	1.6	0.824	
1,3-Dichlorobenzene	ND	0.82	0.824		Trichlorofluoromethane	ND	8.2	0.824	
1,4-Dichlorobenzene	ND	0.82	0.824		1,2,3-Trichloropropane	ND	1.6	0.824	
Dichlorodifluoromethane	ND	1.6	0.824		1,2,4-Trimethylbenzene	ND	1.6	0.824	
1,1-Dichloroethane	ND	0.82	0.824		1,3,5-Trimethylbenzene	ND	1.6	0.824	
1,2-Dichloroethane	ND	0.82	0.824		Vinyl Acetate	ND	8.2	0.824	
1,1-Dichloroethene	ND	0.82	0.824		Vinyl Chloride	ND	0.82	0.824	
c-1,2-Dichloroethene	ND	0.82	0.824		p/m-Xylene	ND	1.6	0.824	
t-1,2-Dichloroethene	ND	0.82	0.824		o-Xylene	ND	0.82	0.824	
1,2-Dichloropropane	ND	0.82	0.824		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.824	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	121	71-137			1,2-Dichloroethane-d4	135	58-160		
1,4-Bromofluorobenzene	89	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-5'	**08-10-2683-43-C**	**10/30/08 15:15**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 20:41**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.792		1,3-Dichloropropane	ND	0.79	0.792	
Benzene	ND	0.79	0.792		2,2-Dichloropropane	ND	4.0	0.792	
Bromobenzene	ND	0.79	0.792		1,1-Dichloropropene	ND	1.6	0.792	
Bromochloromethane	ND	1.6	0.792		c-1,3-Dichloropropene	ND	0.79	0.792	
Bromodichloromethane	ND	0.79	0.792		t-1,3-Dichloropropene	ND	1.6	0.792	
Bromoform	ND	4.0	0.792		Ethylbenzene	ND	0.79	0.792	
Bromomethane	ND	16	0.792		2-Hexanone	ND	16	0.792	
2-Butanone	ND	16	0.792		Isopropylbenzene	ND	0.79	0.792	
n-Butylbenzene	ND	0.79	0.792		p-Isopropyltoluene	ND	0.79	0.792	
sec-Butylbenzene	ND	0.79	0.792		Methylene Chloride	ND	7.9	0.792	
tert-Butylbenzene	ND	0.79	0.792		4-Methyl-2-Pentanone	ND	16	0.792	
Carbon Disulfide	ND	7.9	0.792		Naphthalene	ND	7.9	0.792	
Carbon Tetrachloride	ND	0.79	0.792		n-Propylbenzene	ND	1.6	0.792	
Chlorobenzene	ND	0.79	0.792		Styrene	ND	0.79	0.792	
Chloroethane	ND	1.6	0.792		1,1,1,2-Tetrachloroethane	ND	0.79	0.792	
Chloroform	ND	0.79	0.792		1,1,2,2-Tetrachloroethane	ND	1.6	0.792	
Chloromethane	ND	16	0.792		Tetrachloroethene	ND	0.79	0.792	
2-Chlorotoluene	ND	0.79	0.792		Toluene	ND	0.79	0.792	
4-Chlorotoluene	ND	0.79	0.792		1,2,3-Trichlorobenzene	ND	1.6	0.792	
Dibromochloromethane	ND	1.6	0.792		1,2,4-Trichlorobenzene	ND	1.6	0.792	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.792		1,1,1-Trichloroethane	ND	0.79	0.792	
1,2-Dibromoethane	ND	0.79	0.792		1,1,2-Trichloroethane	ND	0.79	0.792	
Dibromomethane	ND	0.79	0.792		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	0.792	
1,2-Dichlorobenzene	ND	0.79	0.792		Trichloroethene	ND	1.6	0.792	
1,3-Dichlorobenzene	ND	0.79	0.792		Trichlorofluoromethane	ND	7.9	0.792	
1,4-Dichlorobenzene	ND	0.79	0.792		1,2,3-Trichloropropane	ND	1.6	0.792	
Dichlorodifluoromethane	ND	1.6	0.792		1,2,4-Trimethylbenzene	ND	1.6	0.792	
1,1-Dichloroethane	ND	0.79	0.792		1,3,5-Trimethylbenzene	ND	1.6	0.792	
1,2-Dichloroethane	ND	0.79	0.792		Vinyl Acetate	ND	7.9	0.792	
1,1-Dichloroethene	ND	0.79	0.792		Vinyl Chloride	ND	0.79	0.792	
c-1,2-Dichloroethene	ND	0.79	0.792		p/m-Xylene	ND	1.6	0.792	
t-1,2-Dichloroethene	ND	0.79	0.792		o-Xylene	ND	0.79	0.792	
1,2-Dichloropropane	ND	0.79	0.792		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.792	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	134	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS21-10'	**08-10-2683-44-C**	**10/30/08 15:20**	**Solid**	**GC/MS XX**	**10/30/08**	**11/01/08 21:08**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.847		1,3-Dichloropropane	ND	0.85	0.847	
Benzene	ND	0.85	0.847		2,2-Dichloropropane	ND	4.2	0.847	
Bromobenzene	ND	0.85	0.847		1,1-Dichloropropene	ND	1.7	0.847	
Bromochloromethane	ND	1.7	0.847		c-1,3-Dichloropropene	ND	0.85	0.847	
Bromodichloromethane	ND	0.85	0.847		t-1,3-Dichloropropene	ND	1.7	0.847	
Bromoform	ND	4.2	0.847		Ethylbenzene	ND	0.85	0.847	
Bromomethane	ND	17	0.847		2-Hexanone	ND	17	0.847	
2-Butanone	ND	17	0.847		Isopropylbenzene	ND	0.85	0.847	
n-Butylbenzene	ND	0.85	0.847		p-Isopropyltoluene	ND	0.85	0.847	
sec-Butylbenzene	ND	0.85	0.847		Methylene Chloride	ND	8.5	0.847	
tert-Butylbenzene	ND	0.85	0.847		4-Methyl-2-Pentanone	ND	17	0.847	
Carbon Disulfide	ND	8.5	0.847		Naphthalene	ND	8.5	0.847	
Carbon Tetrachloride	ND	0.85	0.847		n-Propylbenzene	ND	1.7	0.847	
Chlorobenzene	ND	0.85	0.847		Styrene	ND	0.85	0.847	
Chloroethane	ND	1.7	0.847		1,1,1,2-Tetrachloroethane	ND	0.85	0.847	
Chloroform	ND	0.85	0.847		1,1,2,2-Tetrachloroethane	ND	1.7	0.847	
Chloromethane	ND	17	0.847		Tetrachloroethene	ND	0.85	0.847	
2-Chlorotoluene	ND	0.85	0.847		Toluene	1.0	0.85	0.847	
4-Chlorotoluene	ND	0.85	0.847		1,2,3-Trichlorobenzene	ND	1.7	0.847	
Dibromochloromethane	ND	1.7	0.847		1,2,4-Trichlorobenzene	ND	1.7	0.847	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.847		1,1,1-Trichloroethane	ND	0.85	0.847	
1,2-Dibromoethane	ND	0.85	0.847		1,1,2-Trichloroethane	ND	0.85	0.847	
Dibromomethane	ND	0.85	0.847		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.847	
1,2-Dichlorobenzene	ND	0.85	0.847		Trichloroethene	ND	1.7	0.847	
1,3-Dichlorobenzene	ND	0.85	0.847		Trichlorofluoromethane	ND	8.5	0.847	
1,4-Dichlorobenzene	ND	0.85	0.847		1,2,3-Trichloropropane	ND	1.7	0.847	
Dichlorodifluoromethane	ND	1.7	0.847		1,2,4-Trimethylbenzene	ND	1.7	0.847	
1,1-Dichloroethane	ND	0.85	0.847		1,3,5-Trimethylbenzene	ND	1.7	0.847	
1,2-Dichloroethane	ND	0.85	0.847		Vinyl Acetate	ND	8.5	0.847	
1,1-Dichloroethene	ND	0.85	0.847		Vinyl Chloride	ND	0.85	0.847	
c-1,2-Dichloroethene	ND	0.85	0.847		p/m-Xylene	ND	1.7	0.847	
t-1,2-Dichloroethene	ND	0.85	0.847		o-Xylene	ND	0.85	0.847	
1,2-Dichloropropane	ND	0.85	0.847		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.847	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	122	71-137			1,2-Dichloroethane-d4	135	58-160		
1,4-Bromofluorobenzene	90	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-16,961**	**N/A**	**Solid**	**GC/MS XX**	**11/01/08**	**11/01/08 13:16**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	1.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	2.0	1	
Bromochloromethane	ND	2.0	1		c-1,3-Dichloropropene	ND	1.0	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	20	1		2-Hexanone	ND	20	1	
2-Butanone	ND	20	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	20	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	2.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chloromethane	ND	20	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Dibromochloromethane	ND	2.0	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
Dichlorodifluoromethane	ND	2.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	112	71-137			1,2-Dichloroethane-d4	117	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-5'	**08-10-2683-2-A**	**10/30/08 08:40**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 13:52**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	73-139			1,2-Dichloroethane-d4	124	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	87	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS14-9.5'	**08-10-2683-3-A**	**10/30/08 08:45**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 17:46**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	116	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-5'	**08-10-2683-5-A**	**10/30/08 09:12**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 18:15**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS17-10'	**08-10-2683-6-A**	**10/30/08 09:15**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 18:44**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	124	73-139			1,2-Dichloroethane-d4	130	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	90	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/30/08
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-443**	**N/A**	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08 12:53**	**081101L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	130	73-139			1,2-Dichloroethane-d4	123	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	88	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2668-1	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	92	100	75-125	7	0-20	
Cadmium	98	99	75-125	2	0-20	
Lead	97	97	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS17-0.5'	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	90	87	75-125	3	0-20	
Cadmium	95	93	75-125	1	0-20	
Lead	81	73	75-125	4	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3010A Total
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2705-3	**Aqueous**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031SA3**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	105	107	80-140	2	0-11	
Cadmium	101	100	82-124	1	0-7	
Lead	99	100	84-120	1	0-7	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS17-10'	**Solid**	**GC 3**	**10/31/08**	**11/01/08**	**081031S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	103	118	64-130	14	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS22-10'	**Solid**	**GC 3**	**10/31/08**	**10/31/08**	**081031S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	98	101	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS18-10'	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08**	**081031S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	77	76	40-106	0	0-20	
Pyrene	75	72	6-156	4	0-46	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS23-5'	**Solid**	**GC 31**	**10/31/08**	**11/04/08**	**081031S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	61	60	50-135	2	0-20	
Aroclor-1260	82	77	50-135	7	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2627-3	**Solid**	**GC 16**	**10/31/08**	**11/03/08**	**081031S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	70	64	50-135	7	0-20	
Aroclor-1260	78	72	50-135	9	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2288-23	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08**	**081104S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	95	88-118	1	0-7	
Carbon Tetrachloride	94	96	67-145	2	0-11	
Chlorobenzene	101	100	88-118	1	0-7	
1,2-Dibromoethane	97	94	70-130	3	0-30	
1,2-Dichlorobenzene	100	98	86-116	2	0-8	
1,1-Dichloroethene	97	98	70-130	1	0-25	
Ethylbenzene	98	97	70-130	1	0-30	
Toluene	101	96	87-123	5	0-8	
Trichloroethene	92	91	79-127	1	0-10	
Vinyl Chloride	141	114	69-129	21	0-13	3,4
Methyl-t-Butyl Ether (MTBE)	94	91	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	67	68	36-168	1	0-45	
Diisopropyl Ether (DIPE)	95	93	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	88	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	90	88	72-126	2	0-12	
Ethanol	97	97	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS14-5'	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08**	**081101S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	92	79-115	6	0-13	
Carbon Tetrachloride	120	116	55-139	3	0-15	
Chlorobenzene	94	90	79-115	4	0-17	
1,2-Dibromoethane	85	81	70-130	5	0-30	
1,2-Dichlorobenzene	92	90	63-123	2	0-23	
1,1-Dichloroethene	96	98	69-123	2	0-16	
Ethylbenzene	96	93	70-130	3	0-30	
Toluene	97	93	79-115	4	0-15	
Trichloroethene	96	93	66-144	3	0-14	
Vinyl Chloride	95	95	60-126	0	0-14	
Methyl-t-Butyl Ether (MTBE)	89	88	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	54	55	44-134	1	0-37	
Diisopropyl Ether (DIPE)	93	90	75-123	3	0-12	
Ethyl-t-Butyl Ether (ETBE)	92	93	75-117	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	91	79-115	7	0-12	
Ethanol	58	53	42-138	9	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,689	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	96	98	80-120	1	0-20	
Cadmium	105	106	80-120	0	0-20	
Lead	106	106	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,692	**Solid**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	98	98	80-120	1	0-20	
Cadmium	108	108	80-120	0	0-20	
Lead	109	108	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3010A Total
	Method:	EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-8,777	**Aqueous**	**ICP 5300**	**10/31/08**	**11/03/08**	**081031LA3**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	101	103	80-120	2	0-20	
Cadmium	106	109	80-120	3	0-20	
Lead	107	109	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-2,275	**Solid**	**GC 3**	**10/31/08**	**11/01/08**	**081031B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	93	93	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering		Date Received:	N/A
26691 Plaza, Suite 270		Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-2,274	**Solid**	**GC 3**	**10/31/08**	**10/31/08**	**081031B06**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	101	104	75-123	2	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-801	**Aqueous**	**GC 47**	**10/31/08**	**11/03/08**	**081031B09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	93	94	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-241	**Solid**	**GC/MS GG**	**10/31/08**	**11/03/08**	**081031L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	93	93	48-108	0	0-11	
Pyrene	83	83	28-106	0	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-488	**Solid**	**GC 31**	**10/31/08**	**11/04/08**	**081031L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	116	116	50-135	0	0-20	
Aroclor-1260	126	128	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-486	**Solid**	**GC 16**	**10/31/08**	**11/03/08**	**081031L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	80	81	50-135	2	0-20	
Aroclor-1260	86	89	50-135	3	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,366	**Aqueous**	**GC/MS LL**	**11/04/08**	**11/04/08**	**081104L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	96	84-120	78-126	2	0-8	
Carbon Tetrachloride	97	95	63-147	49-161	2	0-10	
Chlorobenzene	104	102	89-119	84-124	2	0-7	
1,2-Dibromoethane	100	98	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	103	102	89-119	84-124	1	0-9	
1,1-Dichloroethene	102	99	77-125	69-133	3	0-16	
Ethylbenzene	101	99	80-120	73-127	1	0-20	
Toluene	102	104	83-125	76-132	2	0-9	
Trichloroethene	99	97	89-119	84-124	3	0-8	
Vinyl Chloride	118	132	63-135	51-147	11	0-13	
Methyl-t-Butyl Ether (MTBE)	97	98	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	69	75	46-154	28-172	9	0-32	
Diisopropyl Ether (DIPE)	98	96	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	93	94	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	94	76-124	68-132	1	0-10	
Ethanol	102	117	60-138	47-151	14	0-32	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 5035
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-16,961	**Solid**	**GC/MS XX**	**11/01/08**	**11/01/08**	**081101L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	96	85-115	80-120	2	0-11	
Carbon Tetrachloride	101	97	68-134	57-145	5	0-14	
Chlorobenzene	97	96	83-119	77-125	2	0-9	
1,2-Dibromoethane	97	97	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	95	57-135	44-148	4	0-10	
1,1-Dichloroethene	102	98	72-120	64-128	4	0-10	
Ethylbenzene	104	101	80-120	73-127	3	0-20	
Toluene	99	97	67-127	57-137	2	0-10	
Trichloroethene	98	98	88-112	84-116	1	0-9	
Vinyl Chloride	126	125	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	97	104	76-124	68-132	7	0-12	
Tert-Butyl Alcohol (TBA)	85	71	31-145	12-164	17	0-23	
Diisopropyl Ether (DIPE)	103	102	74-128	65-137	1	0-10	
Ethyl-t-Butyl Ether (ETBE)	98	101	77-125	69-133	3	0-9	
Tert-Amyl-Methyl Ether (TAME)	100	101	81-123	74-130	1	0-10	
Ethanol	130	103	44-152	26-170	23	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-443	**Solid**	**GC/MS U**	**11/01/08**	**11/01/08**	**081101L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	96	100	84-114	79-119	4	0-7	
Carbon Tetrachloride	118	123	66-132	55-143	4	0-12	
Chlorobenzene	91	96	87-111	83-115	5	0-7	
1,2-Dibromoethane	97	101	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	93	92	79-115	73-121	1	0-8	
1,1-Dichloroethene	98	109	73-121	65-129	10	0-12	
Ethylbenzene	93	97	80-120	73-127	4	0-20	
Toluene	96	103	78-114	72-120	7	0-7	
Trichloroethene	93	98	84-114	79-119	5	0-8	
Vinyl Chloride	96	107	63-129	52-140	11	0-15	
Methyl-t-Butyl Ether (MTBE)	96	102	77-125	69-133	6	0-11	
Tert-Butyl Alcohol (TBA)	88	97	47-137	32-152	10	0-27	
Diisopropyl Ether (DIPE)	94	96	76-130	67-139	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	95	98	76-124	68-132	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	102	82-118	76-124	2	0-11	
Ethanol	88	95	59-131	47-143	8	0-21	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2683

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Revised COC
08-10-2683
Received 11/03/08

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/30/08

Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

PROJECT CONTACT: Craig Stolz

SAMPLER(S) (PRINT): Scott Miles

COELT LOG CODE: ☐☐☐☐

P.O. NO:

LAB USE ONLY: 10-2683

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or ( )	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+		PAH 8270 SIM	TOTAL Arsenic, Lead, Cadmium
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	1										X								X
20	GS18-5'			1205	↓	4			X		X					X								X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Scott Miles	Precy A - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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05/01/07 Revision

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Calscience Environmental Laboratories, Inc.

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Garden Grove, CA 92841-1427
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☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08

Page 1 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza #270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2683
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44+)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) x	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	PAH 8270C SIM	TOTAL Chem. Lead, Cadmium
1	GS14-0.5'		10/30/08	0835	Soil	1										X							X
2	GS 14 - 5'			0840		1			X		X					X						X	X
3	GS 14 - 9.5'			0845		1			X		X												
4	GS12 - 0.5'			0907		1										X							X
5	GS17 - 5'			0912		1			X		X					X							X
6	GS17 - 10'			0915		1			X		X											X	
7	GS13 - 0.5'			0940		1										X						X	X
8	GS13 - 5'			0945		4			X		X					X						X	X
9	GS13 - 10'			0950		4			X		X												X
10	GS13 - GW			1000	H2O	5			X		X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A. CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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05/01/07 Revision

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(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08
Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza #270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2683
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	7 OTAL Arsenic, Lead, Cadmium
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	4										X								X
20	GS18-5'		↓	1205	↓	4			X		X					X								X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Precy A - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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05/01/07 Revision

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08

Page 3 of 5

LABORATORY CLIENT: Pacific Edge Engineering		CLIENT PROJECT NAME / NUMBER: PCA - 7th Street Garage	P.O. NO.:
ADDRESS: 26691 PLAZA, Suite 270		PROJECT CONTACT: Craig Stolz	LAB USE ONLY 10-2683
CITY: Mission Viejo	STATE: CA ZIP: 92691	SAMPLER(S): (PRINT) Scott Miles	COELT LOG CODE
TEL: (949) 470-1937	E-MAIL: CStolz@pacificedge-eng.com		COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	Arsen i, Total Cadmium
21	GS18-10'		10/30/08	1215	Soil	4			X		X												X	
22	GS19-0.5			1250		1										X								X
23	GS19-1'			1252		1			X							X								X
24	GS19-5'			1255		4			X		X												X	
25	GS19-10'			1300		4			X		X													
26	GS19-GW			1310	H_2O	5			X		X													
27	GS20-0.5			1320	Soil	1										X								X
28	GS20-1'			1322		1										X							X	X
29	GS20-5'			1328		4			X		X													
30	GS20-10'			1340		4			X		X													

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Pracy A. CEL	Date: 10/30/08	Time: 16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Date 10/30/08

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo | STATE: CA | ZIP: 92691

TEL: (949) 470-1937 | E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

PROJECT CONTACT: Craig Stolz

P.O. NO.:

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM Total Arsenic, Lead, Cadmium	
31	GS20-GW		10/30/08	1350	H2O	5			X		X													
32	GS23-0.5'			1355	Soil	1										X								X
33	GS23-1'			1357		1										X								X
34	GS23-5'			1401		4			X		X					X								
35	GS23-10'			1405		4			X		X												X	
36	GS22-0.5'			1430		1										X								X
37	GS22-1'			1433		1										X								X
38	GS22-5'			1440		4			X		X												X	
39	GS22-10'			1445		4			X		X													
40	GS23-GW			1415	H2O	5			X		X													

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Preeya A. CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

Date 10/30/08

Page 5 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ___		PAH 8270 SIM	Total Arsenic, Lead, Cadmium
41	GS22-GW		10/30/08	1500	H2O	5			X		X												(CAM)	X
42	GS22-0.5			1510	Soil	1										X								X
43	GS21-5'			1515		4			X		X					X							X	X
44	GS21-10'			1520		4			X		X													
45	GS21-GW			1530	H2O	5			X		X													

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy L - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-0268 3

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING

DATE: 10/30/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C + 1.8 °C (CF) = 4.1 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑4 VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☑1AGB ☐$1AGBna_2$

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: PS

Reviewed by: NC

Scanned by: PS

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/30/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C + 1.8 °C (CF) = 4.4 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter Initial: PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☑1AGB ☐$1AGBna_2$ ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: PS

Reviewed by: MC

Scanned by: PS

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID's**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☑ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

(-19) GS18-0-5' RCVD 1 CONTAINER INSTEAD OF 4. (8260 not requested)

VOA HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received

Comments: _____

Initial and Date PS 10-30-08

Calscience
Environmental
Laboratories, Inc.

November 10, 2008

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2805**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/31/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 1 of 6

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-0.5'	**08-10-2805-1-A**	**10/31/08 08:27**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:10**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	32.5	0.750	1		Lead	369	0.500	1	
Cadmium	4.36	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-1'	**08-10-2805-4-A**	**10/31/08 08:30**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:24**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.92	0.750	1		Lead	17.8	0.500	1	
Cadmium	0.560	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-0.5'	**08-10-2805-6-A**	**10/31/08 09:00**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:26**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.97	0.750	1		Lead	194	0.500	1	
Cadmium	8.55	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-1'	**08-10-2805-7-A**	**10/31/08 09:02**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:28**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.48	0.750	1		Lead	51.3	0.500	1	
Cadmium	1.23	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-0.5'	**08-10-2805-10-A**	**10/31/08 09:20**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:30**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	65.3	0.750	1		Lead	520	0.500	1	
Cadmium	1.09	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-1'	**08-10-2805-11-A**	**10/31/08 09:22**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:32**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.54	0.750	1		Lead	14.1	0.500	1	
Cadmium	4.96	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 2 of 6

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-0.5'	**08-10-2805-14-A**	**10/31/08 09:32**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:34**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.07	0.750	1		Lead	278	0.500	1	
Cadmium	1.77	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-1'	**08-10-2805-15-A**	**10/31/08 09:34**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:36**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	8.11	0.750	1		Lead	61.5	0.500	1	
Cadmium	2.01	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-0.5'	**08-10-2805-18-A**	**10/31/08 09:55**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:38**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.90	0.750	1		Lead	13.1	0.500	1	
Cadmium	0.637	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-1'	**08-10-2805-19-A**	**10/31/08 09:57**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:40**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.15	0.750	1		Lead	9.09	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-0.5'	**08-10-2805-23-A**	**10/31/08 11:03**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:42**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	2.83	0.750	1		Lead	157	0.500	1	
Cadmium	1.70	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-1'	**08-10-2805-24-A**	**10/31/08 11:05**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:49**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	6.31	0.750	1		Lead	61.7	0.500	1	
Cadmium	0.685	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 3 of 6

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-0.5'	**08-10-2805-28-A**	**10/31/08 11:37**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:51**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	59.3	0.750	1		Lead	167	0.500	1	
Cadmium	1.37	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-1'	**08-10-2805-29-A**	**10/31/08 11:39**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:53**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	105	0.750	1		Lead	63.1	0.500	1	
Cadmium	1.04	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-0.5'	**08-10-2805-32-A**	**10/31/08 11:53**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:55**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	5.83	0.750	1		Lead	106	0.500	1	
Cadmium	2.68	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-1'	**08-10-2805-33-A**	**10/31/08 11:55**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:57**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	3.16	0.750	1		Lead	69.0	0.500	1	
Cadmium	1.67	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-5'	**08-10-2805-34-A**	**10/31/08 11:58**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 17:59**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	7.79	0.750	1		Lead	5.74	0.500	1	
Cadmium	0.613	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-0.5'	**08-10-2805-43-A**	**10/31/08 12:37**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:00**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	2.74	0.500	1		Lead	319	0.500	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-1'	**08-10-2805-44-A**	**10/31/08 12:38**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:02**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	11.7	0.500	1		Lead	536	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-0.5'	**08-10-2805-46-A**	**10/31/08 12:40**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:04**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.08	0.500	1		Lead	758	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-1'	**08-10-2805-47-A**	**10/31/08 12:41**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:06**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.20	0.500	1		Lead	302	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA5-0.5'	**08-10-2805-49-A**	**10/31/08 12:44**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:15**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.32	0.500	1		Lead	1110	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-0.5'	**08-10-2805-52-A**	**10/31/08 12:47**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:12**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	5.48	0.500	1		Lead	181	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-1'	**08-10-2805-53-A**	**10/31/08 12:48**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:14**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	303	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA7-0.5'	**08-10-2805-55-A**	**10/31/08 12:50**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:16**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	1.71	0.500	1		Lead	106	0.500	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: POLA-7th Street Garage		Page 5 of 6

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA7-1'	**08-10-2805-56-A**	**10/31/08 12:51**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:18**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	191	0.500	1	

HA8-0.5'	**08-10-2805-58-A**	**10/31/08 12:54**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:20**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	3.21	0.500	1		Lead	217	0.500	1	

HA8-1'	**08-10-2805-59-A**	**10/31/08 12:55**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:22**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	1550	0.500	1	

HA9-0.5'	**08-10-2805-61-A**	**10/31/08 12:57**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:23**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	161	0.500	1	

HA9-1'	**08-10-2805-62-A**	**10/31/08 12:58**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:25**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	82.0	0.500	1	

HA10-0.5'	**08-10-2805-64-A**	**10/31/08 12:59**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:27**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	47.3	0.500	1	

HA10-1'	**08-10-2805-65-A**	**10/31/08 13:00**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:29**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	4.46	0.500	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA11-0.5'	**08-10-2805-67-A**	**10/31/08 13:02**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:35**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	147	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA11-3'	**08-10-2805-70-A**	**10/31/08 13:05**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:37**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	5.62	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA12-0.5'	**08-10-2805-71-A**	**10/31/08 13:07**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:39**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	221	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA12-3'	**08-10-2805-74-A**	**10/31/08 13:10**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 18:41**	**081103L03**

Parameter	Result	RL	DF	Qual
Lead	10.8	0.500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,698**	**N/A**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:02**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-11,699**	**N/A**	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08 15:04**	**081103L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Cadmium	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering	Date Received: 10/31/08
26691 Plaza, Suite 270	Work Order No: 08-10-2805
Mission Viejo, CA 92691-6307	Preparation: EPA 3550B
	Method: EPA 8015B (M)
	Units: mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-5'	**08-10-2805-2-A**	**10/31/08 08:35**	**Solid**	**GC 15**	**11/03/08**	**11/03/08 00:00**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.30		1	
C7	ND		1		C23-C24	0.27		1	
C8	ND		1		C25-C28	3.4		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.72		1		C41-C44	ND		1	
C17-C18	0.11		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.064		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-10'	**08-10-2805-3-A**	**10/31/08 08:40**	**Solid**	**GC 15**	**11/03/08**	**11/03/08 00:35**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.38		1	
C7	ND		1		C23-C24	0.33		1	
C8	ND		1		C25-C28	2.9		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.032		1		C37-C40	ND		1	
C15-C16	0.59		1		C41-C44	ND		1	
C17-C18	0.011		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.020		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-5'	**08-10-2805-8-A**	**10/31/08 09:08**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 01:10**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.27		1	
C7	ND		1		C23-C24	0.30		1	
C8	ND		1		C25-C28	0.73		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.26		1		C41-C44	ND		1	
C17-C18	0.044		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.045		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-10'	**08-10-2805-9-A**	**10/31/08 09:11**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 01:45**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.32		1	
C7	ND		1		C23-C24	0.52		1	
C8	ND		1		C25-C28	5.0		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.68		1		C41-C44	ND		1	
C17-C18	0.029		1		C6-C44 Total	6.6	5.0	1	
C19-C20	0.11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-5'	**08-10-2805-12-A**	**10/31/08 09:24**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 12:21**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	2.3		1	
C7	0.64		1		C23-C24	2.4		1	
C8	0.52		1		C25-C28	11		1	
C9-C10	0.36		1		C29-C32	7.7		1	
C11-C12	0.97		1		C33-C36	5.2		1	
C13-C14	0.64		1		C37-C40	5.1		1	
C15-C16	1.4		1		C41-C44	3.2		1	
C17-C18	1.2		1		C6-C44 Total	45	5.0	1	
C19-C20	1.8		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	61-145	

GS29-10'	**08-10-2805-13-A**	**10/31/08 09:27**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 02:55**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.35		1	
C7	ND		1		C23-C24	1.0		1	
C8	ND		1		C25-C28	1.8		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	0.30		1		C41-C44	ND		1	
C17-C18	0.0079		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.021		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-5'	**08-10-2805-16-A**	**10/31/08 09:38**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 03:31**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.36		1	
C7	ND		1		C23-C24	0.65		1	
C8	ND		1		C25-C28	7.2		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.35		1		C33-C36	ND		1	
C13-C14	0.15		1		C37-C40	ND		1	
C15-C16	1.2		1		C41-C44	ND		1	
C17-C18	0.088		1		C6-C44 Total	10	5.0	1	
C19-C20	0.080		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-10'	**08-10-2805-17-A**	**10/31/08 09:43**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 04:06**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.047		1	
C7	ND		1		C23-C24	0.28		1	
C8	ND		1		C25-C28	0.83		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-1'	**08-10-2805-19-A**	**10/31/08 09:57**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 04:42**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		2		C21-C22	8.9		2	
C7	ND		2		C23-C24	12		2	
C8	0.54		2		C25-C28	29		2	
C9-C10	0.42		2		C29-C32	34		2	
C11-C12	0.28		2		C33-C36	25		2	
C13-C14	0.65		2		C37-C40	28		2	
C15-C16	1.5		2		C41-C44	15		2	
C17-C18	3.1		2		C6-C44 Total	160	10	2	
C19-C20	6.1		2						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-5'	**08-10-2805-20-A**	**10/31/08 10:00**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 05:52**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.26		1	
C7	ND		1		C23-C24	0.61		1	
C8	ND		1		C25-C28	3.5		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.22		1		C33-C36	ND		1	
C13-C14	0.19		1		C37-C40	ND		1	
C15-C16	0.52		1		C41-C44	ND		1	
C17-C18	0.14		1		C6-C44 Total	5.6	5.0	1	
C19-C20	0.13		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-10'	**08-10-2805-21-A**	**10/31/08 10:04**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 11:11**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		100		C21-C22	1500		100	
C7	ND		100		C23-C24	1300		100	
C8	100		100		C25-C28	2600		100	
C9-C10	590		100		C29-C32	2300		100	
C11-C12	1200		100		C33-C36	1600		100	
C13-C14	1900		100		C37-C40	1500		100	
C15-C16	1900		100		C41-C44	1000		100	
C17-C18	1600		100		C6-C44 Total	21000	500	100	
C19-C20	1700		100						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	124	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-1'	**08-10-2805-24-A**	**10/31/08 11:05**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 13:31**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		50		C21-C22	950		50	
C7	ND		50		C23-C24	960		50	
C8	ND		50		C25-C28	2600		50	
C9-C10	ND		50		C29-C32	2700		50	
C11-C12	3.8		50		C33-C36	2100		50	
C13-C14	53		50		C37-C40	2100		50	
C15-C16	200		50		C41-C44	1500		50	
C17-C18	390		50		C6-C44 Total	14000	250	50	
C19-C20	640		50						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	165	61-145	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-A**	**10/31/08 11:08**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 07:39**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	0.18		1	
C8	ND		1		C25-C28	0.28		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	5.0	1	
C19-C20	ND		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-10'	**08-10-2805-26-A**	**10/31/08 11:12**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 08:14**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.39		1	
C7	ND		1		C23-C24	0.40		1	
C8	ND		1		C25-C28	4.3		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	0.36		1		C33-C36	ND		1	
C13-C14	0.18		1		C37-C40	ND		1	
C15-C16	0.72		1		C41-C44	ND		1	
C17-C18	0.060		1		C6-C44 Total	6.5	5.0	1	
C19-C20	0.10		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-5'	**08-10-2805-30-A**	**10/31/08 11:43**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 12:56**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	1.3		1	
C7	ND		1		C23-C24	1.4		1	
C8	0.29		1		C25-C28	6.0		1	
C9-C10	0.19		1		C29-C32	3.1		1	
C11-C12	0.13		1		C33-C36	1.9		1	
C13-C14	0.23		1		C37-C40	3.2		1	
C15-C16	0.51		1		C41-C44	2.8		1	
C17-C18	0.32		1		C6-C44 Total	22	5.0	1	
C19-C20	0.61		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

GS24-10'	08-10-2805-31-A	10/31/08 11:46	Solid	GC 15	11/03/08	11/04/08 09:25	081103B06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.34		1	
C7	ND		1		C23-C24	0.83		1	
C8	ND		1		C25-C28	0.57		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	0.044		1		C37-C40	ND		1	
C15-C16	0.20		1		C41-C44	ND		1	
C17-C18	0.095		1		C6-C44 Total	ND	5.0	1	
C19-C20	0.11		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-5'	**08-10-2805-34-A**	**10/31/08 11:58**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 10:00**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.21		1	
C7	ND		1		C23-C24	0.21		1	
C8	ND		1		C25-C28	4.3		1	
C9-C10	0.90		1		C29-C32	0.17		1	
C11-C12	1.0		1		C33-C36	ND		1	
C13-C14	0.52		1		C37-C40	ND		1	
C15-C16	1.5		1		C41-C44	ND		1	
C17-C18	0.27		1		C6-C44 Total	9.3	5.0	1	
C19-C20	0.21		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-10'	**08-10-2805-35-A**	**10/31/08 12:04**	**Solid**	**GC 15**	**11/03/08**	**11/04/08 10:36**	**081103B06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	0.22		1	
C7	ND		1		C23-C24	0.19		1	
C8	ND		1		C25-C28	1.6		1	
C9-C10	1.5		1		C29-C32	0.60		1	
C11-C12	0.94		1		C33-C36	ND		1	
C13-C14	0.50		1		C37-C40	ND		1	
C15-C16	1.0		1		C41-C44	ND		1	
C17-C18	0.32		1		C6-C44 Total	7.1	5.0	1	
C19-C20	0.22		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-275-2,277**	**N/A**	**Solid**	**GC 15**	**11/03/08**	**11/03/08 20:26**	**081103B06**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)
	Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-GW	**08-10-2805-5-E**	**10/31/08 08:50**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 20:51**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	5.4		1	
C7	ND		1		C23-C24	11		1	
C8	ND		1		C25-C28	32		1	
C9-C10	ND		1		C29-C32	24		1	
C11-C12	ND		1		C33-C36	12		1	
C13-C14	ND		1		C37-C40	5.1		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	1.6		1		C6-C44 Total	98	50	1	
C19-C20	7.7		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-GW	**08-10-2805-22-E**	**10/31/08 10:15**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 21:06**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		10		C21-C22	4200		10	
C7	ND		10		C23-C24	2900		10	
C8	ND		10		C25-C28	3300		10	
C9-C10	79		10		C29-C32	3100		10	
C11-C12	680		10		C33-C36	1800		10	
C13-C14	1600		10		C37-C40	1600		10	
C15-C16	3900		10		C41-C44	880		10	
C17-C18	4200		10		C6-C44 Total	34000	500	10	
C19-C20	5700		10						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-GW	**08-10-2805-27-E**	**10/31/08 11:20**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 21:22**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	91		1	
C7	ND		1		C23-C24	100		1	
C8	1.1		1		C25-C28	90		1	
C9-C10	14		1		C29-C32	75		1	
C11-C12	32		1		C33-C36	40		1	
C13-C14	59		1		C37-C40	26		1	
C15-C16	69		1		C41-C44	24		1	
C17-C18	80		1		C6-C44 Total	780	50	1	
C19-C20	72		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-GW	**08-10-2805-36-E**	**10/31/08 12:15**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 21:37**	**081105B05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	9.1		1	
C7	ND		1		C23-C24	100		1	
C8	ND		1		C25-C28	42		1	
C9-C10	ND		1		C29-C32	32		1	
C11-C12	ND		1		C33-C36	14		1	
C13-C14	ND		1		C37-C40	6.3		1	
C15-C16	5.9		1		C41-C44	2.1		1	
C17-C18	ND		1		C6-C44 Total	260	50	1	
C19-C20	49		1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	119	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-330-807**	**N/A**	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08 16:15**	**081105B05**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-5'	**08-10-2805-2-A**	**10/31/08 08:35**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 18:11**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	124	18-162			2-Fluorobiphenyl	101	14-146		
p-Terphenyl-d14	106	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-5'	**08-10-2805-8-A**	**10/31/08 09:08**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 18:57**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	112	18-162			2-Fluorobiphenyl	92	14-146		
p-Terphenyl-d14	93	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-10'	**08-10-2805-13-A**	**10/31/08 09:27**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 19:43**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	79	18-162			2-Fluorobiphenyl	68	14-146		
p-Terphenyl-d14	70	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-10'	**08-10-2805-17-A**	**10/31/08 09:43**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 20:30**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	110	18-162			2-Fluorobiphenyl	90	14-146		
p-Terphenyl-d14	93	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-10'	**08-10-2805-21-A**	**10/31/08 10:04**	**Solid**	**GC/MS GG**	**11/03/08**	**11/06/08 23:16**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	8.3	1.0	50		Benzo (a) Anthracene	ND	1.0	50	
2-Methylnaphthalene	26	1.0	50		Chrysene	ND	1.0	50	
Acenaphthylene	ND	1.0	50		Benzo (k) Fluoranthene	ND	1.0	50	
Acenaphthene	1.2	1.0	50		Benzo (b) Fluoranthene	ND	1.0	50	
Fluorene	1.6	1.0	50		Benzo (a) Pyrene	ND	1.0	50	
Phenanthrene	4.2	1.0	50		Benzo (g,h,i) Perylene	ND	1.0	50	
Anthracene	ND	1.0	50		Indeno (1,2,3-c,d) Pyrene	ND	1.0	50	
Fluoranthene	ND	1.0	50		Dibenz (a,h) Anthracene	ND	1.0	50	
Pyrene	ND	1.0	50		1-Methylnaphthalene	17	1.0	50	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	518	18-162		2,1	2-Fluorobiphenyl	95	14-146		
p-Terphenyl-d14	132	34-148							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-A**	**10/31/08 11:08**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 21:16**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	105	18-162			2-Fluorobiphenyl	89	14-146		
p-Terphenyl-d14	98	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-10'	**08-10-2805-31-A**	**10/31/08 11:46**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 22:03**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	98	18-162			2-Fluorobiphenyl	83	14-146		
p-Terphenyl-d14	90	34-148							

GS26-5'	**08-10-2805-34-A**	**10/31/08 11:58**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 22:49**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	100	18-162			2-Fluorobiphenyl	84	14-146		
p-Terphenyl-d14	86	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-243**	**N/A**	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08 17:26**	**081103L13**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	
Anthracene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Pyrene	ND	0.020	1		1-Methylnaphthalene	ND	0.020	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	55	18-162			2-Fluorobiphenyl	53	14-146		
p-Terphenyl-d14	44	34-148							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-0.5'	**08-10-2805-1-A**	**10/31/08 08:27**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 16:15**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	500	10		Aroclor-1248	4400	500	10	
Aroclor-1221	ND	500	10		Aroclor-1254	ND	500	10	
Aroclor-1232	ND	500	10		Aroclor-1260	ND	500	10	
Aroclor-1242	ND	500	10		Aroclor-1262	ND	500	10	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	61	50-130			2,4,5,6-Tetrachloro-m-Xylene	66	50-130		

GS30-1'	08-10-2805-4-A	10/31/08 08:30	Solid	GC 31	11/03/08	11/06/08 16:34	081103L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130		

GS31-0.5'	08-10-2805-6-A	10/31/08 09:00	Solid	GC 31	11/03/08	11/06/08 16:53	081103L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	5000	100		Aroclor-1248	33000	5000	100	
Aroclor-1221	ND	5000	100		Aroclor-1254	ND	5000	100	
Aroclor-1232	ND	5000	100		Aroclor-1260	ND	5000	100	
Aroclor-1242	ND	5000	100		Aroclor-1262	ND	5000	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	93	50-130			2,4,5,6-Tetrachloro-m-Xylene	83	50-130		

GS31-1'	08-10-2805-7-A	10/31/08 09:02	Solid	GC 31	11/03/08	11/06/08 17:12	081103L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	320	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	55	50-130			2,4,5,6-Tetrachloro-m-Xylene	60	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-0.5'	**08-10-2805-10-A**	**10/31/08 09:20**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 14:38**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	46	50-130		2	2,4,5,6-Tetrachloro-m-Xylene	62	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-1'	**08-10-2805-11-A**	**10/31/08 09:22**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 16:35**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	59	50-130			2,4,5,6-Tetrachloro-m-Xylene	86	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-0.5'	**08-10-2805-14-A**	**10/31/08 09:32**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 15:56**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	220	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	54	50-130			2,4,5,6-Tetrachloro-m-Xylene	57	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-1'	**08-10-2805-15-A**	**10/31/08 09:34**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 05:14**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	82	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-0.5'	**08-10-2805-18-A**	**10/31/08 09:55**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 05:33**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	70	50-130			2,4,5,6-Tetrachloro-m-Xylene	78	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-1'	**08-10-2805-19-A**	**10/31/08 09:57**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 05:52**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	75	50-130			2,4,5,6-Tetrachloro-m-Xylene	97	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-A**	**10/31/08 11:08**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 06:11**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	71	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-10'	**08-10-2805-26-A**	**10/31/08 11:12**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 06:30**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	83	50-130			2,4,5,6-Tetrachloro-m-Xylene	87	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-0.5'	**08-10-2805-28-A**	**10/31/08 11:37**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 06:49**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	120	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	66	50-130			2,4,5,6-Tetrachloro-m-Xylene	73	50-130		

GS24-1'	**08-10-2805-29-A**	**10/31/08 11:39**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 07:08**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	57	50-130			2,4,5,6-Tetrachloro-m-Xylene	89	50-130		

GS26-0.5'	**08-10-2805-32-A**	**10/31/08 11:53**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 07:27**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	125	50-130			2,4,5,6-Tetrachloro-m-Xylene	85	50-130		

GS26-1'	**08-10-2805-33-A**	**10/31/08 11:55**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 07:46**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	85	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-0.5'	**08-10-2805-52-A**	**10/31/08 12:47**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 08:05**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	61	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130		

HA6-1'	**08-10-2805-53-A**	**10/31/08 12:48**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 13:40**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	440	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	320	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	31	50-130		2	2,4,5,6-Tetrachloro-m-Xylene	44	50-130		2

HA7-0.5'	**08-10-2805-55-A**	**10/31/08 12:50**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 13:59**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	37	50-130		2	2,4,5,6-Tetrachloro-m-Xylene	46	50-130		2

HA7-1'	**08-10-2805-56-A**	**10/31/08 12:51**	**Solid**	**GC 31**	**11/03/08**	**11/07/08 14:19**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	250	5		Aroclor-1248	ND	250	5	
Aroclor-1221	ND	250	5		Aroclor-1254	2100	250	5	
Aroclor-1232	ND	250	5		Aroclor-1260	ND	250	5	
Aroclor-1242	ND	250	5		Aroclor-1262	ND	250	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	106	50-130			2,4,5,6-Tetrachloro-m-Xylene	196	50-130		2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering	Date Received:	10/31/08
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA8-0.5'	**08-10-2805-58-A**	**10/31/08 12:54**	**Solid**	**GC 16**	**11/03/08**	**11/07/08 13:21**	**081103L12**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	100	2		Aroclor-1248	1900	100	2	
Aroclor-1221	ND	100	2		Aroclor-1254	850	100	2	
Aroclor-1232	ND	100	2		Aroclor-1260	ND	100	2	
Aroclor-1242	ND	100	2		Aroclor-1262	ND	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	46	50-130		2

HA8-1'	**08-10-2805-59-A**	**10/31/08 12:55**	**Solid**	**GC 16**	**11/03/08**	**11/06/08 02:15**	**081103L12**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	540	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	60	50-130			2,4,5,6-Tetrachloro-m-Xylene	68	50-130		

Method Blank	**099-12-535-489**	**N/A**	**Solid**	**GC 16**	**11/03/08**	**11/04/08 21:26**	**081103L12**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	51	50-130			2,4,5,6-Tetrachloro-m-Xylene	64	50-130		

Method Blank	**099-12-535-493**	**N/A**	**Solid**	**GC 31**	**11/03/08**	**11/06/08 14:20**	**081103L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	68	50-130			2,4,5,6-Tetrachloro-m-Xylene	89	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-GW	**08-10-2805-5-A**	**10/31/08 08:50**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 20:07**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	114	82-130			1,2-Dichloroethane-d4	119	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	84	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-GW	**08-10-2805-22-B**	**10/31/08 10:15**	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08 15:19**	**081106L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.64	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	1.1	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	15	1.0	1	
n-Butylbenzene	4.1	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	6.3	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	29	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	16	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	82-130		1,2-Dichloroethane-d4	109	75-141	
Toluene-d8	104	83-113		1,4-Bromofluorobenzene	99	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-GW	**08-10-2805-27-A**	**10/31/08 11:20**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 21:12**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	1.6	1.0	1	
n-Butylbenzene	1.5	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	1.6	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	2.8	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	2.9	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	1.4	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	82-130		1,2-Dichloroethane-d4	123	75-141	
Toluene-d8	102	83-113		1,4-Bromofluorobenzene	97	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-GW	**08-10-2805-36-A**	**10/31/08 12:15**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 21:44**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	113	82-130			1,2-Dichloroethane-d4	119	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	84	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,386**	**N/A**	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08 13:40**	**081105L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	20	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	20	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	114	82-130			1,2-Dichloroethane-d4	115	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	85	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,406**	**N/A**	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08 13:09**	**081106L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	20	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	20	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	114	82-130			1,2-Dichloroethane-d4	117	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	82	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-5'	**08-10-2805-2-C**	**10/31/08 08:35**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 14:23**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	44	0.89		1,3-Dichloropropane	ND	0.89	0.89	
Benzene	ND	0.89	0.89		2,2-Dichloropropane	ND	4.4	0.89	
Bromobenzene	ND	0.89	0.89		1,1-Dichloropropene	ND	1.8	0.89	
Bromochloromethane	ND	1.8	0.89		c-1,3-Dichloropropene	ND	0.89	0.89	
Bromodichloromethane	ND	0.89	0.89		t-1,3-Dichloropropene	ND	1.8	0.89	
Bromoform	ND	4.4	0.89		Ethylbenzene	ND	0.89	0.89	
Bromomethane	ND	18	0.89		2-Hexanone	ND	18	0.89	
2-Butanone	ND	18	0.89		Isopropylbenzene	ND	0.89	0.89	
n-Butylbenzene	ND	0.89	0.89		p-Isopropyltoluene	ND	0.89	0.89	
sec-Butylbenzene	ND	0.89	0.89		Methylene Chloride	ND	8.9	0.89	
tert-Butylbenzene	ND	0.89	0.89		4-Methyl-2-Pentanone	ND	18	0.89	
Carbon Disulfide	ND	8.9	0.89		Naphthalene	ND	8.9	0.89	
Carbon Tetrachloride	ND	0.89	0.89		n-Propylbenzene	ND	1.8	0.89	
Chlorobenzene	ND	0.89	0.89		Styrene	ND	0.89	0.89	
Chloroethane	ND	1.8	0.89		1,1,1,2-Tetrachloroethane	ND	0.89	0.89	
Chloroform	ND	0.89	0.89		1,1,2,2-Tetrachloroethane	ND	1.8	0.89	
Chloromethane	ND	18	0.89		Tetrachloroethene	ND	0.89	0.89	
2-Chlorotoluene	ND	0.89	0.89		Toluene	ND	0.89	0.89	
4-Chlorotoluene	ND	0.89	0.89		1,2,3-Trichlorobenzene	ND	1.8	0.89	
Dibromochloromethane	ND	1.8	0.89		1,2,4-Trichlorobenzene	ND	1.8	0.89	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.89		1,1,1-Trichloroethane	ND	0.89	0.89	
1,2-Dibromoethane	ND	0.89	0.89		1,1,2-Trichloroethane	ND	0.89	0.89	
Dibromomethane	ND	0.89	0.89		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.89	
1,2-Dichlorobenzene	ND	0.89	0.89		Trichloroethene	ND	1.8	0.89	
1,3-Dichlorobenzene	ND	0.89	0.89		Trichlorofluoromethane	ND	8.9	0.89	
1,4-Dichlorobenzene	ND	0.89	0.89		1,2,3-Trichloropropane	ND	1.8	0.89	
Dichlorodifluoromethane	ND	1.8	0.89		1,2,4-Trimethylbenzene	ND	1.8	0.89	
1,1-Dichloroethane	ND	0.89	0.89		1,3,5-Trimethylbenzene	ND	1.8	0.89	
1,2-Dichloroethane	ND	0.89	0.89		Vinyl Acetate	ND	8.9	0.89	
1,1-Dichloroethene	ND	0.89	0.89		Vinyl Chloride	ND	0.89	0.89	
c-1,2-Dichloroethene	ND	0.89	0.89		p/m-Xylene	ND	1.8	0.89	
t-1,2-Dichloroethene	ND	0.89	0.89		o-Xylene	ND	0.89	0.89	
1,2-Dichloropropane	ND	0.89	0.89		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.89	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	125	71-137		1,2-Dichloroethane-d4	137	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-10'	**08-10-2805-3-C**	**10/31/08 08:40**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 14:49**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	39	0.774		1,3-Dichloropropane	ND	0.77	0.774	
Benzene	ND	0.77	0.774		2,2-Dichloropropane	ND	3.9	0.774	
Bromobenzene	ND	0.77	0.774		1,1-Dichloropropene	ND	1.5	0.774	
Bromochloromethane	ND	1.5	0.774		c-1,3-Dichloropropene	ND	0.77	0.774	
Bromodichloromethane	ND	0.77	0.774		t-1,3-Dichloropropene	ND	1.5	0.774	
Bromoform	ND	3.9	0.774		Ethylbenzene	ND	0.77	0.774	
Bromomethane	ND	15	0.774		2-Hexanone	ND	15	0.774	
2-Butanone	ND	15	0.774		Isopropylbenzene	ND	0.77	0.774	
n-Butylbenzene	ND	0.77	0.774		p-Isopropyltoluene	ND	0.77	0.774	
sec-Butylbenzene	ND	0.77	0.774		Methylene Chloride	ND	7.7	0.774	
tert-Butylbenzene	ND	0.77	0.774		4-Methyl-2-Pentanone	ND	15	0.774	
Carbon Disulfide	ND	7.7	0.774		Naphthalene	ND	7.7	0.774	
Carbon Tetrachloride	ND	0.77	0.774		n-Propylbenzene	ND	1.5	0.774	
Chlorobenzene	ND	0.77	0.774		Styrene	ND	0.77	0.774	
Chloroethane	ND	1.5	0.774		1,1,1,2-Tetrachloroethane	ND	0.77	0.774	
Chloroform	ND	0.77	0.774		1,1,2,2-Tetrachloroethane	ND	1.5	0.774	
Chloromethane	ND	15	0.774		Tetrachloroethene	ND	0.77	0.774	
2-Chlorotoluene	ND	0.77	0.774		Toluene	ND	0.77	0.774	
4-Chlorotoluene	ND	0.77	0.774		1,2,3-Trichlorobenzene	ND	1.5	0.774	
Dibromochloromethane	ND	1.5	0.774		1,2,4-Trichlorobenzene	ND	1.5	0.774	
1,2-Dibromo-3-Chloropropane	ND	3.9	0.774		1,1,1-Trichloroethane	ND	0.77	0.774	
1,2-Dibromoethane	ND	0.77	0.774		1,1,2-Trichloroethane	ND	0.77	0.774	
Dibromomethane	ND	0.77	0.774		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.7	0.774	
1,2-Dichlorobenzene	ND	0.77	0.774		Trichloroethene	ND	1.5	0.774	
1,3-Dichlorobenzene	ND	0.77	0.774		Trichlorofluoromethane	ND	7.7	0.774	
1,4-Dichlorobenzene	ND	0.77	0.774		1,2,3-Trichloropropane	ND	1.5	0.774	
Dichlorodifluoromethane	ND	1.5	0.774		1,2,4-Trimethylbenzene	ND	1.5	0.774	
1,1-Dichloroethane	ND	0.77	0.774		1,3,5-Trimethylbenzene	ND	1.5	0.774	
1,2-Dichloroethane	ND	0.77	0.774		Vinyl Acetate	ND	7.7	0.774	
1,1-Dichloroethene	ND	0.77	0.774		Vinyl Chloride	ND	0.77	0.774	
c-1,2-Dichloroethene	ND	0.77	0.774		p/m-Xylene	ND	1.5	0.774	
t-1,2-Dichloroethene	ND	0.77	0.774		o-Xylene	ND	0.77	0.774	
1,2-Dichloropropane	ND	0.77	0.774		Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.774	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	124	71-137			1,2-Dichloroethane-d4	134	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 3 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-5'	**08-10-2805-8-C**	**10/31/08 09:08**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 15:15**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		1,3-Dichloropropane	ND	0.83	0.826	
Benzene	ND	0.83	0.826		2,2-Dichloropropane	ND	4.1	0.826	
Bromobenzene	ND	0.83	0.826		1,1-Dichloropropene	ND	1.7	0.826	
Bromochloromethane	ND	1.7	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Bromodichloromethane	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromoform	ND	4.1	0.826		Ethylbenzene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		2-Hexanone	ND	17	0.826	
2-Butanone	ND	17	0.826		Isopropylbenzene	ND	0.83	0.826	
n-Butylbenzene	ND	0.83	0.826		p-Isopropyltoluene	ND	0.83	0.826	
sec-Butylbenzene	ND	0.83	0.826		Methylene Chloride	ND	8.3	0.826	
tert-Butylbenzene	ND	0.83	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
Carbon Disulfide	ND	8.3	0.826		Naphthalene	ND	8.3	0.826	
Carbon Tetrachloride	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chloromethane	ND	17	0.826		Tetrachloroethene	ND	0.83	0.826	
2-Chlorotoluene	ND	0.83	0.826		Toluene	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Dibromochloromethane	ND	1.7	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
1,2-Dibromoethane	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromomethane	ND	0.83	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		Trichloroethene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,1-Dichloroethane	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Vinyl Chloride	ND	0.83	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	71-137			1,2-Dichloroethane-d4	141	58-160		
1,4-Bromofluorobenzene	88	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 4 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS31-10'	**08-10-2805-9-C**	**10/31/08 09:11**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 15:41**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.796		1,3-Dichloropropane	ND	0.80	0.796	
Benzene	ND	0.80	0.796		2,2-Dichloropropane	ND	4.0	0.796	
Bromobenzene	ND	0.80	0.796		1,1-Dichloropropene	ND	1.6	0.796	
Bromochloromethane	ND	1.6	0.796		c-1,3-Dichloropropene	ND	0.80	0.796	
Bromodichloromethane	ND	0.80	0.796		t-1,3-Dichloropropene	ND	1.6	0.796	
Bromoform	ND	4.0	0.796		Ethylbenzene	ND	0.80	0.796	
Bromomethane	ND	16	0.796		2-Hexanone	ND	16	0.796	
2-Butanone	ND	16	0.796		Isopropylbenzene	ND	0.80	0.796	
n-Butylbenzene	ND	0.80	0.796		p-Isopropyltoluene	ND	0.80	0.796	
sec-Butylbenzene	ND	0.80	0.796		Methylene Chloride	ND	8.0	0.796	
tert-Butylbenzene	ND	0.80	0.796		4-Methyl-2-Pentanone	ND	16	0.796	
Carbon Disulfide	ND	8.0	0.796		Naphthalene	ND	8.0	0.796	
Carbon Tetrachloride	ND	0.80	0.796		n-Propylbenzene	ND	1.6	0.796	
Chlorobenzene	ND	0.80	0.796		Styrene	ND	0.80	0.796	
Chloroethane	ND	1.6	0.796		1,1,1,2-Tetrachloroethane	ND	0.80	0.796	
Chloroform	ND	0.80	0.796		1,1,2,2-Tetrachloroethane	ND	1.6	0.796	
Chloromethane	ND	16	0.796		Tetrachloroethene	ND	0.80	0.796	
2-Chlorotoluene	ND	0.80	0.796		Toluene	ND	0.80	0.796	
4-Chlorotoluene	ND	0.80	0.796		1,2,3-Trichlorobenzene	ND	1.6	0.796	
Dibromochloromethane	ND	1.6	0.796		1,2,4-Trichlorobenzene	ND	1.6	0.796	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.796		1,1,1-Trichloroethane	ND	0.80	0.796	
1,2-Dibromoethane	ND	0.80	0.796		1,1,2-Trichloroethane	ND	0.80	0.796	
Dibromomethane	ND	0.80	0.796		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.796	
1,2-Dichlorobenzene	ND	0.80	0.796		Trichloroethene	ND	1.6	0.796	
1,3-Dichlorobenzene	ND	0.80	0.796		Trichlorofluoromethane	ND	8.0	0.796	
1,4-Dichlorobenzene	ND	0.80	0.796		1,2,3-Trichloropropane	ND	1.6	0.796	
Dichlorodifluoromethane	ND	1.6	0.796		1,2,4-Trimethylbenzene	ND	1.6	0.796	
1,1-Dichloroethane	ND	0.80	0.796		1,3,5-Trimethylbenzene	ND	1.6	0.796	
1,2-Dichloroethane	ND	0.80	0.796		Vinyl Acetate	ND	8.0	0.796	
1,1-Dichloroethene	ND	0.80	0.796		Vinyl Chloride	ND	0.80	0.796	
c-1,2-Dichloroethene	ND	0.80	0.796		p/m-Xylene	ND	1.6	0.796	
t-1,2-Dichloroethene	ND	0.80	0.796		o-Xylene	ND	0.80	0.796	
1,2-Dichloropropane	ND	0.80	0.796		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.796	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	124	71-137		1,2-Dichloroethane-d4	133	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 5 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-5'	**08-10-2805-12-C**	**10/31/08 09:24**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 16:08**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	0.791		1,3-Dichloropropane	ND	0.79	0.791	
Benzene	ND	0.79	0.791		2,2-Dichloropropane	ND	4.0	0.791	
Bromobenzene	ND	0.79	0.791		1,1-Dichloropropene	ND	1.6	0.791	
Bromochloromethane	ND	1.6	0.791		c-1,3-Dichloropropene	ND	0.79	0.791	
Bromodichloromethane	ND	0.79	0.791		t-1,3-Dichloropropene	ND	1.6	0.791	
Bromoform	ND	4.0	0.791		Ethylbenzene	ND	0.79	0.791	
Bromomethane	ND	16	0.791		2-Hexanone	ND	16	0.791	
2-Butanone	ND	16	0.791		Isopropylbenzene	ND	0.79	0.791	
n-Butylbenzene	ND	0.79	0.791		p-Isopropyltoluene	ND	0.79	0.791	
sec-Butylbenzene	ND	0.79	0.791		Methylene Chloride	ND	7.9	0.791	
tert-Butylbenzene	ND	0.79	0.791		4-Methyl-2-Pentanone	ND	16	0.791	
Carbon Disulfide	ND	7.9	0.791		Naphthalene	ND	7.9	0.791	
Carbon Tetrachloride	ND	0.79	0.791		n-Propylbenzene	ND	1.6	0.791	
Chlorobenzene	ND	0.79	0.791		Styrene	ND	0.79	0.791	
Chloroethane	ND	1.6	0.791		1,1,1,2-Tetrachloroethane	ND	0.79	0.791	
Chloroform	ND	0.79	0.791		1,1,2,2-Tetrachloroethane	ND	1.6	0.791	
Chloromethane	ND	16	0.791		Tetrachloroethene	ND	0.79	0.791	
2-Chlorotoluene	ND	0.79	0.791		Toluene	ND	0.79	0.791	
4-Chlorotoluene	ND	0.79	0.791		1,2,3-Trichlorobenzene	ND	1.6	0.791	
Dibromochloromethane	ND	1.6	0.791		1,2,4-Trichlorobenzene	ND	1.6	0.791	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.791		1,1,1-Trichloroethane	ND	0.79	0.791	
1,2-Dibromoethane	ND	0.79	0.791		1,1,2-Trichloroethane	ND	0.79	0.791	
Dibromomethane	ND	0.79	0.791		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	0.791	
1,2-Dichlorobenzene	ND	0.79	0.791		Trichloroethene	ND	1.6	0.791	
1,3-Dichlorobenzene	ND	0.79	0.791		Trichlorofluoromethane	ND	7.9	0.791	
1,4-Dichlorobenzene	ND	0.79	0.791		1,2,3-Trichloropropane	ND	1.6	0.791	
Dichlorodifluoromethane	ND	1.6	0.791		1,2,4-Trimethylbenzene	ND	1.6	0.791	
1,1-Dichloroethane	ND	0.79	0.791		1,3,5-Trimethylbenzene	ND	1.6	0.791	
1,2-Dichloroethane	ND	0.79	0.791		Vinyl Acetate	ND	7.9	0.791	
1,1-Dichloroethene	ND	0.79	0.791		Vinyl Chloride	ND	0.79	0.791	
c-1,2-Dichloroethene	ND	0.79	0.791		p/m-Xylene	ND	1.6	0.791	
t-1,2-Dichloroethene	ND	0.79	0.791		o-Xylene	ND	0.79	0.791	
1,2-Dichloropropane	ND	0.79	0.791		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.791	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	71-137			1,2-Dichloroethane-d4	138	58-160		
1,4-Bromofluorobenzene	88	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 6 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-10'	**08-10-2805-13-C**	**10/31/08 09:27**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 16:34**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.828		1,3-Dichloropropane	ND	0.83	0.828	
Benzene	ND	0.83	0.828		2,2-Dichloropropane	ND	4.1	0.828	
Bromobenzene	ND	0.83	0.828		1,1-Dichloropropene	ND	1.7	0.828	
Bromochloromethane	ND	1.7	0.828		c-1,3-Dichloropropene	ND	0.83	0.828	
Bromodichloromethane	ND	0.83	0.828		t-1,3-Dichloropropene	ND	1.7	0.828	
Bromoform	ND	4.1	0.828		Ethylbenzene	ND	0.83	0.828	
Bromomethane	ND	17	0.828		2-Hexanone	ND	17	0.828	
2-Butanone	ND	17	0.828		Isopropylbenzene	ND	0.83	0.828	
n-Butylbenzene	ND	0.83	0.828		p-Isopropyltoluene	ND	0.83	0.828	
sec-Butylbenzene	ND	0.83	0.828		Methylene Chloride	ND	8.3	0.828	
tert-Butylbenzene	ND	0.83	0.828		4-Methyl-2-Pentanone	ND	17	0.828	
Carbon Disulfide	ND	8.3	0.828		Naphthalene	ND	8.3	0.828	
Carbon Tetrachloride	ND	0.83	0.828		n-Propylbenzene	ND	1.7	0.828	
Chlorobenzene	ND	0.83	0.828		Styrene	ND	0.83	0.828	
Chloroethane	ND	1.7	0.828		1,1,1,2-Tetrachloroethane	ND	0.83	0.828	
Chloroform	ND	0.83	0.828		1,1,2,2-Tetrachloroethane	ND	1.7	0.828	
Chloromethane	ND	17	0.828		Tetrachloroethene	ND	0.83	0.828	
2-Chlorotoluene	ND	0.83	0.828		Toluene	1.3	0.83	0.828	
4-Chlorotoluene	ND	0.83	0.828		1,2,3-Trichlorobenzene	ND	1.7	0.828	
Dibromochloromethane	ND	1.7	0.828		1,2,4-Trichlorobenzene	ND	1.7	0.828	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.828		1,1,1-Trichloroethane	ND	0.83	0.828	
1,2-Dibromoethane	ND	0.83	0.828		1,1,2-Trichloroethane	ND	0.83	0.828	
Dibromomethane	ND	0.83	0.828		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.828	
1,2-Dichlorobenzene	ND	0.83	0.828		Trichloroethene	ND	1.7	0.828	
1,3-Dichlorobenzene	ND	0.83	0.828		Trichlorofluoromethane	ND	8.3	0.828	
1,4-Dichlorobenzene	ND	0.83	0.828		1,2,3-Trichloropropane	ND	1.7	0.828	
Dichlorodifluoromethane	ND	1.7	0.828		1,2,4-Trimethylbenzene	ND	1.7	0.828	
1,1-Dichloroethane	ND	0.83	0.828		1,3,5-Trimethylbenzene	ND	1.7	0.828	
1,2-Dichloroethane	ND	0.83	0.828		Vinyl Acetate	ND	8.3	0.828	
1,1-Dichloroethene	ND	0.83	0.828		Vinyl Chloride	ND	0.83	0.828	
c-1,2-Dichloroethene	ND	0.83	0.828		p/m-Xylene	ND	1.7	0.828	
t-1,2-Dichloroethene	ND	0.83	0.828		o-Xylene	ND	0.83	0.828	
1,2-Dichloropropane	ND	0.83	0.828		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.828	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	128	71-137		1,2-Dichloroethane-d4	139	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-5'	**08-10-2805-16-C**	**10/31/08 09:38**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 17:00**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	45	0.896		1,3-Dichloropropane	ND	0.90	0.896	
Benzene	ND	0.90	0.896		2,2-Dichloropropane	ND	4.5	0.896	
Bromobenzene	ND	0.90	0.896		1,1-Dichloropropene	ND	1.8	0.896	
Bromochloromethane	ND	1.8	0.896		c-1,3-Dichloropropene	ND	0.90	0.896	
Bromodichloromethane	ND	0.90	0.896		t-1,3-Dichloropropene	ND	1.8	0.896	
Bromoform	ND	4.5	0.896		Ethylbenzene	ND	0.90	0.896	
Bromomethane	ND	18	0.896		2-Hexanone	ND	18	0.896	
2-Butanone	ND	18	0.896		Isopropylbenzene	ND	0.90	0.896	
n-Butylbenzene	ND	0.90	0.896		p-Isopropyltoluene	ND	0.90	0.896	
sec-Butylbenzene	ND	0.90	0.896		Methylene Chloride	ND	9.0	0.896	
tert-Butylbenzene	ND	0.90	0.896		4-Methyl-2-Pentanone	ND	18	0.896	
Carbon Disulfide	ND	9.0	0.896		Naphthalene	ND	9.0	0.896	
Carbon Tetrachloride	ND	0.90	0.896		n-Propylbenzene	ND	1.8	0.896	
Chlorobenzene	ND	0.90	0.896		Styrene	ND	0.90	0.896	
Chloroethane	ND	1.8	0.896		1,1,1,2-Tetrachloroethane	ND	0.90	0.896	
Chloroform	ND	0.90	0.896		1,1,2,2-Tetrachloroethane	ND	1.8	0.896	
Chloromethane	ND	18	0.896		Tetrachloroethene	ND	0.90	0.896	
2-Chlorotoluene	ND	0.90	0.896		Toluene	ND	0.90	0.896	
4-Chlorotoluene	ND	0.90	0.896		1,2,3-Trichlorobenzene	ND	1.8	0.896	
Dibromochloromethane	ND	1.8	0.896		1,2,4-Trichlorobenzene	ND	1.8	0.896	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.896		1,1,1-Trichloroethane	ND	0.90	0.896	
1,2-Dibromoethane	ND	0.90	0.896		1,1,2-Trichloroethane	ND	0.90	0.896	
Dibromomethane	ND	0.90	0.896		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.0	0.896	
1,2-Dichlorobenzene	ND	0.90	0.896		Trichloroethene	ND	1.8	0.896	
1,3-Dichlorobenzene	ND	0.90	0.896		Trichlorofluoromethane	ND	9.0	0.896	
1,4-Dichlorobenzene	ND	0.90	0.896		1,2,3-Trichloropropane	ND	1.8	0.896	
Dichlorodifluoromethane	ND	1.8	0.896		1,2,4-Trimethylbenzene	ND	1.8	0.896	
1,1-Dichloroethane	ND	0.90	0.896		1,3,5-Trimethylbenzene	ND	1.8	0.896	
1,2-Dichloroethane	ND	0.90	0.896		Vinyl Acetate	ND	9.0	0.896	
1,1-Dichloroethene	ND	0.90	0.896		Vinyl Chloride	ND	0.90	0.896	
c-1,2-Dichloroethene	ND	0.90	0.896		p/m-Xylene	ND	1.8	0.896	
t-1,2-Dichloroethene	ND	0.90	0.896		o-Xylene	ND	0.90	0.896	
1,2-Dichloropropane	ND	0.90	0.896		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.896	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	71-137			1,2-Dichloroethane-d4	142	58-160		
1,4-Bromofluorobenzene	89	66-126			Toluene-d8	103	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: POLA-7th Street Garage			Page 8 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-10'	**08-10-2805-17-C**	**10/31/08 09:43**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 17:27**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.838		1,3-Dichloropropane	ND	0.84	0.838	
Benzene	ND	0.84	0.838		2,2-Dichloropropane	ND	4.2	0.838	
Bromobenzene	ND	0.84	0.838		1,1-Dichloropropene	ND	1.7	0.838	
Bromochloromethane	ND	1.7	0.838		c-1,3-Dichloropropene	ND	0.84	0.838	
Bromodichloromethane	ND	0.84	0.838		t-1,3-Dichloropropene	ND	1.7	0.838	
Bromoform	ND	4.2	0.838		Ethylbenzene	ND	0.84	0.838	
Bromomethane	ND	17	0.838		2-Hexanone	ND	17	0.838	
2-Butanone	ND	17	0.838		Isopropylbenzene	ND	0.84	0.838	
n-Butylbenzene	ND	0.84	0.838		p-Isopropyltoluene	ND	0.84	0.838	
sec-Butylbenzene	ND	0.84	0.838		Methylene Chloride	ND	8.4	0.838	
tert-Butylbenzene	ND	0.84	0.838		4-Methyl-2-Pentanone	ND	17	0.838	
Carbon Disulfide	ND	8.4	0.838		Naphthalene	ND	8.4	0.838	
Carbon Tetrachloride	ND	0.84	0.838		n-Propylbenzene	ND	1.7	0.838	
Chlorobenzene	ND	0.84	0.838		Styrene	ND	0.84	0.838	
Chloroethane	ND	1.7	0.838		1,1,1,2-Tetrachloroethane	ND	0.84	0.838	
Chloroform	ND	0.84	0.838		1,1,2,2-Tetrachloroethane	ND	1.7	0.838	
Chloromethane	ND	17	0.838		Tetrachloroethene	ND	0.84	0.838	
2-Chlorotoluene	ND	0.84	0.838		Toluene	ND	0.84	0.838	
4-Chlorotoluene	ND	0.84	0.838		1,2,3-Trichlorobenzene	ND	1.7	0.838	
Dibromochloromethane	ND	1.7	0.838		1,2,4-Trichlorobenzene	ND	1.7	0.838	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.838		1,1,1-Trichloroethane	ND	0.84	0.838	
1,2-Dibromoethane	ND	0.84	0.838		1,1,2-Trichloroethane	ND	0.84	0.838	
Dibromomethane	ND	0.84	0.838		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.838	
1,2-Dichlorobenzene	ND	0.84	0.838		Trichloroethene	ND	1.7	0.838	
1,3-Dichlorobenzene	ND	0.84	0.838		Trichlorofluoromethane	ND	8.4	0.838	
1,4-Dichlorobenzene	ND	0.84	0.838		1,2,3-Trichloropropane	ND	1.7	0.838	
Dichlorodifluoromethane	ND	1.7	0.838		1,2,4-Trimethylbenzene	ND	1.7	0.838	
1,1-Dichloroethane	ND	0.84	0.838		1,3,5-Trimethylbenzene	ND	1.7	0.838	
1,2-Dichloroethane	ND	0.84	0.838		Vinyl Acetate	ND	8.4	0.838	
1,1-Dichloroethene	ND	0.84	0.838		Vinyl Chloride	ND	0.84	0.838	
c-1,2-Dichloroethene	ND	0.84	0.838		p/m-Xylene	ND	1.7	0.838	
t-1,2-Dichloroethene	ND	0.84	0.838		o-Xylene	ND	0.84	0.838	
1,2-Dichloropropane	ND	0.84	0.838		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.838	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	128	71-137			1,2-Dichloroethane-d4	140	58-160		
1,4-Bromofluorobenzene	89	66-126			Toluene-d8	103	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-5'	**08-10-2805-20-C**	**10/31/08 10:00**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 17:53**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.846		1,3-Dichloropropane	ND	0.85	0.846	
Benzene	ND	0.85	0.846		2,2-Dichloropropane	ND	4.2	0.846	
Bromobenzene	ND	0.85	0.846		1,1-Dichloropropene	ND	1.7	0.846	
Bromochloromethane	ND	1.7	0.846		c-1,3-Dichloropropene	ND	0.85	0.846	
Bromodichloromethane	ND	0.85	0.846		t-1,3-Dichloropropene	ND	1.7	0.846	
Bromoform	ND	4.2	0.846		Ethylbenzene	ND	0.85	0.846	
Bromomethane	ND	17	0.846		2-Hexanone	ND	17	0.846	
2-Butanone	ND	17	0.846		Isopropylbenzene	ND	0.85	0.846	
n-Butylbenzene	ND	0.85	0.846		p-Isopropyltoluene	ND	0.85	0.846	
sec-Butylbenzene	ND	0.85	0.846		Methylene Chloride	ND	8.5	0.846	
tert-Butylbenzene	ND	0.85	0.846		4-Methyl-2-Pentanone	ND	17	0.846	
Carbon Disulfide	ND	8.5	0.846		Naphthalene	ND	8.5	0.846	
Carbon Tetrachloride	ND	0.85	0.846		n-Propylbenzene	ND	1.7	0.846	
Chlorobenzene	ND	0.85	0.846		Styrene	ND	0.85	0.846	
Chloroethane	ND	1.7	0.846		1,1,1,2-Tetrachloroethane	ND	0.85	0.846	
Chloroform	ND	0.85	0.846		1,1,2,2-Tetrachloroethane	ND	1.7	0.846	
Chloromethane	ND	17	0.846		Tetrachloroethene	ND	0.85	0.846	
2-Chlorotoluene	ND	0.85	0.846		Toluene	ND	0.85	0.846	
4-Chlorotoluene	ND	0.85	0.846		1,2,3-Trichlorobenzene	ND	1.7	0.846	
Dibromochloromethane	ND	1.7	0.846		1,2,4-Trichlorobenzene	ND	1.7	0.846	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.846		1,1,1-Trichloroethane	ND	0.85	0.846	
1,2-Dibromoethane	ND	0.85	0.846		1,1,2-Trichloroethane	ND	0.85	0.846	
Dibromomethane	ND	0.85	0.846		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.846	
1,2-Dichlorobenzene	ND	0.85	0.846		Trichloroethene	ND	1.7	0.846	
1,3-Dichlorobenzene	ND	0.85	0.846		Trichlorofluoromethane	ND	8.5	0.846	
1,4-Dichlorobenzene	ND	0.85	0.846		1,2,3-Trichloropropane	ND	1.7	0.846	
Dichlorodifluoromethane	ND	1.7	0.846		1,2,4-Trimethylbenzene	ND	1.7	0.846	
1,1-Dichloroethane	ND	0.85	0.846		1,3,5-Trimethylbenzene	ND	1.7	0.846	
1,2-Dichloroethane	ND	0.85	0.846		Vinyl Acetate	ND	8.5	0.846	
1,1-Dichloroethene	ND	0.85	0.846		Vinyl Chloride	ND	0.85	0.846	
c-1,2-Dichloroethene	ND	0.85	0.846		p/m-Xylene	ND	1.7	0.846	
t-1,2-Dichloroethene	ND	0.85	0.846		o-Xylene	ND	0.85	0.846	
1,2-Dichloropropane	ND	0.85	0.846		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.846	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	126	71-137			1,2-Dichloroethane-d4	142	58-160		
1,4-Bromofluorobenzene	88	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS27-10'	**08-10-2805-21-E**	**10/31/08 10:04**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 22:15**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4400	88.2		1,3-Dichloropropane	ND	88	88.2	
Benzene	110	88	88.2		2,2-Dichloropropane	ND	440	88.2	
Bromobenzene	ND	88	88.2		1,1-Dichloropropene	ND	180	88.2	
Bromochloromethane	ND	180	88.2		c-1,3-Dichloropropene	ND	88	88.2	
Bromodichloromethane	ND	88	88.2		t-1,3-Dichloropropene	ND	180	88.2	
Bromoform	ND	440	88.2		Ethylbenzene	5900	88	88.2	
Bromomethane	ND	1800	88.2		2-Hexanone	ND	1800	88.2	
2-Butanone	ND	1800	88.2		Isopropylbenzene	3500	88	88.2	
n-Butylbenzene	4300	88	88.2		p-Isopropyltoluene	ND	88	88.2	
sec-Butylbenzene	4200	88	88.2		Methylene Chloride	ND	880	88.2	
tert-Butylbenzene	ND	88	88.2		4-Methyl-2-Pentanone	ND	1800	88.2	
Carbon Disulfide	ND	880	88.2		Naphthalene	15000	880	88.2	
Carbon Tetrachloride	ND	88	88.2		n-Propylbenzene	5700	180	88.2	
Chlorobenzene	ND	88	88.2		Styrene	ND	88	88.2	
Chloroethane	ND	180	88.2		1,1,1,2-Tetrachloroethane	ND	88	88.2	
Chloroform	ND	88	88.2		1,1,2,2-Tetrachloroethane	ND	180	88.2	
Chloromethane	ND	1800	88.2		Tetrachloroethene	ND	88	88.2	
2-Chlorotoluene	ND	88	88.2		Toluene	ND	88	88.2	
4-Chlorotoluene	ND	88	88.2		1,2,3-Trichlorobenzene	ND	180	88.2	
Dibromochloromethane	ND	180	88.2		1,2,4-Trichlorobenzene	ND	180	88.2	
1,2-Dibromo-3-Chloropropane	ND	440	88.2		1,1,1-Trichloroethane	ND	88	88.2	
1,2-Dibromoethane	ND	88	88.2		1,1,2-Trichloroethane	ND	88	88.2	
Dibromomethane	ND	88	88.2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	880	88.2	
1,2-Dichlorobenzene	ND	88	88.2		Trichloroethene	ND	180	88.2	
1,3-Dichlorobenzene	ND	88	88.2		Trichlorofluoromethane	ND	880	88.2	
1,4-Dichlorobenzene	ND	88	88.2		1,2,3-Trichloropropane	ND	180	88.2	
Dichlorodifluoromethane	ND	180	88.2		1,2,4-Trimethylbenzene	ND	180	88.2	
1,1-Dichloroethane	ND	88	88.2		1,3,5-Trimethylbenzene	ND	180	88.2	
1,2-Dichloroethane	ND	88	88.2		Vinyl Acetate	ND	880	88.2	
1,1-Dichloroethene	ND	88	88.2		Vinyl Chloride	ND	88	88.2	
c-1,2-Dichloroethene	ND	88	88.2		p/m-Xylene	ND	180	88.2	
t-1,2-Dichloroethene	ND	88	88.2		o-Xylene	140	88	88.2	
1,2-Dichloropropane	ND	88	88.2		Methyl-t-Butyl Ether (MTBE)	ND	180	88.2	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	120	87-111	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-5'	**08-10-2805-25-C**	**10/31/08 11:08**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 18:19**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.865		1,3-Dichloropropane	ND	0.86	0.865	
Benzene	ND	0.86	0.865		2,2-Dichloropropane	ND	4.3	0.865	
Bromobenzene	ND	0.86	0.865		1,1-Dichloropropene	ND	1.7	0.865	
Bromochloromethane	ND	1.7	0.865		c-1,3-Dichloropropene	ND	0.86	0.865	
Bromodichloromethane	ND	0.86	0.865		t-1,3-Dichloropropene	ND	1.7	0.865	
Bromoform	ND	4.3	0.865		Ethylbenzene	ND	0.86	0.865	
Bromomethane	ND	17	0.865		2-Hexanone	ND	17	0.865	
2-Butanone	ND	17	0.865		Isopropylbenzene	ND	0.86	0.865	
n-Butylbenzene	ND	0.86	0.865		p-Isopropyltoluene	ND	0.86	0.865	
sec-Butylbenzene	ND	0.86	0.865		Methylene Chloride	ND	8.6	0.865	
tert-Butylbenzene	ND	0.86	0.865		4-Methyl-2-Pentanone	ND	17	0.865	
Carbon Disulfide	ND	8.6	0.865		Naphthalene	ND	8.6	0.865	
Carbon Tetrachloride	ND	0.86	0.865		n-Propylbenzene	ND	1.7	0.865	
Chlorobenzene	ND	0.86	0.865		Styrene	ND	0.86	0.865	
Chloroethane	ND	1.7	0.865		1,1,1,2-Tetrachloroethane	ND	0.86	0.865	
Chloroform	ND	0.86	0.865		1,1,2,2-Tetrachloroethane	ND	1.7	0.865	
Chloromethane	ND	17	0.865		Tetrachloroethene	ND	0.86	0.865	
2-Chlorotoluene	ND	0.86	0.865		Toluene	ND	0.86	0.865	
4-Chlorotoluene	ND	0.86	0.865		1,2,3-Trichlorobenzene	ND	1.7	0.865	
Dibromochloromethane	ND	1.7	0.865		1,2,4-Trichlorobenzene	ND	1.7	0.865	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.865		1,1,1-Trichloroethane	ND	0.86	0.865	
1,2-Dibromoethane	ND	0.86	0.865		1,1,2-Trichloroethane	ND	0.86	0.865	
Dibromomethane	ND	0.86	0.865		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.865	
1,2-Dichlorobenzene	ND	0.86	0.865		Trichloroethene	ND	1.7	0.865	
1,3-Dichlorobenzene	ND	0.86	0.865		Trichlorofluoromethane	ND	8.6	0.865	
1,4-Dichlorobenzene	ND	0.86	0.865		1,2,3-Trichloropropane	ND	1.7	0.865	
Dichlorodifluoromethane	ND	1.7	0.865		1,2,4-Trimethylbenzene	ND	1.7	0.865	
1,1-Dichloroethane	ND	0.86	0.865		1,3,5-Trimethylbenzene	ND	1.7	0.865	
1,2-Dichloroethane	ND	0.86	0.865		Vinyl Acetate	ND	8.6	0.865	
1,1-Dichloroethene	ND	0.86	0.865		Vinyl Chloride	ND	0.86	0.865	
c-1,2-Dichloroethene	ND	0.86	0.865		p/m-Xylene	ND	1.7	0.865	
t-1,2-Dichloroethene	ND	0.86	0.865		o-Xylene	ND	0.86	0.865	
1,2-Dichloropropane	ND	0.86	0.865		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.865	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	126	71-137			1,2-Dichloroethane-d4	141	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS25-10'	**08-10-2805-26-C**	**10/31/08 11:12**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 18:45**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.84		1,3-Dichloropropane	ND	0.84	0.84	
Benzene	ND	0.84	0.84		2,2-Dichloropropane	ND	4.2	0.84	
Bromobenzene	ND	0.84	0.84		1,1-Dichloropropene	ND	1.7	0.84	
Bromochloromethane	ND	1.7	0.84		c-1,3-Dichloropropene	ND	0.84	0.84	
Bromodichloromethane	ND	0.84	0.84		t-1,3-Dichloropropene	ND	1.7	0.84	
Bromoform	ND	4.2	0.84		Ethylbenzene	ND	0.84	0.84	
Bromomethane	ND	17	0.84		2-Hexanone	ND	17	0.84	
2-Butanone	ND	17	0.84		Isopropylbenzene	ND	0.84	0.84	
n-Butylbenzene	ND	0.84	0.84		p-Isopropyltoluene	ND	0.84	0.84	
sec-Butylbenzene	ND	0.84	0.84		Methylene Chloride	ND	8.4	0.84	
tert-Butylbenzene	ND	0.84	0.84		4-Methyl-2-Pentanone	ND	17	0.84	
Carbon Disulfide	ND	8.4	0.84		Naphthalene	ND	8.4	0.84	
Carbon Tetrachloride	ND	0.84	0.84		n-Propylbenzene	ND	1.7	0.84	
Chlorobenzene	ND	0.84	0.84		Styrene	ND	0.84	0.84	
Chloroethane	ND	1.7	0.84		1,1,1,2-Tetrachloroethane	ND	0.84	0.84	
Chloroform	ND	0.84	0.84		1,1,2,2-Tetrachloroethane	ND	1.7	0.84	
Chloromethane	ND	17	0.84		Tetrachloroethene	ND	0.84	0.84	
2-Chlorotoluene	ND	0.84	0.84		Toluene	ND	0.84	0.84	
4-Chlorotoluene	ND	0.84	0.84		1,2,3-Trichlorobenzene	ND	1.7	0.84	
Dibromochloromethane	ND	1.7	0.84		1,2,4-Trichlorobenzene	ND	1.7	0.84	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.84		1,1,1-Trichloroethane	ND	0.84	0.84	
1,2-Dibromoethane	ND	0.84	0.84		1,1,2-Trichloroethane	ND	0.84	0.84	
Dibromomethane	ND	0.84	0.84		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.84	
1,2-Dichlorobenzene	ND	0.84	0.84		Trichloroethene	ND	1.7	0.84	
1,3-Dichlorobenzene	ND	0.84	0.84		Trichlorofluoromethane	ND	8.4	0.84	
1,4-Dichlorobenzene	ND	0.84	0.84		1,2,3-Trichloropropane	ND	1.7	0.84	
Dichlorodifluoromethane	ND	1.7	0.84		1,2,4-Trimethylbenzene	ND	1.7	0.84	
1,1-Dichloroethane	ND	0.84	0.84		1,3,5-Trimethylbenzene	ND	1.7	0.84	
1,2-Dichloroethane	ND	0.84	0.84		Vinyl Acetate	ND	8.4	0.84	
1,1-Dichloroethene	ND	0.84	0.84		Vinyl Chloride	ND	0.84	0.84	
c-1,2-Dichloroethene	ND	0.84	0.84		p/m-Xylene	ND	1.7	0.84	
t-1,2-Dichloroethene	ND	0.84	0.84		o-Xylene	ND	0.84	0.84	
1,2-Dichloropropane	ND	0.84	0.84		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.84	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	126	71-137		1,2-Dichloroethane-d4	138	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-5'	**08-10-2805-30-C**	**10/31/08 11:43**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 19:12**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.836		1,3-Dichloropropane	ND	0.84	0.836	
Benzene	ND	0.84	0.836		2,2-Dichloropropane	ND	4.2	0.836	
Bromobenzene	ND	0.84	0.836		1,1-Dichloropropene	ND	1.7	0.836	
Bromochloromethane	ND	1.7	0.836		c-1,3-Dichloropropene	ND	0.84	0.836	
Bromodichloromethane	ND	0.84	0.836		t-1,3-Dichloropropene	ND	1.7	0.836	
Bromoform	ND	4.2	0.836		Ethylbenzene	ND	0.84	0.836	
Bromomethane	ND	17	0.836		2-Hexanone	ND	17	0.836	
2-Butanone	ND	17	0.836		Isopropylbenzene	ND	0.84	0.836	
n-Butylbenzene	ND	0.84	0.836		p-Isopropyltoluene	ND	0.84	0.836	
sec-Butylbenzene	ND	0.84	0.836		Methylene Chloride	ND	8.4	0.836	
tert-Butylbenzene	ND	0.84	0.836		4-Methyl-2-Pentanone	ND	17	0.836	
Carbon Disulfide	ND	8.4	0.836		Naphthalene	ND	8.4	0.836	
Carbon Tetrachloride	ND	0.84	0.836		n-Propylbenzene	ND	1.7	0.836	
Chlorobenzene	ND	0.84	0.836		Styrene	ND	0.84	0.836	
Chloroethane	ND	1.7	0.836		1,1,1,2-Tetrachloroethane	ND	0.84	0.836	
Chloroform	ND	0.84	0.836		1,1,2,2-Tetrachloroethane	ND	1.7	0.836	
Chloromethane	ND	17	0.836		Tetrachloroethene	ND	0.84	0.836	
2-Chlorotoluene	ND	0.84	0.836		Toluene	ND	0.84	0.836	
4-Chlorotoluene	ND	0.84	0.836		1,2,3-Trichlorobenzene	ND	1.7	0.836	
Dibromochloromethane	ND	1.7	0.836		1,2,4-Trichlorobenzene	ND	1.7	0.836	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.836		1,1,1-Trichloroethane	ND	0.84	0.836	
1,2-Dibromoethane	ND	0.84	0.836		1,1,2-Trichloroethane	ND	0.84	0.836	
Dibromomethane	ND	0.84	0.836		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.836	
1,2-Dichlorobenzene	ND	0.84	0.836		Trichloroethene	ND	1.7	0.836	
1,3-Dichlorobenzene	ND	0.84	0.836		Trichlorofluoromethane	ND	8.4	0.836	
1,4-Dichlorobenzene	ND	0.84	0.836		1,2,3-Trichloropropane	ND	1.7	0.836	
Dichlorodifluoromethane	ND	1.7	0.836		1,2,4-Trimethylbenzene	ND	1.7	0.836	
1,1-Dichloroethane	ND	0.84	0.836		1,3,5-Trimethylbenzene	ND	1.7	0.836	
1,2-Dichloroethane	ND	0.84	0.836		Vinyl Acetate	ND	8.4	0.836	
1,1-Dichloroethene	ND	0.84	0.836		Vinyl Chloride	ND	0.84	0.836	
c-1,2-Dichloroethene	ND	0.84	0.836		p/m-Xylene	ND	1.7	0.836	
t-1,2-Dichloroethene	ND	0.84	0.836		o-Xylene	ND	0.84	0.836	
1,2-Dichloropropane	ND	0.84	0.836		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.836	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	129	71-137			1,2-Dichloroethane-d4	145	58-160		
1,4-Bromofluorobenzene	87	66-126			Toluene-d8	102	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS24-10'	**08-10-2805-31-C**	**10/31/08 11:46**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 19:38**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.825		1,3-Dichloropropane	ND	0.82	0.825	
Benzene	ND	0.82	0.825		2,2-Dichloropropane	ND	4.1	0.825	
Bromobenzene	ND	0.82	0.825		1,1-Dichloropropene	ND	1.6	0.825	
Bromochloromethane	ND	1.6	0.825		c-1,3-Dichloropropene	ND	0.82	0.825	
Bromodichloromethane	ND	0.82	0.825		t-1,3-Dichloropropene	ND	1.6	0.825	
Bromoform	ND	4.1	0.825		Ethylbenzene	ND	0.82	0.825	
Bromomethane	ND	16	0.825		2-Hexanone	ND	16	0.825	
2-Butanone	ND	16	0.825		Isopropylbenzene	ND	0.82	0.825	
n-Butylbenzene	ND	0.82	0.825		p-Isopropyltoluene	ND	0.82	0.825	
sec-Butylbenzene	ND	0.82	0.825		Methylene Chloride	ND	8.2	0.825	
tert-Butylbenzene	ND	0.82	0.825		4-Methyl-2-Pentanone	ND	16	0.825	
Carbon Disulfide	ND	8.2	0.825		Naphthalene	ND	8.2	0.825	
Carbon Tetrachloride	ND	0.82	0.825		n-Propylbenzene	ND	1.6	0.825	
Chlorobenzene	ND	0.82	0.825		Styrene	ND	0.82	0.825	
Chloroethane	ND	1.6	0.825		1,1,1,2-Tetrachloroethane	ND	0.82	0.825	
Chloroform	ND	0.82	0.825		1,1,2,2-Tetrachloroethane	ND	1.6	0.825	
Chloromethane	ND	16	0.825		Tetrachloroethene	ND	0.82	0.825	
2-Chlorotoluene	ND	0.82	0.825		Toluene	ND	0.82	0.825	
4-Chlorotoluene	ND	0.82	0.825		1,2,3-Trichlorobenzene	ND	1.6	0.825	
Dibromochloromethane	ND	1.6	0.825		1,2,4-Trichlorobenzene	ND	1.6	0.825	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.825		1,1,1-Trichloroethane	ND	0.82	0.825	
1,2-Dibromoethane	ND	0.82	0.825		1,1,2-Trichloroethane	ND	0.82	0.825	
Dibromomethane	ND	0.82	0.825		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.825	
1,2-Dichlorobenzene	ND	0.82	0.825		Trichloroethene	ND	1.6	0.825	
1,3-Dichlorobenzene	ND	0.82	0.825		Trichlorofluoromethane	ND	8.2	0.825	
1,4-Dichlorobenzene	ND	0.82	0.825		1,2,3-Trichloropropane	ND	1.6	0.825	
Dichlorodifluoromethane	ND	1.6	0.825		1,2,4-Trimethylbenzene	ND	1.6	0.825	
1,1-Dichloroethane	ND	0.82	0.825		1,3,5-Trimethylbenzene	ND	1.6	0.825	
1,2-Dichloroethane	ND	0.82	0.825		Vinyl Acetate	ND	8.2	0.825	
1,1-Dichloroethene	ND	0.82	0.825		Vinyl Chloride	ND	0.82	0.825	
c-1,2-Dichloroethene	ND	0.82	0.825		p/m-Xylene	ND	1.6	0.825	
t-1,2-Dichloroethene	ND	0.82	0.825		o-Xylene	ND	0.82	0.825	
1,2-Dichloropropane	ND	0.82	0.825		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.825	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	128	71-137		1,2-Dichloroethane-d4	143	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	103	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-5'	**08-10-2805-34-C**	**10/31/08 11:58**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 20:04**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.825		1,3-Dichloropropane	ND	0.82	0.825	
Benzene	ND	0.82	0.825		2,2-Dichloropropane	ND	4.1	0.825	
Bromobenzene	ND	0.82	0.825		1,1-Dichloropropene	ND	1.6	0.825	
Bromochloromethane	ND	1.6	0.825		c-1,3-Dichloropropene	ND	0.82	0.825	
Bromodichloromethane	ND	0.82	0.825		t-1,3-Dichloropropene	ND	1.6	0.825	
Bromoform	ND	4.1	0.825		Ethylbenzene	ND	0.82	0.825	
Bromomethane	ND	16	0.825		2-Hexanone	ND	16	0.825	
2-Butanone	ND	16	0.825		Isopropylbenzene	ND	0.82	0.825	
n-Butylbenzene	ND	0.82	0.825		p-Isopropyltoluene	ND	0.82	0.825	
sec-Butylbenzene	ND	0.82	0.825		Methylene Chloride	ND	8.2	0.825	
tert-Butylbenzene	ND	0.82	0.825		4-Methyl-2-Pentanone	ND	16	0.825	
Carbon Disulfide	ND	8.2	0.825		Naphthalene	ND	8.2	0.825	
Carbon Tetrachloride	ND	0.82	0.825		n-Propylbenzene	ND	1.6	0.825	
Chlorobenzene	ND	0.82	0.825		Styrene	ND	0.82	0.825	
Chloroethane	ND	1.6	0.825		1,1,1,2-Tetrachloroethane	ND	0.82	0.825	
Chloroform	ND	0.82	0.825		1,1,2,2-Tetrachloroethane	ND	1.6	0.825	
Chloromethane	ND	16	0.825		Tetrachloroethene	ND	0.82	0.825	
2-Chlorotoluene	ND	0.82	0.825		Toluene	ND	0.82	0.825	
4-Chlorotoluene	ND	0.82	0.825		1,2,3-Trichlorobenzene	ND	1.6	0.825	
Dibromochloromethane	ND	1.6	0.825		1,2,4-Trichlorobenzene	ND	1.6	0.825	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.825		1,1,1-Trichloroethane	ND	0.82	0.825	
1,2-Dibromoethane	ND	0.82	0.825		1,1,2-Trichloroethane	ND	0.82	0.825	
Dibromomethane	ND	0.82	0.825		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.825	
1,2-Dichlorobenzene	ND	0.82	0.825		Trichloroethene	ND	1.6	0.825	
1,3-Dichlorobenzene	ND	0.82	0.825		Trichlorofluoromethane	ND	8.2	0.825	
1,4-Dichlorobenzene	ND	0.82	0.825		1,2,3-Trichloropropane	ND	1.6	0.825	
Dichlorodifluoromethane	ND	1.6	0.825		1,2,4-Trimethylbenzene	ND	1.6	0.825	
1,1-Dichloroethane	ND	0.82	0.825		1,3,5-Trimethylbenzene	ND	1.6	0.825	
1,2-Dichloroethane	ND	0.82	0.825		Vinyl Acetate	ND	8.2	0.825	
1,1-Dichloroethene	ND	0.82	0.825		Vinyl Chloride	ND	0.82	0.825	
c-1,2-Dichloroethene	ND	0.82	0.825		p/m-Xylene	ND	1.6	0.825	
t-1,2-Dichloroethene	ND	0.82	0.825		o-Xylene	ND	0.82	0.825	
1,2-Dichloropropane	ND	0.82	0.825		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.825	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	126	71-137		1,2-Dichloroethane-d4	141	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS26-10'	**08-10-2805-35-C**	**10/31/08 12:04**	**Solid**	**GC/MS XX**	**10/31/08**	**11/03/08 20:30**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.861		1,3-Dichloropropane	ND	0.86	0.861	
Benzene	ND	0.86	0.861		2,2-Dichloropropane	ND	4.3	0.861	
Bromobenzene	ND	0.86	0.861		1,1-Dichloropropene	ND	1.7	0.861	
Bromochloromethane	ND	1.7	0.861		c-1,3-Dichloropropene	ND	0.86	0.861	
Bromodichloromethane	ND	0.86	0.861		t-1,3-Dichloropropene	ND	1.7	0.861	
Bromoform	ND	4.3	0.861		Ethylbenzene	ND	0.86	0.861	
Bromomethane	ND	17	0.861		2-Hexanone	ND	17	0.861	
2-Butanone	ND	17	0.861		Isopropylbenzene	ND	0.86	0.861	
n-Butylbenzene	ND	0.86	0.861		p-Isopropyltoluene	ND	0.86	0.861	
sec-Butylbenzene	ND	0.86	0.861		Methylene Chloride	ND	8.6	0.861	
tert-Butylbenzene	ND	0.86	0.861		4-Methyl-2-Pentanone	ND	17	0.861	
Carbon Disulfide	ND	8.6	0.861		Naphthalene	ND	8.6	0.861	
Carbon Tetrachloride	ND	0.86	0.861		n-Propylbenzene	ND	1.7	0.861	
Chlorobenzene	ND	0.86	0.861		Styrene	ND	0.86	0.861	
Chloroethane	ND	1.7	0.861		1,1,1,2-Tetrachloroethane	ND	0.86	0.861	
Chloroform	ND	0.86	0.861		1,1,2,2-Tetrachloroethane	ND	1.7	0.861	
Chloromethane	ND	17	0.861		Tetrachloroethene	ND	0.86	0.861	
2-Chlorotoluene	ND	0.86	0.861		Toluene	1.3	0.86	0.861	
4-Chlorotoluene	ND	0.86	0.861		1,2,3-Trichlorobenzene	ND	1.7	0.861	
Dibromochloromethane	ND	1.7	0.861		1,2,4-Trichlorobenzene	ND	1.7	0.861	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.861		1,1,1-Trichloroethane	ND	0.86	0.861	
1,2-Dibromoethane	ND	0.86	0.861		1,1,2-Trichloroethane	ND	0.86	0.861	
Dibromomethane	ND	0.86	0.861		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.861	
1,2-Dichlorobenzene	ND	0.86	0.861		Trichloroethene	ND	1.7	0.861	
1,3-Dichlorobenzene	ND	0.86	0.861		Trichlorofluoromethane	ND	8.6	0.861	
1,4-Dichlorobenzene	ND	0.86	0.861		1,2,3-Trichloropropane	ND	1.7	0.861	
Dichlorodifluoromethane	ND	1.7	0.861		1,2,4-Trimethylbenzene	ND	1.7	0.861	
1,1-Dichloroethane	ND	0.86	0.861		1,3,5-Trimethylbenzene	ND	1.7	0.861	
1,2-Dichloroethane	ND	0.86	0.861		Vinyl Acetate	ND	8.6	0.861	
1,1-Dichloroethene	ND	0.86	0.861		Vinyl Chloride	ND	0.86	0.861	
c-1,2-Dichloroethene	ND	0.86	0.861		p/m-Xylene	ND	1.7	0.861	
t-1,2-Dichloroethene	ND	0.86	0.861		o-Xylene	ND	0.86	0.861	
1,2-Dichloropropane	ND	0.86	0.861		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.861	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	71-137			1,2-Dichloroethane-d4	138	58-160		
1,4-Bromofluorobenzene	86	66-126			Toluene-d8	103	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-16,963**	**N/A**	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08 13:57**	**081103L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	1.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	2.0	1	
Bromochloromethane	ND	2.0	1		c-1,3-Dichloropropene	ND	1.0	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	20	1		2-Hexanone	ND	20	1	
2-Butanone	ND	20	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	20	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	2.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chloromethane	ND	20	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Dibromochloromethane	ND	2.0	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
Dichlorodifluoromethane	ND	2.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	119	71-137			1,2-Dichloroethane-d4	124	58-160		
1,4-Bromofluorobenzene	86	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering		Date Received:	10/31/08
26691 Plaza, Suite 270		Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-16,968**	**N/A**	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08 13:30**	**081103L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	5000	100		1,3-Dichloropropane	ND	100	100	
Benzene	ND	100	100		2,2-Dichloropropane	ND	500	100	
Bromobenzene	ND	100	100		1,1-Dichloropropene	ND	200	100	
Bromochloromethane	ND	200	100		c-1,3-Dichloropropene	ND	100	100	
Bromodichloromethane	ND	100	100		t-1,3-Dichloropropene	ND	200	100	
Bromoform	ND	500	100		Ethylbenzene	ND	100	100	
Bromomethane	ND	2000	100		2-Hexanone	ND	2000	100	
2-Butanone	ND	2000	100		Isopropylbenzene	ND	100	100	
n-Butylbenzene	ND	100	100		p-Isopropyltoluene	ND	100	100	
sec-Butylbenzene	ND	100	100		Methylene Chloride	ND	1000	100	
tert-Butylbenzene	ND	100	100		4-Methyl-2-Pentanone	ND	2000	100	
Carbon Disulfide	ND	1000	100		Naphthalene	ND	1000	100	
Carbon Tetrachloride	ND	100	100		n-Propylbenzene	ND	200	100	
Chlorobenzene	ND	100	100		Styrene	ND	100	100	
Chloroethane	ND	200	100		1,1,1,2-Tetrachloroethane	ND	100	100	
Chloroform	ND	100	100		1,1,2,2-Tetrachloroethane	ND	200	100	
Chloromethane	ND	2000	100		Tetrachloroethene	ND	100	100	
2-Chlorotoluene	ND	100	100		Toluene	ND	100	100	
4-Chlorotoluene	ND	100	100		1,2,3-Trichlorobenzene	ND	200	100	
Dibromochloromethane	ND	200	100		1,2,4-Trichlorobenzene	ND	200	100	
1,2-Dibromo-3-Chloropropane	ND	500	100		1,1,1-Trichloroethane	ND	100	100	
1,2-Dibromoethane	ND	100	100		1,1,2-Trichloroethane	ND	100	100	
Dibromomethane	ND	100	100		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	100	
1,2-Dichlorobenzene	ND	100	100		Trichloroethene	ND	200	100	
1,3-Dichlorobenzene	ND	100	100		Trichlorofluoromethane	ND	1000	100	
1,4-Dichlorobenzene	ND	100	100		1,2,3-Trichloropropane	ND	200	100	
Dichlorodifluoromethane	ND	200	100		1,2,4-Trimethylbenzene	ND	200	100	
1,1-Dichloroethane	ND	100	100		1,3,5-Trimethylbenzene	ND	200	100	
1,2-Dichloroethane	ND	100	100		Vinyl Acetate	ND	1000	100	
1,1-Dichloroethene	ND	100	100		Vinyl Chloride	ND	100	100	
c-1,2-Dichloroethene	ND	100	100		p/m-Xylene	ND	200	100	
t-1,2-Dichloroethene	ND	100	100		o-Xylene	ND	100	100	
1,2-Dichloropropane	ND	100	100		Methyl-t-Butyl Ether (MTBE)	ND	200	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	71-137			1,2-Dichloroethane-d4	122	58-160		
1,4-Bromofluorobenzene	86	66-126			Toluene-d8	101	87-111		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS30-0.5'	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08**	**081103S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	72	41	75-125	17	0-20	3
Cadmium	100	100	75-125	0	0-20	
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HA5-0.5'	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08**	**081103S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	105	105	75-125	0	0-20	
Cadmium	96	98	75-125	2	0-20	
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS30-5'	**Solid**	**GC 15**	**11/03/08**	**11/03/08**	**081103S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	94	96	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS24-10'	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08**	**081103S13**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	92	92	40-106	0	0-20	
Pyrene	93	91	6-156	3	0-46	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GS25-5'	**Solid**	**GC 31**	**11/03/08**	**11/06/08**	**081103S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	90	106	50-135	16	0-20	
Aroclor-1260	130	120	50-135	8	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2828-34	**Solid**	**GC 16**	**11/03/08**	**11/05/08**	**081103S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2206	2200	50-135	0	0-20	3
Aroclor-1260	1130	1201	50-135	6	0-25	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2390-2	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08**	**081105S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	107	88-118	0	0-7	
Carbon Tetrachloride	107	108	67-145	1	0-11	
Chlorobenzene	103	103	88-118	0	0-7	
1,2-Dibromoethane	105	107	70-130	2	0-30	
1,2-Dichlorobenzene	99	102	86-116	3	0-8	
1,1-Dichloroethene	105	105	70-130	0	0-25	
Ethylbenzene	111	112	70-130	1	0-30	
Toluene	107	109	87-123	2	0-8	
Trichloroethene	101	103	79-127	2	0-10	
Vinyl Chloride	118	123	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	106	109	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	111	113	36-168	1	0-45	
Diisopropyl Ether (DIPE)	108	102	81-123	6	0-9	
Ethyl-t-Butyl Ether (ETBE)	109	109	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	114	116	72-126	1	0-12	
Ethanol	102	104	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2776-6	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08**	**081106S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	103	88-118	2	0-7	
Carbon Tetrachloride	91	92	67-145	2	0-11	
Chlorobenzene	100	104	88-118	4	0-7	
1,2-Dibromoethane	104	109	70-130	4	0-30	
1,2-Dichlorobenzene	103	107	86-116	3	0-8	
1,1-Dichloroethene	84	85	70-130	2	0-25	
Ethylbenzene	109	112	70-130	3	0-30	
Toluene	104	105	87-123	1	0-8	
Trichloroethene	101	104	79-127	3	0-10	
Vinyl Chloride	90	92	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	94	98	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	99	106	36-168	7	0-45	
Diisopropyl Ether (DIPE)	96	99	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	101	100	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	112	114	72-126	1	0-12	
Ethanol	85	96	53-149	11	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-11,698	**Solid**	**ICP 5300**	**11/03/08**	**11/05/08**	**081103L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	98	91	80-120	8	0-20	
Cadmium	107	101	80-120	6	0-20	
Lead	108	103	80-120	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3050B
Method: EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-11,699	**Solid**	**ICP 5300**	**11/05/08**	**081103-I-03**	**081103L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	24.2	97	80-120	
Cadmium	25.0	26.8	107	80-120	
Lead	25.0	26.7	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-2,277	**Solid**	**GC 15**	**11/03/08**	**11/03/08**	**081103B06**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	88	89	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-807	**Aqueous**	**GC 46**	**11/05/08**	**11/05/08**	**081105B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	77	82	75-117	6	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-243	**Solid**	**GC/MS GG**	**11/03/08**	**11/05/08**	**081103L13**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	97	97	48-108	0	0-11	
Pyrene	89	88	28-106	1	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-493	**Solid**	**GC 31**	**11/03/08**	**11/06/08**	**081103L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	106	110	50-135	4	0-20	
Aroclor-1260	112	116	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 3545
Method: EPA 8082

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-489	**Solid**	**GC 16**	**11/03/08**	**11/04/08**	**081103L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	108	110	50-135	2	0-20	
Aroclor-1260	108	120	50-135	10	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,386	**Aqueous**	**GC/MS EE**	**11/05/08**	**11/05/08**	**081105L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	109	105	84-120	78-126	4	0-8	
Carbon Tetrachloride	109	109	63-147	49-161	0	0-10	
Chlorobenzene	104	103	89-119	84-124	1	0-7	
1,2-Dibromoethane	107	106	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	105	102	89-119	84-124	3	0-9	
1,1-Dichloroethene	106	104	77-125	69-133	2	0-16	
Ethylbenzene	113	113	80-120	73-127	1	0-20	
Toluene	111	109	83-125	76-132	2	0-9	
Trichloroethene	108	106	89-119	84-124	2	0-8	
Vinyl Chloride	120	119	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	110	110	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	108	108	46-154	28-172	0	0-32	
Diisopropyl Ether (DIPE)	109	110	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	113	114	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	119	117	76-124	68-132	2	0-10	
Ethanol	102	101	60-138	47-151	0	0-32	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5030B
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,406	**Aqueous**	**GC/MS EE**	**11/06/08**	**11/06/08**	**081106L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	109	106	84-120	78-126	2	0-8	
Carbon Tetrachloride	108	107	63-147	49-161	0	0-10	
Chlorobenzene	110	108	89-119	84-124	2	0-7	
1,2-Dibromoethane	112	109	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	110	110	89-119	84-124	0	0-9	
1,1-Dichloroethene	99	101	77-125	69-133	2	0-16	
Ethylbenzene	119	117	80-120	73-127	1	0-20	
Toluene	110	109	83-125	76-132	1	0-9	
Trichloroethene	108	108	89-119	84-124	0	0-8	
Vinyl Chloride	107	106	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	105	104	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	105	103	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	111	101	81-123	74-130	9	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	106	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	114	114	76-124	68-132	1	0-10	
Ethanol	97	98	60-138	47-151	2	0-32	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5035
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-16,963	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08**	**081103L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	99	85-115	80-120	2	0-11	
Carbon Tetrachloride	112	108	68-134	57-145	4	0-14	
Chlorobenzene	102	99	83-119	77-125	2	0-9	
1,2-Dibromoethane	104	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	98	57-135	44-148	1	0-10	
1,1-Dichloroethene	105	98	72-120	64-128	7	0-10	
Ethylbenzene	106	104	80-120	73-127	2	0-20	
Toluene	102	100	67-127	57-137	2	0-10	
Trichloroethene	102	100	88-112	84-116	2	0-9	
Vinyl Chloride	105	98	57-129	45-141	7	0-16	
Methyl-t-Butyl Ether (MTBE)	110	107	76-124	68-132	3	0-12	
Tert-Butyl Alcohol (TBA)	74	67	31-145	12-164	9	0-23	
Diisopropyl Ether (DIPE)	105	102	74-128	65-137	3	0-10	
Ethyl-t-Butyl Ether (ETBE)	102	100	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	104	102	81-123	74-130	2	0-10	
Ethanol	79	67	44-152	26-170	16	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: N/A
Work Order No: 08-10-2805
Preparation: EPA 5035
Method: EPA 8260B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-16,968	**Solid**	**GC/MS XX**	**11/03/08**	**11/03/08**	**081103L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	99	85-115	80-120	2	0-11	
Carbon Tetrachloride	112	108	68-134	57-145	4	0-14	
Chlorobenzene	102	99	83-119	77-125	2	0-9	
1,2-Dibromoethane	104	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	98	57-135	44-148	1	0-10	
1,1-Dichloroethene	105	98	72-120	64-128	7	0-10	
Ethylbenzene	106	104	80-120	73-127	2	0-20	
Toluene	102	100	67-127	57-137	2	0-10	
Trichloroethene	102	100	88-112	84-116	2	0-9	
Vinyl Chloride	105	98	57-129	45-141	7	0-16	
Methyl-t-Butyl Ether (MTBE)	110	107	76-124	68-132	3	0-12	
Tert-Butyl Alcohol (TBA)	74	67	31-145	12-164	9	0-23	
Diisopropyl Ether (DIPE)	105	102	74-128	65-137	3	0-10	
Ethyl-t-Butyl Ether (ETBE)	102	100	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	104	102	81-123	74-130	2	0-10	
Ethanol	79	67	44-152	26-170	16	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2805

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Page 1 of 8

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) *	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) *	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Total Arsenic, Lead, Cadmium
1	GS30-0.5'		10/31/08	0827	Soil	1										X							X
2	GS30-5'			0835		4			X		X		X									X	
3	GS30-10'			0840		4			X		X		X										
4	GS30-1'			0830	↓	1										X							X
5	GS30-GW			0850	H_2O	5			X		X												
6	GS31-0.5'			0900	Soil	1										X							X
7	GS31-1'			0902		1										X							X
8	GS31-5'			0908		4			X		X		X									X	
9	GS31-10'			0911		4			X		X		X										
10	GS29-0.5'			0920	↓	1										X							X

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Peggy A. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
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(925) 689-9022

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Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 Plaza, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: PDLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2801
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) x'	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ___	PAH 8270 SIM	Lead, Arsenic, Cadmium
11	GS29-1'		10/31/08	0922	Soil	1										X							X
12	GS29-5'			0924		4			X		X		X										
13	GS29-10'			0927		4			X		X		X									X	
14	GS28-0.5'			0932		1										X							X
15	GS28-1'			0934		1										X							X
16	GS28-5'			0938		4			X		X		X										
17	GS28-10'			0943		4			X		X		X									X	
18	GS27-0.5'			0955		1										X							X
19	GS27-1'			0957		1			X		'					X							X
20	GS27-5'		↓	1000	↓	4			X		X		X										

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Scott Miles	Tracy A - CEL	10/31/08	14:45
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Date 10/31/08

Page 3 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD / EXCEL

SPECIAL INSTRUCTIONS: Strong TPH odor @ GS27-5', GS27-10'

Oil Droplets noted IN H_2O Sample : GS27-GW

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Arsenic, Lead, Cadmium
21	GS27-10'		10/31/08	1004	Soil	4			X		X		X									X	
22	GS27-GW			1015	H_2O	5			X		X												
23	GS25-0.5'			1103	Soil	1																	X
24	GS25-1'			1105	↓	1			X														X
25	GS25-5'			1108		4			X		X		X			X						X	
26	GS25-10'			1112	↓	4			X		X		X			X							
27	GS25-GW			1120	H_2O	5			X		X												
28	GS24-0.5'			1137	Soil	1										X							X
29	GS24-1'			1139	↓	1										X							X
30	GS24-5'		↓	1143	↓	4			X		X		X										

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Scott Miles	Greg A. - CEL	10/31/08	14:45
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Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

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LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 PLAZA, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2805
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Total Arsenic, Lead, Cadmium
31	GS24-10'		10/31/08	1146	Soil	4			X		X		X									X	
32	GS26-0.5'			1153		1										X							X
33	GS26-1'			1155		1										X							X
34	GS26-5'			1158		4			X		X		X									X	X
35	GS26-10'			1204		4			X		X		X										
36	GS26-GW			1215	H2O	5			X		X												

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Scott Miles	Preeya P - CEL	10/31/08	14:45
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CHAIN OF CUSTODY RECORD

Date 10/31/08

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LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 28691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 4701937 E-MAIL: cstolz@pacificedgeeng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th St. Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Lead TOTAL	Cadmium TOTAL	Archive
37	HA1-0.5'		10/31/08	1230	Soil	1																		X
38	HA1-1'			1231		1																		X
39	HA1-2'			1232		1																		X
40	HA2-0.5'			1234		1																		X
41	HA2-1'			1235		1																		X
42	HA2-2'			1236		1																		X
43	HA3-0.5'			1237		1																X	X	
44	HA3-1'			1238		1																X	X	
45	HA3-2'			1239		1																		X
46	HA4-0.5'			1240		1																X	X	

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Gregg A. Cox	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: Pola 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (____)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	TOTAL Lead	TOTAL Cadmium	Archive
47	HA4-1'		10/31/08	1241	Soil	1																X	X	
48	HA4-2'			1242		1																		X
49	HA5-0.5'			1244		1																X	X	
50	HA5-1'			1245		1																		X
51	HA5-2'			1246		1																		X
52	HA6-0.5'			1247		1										X						X	X	
53	HA6-1'			1248		1										X						X		
54	HA6-2'			1249		1																		X
55	HA7-0.5'			1250		1										X						X	X	
56	HA7-1'		↓	1251	↓	1										X						X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Becky A - CEL	Date: 10/31/08	Time: 14:45
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(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

PH: 949-470-1937 E-MAIL: CStolz@pacific edge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Seth Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (___)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	TOTAL Lead	TOTAL Cadmium	Archive
57	HA7-1.5'		10/31/08	1252	Soil	1																		X
58	HA8-0.5'			1254		1										X						X	X	
59	HA8-1'			1255		1										X						X		
60	HA8-2'			1256		1																		X
61	HA9-0.5'			1257		1																X		
62	HA9-1'			1258		1																X		
63	HA9-2'			1258		1																		X
64	HA10-0.5'			1259		1																X		
65	HA10-1'			1300		1																X		
66	HA10-2'			1301	↓	1																		X

Relinquished by: (Signature) Seth Miles	Received by: (Signature/Affiliation) Tracy L. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/Excel

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) *	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Total Lead	Total Cadmium	Archive
67	HA11-0.5'		10/31/08	1302	Soil	1																X		
68	HA11-1'			1303		1																		X
69	HA11-2'			1304		1																		X
70	HA11-3'			1305		1																X		
71	HA12-0.5'			1307		1																X		
72	HA12-1'			1308		1																		X
73	HA12-2'			1309		1																		X
74	HA12-3'			1310	↓	1																X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Tracy A. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C + 1.8 °C (CF) = 4.8 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** RS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AD

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C + 1.8 °C (CF) = 5.0 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Proper preservation noted on sample label(s).....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☑	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AO

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Calscience
Environmental
Laboratories, Inc.

Supplemental Report 1

November 26, 2008

Additional requested analyses are reported as a stand-alone report.

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2683**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/30/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: T22.11.5. AII
Method: EPA 6010B

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS13-5'	**08-10-2683-8-A**	**10/30/08 09:45**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:30**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	0.185	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS22-0.5'	**08-10-2683-36-A**	**10/30/08 14:30**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:32**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	16.6	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-05-006-4,355**	**N/A**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 12:54**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/30/08
Work Order No: 08-10-2683
Preparation: T22.11.5. AII
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-11-1094-3	**Solid**	**ICP 5300**	**11/20/08**	**11/25/08**	**081124SA2**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2683
Mission Viejo, CA 92691-6307	Preparation:	T22.11.5. AII
	Method:	EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-05-006-4,355	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08**	**081124LA2**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	109	109	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2683

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Virendra Patel

From: Richard Jenkins [rljenk4979@earthlink.net]
Sent: Wednesday, November 19, 2008 9:24 PM
To: Virendra Patel
Cc: 'Craig Stolz'; 'Tabb Bubier'
Subject: 7TH STREET GARAGE - SOIL SAMPLES - ANALYSIS FOR LEACHABLE LEAD

Virendra,

We would like to determine if any of the samples shown in the attached list exceed the STLC for lead. Please proceed to run the WET procedure on these. If you should have any questions, please to not hesitate to contact me. Also, feel free to contact Craig or Tabb.

Dick
P.S We are looking for normal TAT.

Richard L. Jenkins
11749 Capri Dr.
Whittier, CA
90601
562.692.4979
fax 562.692.8582

7TH STREET GARAGE SAMPLES TO ANALYZE LEACHABLE LEAD BY CALIFORNIA WET PROCEDURE

LAB NUMBER	LOCATION	TOTAL LEAD (MG/KG)
08-10-2683-8-A	GS13	261.0
08-10-2683-36-A	GS22	493.0
08-10-2805-14-A	GS28	278.0
08-10-2805-10-A	GS29	520.0
08-10-2805-1-A	GS30	369.0
08-10-2805-43-A	HA3	319.0
08-10-2805-44-A	HA3	536.0
08-10-2805-46-A	HA4	758.0
08-10-2805-47-A	HA4	302.0
08-10-2805-53-A	HA6	303.0

Revised COC
08-10-2683
Received 11/03/08

Calscience Environmental Laboratories, Inc.

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7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
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Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/30/08

Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering	CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage
ADDRESS: 26691 Plaza #270	PROJECT CONTACT: Craig Stolz
CITY: Mission Viejo STATE: CA ZIP: 92691	SAMPLER(S) (PRINT): Scott Miles
TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com	COELT LOG CODE:
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD	P.O. NO:
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL	LAB USE ONLY: 10-2683
SPECIAL INSTRUCTIONS:	COOLER RECEIPT: TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or ( )	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) ✓	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+		PAH 8270 SIM	Arsenic, Lead, Cadmium TOTAL
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	X										X								X
20	GS18-5'			1205	↓	4			X		X					X								X

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Presley R - CEL	Date: 10/30/08	Time: 16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08

Page 1 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza #270

CITY: Mission Viejo | STATE: CA | ZIP: 92691

TEL: 949 470 1937 | E-MAIL: CStolz@pacificedge-eng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT: TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44+)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) x	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	PAH 8270C SIM	TOTAL Ni, Cu, Lead, Cadmium
1	GS14-0.5'		10/30/08	0835	Soil	1										X							X
2	GS 14 - 5'			0840		1			X		X					X						X	X
3	GS 14 - 9.5'			0845		1			X		X												
4	GS12-0.5'			0907		1										X							X
5	GS17-5'			0912		1			X		X					X							X
6	GS17-10'			0915		1			X		X											X	
7	GS13-0.5'			0940		1										X						X	X
8	GS13-5'			0945		4			X		X					X						X	X
9	GS13-10'			0950	↓	4			X		X												X
10	GS13-GW		↓	1000	H2O	5			X		X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A. CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/30/08

Page 2 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 470 1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	7 OTAT Arsenic, Lead, Cadmium
11	GS15-0.5'		10/30/08	1030	Soil	1										X								X
12	GS15-5'			1035		4			X		X					X							X	X
13	GS15-10'			1040	↓	4			X		X													
14	GS15-GW			1105	H2O	5			X		X													X
15	GS16-0.5'			1125	Soil	1										X								X
16	GS16-5'			1130		4			X		X					X							X	X
17	GS16-10'			1135	↓	4			X		X													
18	GS16-GW			1145	H2O	5			X		X													
19	GS18-0.5'			1200	Soil	4										X								X
20	GS18-5'		↓	1205	↓	4			X		X					X								X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Precy A - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08

Page 3 of 5

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 PLAZA, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: PCLA - 7th Street Garage
PROJECT CONTACT: Craig Stolz
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
P.O. NO.:
LAB USE ONLY: 10-2683
COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM	Arsen i, Total Cadmium
21	GS18-10'		10/30/08	1215	Soil	4			X		X												X	
22	GS19-0.5			1250		1										X								X
23	GS19-1'			1252		1			X							X								X
24	GS19-5'			1255		4			X		X												X	
25	GS19-10'			1300		4			X		X													
26	GS19-GW			1310	H_2O	5			X		X													
27	GS20-0.5			1320	Soil	1										X								X
28	GS20-1'			1322		1										X							X	X
29	GS20-5'			1328		4			X		X													
30	GS20-10'			1340		4			X		X													

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Precy A. - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
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05/01/07 Revision

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 10/30/08

Page 4 of 5

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Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street Garage

PROJECT CONTACT: Craig Stolz

SAMPLER(S): (PRINT) Scott Miles

P.O. NO.:

LAB USE ONLY: 10-2683

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____		PAH 8270 SIM Total Arsenic, Lead, Cadmium
31	GS20-GW		10/30/08	1350	H2O	5			X		X					X							
32	GS23-0.5'			1355	Soil	1										X							X
33	GS23-1'			1357		1										X							X
34	GS23-5'			1401		4			X		X					X							
35	GS23-10'			1405		4			X		X											X	
36	GS22-0.5'			1430		1										X							X
37	GS22-1'			1433		1										X							X
38	GS22-5'			1440		4			X		X											X	
39	GS22-10'			1445		4			X		X												
40	GS23-GW			1415	H2O	5			X		X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Preeya A. CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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05/01/07 Revision

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/30/08

Page 5 of 5

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2683

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) X	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ___		PAH 8270 SIM	Total Arsenic, Lead, Cadmium
41	GS22-GW		10/30/08	1500	H2O	5			X		X												(CAM)	
42	GS22-0.5			1510	Soil	1										X								X
43	GS21-5'			1515		4			X		X					X							X	X
44	GS21-10'			1520		4			X		X													
45	GS21-GW			1530	H2O	5			X		X													

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy L - CEL	10/30/08	16:24
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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05/01/07 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-0268 3

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING

DATE: 10/30/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C + 1.8 °C (CF) = 4.1 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑4 VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☑1AGB ☐$1AGBna_2$

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: PS

Reviewed by: NC

Scanned by: PS

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING

DATE: 10 / 30 / 08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C + 1.8 °C (CF) = 4.4 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter Initial: PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐$VOANa_2$ ☐125AGB ☐125AGBh ☐$125AGBpo_4$ ☐1AGB ☐$1AGBna_2$

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐$100PBna_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: PS

Reviewed by: MC

Scanned by: PS

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2683

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID's**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☑ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

(-19) GS18-0-5' RCVD 1 CONTAINER INSTEAD OF 4. (8260 not requested)

VOA HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received

Comments: _____

Initial and Date PS 10-30-08

Calscience
Environmental
Laboratories, Inc.

Supplemental Report 1

December 01, 2008

Additional requested analyses are reported as a stand-alone report.

Craig Stolz
Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Subject: **Calscience Work Order No.: 08-10-2805**
Client Reference: POLA-7th Street Garage

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/31/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: T22.11.5. AII
Method: EPA 6010B

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS30-0.5'	**08-10-2805-1-A**	**10/31/08 08:27**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:18**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	65.9	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS29-0.5'	**08-10-2805-10-A**	**10/31/08 09:20**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:19**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	5.31	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GS28-0.5'	**08-10-2805-14-A**	**10/31/08 09:32**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:21**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	24.9	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-0.5'	**08-10-2805-43-A**	**10/31/08 12:37**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:23**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	15.5	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA3-1'	**08-10-2805-44-A**	**10/31/08 12:38**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:24**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	2.34	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-0.5'	**08-10-2805-46-A**	**10/31/08 12:40**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:26**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	26.8	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: T22.11.5. AII
Method: EPA 6010B

Project: POLA-7th Street Garage

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA4-1'	**08-10-2805-47-A**	**10/31/08 12:41**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:27**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	40.7	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HA6-1'	**08-10-2805-53-A**	**10/31/08 12:48**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 14:29**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	75.1	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-05-006-4,355**	**N/A**	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08 12:54**	**081124LA2**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Pacific Edge Engineering
26691 Plaza, Suite 270
Mission Viejo, CA 92691-6307

Date Received: 10/31/08
Work Order No: 08-10-2805
Preparation: T22.11.5. AII
Method: EPA 6010B

Project POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-11-1094-3	**Solid**	**ICP 5300**	**11/20/08**	**11/25/08**	**081124SA2**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Pacific Edge Engineering	Date Received:	N/A
26691 Plaza, Suite 270	Work Order No:	08-10-2805
Mission Viejo, CA 92691-6307	Preparation:	T22.11.5. AII
	Method:	EPA 6010B

Project: POLA-7th Street Garage

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-05-006-4,355	**Solid**	**ICP 5300**	**11/20/08**	**11/24/08**	**081124LA2**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	109	109	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-10-2805

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Virendra Patel

From: Richard Jenkins [rljenk4979@earthlink.net]
Sent: Wednesday, November 19, 2008 9:24 PM
To: Virendra Patel
Cc: 'Craig Stolz'; 'Tabb Bubier'
Subject: 7TH STREET GARAGE - SOIL SAMPLES - ANALYSIS FOR LEACHABLE LEAD

Virendra,

We would like to determine if any of the samples shown in the attached list exceed the STLC for lead. Please proceed to run the WET procedure on these. If you should have any questions, please to not hesitate to contact me. Also, feel free to contact Craig or Tabb.

Dick
P.S We are looking for normal TAT.

Richard L. Jenkins
11749 Capri Dr.
Whittier, CA
90601
562.692.4979
fax 562.692.8582

7TH STREET GARAGE SAMPLES TO ANALYZE LEACHABLE LEAD BY CALIFORNIA WET PROCEDURE

LAB NUMBER	LOCATION	TOTAL LEAD (MG/KG)
08-10-2683-8-A	GS13	261.0
08-10-2683-36-A	GS22	493.0
08-10-2805-14-A	GS28	278.0
08-10-2805-10-A	GS29	520.0
08-10-2805-1-A	GS30	369.0
08-10-2805-43-A	HA3	319.0
08-10-2805-44-A	HA3	536.0
08-10-2805-46-A	HA4	758.0
08-10-2805-47-A	HA4	302.0
08-10-2805-53-A	HA6	303.0

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CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 1 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: (949) 470-1937 E-MAIL: CStolz@pacificedge-eng.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: POLA - 7th street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) *	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) X	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	TOTAL Arsenic, Lead, Cadmium
1	GS30-0.5'		10/31/08	0827	Soil	1										X							X
2	GS30-5'			0835		4			X		X		X									X	
3	GS30-10'			0840		4			X		X		X										
4	GS30-1'			0830	↓	1										X							X
5	GS30-GW			0850	H2O	5			X		X												
6	GS31-0.5'			0900	Soil	1										X							X
7	GS31-1'			0902		1										X							X
8	GS31-5'			0908		4			X		X		X									X	
9	GS31-10'			0911		4			X		X		X										
10	GS29-0.5'			0920	↓	1										X							X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A. CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 76691 Plaza, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: PDLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2801
SAMPLER(S): (PRINT) Scott MILES
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B) x'	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Lead, Arsenic, Cadmium
11	GS29-1'		10/31/08	0922	Soil	1										X							X
12	GS29-5'			0924		4			X		X		X										
13	GS29-10'			0927		4			X		X		X									X	
14	GS28-0.5'			0932		1										X							X
15	GS28-1'			0934		1										X							X
16	GS28-5'			0938		4			X		X		X										
17	GS28-10'			0943		4			X		X		X									X	
18	GS27-0.5'			0955		1										X							X
19	GS27-1'			0957		1			X		'					X							X
20	GS27-5'		↓	1000	↓	4			X		X		X										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Tracy A - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 10/31/08

Page 3 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD / EXCEL

SPECIAL INSTRUCTIONS: Strong TPH odor @ GS27-5', GS27-10'

Oil Droplets noted IN H_2O Sample : GS27-GW

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (___)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+___	PAH 8270 SIM	Arsenic, Lead, Cadmium
21	GS27-10'		10/31/08	1004	Soil	4			X		X		X			X						X	
22	GS27-GW			1015	H_2O	5			X		X												
23	GS25-0.5'			1103	Soil	1																	X
24	GS25-1'			1105	↓	1			X														X
25	GS25-5'			1108		4			X		X		X			X						X	
26	GS25-10'			1112	↓	4			X		X		X			X							
27	GS25-GW			1120	H_2O	5			X		X												
28	GS24-0.5'			1137	Soil	1										X							X
29	GS24-1'			1139	↓	1										X							X
30	GS24-5'		↓	1143	↓	4			X		X		X										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Scott Miles	Greg A. - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Date 10/31/08

Page 4 of 8

LABORATORY CLIENT: Pacific Edge Engineering
ADDRESS: 26691 PLAZA, Suite 270
CITY: Mission Viejo STATE: CA ZIP: 92691
TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE
P.O. NO.:
PROJECT CONTACT: Craig Stolz
LAB USE ONLY: 10-2805
SAMPLER(S): (PRINT) Scott Miles
COELT LOG CODE:
COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (C7-C44)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	PAH 8270 SIM	Total Arsenic, Lead, Cadmium
31	GS24-10'		10/31/08	1146	Soil	4			X		X		X									X	
32	GS26-0.5'			1153		1										X							X
33	GS26-1'			1155		1										X							X
34	GS26-5'			1158		4			X		X		X									X	X
35	GS26-10'			1204		4			X		X		X										
36	GS26-GW			1215	H2O	5			X		X												

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Scott Miles	Preeya P - CEL	10/31/08	14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 5 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 28691 Plaza #270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949 4701937 E-MAIL: cstolz@pacificedgeeng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th St. Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) x	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Lead TOTAL	Cadmium TOTAL	Archive
37	HA1-0.5'		10/31/08	1230	Soil	1																		X
38	HA1-1'			1231		1																		X
39	HA1-2'			1232		1																		X
40	HA2-0.5'			1234		1																		X
41	HA2-1'			1235		1																		X
42	HA2-2'			1236		1																		X
43	HA3-0.5'			1237		1																X	X	
44	HA3-1'			1238		1																X	X	
45	HA3-2'			1239		1																		X
46	HA4-0.5'			1240		1																X	X	

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Gregg A. Cox	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (____)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+____	TOTAL Lead	TTLC Cadmium	Archive
47	HA4-1'		10/31/08	1241	Soil	1																X	X	
48	HA4-2'			1242		1																		X
49	HA5-0.5'			1244		1																X	X	
50	HA5-1'			1245		1																		X
51	HA5-2'			1246		1																		X
52	HA6-0.5'			1247		1										X						X	X	
53	HA6-1'			1248		1										X						X		
54	HA6-2'			1249		1																		X
55	HA7-0.5'			1250		1										X						X	X	
56	HA7-1'		↓	1251	↓	1										X						X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Becky A - CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 PLAZA, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

PH: 949-470-1937 E-MAIL: CStolz@pacific edge-eng.com

CLIENT PROJECT NAME / NUMBER: PSLA - 7th Street Garage

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Seth Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/EXCEL

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	TOTAL Lead	TOTAL Cadmium	Archive
57	HA7-1.5'		10/31/08	1252	Soil	1																		X
58	HA8-0.5'			1254		1										X						X	X	
59	HA8-1'			1255		1										X						X		
60	HA8-2'			1256		1																		X
61	HA9-0.5'			1257		1																X		
62	HA9-1'			1258		1																X		
63	HA9-2'			1258		1																		X
64	HA10-0.5'			1259		1																X		
65	HA10-1'			1300		1																X		
66	HA10-2'			1301		1																		X

Relinquished by: (Signature) Seth Miles	Received by: (Signature/Affiliation) Tracy L. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Date 10/31/08

Page 8 of 8

LABORATORY CLIENT: Pacific Edge Engineering

ADDRESS: 26691 Plaza, Suite 270

CITY: Mission Viejo STATE: CA ZIP: 92691

TEL: 949-470-1937 E-MAIL: CStolz@pacificedge-eng.com

CLIENT PROJECT NAME / NUMBER: POLA - 7th Street GARAGE

P.O. NO.:

PROJECT CONTACT: Craig Stolz

LAB USE ONLY: 10-2805

SAMPLER(S): (PRINT) Scott Miles

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ EDD/Excel

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082) *	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Total Lead	Total Cadmium	Archive
67	HA11-0.5'		10/31/08	1302	Soil	1																X		
68	HA11-1'			1303		1																		X
69	HA11-2'			1304		1																		X
70	HA11-3'			1305		1																X		
71	HA12-0.5'			1307		1																X		
72	HA12-1'			1308		1																		X
73	HA12-2'			1309		1																		X
74	HA12-3'			1310	↓	1																X		

Relinquished by: (Signature) Scott Miles	Received by: (Signature/Affiliation) Tracy A. CEL	Date: 10/31/08	Time: 14:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C + **1.8 °C** (CF) = 4.8 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** RS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Proper preservation noted on sample label(s)	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2

☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB

☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AV

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-10-2805

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: PACIFIC EDGE ENGINEERING DATE: 10/31/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C + 1.8 °C (CF) = 5.0 °C ☐Blank ☑Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐Air ☐Filter **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** PS
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present	**Initial:** RN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Proper preservation noted on sample label(s).....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☑	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve ☑EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: RN

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: AO

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: RN

Appendix E

LABORATORY REPORTS FOR SOIL GAS

(949) 470-1937; (949) 470-0943 (FAX)

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	10/31/08 & 11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

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ANALYSES REQUESTED

1. EPA8260 - Volatile Organics by GC/MS
2. EPA 8015M - Methane

Approval: _____

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.
Testing Laboratories
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(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS13	GS15	GS16	GS17	GS21	**Practical Quantitation Limits**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS13	GS15	GS16	GS17	GS21	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS13	GS15	GS16	GS17	GS21	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	106%	108%	107%	108%	106%	60 - 140	
Toluene-d_8	105%	104%	104%	105%	104%	60 - 140	
4-Bromofluorobenzene	105%	106%	110%	104%	104%	60 - 140	

ND = Not Detected
@ = Estimated Concentration

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS25	GS26	GS27	**Practical Quantitation Limits**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	**0.155**	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS25	GS26	GS27	**Practical Quantitation Limits**	**Units**
Analytes:					
cis-1,2-Dichloroethene	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	**1.64**	0.020	ug/L
Freon 113	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	**0.783**	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	**0.589**	0.020	ug/L
Styrene	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethene	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethene	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	ND	ND	ND	0.020	ug/L
Toluene	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA8260 - Volatile Organics by GC/MS

Sample ID:	GS25	GS26	GS27	**Practical Quantitation Limits**	**Units**
Analytes:					
Trichlorofluoromethane	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	**0.783**	0.020	ug/L
Vinyl chloride	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1		
Surrogate Recovery :				**QC Limits**	
Dibromofluoromethane	106%	110%	93%	60 - 140	
Toluene-d_8	103%	101%	94%	60 - 140	
4-Bromofluorobenzene	109%	102%	--♦	60 - 140	

ND = Not Detected
♦ = High Hydrocarbon concentration in this sample prevented adequate surrogate recovery

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	11/03/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

---

EPA8260 - Volatile Organics by GC/MS

Sample Spiked: AMBIENT AIR

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
1,1-Dichloroethylene	103%	100%	2.1%	60 - 140
Benzene	116%	125%	7.8%	60 - 140
Trichloroethylene	123%	116%	5.6%	60 - 140
Toluene	106%	104%	2.6%	60 - 140
Chlorobenzene	108%	102%	6.0%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Pacific Edge Engineering, Inc.	**Report Date:**	11/04/08
Client Address:	26691 Plaza, Suite 270 Mission Viejo, CA 92691	**JEL Ref. No.:**	ST-4571
Attn:	Craig Stolz	**Date Sampled:**	10/31/08
		Date Received:	10/31/08
Project:	POLA 7TH STREET GARAGE	**Date Analyzed:**	10/31/08
Project Address:	1510 E. I Street, Wilmington, CA	**Physical State:**	Soil Gas

EPA 8015M - Methane

Sample ID	GS13	GS15	GS16	GS17	GS21	Dilution factor	Practical Quantitation Limits	Reporting Limits	UNITS
Methane	ND	ND	**10.8**	ND	ND	1	10	10	ppm

Sample ID	GS25	GS26	GS27	Dilution factor	Practical Quantitation Limits	Reporting Limits	UNITS
Methane	**13.5**	ND	**7,580**	1	10	10	ppm

ND = Not Detected

QUALITY CONTROL INFORMATION

EPA 8015M - Methane

Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)
Methane	109%	109%	0.0%	70-130

Method Blank = Not Detected

LCS = Lab Control Sample
LCSD = Lab Control Sample Duplicate
RPD = Relative Percent Difference

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Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: Pacific Edge Engineering
Project Name: POLA - 7th Street GARAGE
Project Address: 1510 East I Street, Wilmington, CA
Project Contact: Craig Stolz

Date: 10/31/08
Client Project #: POLA - 7th Street GARAGE

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: IPA
Purge Rate: _____ cc/min

JEL Project #: STV571
Page 1 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: Methane	Analysis Requested: VOCs 8260B	Number of Containers	Remarks/Special Instructions
GS13		Tedlar	10/31/08	0906		SG	X			
GS13	3+	TO-CAN		0907-0916		SG		X		
GS15		Tedlar		0955		SG	X			
GS15	3+	TO-CAN		0957-1007		SG		X		
GS16		Tedlar		1057		SG	X			
GS16	3+	TO-CAN		1058-1035		SG		X		Unable to get 0 PSI
GS17		Tedlar		1113		SG	X			
GS17	3+	TO-CAN		1113-1128		SG		X		
GS21		Tedlar		1147		SG	X			
GS21	3+	TO-CAN		1148-1220				X		

❶ Relinquished by (signature): Craig Stolz	Date: 10/31/08	❷ Received by (signature): Karen Burns	Date: 10/31/08	Total Number of Containers
Company	Time	Company: JEL	Time: 1500	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	
Company	Time	Company	Time	

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES ENVIRONMENTAL
TESTING LABORATORIES

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(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: Pacific Edge Engineering
Date: 10/31/08
Project Name: PBLA- 7th Street GARAGE
Client Project #: PBLA-7th Street GARAGE
Project Address: 1510 East I Street, Wilmington, CA
Project Contact: Craig Stolz

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: IPA
Purge Rate: _____ cc/min

JEL Project #: ST4571
Page 2 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Analysis Requested

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Methane	VOCs 8260B				Number of Containers	Remarks/Special Instructions
GS25		Tedlar	10/31/08	1231			X						
GS25		TO-CAN		1232-1245				X					
GS26		Tedlar		1330			X						
GS26		TO-CAN		1331-1400				X					
GS27		Tedlar		1247			X						
GS27		TO-CAN		1248-1315				X					

❶ Relinquished by (signature): Craig Stolz	Date: 10/31/08	❷ Received by (signature): Karen Brune	Date: 10/31/08		**Total Number of Containers**
Company	Time	Company: JEL	Time: 1500		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date		
Company	Time	Company	Time		

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES ENVIRONMENTAL, INC.

PO BOX 5387
FULLERTON, CA 92838
714-449-9937 FAX # 714-449-9685

Invoice

Date	Invoice #
11/3/2008	ST4571

Bill To
PACIFIC EDGE ENVIRONMENTAL, INC. 26691 Plaza, Suite 270 Mission Viejo, CA 92691 Attn: Greg Dickinson

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
	POLA 7TH STREET GARAGE - 1510 E. I STREET, WILMINGTON, CA (10/31/08)		
8	EPA 8260B + OXYGENATES	100.00	800.00
8	EPA 8015M - Methane	75.00	600.00
8	RENTAL - SUMMAS/REGULATORS	75.00	600.00
10	TEDLAR BAGS	10.00	100.00

Thank you for your business.

Total $2,100.00

Appendix B
SCAQMD RULE 403, 1166, AND 1466

PACIFIC EDGE ENGINEERING
(949) 470-1937; (949) 470-0943 (FAX)

(Adopted May 7, 1976) (Amended November 6, 1992)
(Amended July 9, 1993) (Amended February 14, 1997)
(Amended December 11, 1998)(Amended April 2, 2004)
(Amended June 3, 2005)

RULE 403. FUGITIVE DUST

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

(1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.

(2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.

(3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.

(4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.

(5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

(6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

(7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.

(8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

(9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.

(10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.

(11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.

(12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.

(13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

(14) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:

(A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;

(B) been paved or otherwise covered by a permanent structure; or

(C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

(15) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

(16) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.

(17) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.

(18) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.

(19) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.

(20) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.

(21) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

meters (5,000 cubic yards) or more three times during the most recent 365-day period.

(22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.

(23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.

(24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.

(25) PM_{10} means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.

(26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.

(27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.

(28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.

(29) SIMULTANEOUS SAMPLING means the operation of two PM_{10} samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.

(30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

(31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.

(32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.

(34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.

(35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.

(37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.

(d) Requirements

(1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

(A) the dust remains visible in the atmosphere beyond the property line of the emission source; or

(B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.

(2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.

(3) No person shall cause or allow PM_{10} levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM_{10} monitoring. If sampling is conducted, samplers shall be:

(A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM_{10}.

(B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.

(4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.

(5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.

(A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

(B) Pave the surface extending at least 100 feet and at least 20 feet wide.

(C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).

(6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.

(e) Additional Requirements for Large Operations

(1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:

(A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;

(B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;

(C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

(D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;

(E) identify a dust control supervisor that:

(i) is employed by or contracted with the property owner or developer;

(ii) is on the site or available on-site within 30 minutes during working hours;

(iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;

(iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and

(F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).

(2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

(f) Compliance Schedule

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

(A) Dairy farms.

(B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.

(C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.

(D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.

(G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.

(H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.

(I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.

(J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:

(i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and

(ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.

(K) sandblasting operations.

(2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:

(A) When wind gusts exceed 25 miles per hour, provided that:

(i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;

(ii) records are maintained in accordance with subparagraph (e)(1)(C).

(B) To unpaved roads, provided such roads:

(i) are used solely for the maintenance of wind-generating equipment; or

(ii) are unpaved public alleys as defined in Rule 1186; or

(iii) are service roads that meet all of the following criteria:

(a) are less than 50 feet in width at all points along the road;

(b) are within 25 feet of the property line; and

(c) have a traffic volume less than 20 vehicle-trips per day.

(C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.

(3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.

(4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:

(A) Blasting operations which have been permitted by the California Division of Industrial Safety; and

(B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.

(5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

(6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.

(7) The provisions of subdivision (e) shall not apply to:

(A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.

(B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.

(C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.

(8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM_{10} pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to reduce visible dust plumes
Landscaping	10-1 Stabilize soils, materials, slopes	✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	✓ Dedicate water truck or high capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

Table 2
DUST CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Earth-moving (except construction cutting and filling areas, and mining operations)	(1a)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR
	(1a-1)	For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.
Earth-moving: Construction fill areas:	(1b)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Earth-moving: Construction cut areas and mining operations:	(1c)	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	(2a/b)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c)	Apply chemical stabilizers within five working days of grading completion; OR
	(2d)	Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	(3a)	Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR
	(3b)	Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR
	(3c)	Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR
	(3d)	Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Unpaved Roads	(4a)	Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR
	(4b)	Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR
	(4c)	Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	(5a)	Apply chemical stabilizers; OR
	(5b)	Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR
	(5c)	Install temporary coverings; OR
	(5d)	Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
All Categories	(6a)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

TABLE 3
CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY	CONTROL MEASURES
Earth-moving	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
Open storage piles	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
Paved road track-out	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

Table 4
(Conservation Management Practices for Confined Animal Facilities)

SOURCE CATEGORY	CONSERVATION MANAGEMENT PRACTICES
Manure Handling **(Only applicable to Commercial Poultry Ranches)**	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
Feedstock Handling	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
Disturbed Surfaces	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
Unpaved Roads	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
Equipment Parking Areas	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).

(Adopted August 5, 1988)(Amended July 14, 1995)(Amended May 11, 2001)

RULE 1166. VOLATILE ORGANIC COMPOUND EMISSIONS FROM DECONTAMINATION OF SOIL

(a) Applicability

This rule sets requirements to control the emission of Volatile Organic Compounds (VOC) from excavating, grading, handling and treating VOC-contaminated soil as a result of leakage from storage or transfer operations, accidental spillage, or other deposition.

(b) Definitions

(1) EXCAVATION is the process of digging out and removing materials, including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.

(2) GRADING is the process of leveling off to produce a smooth surface including the removal of any material necessary to that process such as asphalt and concrete necessary to expose known VOC contaminated soil.

(3) SOIL DECONTAMINATION MEASURE is any process approved by the Executive Officer to remediate, destroy, remove, or encapsulate VOC and VOC-contaminated soil.

(4) UNDERGROUND STORAGE TANK means any one or combination of tanks, including pipes connected thereto, which is used for the storage of organic liquid which is more than 50% beneath the surface of the ground.

(5) VOC CONTAMINATED SOIL is a soil which registers a concentration of 50 ppm or greater of Volatile Organic Compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.

(6) VOC CONTAMINATED SOIL MITIGATION PLAN is a plan to minimize VOC emissions to the atmosphere during excavation and any subsequent handling of VOC-contaminated soil.

(7) VOLATILE ORGANIC COMPOUND (VOC) is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds are defined in Rule 102—Definition Of Terms.

(8) VOLATILE ORGANIC MATERIALS include gasoline, diesel, crude oil, lubricant, waste oil, adhesive, paint, stain, solvent, resin, monomer, and/or any other material containing VOC.

(c) Requirements

(1) A person excavating an underground storage tank and/or transfer piping storing or previously storing VOC materials, or excavating or grading soil containing VOC materials shall:

(A) Apply for, obtain and operate pursuant to a mitigation plan approved by the Executive Officer prior to commencement of excavation or handling. The mitigation plan general requirement and application requirements are found in Attachment A to this rule. A copy of the approved plan must be on site during the entire excavation period.

(B) Notify the Executive Officer at least 24 hours prior to excavation using a form approved by the Executive Officer which is fully completed.

If the excavation does not commence on start date, renotification is required.

An alternative notification procedure may be authorized for multiple excavations within a single facility, with prior written approval from the Executive Officer.

(C) Monitor for VOC contamination pursuant to subdivision (e), at least once every 15 minutes commencing at the beginning of excavation or grading and record all VOC concentration readings in a format approved by the Executive Officer; and

(D) When VOC-contaminated soil is detected during excavation or grading:

(i) Implement the approved mitigation plan (Attachment A).

(ii) Notify the Executive Officer within 24 hours of detection of VOC-contaminated soil.

(iii) Monitor and record VOC concentration readings as prescribed in the plan. Monitoring records must be kept available on site.

(iv) Keep calibration records for all monitoring instruments available on site.

(2) A person handling VOC-contaminated soil at or from an excavation or grading site shall:

(A) Segregate VOC-contaminated stockpiles from non-VOC contaminated stockpiles such that mixing of the stockpiles does not take place.

(B) Spray VOC-contaminated soil stockpiles with water and/or approved vapor suppressant and cover them with plastic sheeting for all periods of inactivity lasting more than one hour.

(C) Conduct a daily visual inspection of all covered VOC contaminated soil stockpiles to ensure the integrity of the plastic covered surfaces. A daily inspection record must be maintained on site.

(D) Comply with the provisions in subparagraph (c) (1)(A) and clause (c)(1)(D)(i).

(E) Maintain a record of the identification and business addresses of the generator, transporter and storage/treatment facilities. Such record shall be signed by each party at the time custody is transferred.

(F) Treat or remove contaminated soil from an excavation or grading site within 30 days from the time of excavation.

(3) If the VOC concentration in the excavated soil is measured at greater than 1000 ppm, spray the soil with water or vapor suppressant and:

(A) As soon as possible, but not more than 15 minutes, place the soil in sealed containers, or

(B) As soon as possible, but not more than 15 minutes, load into trucks, moisten with additional water, cover and transport off site, or

(C) Implement other alternative storage methods approved in writing by the Executive Officer.

(4) A person treating VOC-contaminated soil shall:

(A) Obtain a permit to construct and operate treatment equipment, as applicable, from the Executive Officer, and

(B) Implement VOC-contaminated soil decontamination measures, as approved by the Executive Officer in writing, which result in Best Available Control Technology applied during all segments, and which include, but are not limited to, at least one of the following:

(i) Installation and operation of an underground VOC collection system and a disposal system prior to excavation.

(ii) Collection and disposal of the VOC from the excavated soil on-site using equipment approved by the Executive Officer.

(iii) Any equivalent VOC-contaminated soil control measure previously approved in writing by the Executive Officer.

(5) A person shall not engage in or allow any on-site or off-site spreading, grading or screening of VOC-contaminated soil, which results in uncontrolled evaporation of VOC to the atmosphere.

(6) Loading trucks for contaminated soil must meet the following:

(A) The truck and trailer shall be adequately tarped prior to leaving the site; no excavated materials shall extend above the sides or rear of the truck or trailer to prevent soil spillage during transport, and

(B) The exterior of the truck, trailer and tires shall be cleaned off prior to the truck leaving the site.

(d) Exemptions

(1) The provisions of this rule shall not apply to the following:

(A) Excavation, handling, and treating of less than one (1) cubic yard of contaminated soil.

(B) Removal of soil for sampling purposes.

(C) Accidental spillage of five (5) gallons or less of VOC containing material.

(2) The provisions of paragraphs (c)(1) and (c)(2) shall not apply to soil excavation or handling as a result of an emergency as declared by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer. Whenever possible, the Executive Officer shall be notified by telephone prior to commencing such excavation. The Executive Officer shall be notified in writing no later than 48 hours following such excavation. Written notification shall include written emergency declaration from the authorized officer.

(e) Test Methods

(1) A person shall measure excavated soils for volatile organic compounds to determine contamination by:

(A) Using an organic vapor analyzer calibrated with hexane, complying with 40 CFR Part 60 Appendix A, EPA Reference Method 21 Section 3 or any equivalent method with prior approval in writing by the Executive Officer. If other calibrating gases are used, then the measured readings shall be correlated to and expressed as hexane.

(B) Placing the probe inlet at a distance of no more than three inches from the surface of the excavated soil and while slowly moving the probe across the soil surface, observe the instrument readout. If an increased meter reading is observed, continue to sample the excavated soil until the maximum meter reading is obtained. Leave the probe inlet at this maximum reading location for approximately double the instrument response time. If the maximum observed meter reading is greater than the 50 ppm standard in the regulation, record and report the results.

(2) The presence of VOC in stored or spillage materials shall be determined by SCAQMD Method 313 [Determination of Presence of Volatile Organic Compounds (VOC) in Headspace] and/or Method 304 (Determination of Volatile Organic Compounds in Various Materials) contained in the SCAQMD "Laboratory Methods of Analysis for Enforcement Samples" manual.

(f) Enforcement

(1) Violation of any provision of this rule or the violation of the approved mitigation plan shall be grounds for the Executive Officer to amend or revoke the mitigation plan, in addition to penalties provided by the Health & Safety Code.

(2) If the owner or operator is served with a Notice of Violation for creating a public nuisance, the owner or operator shall suspend operation until the public nuisance is mitigated to the satisfaction of the Executive Officer.

ATTACHMENT A
GENERAL MITIGATION PLANS REQUIREMENTS

VOC Contaminated Soil Mitigation Plans shall be written to minimize VOC emissions to the atmosphere during excavation, grading, handling and treatment of VOC contaminated soil. VOC Contaminated Soil Mitigation Plans shall consist of three types: Various Locations, Site Specific and Facility Treatment.

(1) General Requirements

(A) A plan is not transferable.

(B) A person responsible for the excavation, grading or handling of VOC contaminated soil must be completely familiar with the plan and must adhere to the plan requirement. The Executive Officer may require that the plan be signed by the owner and/or operator.

(C) A plan may be amended upon renewal.

(D) Permission to excavate, grade or handle VOC contaminated soil may be withdrawn by the District upon a finding by the Executive Officer that the excavation, grading or handling of the VOC contaminated soil is causing a public nuisance or violating other AQMD rules or regulations.

(2) Various Location Plans:

(A) Shall be limited to the excavation of 2000 cubic yards or less of VOC contaminated soil in any consecutive 12 month period at the same site.

(B) Shall not be used in conjunction with any other various location plan at the same site within a consecutive 12-month period.

(C) Shall expire after one year from issuance unless renewed.

(D) Shall not be issued for nor used for operations that involve grading, soil treatment or remediation, or landfills.

(3) Site Specific Plans:

(A) Shall be for excavation of greater than 2000 cubic yards of VOC contaminated soil.

(B) Shall be issued for specific excavation or grading locations for a period not to exceed two years.

(C) Shall not be renewable.

(4) Facility Treatment Plans:

(A) Shall be issued for a treatment facility at a permanent location.

(B) Shall expire after one year from issuance unless renewed.

(5) Applications for Site Specific Plans shall contain as a minimum:

(A) Reasons for excavation or grading.

(B) Cause of VOC soil contamination and history of the site.

(C) Description of tanks or piping associated with the soil contamination.

(D) An estimate of the amount of contaminated soil.

(E) The operating schedule for excavation and removal.

(F) Description of how the excavation or grading will be conducted.

(G) Description of mitigation measures for dust, odors and VOC.

(H) Details of disposal of VOC contaminated soil, including the ultimate receptor.

(I) Description of monitoring equipment and techniques.

(J) A map showing the facility layout, property line, and surrounding area up to 2500 feet away, and including any schools, residential areas or other sensitive receptors such as hospitals or locations where children or elderly people live or work.

(K) Designation of a person who can conduct a site inspection with the Executive Officer prior to issuance of the plan.

(6) Applications for Facility Treatment Plans shall at a minimum:

(A) Include a list of all AQMD permits to construct or operate which have been issued for that treatment and control equipment.

(B) Provide for the implementation of VOC-contaminated soil decontamination measures, as approved by the Executive Officer in writing, which result in Best Available Control Technology during all operations.

(C) Provide a map showing the facility layout including the location of all proposed VOC and non-VOC contaminated soil stockpiles.

(D) Specify the total amount of VOC contaminated soil proposed to be stockpiled on site.

(E) Provide for VOC contaminated soil stockpiles to be kept moist with water or suppressant and be covered to prevent fugitive emissions.

(F) Provide for VOC contaminated soil stockpiles to be segregated from non-VOC contaminated soil stockpiles.

(G) Provide for maintenance of records for stockpiles according to the source name, address and dates of reception.

(H) Provide for records of the generator, transporter and storage/treatment facilities and indicate their identification and business addresses. Such records shall be signed by each party at the time custody is transferred.

(I) Provide a map showing the facility layout, property line, and surrounding area up to 2500 feet away, and including any schools, residential area or other sensitive receptors such as hospitals, or locations where children or elderly people live or work.

(J) Designation of a person who can conduct a site inspection with the Executive Officer prior to issuance of the plan.

(K) Specify the operating schedule and maximum amount of VOC-contaminated soil proposed to be remediated on a daily basis.

(7) In approving a plan, the Executive Officer require reasonable conditions deemed necessary to ensure the operations comply with the plan and AQMD rules. The conditions may include, but shall not be limited to, procedures for ensuring responsibility for the implementation of the plan, accessibility to the site for AQMD staff, notification of actions required by the plan, identification of emission receptors, monitoring and testing, suppression and covering of stockpiles, prevention of public nuisance from VOC or dust emissions, prevention of fugitive emissions of VOC contaminated soil, loading of truck trailers, and disposal and treatment.

(8) In approving a plan, the Executive Officer may require any records deemed necessary to be maintained by the operator to demonstrate compliance with the plan. Such records shall be retained for at least 2 years and be made available to the Executive officer upon request.

(Adopted July 7, 2017)(Amended December 1, 2017)(Amended June 4, 2021)

RULE 1466. CONTROL OF PARTICULATE EMISSIONS FROM SOILS WITH TOXIC AIR CONTAMINANTS

(a) Purpose

The purpose of this rule is to minimize the amount of off-site fugitive dust emissions containing toxic air contaminants by reducing particulate emissions in the ambient air as a result of earth-moving activities, including, dredging, excavating, grading, earth-cutting and filling, loading, unloading, handling, mechanized land clearing, treating, stockpiling, transferring, and removing of soil that contains applicable toxic air contaminants, from sites that meet the applicability requirements of subdivision (b).

(b) Applicability

(1) This rule shall apply to any owner or operator conducting earth-moving activities of soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16) that have been identified as contaminant(s) of concern at a site that has been designated and notified by:

(A) The U.S. Environmental Protection Agency (U.S. EPA) as a Superfund National Priorities List site;

(B) The California Department of Toxic Substances Control (DTSC) as a Brownfield or Cleanup Program site;

(C) The State Water Resources Control Board (State Water Board) or Regional Water Quality Control Board (Regional Water Board) as a Site Cleanup Program site;

(D) A county, local, or state regulatory agency as a Hazardous Material Release site, as defined in California Health and Safety Code Section 25260; or

(E) The Executive Officer pursuant to subdivision (i).

(2) This rule shall not apply to:

(A) Earth-moving activities of soil with applicable toxic air contaminant(s) of less than 50 cubic yards; or

(B) Removal of soil for sampling purposes.

(c) Definitions

(1) ADEQUATELY WET means the condition of being sufficiently mixed or penetrated with water to prevent the release of particulates or visible emissions. The process by which an adequately wet condition is achieved is by using a dispenser

or water hose with a nozzle that permits the use of a fine, low-pressure spray or mist.

(c) (2) ADJACENT ATHLETIC AREA means any outdoor athletic field or park where youth organized sports occur that is in physical contact or separated solely by a public roadway or other public right-of-way to a SCHOOL.

(3) ADJOINING means in physical contact with or separated solely by a public roadway or other public right-of-way.

(4) CHEMICAL STABILIZERS means any non-toxic chemicals that are used to bind soil together to control FUGITIVE DUST emissions.

(5) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for FUGITIVE DUST. This definition excludes those areas which have:

(A) Been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;

(B) Been paved or otherwise covered by a permanent structure; or

(C) Sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

(6) DUST SUPPRESSANTS means water or hygroscopic materials, other than CHEMICAL STABILIZERS, that are used as a treatment material to reduce FUGITIVE DUST emissions.

(7) EARTH-MOVING ACTIVITIES means, for the purpose of this rule, any activity on a site that meets the applicability requirements of subdivision (b) where SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S) is being moved or uncovered, including: dredging, excavating, grading, earth-cutting and filling operations, loading, unloading, handling, mechanized land clearing, treating, transferring, removing, and adding to or removing from STOCKPILES, and vehicular movement of equipment associated with these activities. EARTH-MOVING ACTIVITIES do not include vehicular movement from: delivery vehicles, passenger vehicles transporting personnel to and from the site, vehicles used for administrative purposes, vehicles transporting personnel for the purposes of soil sampling and conducting ambient PM_{10} monitoring requirements, watering trucks, and equipment used exclusively on a portion(s) of the site where there is no SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S).

(c) (8) FUGITIVE DUST means, for the purpose of this rule, any solid particulate matter that is in contact with ambient air and has the potential to become airborne, other than solid particulate matter that is emitted from an exhaust stack.

(9) JOINT USE AGREEMENT PROPERTY means a shared public facility in which a formal agreement exists between a SCHOOL and another government entity setting forth the terms and conditions for shared use.

(10) OWNER OR OPERATOR means any firm, business establishment, association, partnership, corporation or individual, whether acting as principal, agent, employee, contractor, or other capacity.

(11) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excludes access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal, or any other governmental or quasi-governmental agencies. Private paved roads are any PAVED ROADS not defined as public.

(12) PROPERTY LINE means the boundary of an area where a person has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.

(13) SCHOOL means any public or private education center, including juvenile detention facilities with classrooms, used for the education of more than 12 children at the education center in kindergarten through grade 12. A SCHOOL also includes an Early Learning and Developmental Program by the U.S. Department of Education or any state or local early learning and development programs such as preschools, Early Head Starts, Head Start, First Five, and Child Development Centers. A SCHOOL does not include any private education center in which education is primarily conducted in private homes. A SCHOOL includes any building or structure, playground, athletic field, or other area of school property.

(14) SLAG means, for the purpose of this rule, the by-product material that is separated from metals during smelting or refining of ore.

(15) SOIL means dirt, sand, gravel, clay, SLAG, and aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

(16) SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S) means, for the purpose of this rule, SOIL that has been identified by the U.S. EPA, the DTSC, the

State Water Board, the Regional Water Board, or a county, local, or state regulatory agency, to contain one or more of the applicable toxic air contaminants listed in Table I that exceed action levels as specified by the designating agency, or soil that has been identified by the Executive Officer to contain one or more of the toxic air contaminants listed in Rule 1401 – New Source Review of Toxic Air Contaminants (Table I) or Hazardous Air Pollutants Identified as Toxic Air Contaminants as listed in California Code of Regulations Section 93001, excluding volatile organic compounds regulated under Rule 1166 – Volatile Organic Compound Emissions from Decontamination of Soil.

(c) (17) STABILIZED SURFACE means any previously DISTURBED SURFACE AREA or STOCKPILE, which through the application of CHEMICAL STABILIZERS or DUST SUPPRESSANTS, shows visual or other evidence of surface crusting and is resistant to WIND-DRIVEN FUGITIVE DUST, and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the most current version of the South Coast AQMD *Rule 403 Fugitive Dust Implementation Handbook* or in Volumes I and II of South Coast AQMD's *Dust Control in the Coachella Valley*.

(18) STOCKPILE means any accumulation of SOIL, which is not fully enclosed and which attains a height of three feet or more and a total surface area of 150 square feet or more.

(19) TRACK-OUT means, for the purpose of this rule, any SOIL that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that has been released onto a PAVED ROAD and that can be removed by a vacuum sweeper under normal operating conditions.

(20) WIND-DRIVEN FUGITIVE DUST means visible emissions from any DISTURBED SURFACE AREA, which is generated by wind action alone.

(d) Monitoring Requirements

(1) When on-site earth-moving activities occur, the owner or operator shall conduct continuous direct-reading near real-time ambient monitoring of PM_{10} concentrations pursuant to paragraph (d)(3).

(2) If the PM_{10} concentration exceeds 25 micrograms per cubic meter, as measured pursuant to paragraph (d)(3) and as determined pursuant to paragraph (d)(9), the owner or operator shall cease on-site earth-moving activities, apply dust suppressant to fugitive dust sources, or implement other dust control measures as

necessary until the PM_{10} concentration is equal to or less than 25 micrograms per cubic meter averaged over 30 minutes.

(d) (3) The owner or operator conducting on-site earth-moving activities shall install PM_{10} monitors and conduct ambient PM_{10} monitoring:

(A) In accordance with a U.S. EPA-approved equivalent method for PM_{10} monitoring or using a Rule 1466 Approved PM_{10} Monitor;

(B) Using a minimum of two monitors, placing each monitor as close to the property line as feasible, where:

(i) One or more monitors is in the seasonal prevailing wind direction upwind of the area(s) of on-site earth-moving activity, indicative of background PM_{10} levels, and not generally influenced by fugitive dust sources from the site; and

(ii) One or more monitors is in the seasonal prevailing wind direction downwind of the area(s) of on-site earth-moving activity;

(C) Using PM_{10} monitors that are identical in: make and model, settings, and configuration; and

(D) Using ambient PM_{10} monitors that are operated, maintained, and calibrated in accordance with appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent methods for PM_{10} and manufacturer's instructions.

(4) On and before December 31, 2021, the owner or operator shall collect ambient PM_{10} data with a data acquisition system (DAS) that is capable of logging direct-reading near real-time data providing the date, time, and PM_{10} concentration in micrograms per cubic meter every 10 minutes or less.

(5) On and after January 1, 2022, the owner or operator shall collect ambient PM_{10} data with a DAS that is capable of logging direct-reading near real-time data providing the date and time, calibrated to Pacific Standard Time (PST), and PM_{10} concentration in micrograms per cubic meter every 1 minute or less.

(6) On and after January 1, 2022, the owner or operator shall operate PM_{10} monitors with the heated sampler inlet on.

(7) On and after January 1, 2022, prior to conducting any on-site earth-moving activities, and weekly thereafter, the owner operator shall conduct intra-instrument precision tests with the PM_{10} monitors in accordance with *Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision,* or make available documentation and supporting data certifying that such intra-instrument precision tests were run by an

equipment rental company or other third party, that demonstrate an intra-instrument precision of:

(d) (7) (A) No more than 25 percent as calculated pursuant to Step 7a in *Appendix 2* when ambient PM_{10} concentrations are equal to or greater than 15 micrograms per cubic meter; or

(B) No more than 5 micrograms per cubic meter as calculated pursuant to Step 7b in *Appendix 2* when ambient PM_{10} concentrations are less than 15 micrograms per cubic meter.

(8) On and after January 1, 2022, each day prior to conducting on-site earth-moving activities, the owner or operator shall conduct a passing zero check on each PM_{10} monitor in accordance with:

(A) Steps 4 and 5 of *Appendix 2* that demonstrates an average PM_{10} concentration of 0 ± 3 micrograms per cubic meter; or

(B) Manufacturer's instructions if a monitor is operated using an auto-zero check procedure that directs filtered particle-free air into the measurement chamber.

(9) The owner or operator shall calculate the PM_{10} concentration as a 120-minute rolling average, where:

(A) The initial average starts at the commencement of on-site earth-moving activities and ends 120 minutes after the commencement of on-site earth-moving activities;

(B) On and before December 31, 2021, the averages subsequent to the initial average specified in subparagraph (d)(9)(A) are to be calculated every 10 minutes and cover the previous 120-minute period;

(C) On and after January 1, 2022, the averages subsequent to the initial average specified in subparagraph (d)(9)(A) are to be calculated every 1 minute and cover the previous 120-minute period;

(D) The PM_{10} concentration is calculated by subtracting the results of the upwind monitor(s) from the downwind monitor(s) for the same averaging period;

(i) If the wind direction is in the seasonal prevailing wind direction, then the monitor(s) described pursuant to clause (d)(3)(B)(i) shall be designated as the upwind monitor(s) and the monitor(s) described pursuant to clause (d)(3)(B)(ii) shall be designated as the downwind monitor(s); and

(d) (9) (D) (ii) If there is greater than a ± 90 degree change in wind direction from the seasonal prevailing wind direction, then the monitor(s) described pursuant to clause (d)(3)(B)(i) shall be designated as the downwind monitor(s) and the monitor(s) described pursuant to clause (d)(3)(B)(ii) shall be designated as the upwind monitor(s);

(E) If there is more than one upwind monitor, the upwind result is the average concentration of all upwind monitors for the same rolling averaging period;

(F) If there is more than one downwind monitor, the downwind result is the maximum concentration of any of the downwind monitors for the same rolling averaging period;

(G) On and before December 31, 2021, when on-site earth-moving activities resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities resume and shall end 120 minutes after on-site earth-moving activities resume, and the subsequent averages are to be calculated every 10 minutes and shall cover the previous 120-minute period; and

(H) On and after January 1, 2022, when on-site earth-moving activities resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities resume and shall end 120 minutes after on-site earth-moving activities resume, and the subsequent averages are to be calculated every one minute and shall cover the previous 120-minute period.

(10) An owner or operator that elects to move the monitors accordingly when there is a change in wind direction in place of meeting the requirements specified in clauses (d)(3)(B)(i), (d)(3)(B)(ii), (d)(9)(D)(i), and (d)(9)(D)(ii), shall:

(A) Place a minimum of one upwind monitor in the upwind direction of the area(s) of on-site earth-moving activity, indicative of background PM_{10} levels, and not generally influenced by fugitive dust sources from the site;

(B) Place a minimum of one downwind monitor in the downwind direction of the area(s) of on-site earth-moving activity; and

(C) Move the monitor(s) in subparagraph (d)(10)(A) to the new upwind location and the monitor(s) in subparagraph (d)(10)(B) to the new downwind location when there is a change in wind direction.

(11) In the event that a DAS fails to log ambient PM_{10} data pursuant to paragraph (d)(5) or that the data management system integrated with the PM_{10} monitor(s) and

DAS(s) fails to calculate PM_{10} concentrations pursuant to subparagraph (d)(9)(C) due to a technical issue beyond the reasonable control of an owner or operator, including, but not limited to, internet connection disruptions and computer malfunctions, the owner or operator shall:

(d) (11) (A) Restore the DAS or data management system to working condition as soon as practicable and no later than the start of the next working day; and

(B) Manually record the PM_{10} concentration from the monitor(s) associated with the non-operational DAS once every 10 minutes or less and calculate the PM_{10} concentration pursuant to the averages specified in subparagraph (d)(9)(B) until the DAS is restored or calculate the PM_{10} concentration pursuant to the averages specified in subparagraph (d)(9)(B) until the data management system is restored.

(12) When conducting ambient PM_{10} monitoring as required in paragraph (d)(1), the owner or operator shall monitor wind direction and speed using a minimum of one stationary anemometer or wind sensor that:

(A) Is sited over open, level terrain within the project site with minimal obstructions to the wind flow at a minimum height of eight feet above grade;

(B) Meets the performance criteria of:

(i) Wind direction accuracy of ± 7 degrees and resolution of 1 degree; and

(ii) Wind speed accuracy of 2 miles per hour (mph) or ± 5 percent of the observed wind speed, whichever is greater, and resolution of 1 mph;

(C) Has a National Institute of Standards and Technology (NIST) Traceability certification;

(D) Is equipped with a data logger that records wind direction and speed data once every 1 minute or less and archives the recorded wind direction and speed data, including the date and time, calibrated to PST; and

(E) Is operated, calibrated, and maintained in accordance with manufacturer's specifications, but no less frequent than once every 6 months of cumulative operation.

(13) The Executive Officer may approve a PM_{10} monitor to be added as a Rule 1466 Approved PM_{10} Monitor if the PM_{10} monitor meets the specifications listed in *Appendix 1 – Rule 1466 Approved PM_{10} Monitors*. The request for a PM_{10} monitor to be added as a Rule 1466 Approved PM_{10} Monitor shall:

(A) Be submitted to Rule1466ApprovedMonitors@aqmd.gov;

(d) (13) (B) Include a description of the PM_{10} monitor, any accessories, and all monitor specifications; and

(C) Include documentation demonstrating compliance with each specification listed in *Appendix 1*.

(e) Requirements to Minimize Fugitive Dust Emissions

(1) On and before December 31, 2021, an owner or operator shall not conduct on-site earth-moving activities unless the area is surrounded with fencing that is a minimum of 6 feet tall and at least as tall as the height of the tallest stockpile, with a windscreen that has a porosity of 50 ± 5 percent. A section of the perimeter surrounding an on-site earth-moving activity area may be excluded from this requirement if that section:

(A) Has a solid physical barrier, such as a solid wall or other solid feature that minimizes air flow, that is a minimum of 6 feet tall but at least 6 inches taller than the height of the tallest stockpile; or

(B) Does not have on-site earth-moving activity occurring within 300 feet from the perimeter of that section.

(2) On and after January 1, 2022, an owner or operator shall not conduct on-site earth-moving activities unless the area is surrounded with fencing that is a minimum of 6 feet tall but at least 6 inches taller than the height of the tallest stockpile, with a windscreen that has a porosity of 50 ± 5 percent or a mesh windscreen that has a shade value or opacity of 85 ± 5 percent. A section of the perimeter surrounding an on-site earth-moving activity area may be excluded from this requirement if that section meets the conditions as specified in subparagraph (e)(1)(A) or (e)(1)(B).

(3) An owner or operator conducting on-site earth-moving activities shall:

(A) Adequately wet to the depth of earth-moving activity and allow time for penetration; and

(B) Adequately wet at frequencies to prevent the generation of visible dust plumes.

(4) An owner or operator that is moving vehicles on, within, or off a site shall:

(A) Post signs at all entrances of the site to designate the speed limit as 15 mph;

(B) Stabilize the surface of all vehicular traffic and parking areas by applying gravel, paving, chemical stabilizers pursuant to paragraph (e)(13), or dust suppressant;

(C) Not allow any track-out outside of the property line that is 25 feet or more in cumulative length. Remove any track-out at a minimum frequency of

once each day using a vacuum equipped with a filter(s) rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles;

(e) (4) (D) Clean the soil from the exterior of trucks, trailers, and tires prior to the truck leaving the site, without the use of forced air; and

(E) Utilize at least one of the following measures at each vehicle egress from the site to a public road:

(i) Install a pad consisting of washed gravel (minimum-size: 1 inch), maintained in a clean condition, to a depth of at least 6 inches and extending at least 30 feet wide and at least 50 feet long;

(ii) Pave the surface extending at least 100 feet from the property line and at least 30 feet wide;

(iii) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipes, or grates) at least 24 feet long and 30 feet wide; or

(iv) Install and utilize a wheel washing system to remove soil from tires and vehicle undercarriages.

(5) An owner or operator conducting on-site earth-moving activities shall ensure that stockpiles with any soil with applicable toxic air contaminant(s) be:

(A) Segregated from non-contaminated stockpiles;

(B) Labelled with "South Coast AQMD Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminant(s) Applicable Soil";

(C) Maintained to avoid steep sides or faces that exceed the angle of repose;

(D) No more than 400 cubic yards of soil;

(E) Maintained to minimize fugitive dust emissions containing toxic air contaminants by applying chemical stabilizers pursuant to paragraph (e)(13), applying dust suppressant, or completely covering pursuant to paragraph (e)(14); and

(F) Either chemically stabilized pursuant to paragraph (e)(13) and/or completely covered pursuant to paragraph (e)(14) at all times when earth-moving activities and ambient PM_{10} monitoring are not occurring.

(6) An owner or operator conducting truck and trailer loading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to loading;

(B) Empty the loader bucket slowly so that no visible dust plumes are generated;

(e) (6) (C) Minimize the drop height from the loader bucket;

(D) Maintain at least 6 inches of space between the soil and the top of the truck bed and trailer while transporting within a site; and

(E) Completely cover the truck bed and trailer prior to leaving the site.

(7) An owner or operator conducting truck and trailer unloading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to unloading; and

(B) Empty the trailer slowly so that no visible dust plumes are generated.

(8) The owner or operator shall immediately remove any spilled soil.

(9) The owner or operator shall cease on-site earth-moving activities if the wind speed is greater than 15 mph averaged over a 15-minute period or the instantaneous wind speed exceeds 25 mph.

(10) During on-site earth-moving activities, the owner or operator shall have an on-site dust control supervisor that:

(A) Is employed by or contracted with the owner or operator;

(B) Is located on the site during working hours;

(C) Is in a position to expeditiously employ sufficient dust control measures to ensure compliance with all rule requirements;

(D) Has completed the South Coast AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and

(E) Has the following credentials, if asbestos is an applicable toxic air contaminant:

(i) Successfully completed the Asbestos Abatement Contractor/Supervisor course pursuant to the Asbestos Hazard Emergency Response Act (AHERA), and obtained and maintained accreditation as an AHERA Asbestos Abatement Contractor/Supervisor; and

(ii) Trained on the provisions of 40 CFR Part 61.145, 61.146, 61.147 and 61.152 (Asbestos NESHAP provisions) and Part 763, and has the means to comply with these provisions.

(11) An owner or operator shall apply a chemical stabilizer pursuant to paragraph (e)(13) and/or use a cover pursuant to paragraph (e)(14) on potential sources of fugitive dust when earth-moving activities are not occurring in the specific location(s) containing the potential source(s) of fugitive dust.

(e) (12) An owner or operator shall inspect daily, including days when no on-site earth-moving activities are occurring, labeled stockpiles pursuant to subparagraph (e)(5)(B) and stabilized or covered stockpiles pursuant to (e)(5)(F).

(A) For a stabilized stockpile, such inspections shall include a demonstration of stabilization by one or more of the applicable test methods contained in the most current version of the South Coast AQMD *Rule 403 Fugitive Dust Implementation Handbook* or Volumes I and II of South Coast AQMD's *Dust Control in the Coachella Valley*.

(B) For a covered stockpile, such inspections shall include a visual inspection of all seams and plastic cover surfaces to ensure that no portion of the soil is exposed to the atmosphere.

(13) When utilizing a chemical stabilizer, an owner or operator shall:

(A) Ensure the chemical stabilizer meets any specifications, criteria, or tests required by any federal, state, or local agency or any applicable law, rule, or regulation; and

(B) Unless otherwise indicated, use a sufficient concentration of the chemical stabilizer and an application frequency sufficient to maintain a stabilized surface and no less than what is specified by the manufacturer for the period of inactivity.

(14) When using a cover for stockpiles, an owner or operator shall ensure the cover:

(A) Is at least 10 mil thick plastic sheeting that overlaps a minimum of 24 inches; and

(B) Is anchored and secured so that no portion of the soil is exposed to the atmosphere.

(15) An owner or operator that is conducting earth-moving activities of soil with applicable toxic air contaminant(s) at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area shall:

(A) Only conduct earth-moving activities at a school or at a site that is adjoining a school outside of the hours between 7:30 a.m. and 4:30 p.m. on days when the school is in session;

(B) Not conduct earth-moving activities at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area if there is a school sponsored activity or youth organized sports taking place at that site;

(e) (15) (C) Handle excavated soils with applicable toxic air contaminant(s) by:

(i) Immediately placing soil in a leak-tight container whereby any contained solids or liquids are prevented from escaping or spilling out;

(ii) Directly loading soil in truck beds, trailers, and bins for transport, applying chemical stabilizer pursuant to paragraph (e)(13) or dust suppressant, and completely covering prior to transporting; or

(iii) Stockpiling pursuant to paragraph (e)(5), in a fenced area that is not accessible to the general public, and locked when not in use; and

(D) Within five days of its excavation, remove all soil with applicable toxic air contaminant(s) from the site.

(f) Notification Requirements

(1) The owner or operator shall electronically submit an initial notification to the Executive Officer, using a format approved by the Executive Officer, of the intent to conduct any on-site earth-moving activities.

(A) Initial notifications shall be submitted:

(i) At least 72 hours but no more than 30 days prior to conducting any earth-moving activities on any site meeting the applicability requirements of subdivision (b); or

(ii) As soon as the information becomes available but no later than 48 hours after the information becomes available that on-site earth-moving activities of soil with applicable toxic air contaminant(s) exceed 50 cubic yards.

(B) Initial notifications shall include the following requirements:

(i) Name, address, telephone number, and e-mail address of the owner or operator;

(ii) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(iii) Project name and, if applicable, the project identification number from the designating agency;

(iv) Project location (address and/or coordinates);

(v) Identify whether the site is a school, joint use agreement property, adjacent athletic area, or is adjoining a school, joint use agreement property, or adjacent athletic area;

(f) (1) (B) (vi) A map indicating the specific location(s) of each on-site earth-moving activity and the concentrations of the applicable toxic air contaminant(s) and location of PM_{10} monitors;

(vii) A description of the on-site earth-moving activities, estimated volume of soil with applicable toxic air contaminant(s), and a schedule that includes the anticipated start and completion dates of on-site earth-moving activities;

(viii) Current and/or previous type of operation(s) and use(s) at the site;

(ix) Applicable exemption(s); and

(x) Whether the notice being provided is a revised notification.

(2) Notification Updates

Initial notifications pursuant to paragraph (f)(1) shall be updated when any of the following conditions arise:

(A) Earlier Start Date

A change in the start date of on-site earth-moving activities to an earlier date shall be reported to the South Coast AQMD no later than 72 hours before any on-site earth-moving activities begin.

(B) Later Start Date

A delay in the start date of on-site earth-moving activities shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than the original start date.

(C) Change in Exemption Status

Any change(s) in exemption status pursuant to subdivision (k) shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than 48 hours after the information becomes available.

(D) Completion Date

The completion date of on-site earth-moving activities shall be reported to the South Coast AQMD no later than 48 hours after on-site earth-moving activities are completed.

(3) Within 72 hours of an exceedance of the PM_{10} emission limit specified in paragraph (d)(2), the owner or operator shall electronically submit a notification to the Executive Officer, using a format approved by the Executive Officer, of the exceedance and shall include the following information:

(f) (3) (A) Name, address, telephone number, and e-mail address of the owner or operator;

(B) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(C) Project name and, if applicable, the project identification number from the designating agency;

(D) Project location (address and/or coordinates);

(E) PM_{10} monitoring results and wind direction and speed results pursuant to subdivision (d), including location of monitors, result, date and time of exceedance(s), 12 hours before first exceedance, and 12 hours after last exceedance;

(F) On-site earth-moving activities occurring at the date and time of exceedance(s); and

(G) Dust control measure(s) taken to mitigate fugitive dust.

(g) Signage Requirements

When conducting on-site earth-moving activities, the owner or operator shall install and maintain project signage.

(1) Unless otherwise approved in writing by the Executive Officer, signage shall:

(A) Be installed at all entrances and at intervals of 1,000 feet or less along the property line or perimeter of the site, with a minimum of one sign along each side;

(B) Be located between 6 and 8 feet above grade from the bottom of the sign;

(C) Display lettering at least 4 inches tall with text contrasting with the sign background; and

(D) Display the following information:

(i) Local or toll-free phone number for the site contact or pre-recorded notification center that is accessible 24 hours a day; and

(ii) Warning statement:

"THIS SITE CONTAINS SOILS THAT CONTAIN THE FOLLOWING CHEMICALS: [LIST APPLICABLE TOXIC AIR CONTAMINANT(S)]
TO REPORT ANY DUST LEAVING THE SITE PLEASE CALL [FACILITY CONTACT AND PHONE NUMBER] OR THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT 1-800-CUT-SMOG".

(g) (2) If signage pursuant to paragraph (g)(1) exceeds 48 inches by 96 inches, the owner or operator or designating agency shall include the warning statement referenced in clause (g)(1)(D)(ii), displaying lettering at least 4 inches tall with text contrasting with the sign background, but may use 2.5 inch tall lettering to list applicable toxic air contaminant(s). All other signage requirements set forth in paragraph (g)(1) shall remain the same. If signage continues to exceed 48 inches by 96 inches with these parameters, the owner or operator or designating agency may use alternative signage as set forth in paragraph (g)(3).

(3) The owner or operator or designating agency may use alternative signage approved by the Executive Officer pursuant to subdivision (j). Notwithstanding subdivision (j), the request shall include a visual representation of the alternative sign, including proposed lettering height, and locations and, at a minimum, the alternative signage shall:

(A) Display text contrasting with the sign background; and

(B) Display the following warning statement:

"THIS SITE CONTAINS SOILS THAT CONTAIN THE FOLLOWING CHEMICALS: [LIST APPLICABLE TOXIC AIR CONTAMINANT(S)] TO REPORT ANY DUST LEAVING THE SITE PLEASE CALL THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT 1-800-CUT-SMOG".

(4) The owner or operator may be excluded from installing and maintaining project signage pursuant to subparagraph (g)(1)(A) at any entrance(s) or interval(s) along the property line or perimeter of the site that is not visible and not accessible to the public unless the site is a school, joint use agreement property, or adjacent athletic area or the site is adjoining a school, joint use agreement property, or adjacent athletic area.

(h) Recordkeeping Requirements

The owner or operator shall maintain records for a period of not less than 3 years and shall make such records available to the Executive Officer upon request. At a minimum, records shall be maintained daily and shall include:

(1) Inspections of all stabilized or covered stockpiles containing soils with applicable toxic air contaminant(s) and all re-stabilization, cover repair, and label maintenance activities, including dates and times the specific activities were conducted;

(2) Results of wind and PM_{10} monitoring, including: ambient PM_{10} data; rolling average PM_{10} concentrations and calculations; wind direction and speed

corresponding to the rolling average PM_{10} concentrations; movement of monitoring instruments corresponding to wind direction changes; instrument make and model; settings; proof of valid calibration in accordance with manufacturer's recommended schedule; configuration; calibration, correction, and correlation factors; maintenance; operator training; daily instrument performance check records and manual zero or auto-check results; weekly zero calibration records and intra-instrument precision test data and calculation results; and all instrument logs for all monitoring instruments;

(h) (3) All instrument maintenance activities, including: zero calibration, cleaning, filter replacement, and performance checks, including dates and times of the specific procedures;

(4) Documentation of all DAS and data management system failures, including date and time of the failure, date and time of the correction, the technical issue(s) causing the failure, and activities performed to restore the failed DAS or data management system to working condition;

(5) On-site earth-moving activities conducted and the corresponding volume of soil with applicable toxic air contaminant(s);

(6) Names and business addresses of the transporting and receiving facilities, and a copy of the shipping manifest;

(7) Complaints called in, including the name of complainant and contact information, date and time, on-site earth-moving activities occurring at the date and time, complaint, and action taken to mitigate the source of the complaint; and

(8) A copy of all submitted notifications for the project.

(i) Executive Officer Designated Sites

(1) The Executive Officer may designate a site if the Executive Officer has evidence that the site contains soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16), after consultation with U.S. EPA, DTSC, the State Water Resources Control Board, the Regional Water Quality Control Board, and/or local, county, or state regulatory agencies, and consideration of the following:

(A) Site history, including current and/or previous type(s) of operation(s) and use(s) at the site and regulatory history;

(B) Concentration(s) of applicable toxic air contaminant(s) in the soil;

(C) Background concentration(s) of applicable toxic air contaminant(s);

(D) Volume of soil with applicable toxic air contaminant(s);

(i) (1) (E) Distance to a residence, park, school, joint use agreement property, adjacent athletic area, or a site adjoining a school, joint use agreement property, or adjacent athletic area;

(F) Meteorological data;

(G) Health risk information or other data provided by the owner or operator, if available; and

(H) Ambient monitoring data and other applicable data, if available.

(2) Prior to making a determination, the Executive Officer will notify the owner or operator in writing that the site may be subject to this rule.

(A) In the event the owner or operator exercises this opportunity to demonstrate that this rule does not apply, the owner or operator shall submit information to the Executive Officer within 14 days of the notification substantiating why the site should be excluded from this rule.

(B) Upon final determination, the Executive Officer will notify the owner or operator in writing if the site is subject to this rule.

(3) During the determination period, the owner or operator shall comply with the provisions of this rule or cease all on-site earth-moving activities until a determination is made.

(j) Alternative Provisions

(1) If requesting an alternative provision pursuant to paragraph (g)(3), the owner or operator or designating agency shall submit the request in writing at least 30 days prior to conducting any earth-moving activities and include all information to the Executive Officer to substantiate its position.

(2) The Executive Officer may request additional information from the owner or operator or designating agency.

(3) The owner or operator or designating agency shall submit all requested information within 14 days of the request for additional information.

(4) The Executive Officer will review the request for an alternative provision and will approve or reject the data and notify the owner or operator or designating agency in writing. Approved alternative provisions may not be used retroactively.

(5) Alternative provisions that were approved and notified in writing by the Executive Officer before June 4, 2021 shall be deemed compliant with the requirements of the applicable provisions of the rule, shall remain in effect only for the period of time and for the specific project for which they were granted, and shall not be renewed or extended.

(k) Exemptions

(1) The owner or operator may be exempt from one or more provisions of this rule provided there is written confirmation that the designating agency under subparagraphs (b)(1)(A) through (b)(1)(D) has consulted with the Executive Officer and has determined that the provision(s) are not needed based on information specified in subparagraphs (i)(1)(A) through (i)(1)(H).

(2) On-site earth-moving activities performed within an enclosed system vented to South Coast AQMD permitted air pollution control equipment shall be exempt from all requirements except: subparagraphs (e)(4)(C) through (e)(4)(E), subparagraphs (e)(6)(D) and (e)(6)(E), and subdivisions (f), (g), and (h).

(3) Linear trenching for natural gas, power, sewer, and water projects on roadways with soil with applicable toxic air contaminant(s), directly loaded into a truck bed, trailer, or bin for transport, shall be exempt from all requirements except: paragraphs (e)(3) through (e)(9), paragraphs (e)(13) and (e)(15), and subdivisions (f), (h), and (i).

(4) On-site earth-moving activities consisting only of excavation activities of soil with applicable toxic air contaminant(s) of less than 500 cubic yards, directly loaded into a truck bed, trailer, or bin for transport, shall be exempt from all requirements except: paragraphs (e)(3) through (e)(9), paragraphs (e)(13) and (e)(15), and subdivisions (f), (h), and (i).

(5) On-site earth-moving activities conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency as declared by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer shall be exempt from all requirements. The Executive Officer shall be notified electronically no later than 48 hours following such on-site earth-moving activities. Written notification shall include written emergency declaration from the authorized officer.

(6) On-site earth-moving activities conducted by essential service utilities to provide electricity, natural gas, telephone, water, or sewer during periods of service outages and emergency disruptions shall be exempt from all requirements. The Executive Officer shall be notified electronically no later than 48 hours following such on-site earth-moving activities.

Table I – Applicable Toxic Air Contaminants

CAS Number	Substance
7440-38-2	**arsenic and arsenic compounds (inorganic)**
	including, but not limited to:
	arsenic compounds (inorganic)
7784-42-1	arsine
1332-21-4	Asbestos
7440-43-9	cadmium and cadmium compounds
57-74-9	chlordane
	dibenzo-p-dioxins (chlorinated)
1746-01-6	tetrachlorodibenzo-p-dioxin, 2,3,7,8-
40321-76-4	pentachlorodibenzo-p-dioxin, 1,2,3,7,8-
39227-28-6	hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-
57653-85-7	hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-
19408-74-3	hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-
35822-46-9	heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-
3268-87-9	octachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8,9-
41903-57-5	total tetrachlorodibenzo-p-dioxin
36088-22-9	total pentachlorodibenzo-p-dioxin
34465-46-8	total hexachlorodibenzo-p-dioxin
37871-00-4	total heptachlorodibenzo-p-dioxin
72-54-8	dichlorodiphenyldichloroethane
72-55-9	dichlorodiphenyldichloroethylene
50-29-3	dichlorodiphenyltrichloroethane

Table I – Applicable Toxic Air Contaminants (cont.)

CAS Number	Substance
18540-29-9	**chromium (hexavalent) and chromium compounds**
	including, but not limited to:
10294-40-3	barium chromate
13765-19-0	calcium chromate
7758-97-6	lead chromate
10588-01-9	sodium dichromate
7789-06-2	strontium chromate
13530-65-9	zinc chromate
7439-92-1	**lead and lead compounds (inorganic, including elemental lead)**
	including, but not limited to:
	lead compounds (inorganic)
301-04-2	lead acetate
7758-97-6	lead chromate
7446-27-7	lead phosphate
1335-32-6	lead subacetate
7439-97-6	**mercury and mercury compounds (inorganic)**
	including, but not limited to:
7487-94-7	mercuric chloride
593-74-8	methyl mercury

Table I – Applicable Toxic Air Contaminants (cont.)

CAS Number	Substance
7440-02-0	**nickel and nickel compounds**
	including, but not limited to:
373-02-4	nickel acetate
3333-67-3	nickel carbonate
13463-39-3	nickel carbonyl
12054-48-7	nickel hydroxide
1313-99-1	nickel oxide
12035-72-2	nickel subsulfide
1271-28-9	nickelocene
	refinery dust from the pyrometallurgical process
1336-36-3	**polychlorinated biphenyls (PCBs)**
32598-13-3	3,3’,4,4’-tetrachlorobiphenyl (PCB 77)
70362-50-4	3,4,4’,5-tetrachlorobiphenyl (PCB 81)
32598-14-4	2,3,3’,4,4’-pentachlorobiphenyl (PCB 105)
74472-37-0	2,3,4,4’,5-pentachlorobiphenyl (PCB 114)
31508-00-6	2,3’,4,4’,5-pentachlorobiphenyl (PCB 118)
65510-44-3	2,3',4,4',5'-pentachlorobiphenyl (PCB 123)
57465-28-8	3,3’,4,4’,5-pentachlorobiphenyl (PCB 126)
38380-08-4	2,3,3’,4,4’,5-hexachlorobiphenyl (PCB 156)
69782-90-7	2,3,3’,4,4’,5’-hexachlorobiphenyl (PCB 157)
52663-72-6	2,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 167)
32774-16-6	3,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 169)
39635-31-9	2,3,3’4,4’,5,5’-heptachlorobiphenyl (PCB 189)

Table I – Applicable Toxic Air Contaminants (cont.)

CAS Number	Substance
	polycyclic aromatic hydrocarbons (PAHs)
56-55-3	benzo[a]anthracene
50-32-8	benzo[a]pyrene
205-99-2	benzo[b]fluoranthene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
53-70-3	dibenz[a,h]anthracene
193-39-5	indeno[1,2,3-c,d]pyrene

Appendix 1 – Rule 1466 Approved PM_{10} Monitors

The Executive Officer may approve PM_{10} monitors that meet the following physical and performance requirements.

1. Physical Requirements
   - 1.1. PM_{10} monitors shall be continuous direct-reading near-real time monitors and shall monitor particulate matter less than 10 microns.
   - 1.2. PM_{10} monitors shall be equipped with:
     - 1.2.a. Omni-directional heated sampler inlet;
     - 1.2.b. Sample pump with active flow control mechanism;
     - 1.2.c. Enclosure;
     - 1.2.d. Data logger capable of logging each data point with average concentration, time, date, and data point number; and
     - 1.2.e. Conductive tubing that minimizes particle loss for any external tubing used to carry sampled air prior to measurement.

2. Performance Requirements
   - 2.1 PM_{10} monitors shall have the following minimum performance standards:
     - 2.1.a. Range: 0 - 10,000 $\mu g/m^3$;
     - 2.1.b. Accuracy, determined through factory testing against a U.S. EPA Federal Reference Method or Federal Equivalent Method, for a minimum of 30 measurements each averaged over 24 hours, to show:
       - 2.1.b.i. ± 5% of reading ± precision; or
       - 2.1.b.ii. Coefficient of determination (R^2) of ≥ 0.95 through simple linear regression;
     - 2.1.c. Resolution: 1.0 $\mu g/m^3$;
     - 2.1.d. Flow control accuracy of ± 5% of factory setpoint; and
     - 2.1.e. Measurement Cycle: User selectable (30 minute and 2 hour).
   - 2.2 Monitors that have a valid *Monitoring Certification Scheme* certification meeting the latest version of the *Monitoring Certification Scheme* (*MCERTS): Performance Standard for Indicative Ambient Particulate Monitors* may be exempt from meeting the performance requirements listed above, but shall meet all stated physical requirements.

3. Quality Assurance/Quality Control Requirements

In order to ensure the validity of the PM_{10} measurements performed, there shall be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the owner or operator to adequately supplement QA/QC Plans to include the following critical features: instrument calibration, instrument maintenance, operator training, and daily instrument performance checks.

Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision

An owner or operator shall perform the following procedures to demonstrate the intra-instrument precision of all PM_{10} monitors as required in paragraph (d)(7).

1. Ensure monitors are identical in make and model, settings, and configuration.
2. Ensure monitor inlets are at the same height and located within 4 meters of each other but no less than 1 meter apart for the duration of the test.
3. Power on the monitors and turn on the heated sampler inlet. Allow the monitors to warm-up per manufacturer's recommendations or when readings have stabilized.
4. For each monitor, conduct a zero calibration in accordance with manufacturer's instructions, then conduct a manual zero check by removing any sampling inlet and installing a filter, rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles, on the inlet of the monitor for a minimum of 10 minutes. If the monitors are operated using an auto-zero check procedure that directs filtered particle-free air into the measurement chamber, conduct the zero check in accordance with manufacturer's instructions.
5. Log the PM_{10} concentration reading every minute, and calculate and record the average of the readings of the manual zero check. The average of the manual zero check readings shall be 0 ± 3 micrograms per cubic meter before proceeding to Step 6. If conducting an auto-zero check, the monitor shall pass the zero check in accordance with manufacturer's instructions before proceeding to Step 6. If any monitors fail either the manual zero check or the auto-zero check, the owner or operator shall conduct a zero calibration in accordance with manufacturer's instructions and/or correct any issue(s) causing the failure, followed by conducting a passing zero check on the PM_{10} monitor(s) in accordance with Steps 4 and 5.
6. Remove the filter and install the monitor inlet as required. After waiting 10 minutes, operate the monitors simultaneously and log the PM_{10} concentration reading every minute for a minimum of 60 minutes.

7. Calculate the intra-instrument precision using either of the following equations:
   a. Intra-instrument precision in relative standard deviation or correlation of variation (%) when ambient PM_{10} concentrations are greater than or equal to 15 micrograms per cubic meter:

$$P = \frac{S_t}{C_t} \, x \, 100\%$$

where,

P = Intra-instrument precision in percent (%);

S_t = Standard deviation of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration, to be calculated as:

$$S_t = \sqrt{\frac{\sum(x_i - \bar{x})^2}{(n-1)}}$$

where,

x_i = Mean of the PM_{10} concentration readings for a tested monitor over time t of testing duration,

$\bar{x}$ = Mean of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration, and

n = Number of tested monitors; and

C_t = Mean of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration; or

   b. Intra-instrument precision in absolute value (micrograms per cubic meter) when ambient PM_{10} concentrations are less than 15 micrograms per cubic meter:

$$P = S_t$$

where,

P = Intra-instrument precision in micrograms per cubic meter, and

S_t = Standard deviation of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration.

8. Record the results of the calculations.

Appendix C

HARBOR DEPARTMENT ENVIRONMENTAL GUIDANCE FOR INDUSTRIAL FILL MATERIAL – DECEMBER 2021

PACIFIC EDGE ENGINEERING
(949) 470-1937; (949) 470-0943 (FAX)

ENVIRONMENTAL GUIDANCE FOR INDUSTRIAL FILL MATERIAL

DECEMBER 2021

The City of Los Angeles Harbor Department (Harbor Department) Environmental Management Division (EMD) has prepared and routinely updates this guidance document to ensure that fill materials (i.e., soil, topsoil, CMB, etc.) meet both Harbor Department and regulatory and environmental standards for acceptable industrial land use fill material. In addition, the guidance procedures are intended to both reduce Harbor Department liability and potential future cleanup costs by preventing the inadvertent placement or reuse of contaminated soil/fill material on Port property. The environmental chemical concentrations listed in this section are intended only for industrial land use for the protection of human health and the environment. They are not appropriate in determining suitable soil/fill material for use at former or active regulated/cleanup sites, public access/land use areas, or for worker health & safety protection.

• Environmental Suitability of Soil/Fill Material for Industrial Use

The general process steps for determining the environmental suitability of fill material for industrial land use are the following:

1. Source Location Identification and Suitability
2. Volume Estimation of Soil/Fill Materials
3. Sampling Requirements and Sample Frequency Determination
4. Chemical Analyses Based on Source
5. Representative Sample Collection
6. Applicable Samples Analyses
7. Comparisons with Allowable Concentrations
8. Documentation and Retention

• Source Location Identification and Suitability

It is important to know the source location of the soil/fill material, including the former and current land uses of the material. Past activities performed on, or near, the proposed source location can directly affect the quality of the fill material and the suitability of use of the material. Prior use of the source site should be documented and be made available for review.

Also, the unique hydrogeological characteristics of the Port area (i.e., shallow groundwater and proximity to harbor waters) require added attention for the protection of water quality. It is strongly recommended that clean crushed miscellaneous base (CMB) only be used for applications such as road base, paving, container terminal construction, and/or asphalt/concrete parking. CMB should not be used as a substitute for soil as general fill, or within sensitive-use areas including, but not limited to, sites

under regulatory oversight or remediation, park lands, public access areas, and waterfront areas in potential contact with harbor waters.

- **Volume Estimation of Soil/Fill Material**

  The volume of soil/fill material determines the sampling frequency required. It is important to have a fairly accurate estimate of the material volume prior to sample collection and analysis. If the volume of soil/fill material cannot be accurately determined, the upper-end estimate of the volume shall be used for purposes of determining sampling frequency.

- **Sampling Requirements and Sampling Frequency Determination**

  The minimum sampling frequency and number of total samples of soil/fill material for stockpile sampling are shown in Table 1. All samples should be collected as individual grab samples. Composite samples are not acceptable. Borrow sources that are not contiguous to each other are considered to be separate or different sources and should be tested separately according to the frequencies described in Table 1. In order to distinguish between multiple borrow sources, the sampler/supplier shall provide a "unique identifier" for each stockpile or borrow source sampled (e.g. Stockpile A, Stockpile B, etc.). A site plan (e.g. map) showing the location of the source material and sample locations should be provided. In addition, the results of laboratory analytical chemical data and an approval certification stating the environmental status/condition of the material from the supplier for the sources should also be provided.

Table 1. Sampling Frequency for Each (Separate) Source of Stockpiled Fill Material

Volume of Borrow Area Stockpile	Required Number of Samples per Volume
Up to 1,000 CY	1 sample per 250 CY
1,000 to 5,000 CY	4 samples for first 1000 CY +1 sample per each additional 500 CY
Greater than 5,000 CY	12 samples for first 5,000 CY +1 sample per each additional 1,000 CY

NOTE: CY = Cubic Yard
Source: Information Advisory Clean Imported Fill Material, DTSC, October 2001

The number of samples per volume for sources not yet excavated or stockpiled (i.e., in-situ sources) may differ from the table above. This is described further in the *Representative Sample Collection* section below.

- **Chemical Analyses Based on Source**

Table 2 provides a set of recommended chemical analyses based on the source or origin of the fill material. Except as noted, soil/fill source areas shall NOT be located in:

a. Industrial/manufacturing areas (with the exception of soils/material generated within the Port of Los Angeles [Port]).
b. Sites designated for or undergoing environmental cleanup or within a one-mile radius of sites undergoing environmental cleanup.
c. Sites where hazardous materials were historically used or hazardous wastes were generated (e.g., service or fueling stations, dry cleaners, oil refineries, scrap yards, boatyards, chemical/liquid storage areas, painting facilities, metal processing shops, etc.).

The potential for the proposed borrow site to be located in an area related to items a, b, and/or c above should be determined by the contractor PRIOR to proposing the borrow site to the Harbor Department. At a minimum, the contractor must demonstrate due diligence in obtaining the information (e.g., Phase I, searched on Geotracker and Envirostor, etc.) about historical property land uses at proposed existing and off-site borrow locations prior to placement of the material within the Port.

For both excavated on-site and off-site material, target compounds to be analyzed for testing the suitability of the fill source may be pre-determined or reduced by assessing environmental conditions of the borrow area prior to implementing the excavation. Although, the Harbor Department does not recommend the use of soil/fill material from land adjacent to freeways and highways, mining areas, and/or agricultural lands, Table 2 provides a suggested list of target compounds and sampling tests for such locations.

Table 2. Recommended Chemical Analyses of Material Based on Source/Origin

Fill Source	Target Compounds and Analyses
Land adjacent to or within 250 feet from existing freeway or major highway	• TPH (modified EPA Method 8015) • Lead (EPA Method 6010B) • PAHs (EPA Method 8310)
Mining area or rock quarry	• Heavy metals (EPA Methods 6020 and 7471A) • Asbestos (polarized light microscopy)
Agricultural	• Pesticides and Herbicides (Organochlorine Pesticides: EPA Method 8081A or 8080A; Organophosphorus Pesticides: EPA Method 8141A; Chlorinated Herbicides: EPA Method 8151A) • Heavy metals (EPA Methods 6020 and 7471A), including hexavalent chromium (EPA Method 7199)

Fill Source	Target Compounds and Analyses
Acceptable commercial land	• VOCs (EPA Method 8021 or 8260B, as appropriate and combined with collection by EPA Method 5035) • Semi-VOCs (EPA Method 8270SIM) • TPH (modified EPA Method 8015B) • PCBs (EPA Method 8082 or 8080A) • Heavy metals including lead (EPA Methods 6020 and 7471A), including hexavalent chromium (EPA Method 7199)

- ## Representative Sample Collection

  Soil/fill material samples need to be collected in a manner (both in sample number and depth) that accurately represents the overall environmental chemical quality of the excavation area, borrow site, or stockpile(s). In-situ sampling requirements for in-place fill material is more complex than stockpile sampling, and the proposed plan for characterization shall be determined in advance with consultation/discussions with qualified Port personnel (e.g., Project Manager/Construction Manager). Table 1 is not necessarily appropriate for in-situ sampling. At a minimum, a map showing the borrow site boundaries, depths of proposed excavation, depth horizons that will be used for fill, and proposed number of samples and analyses, must be provided to the Port for initial discussion. Additional information may be requested by the Port based on the information provided. Sampling must be overseen by an environmental professional.

  Any and all samples must be collected and properly preserved/stored (e.g., specified temperatures, within appropriate containers and holding times, etc.) until delivery to a California-certified analytical laboratory (e.g., ELAP and/or NELAP certification) for analyses. Appropriate sample handling and preservation procedures are specified in the US EPA "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods (SW-846)." Each collected soil/material sample will be recorded on a chain-of-custody form prior to submittal to the laboratory for analysis.

- ## Applicable Samples Analyses

  All soil samples need to be analyzed using the applicable EPA Methods listed in Table 3. If one is aware of, has knowledge of, or suspects possible contaminants in the soil/fill material (e.g., observations of staining, discoloration, and/or odors) that are not included in the list, an analysis of the suspected contaminant(s) should be conducted.

- ## Comparisons with Allowable Concentrations

  Table 3 presents the chemical concentrations for soil/ fill material at the Port of Los Angeles. Generally, soil/fill material with sample results below (less than) the permissible chemical concentrations may be used as industrial-use fill within the Port. Soil/fill material with sample results above (greater than) the permissible chemical concentrations material cannot be used as fill and must be properly disposed of, unless directed otherwise. It's important to note that the recommended sampling frequencies in Table 1 and the subsequent sampling results only provide an indication of potential

contamination with the soil/fill material. Slight exceedances in Table 3 limits in some of the samples do not necessarily make the entire stockpile or borrow area unusable. Unless the exceedances are present throughout a number of the samples, a combination of both professional judgment and sectioning-off of the contaminated areas will likely allow use of most of the selected fill material.

In general, the primary target or 'driver' compounds of concern in the Port are TPH, benzene, PCBs, lead, and copper. While there are a number of other chemicals (including human carcinogens) found in the Port, these target compounds are the most prevalent. At a minimum, all samples should be tested for these target compounds.

Please note in Table 3 that any soil/fill sample having undergone chemical analyses with a dilution factor greater than 1 (see Footnote #3) or uses detection limits greater than the permissible concentrations in Table 3 may be rejected due to potentially elevated concentrations of one or more contaminants.

As a reminder, the environmental chemical concentrations listed in Table 3 are intended only for general industrial land use for the protection of human health and the environment. The listed concentrations are not intended to be applicable or to determine suitable soil/fill material for use at former or active regulated/cleanup sites, public/recreation land use areas, or for worker health & safety protection.

Table 3. Permissible Chemical Concentrations in Fill Material[1]

Chemicals of Concern (COC) Industrial Land Use	Soil/Fill Material Concentration (*mg/kg*)	Source
Total Petroleum Hydrocarbons (TPH) *(EPA Method 8015M/8015B)*		
TPH (Total Petroleum Hydrocarbons)	1,000	Cal-EPA SWRCB[2]
➢ Gasoline (if present)	180	Cal-EPA SWRCB/DTSC[2]
➢ Diesel (if present)	180	Cal-EPA SWRCB/DTSC[2]
Heavy Metals *(EPA Method 6020/7471A)*		
Antimony	150	10 X STLC[3]
Arsenic	8.7	Cal-EPA SWRCB/DTSC[2]
Barium	1000	10 X STLC[3]
Beryllium	7.5	10 X STLC[3]
Cadmium	1.4	Cal-EPA SWRCB/DTSC[2]
Chromium VI (EPA Method 7199/3060A)	2.8	Cal-EPA SWRCB/DTSC[2]
Total Chromium	100	20 X TCLP/STLC[3]
Cobalt	350	Cal-EPA SWRCB/DTSC[2]
Copper	69	Cal-EPA SWRCB/DTSC[2]
Lead	50	10 X STLC[3]
Mercury	0.69	Cal-EPA SWRCB/DTSC[2]
Molybdenum	4.4	Cal-EPA SWRCB/DTSC[2]
Nickel	200	10 X STLC[3]
Selenium	0.23	Cal-EPA SWRCB[2]
Silver	3.75	Cal-EPA SWRCB/DTSC[2]
Thallium	0.95	Cal-EPA SWRCB[2]
Vanadium	240	10 X STLC[3]
Zinc	680	Cal-EPA SWRCB/DTSC[2]
BTEX *(EPA Method 8260)*		
Benzene	0.055	Cal-EPA SWRCB/DTSC[2]
Toluene	56	Cal-EPA SWRCB[2]
Ethylbenzene	3.9	Cal-EPA SWRCB[2]
Xylene	7.2	Cal-EPA SWRCB[2]
Naphthalene	0.17	Cal-EPA SWRCB[2]
Asbestos *(OSHA Method ID-191)*	ND	Laboratory Reporting Limit[4]
Polychlorinated Biphenyls (PCBs) *(EPA 8082)*	ND	Laboratory Reporting Limit[4]/USEPA
Chemicals of Concern[5]		
Volatile Organic Compounds (VOCs) (EPA Method 8260)	ND	Laboratory Reporting Limit[4]
Polynuclear Aromatic Hydrocarbons (PAHs) (EPA Method 8310)	ND	Laboratory Reporting Limit[4]
Semi Volatile Organic Compounds (SVOCs) (EPA Method8270)	ND	Laboratory Reporting Limit[4]
Organochlorine Pesticides (EPA Method 8081A)	ND	Laboratory Reporting Limit[4]
Organophosphorus Pesticides (EPA Method 8141A)	ND	Laboratory Reporting Limit[4]
Chlorinated Herbicides (EPA Method 8151A)	ND	Laboratory Reporting Limit[4]

NOTES:

1. Acceptable Soil/Fill Material concentrations may vary between regulated Sites. Please consult the Port **prior to** analysis of samples to ensure the correct Laboratory Reporting Limits are achieved.
2. Cal-EPA State Water Resources Control Board & Department of Toxic Substances Control Action Goals for Industrial Land Use sites only. The listed concentrations/levels may not be applicable for former or active cleanup sites, public land use, or worker health & safety.
3. Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP), California Code of Regulations (CCR), Title 22, Section 66261.24. Characteristic of Toxicity.
4. Laboratory Reporting Limit is based on reporting limits commonly used by Southern California laboratories (DAF=1). Note that for some regulated Sites (to be determined by the Port) target Laboratory Reporting Limits may need to be provided to the laboratory prior to sampling.
5. Any other suspected constituents or contaminants not shown on this table should be discussed with the Port.

- **Documentation and Retention**

  A written, preferably electronic, record of the sampling protocols, sampling locations, photographs, analytical results, and determination of suitability for industrial land use as fill shall be maintained and made available for staff review, upon request.

- **Authorization for Soil/Fill Concentrations**

  The chemical/contaminant criteria utilized in this document for industrial land use soil/fill material were compiled from a number of current sources, standards, regulations, and/or guidance documents including, but not limited to:

  - Compliance with applicable laws and regulations;
  - California Environmental Protection Agency - State Water Resources Control Board (SWRCB) and Department of Toxic Substances Control (DTSC);
  - Title 40, Code of Federal Regulations (40 CFR)
  - California Health and Safety Code (HSC), Division 20, Chapter 6.5, Hazardous Waste Control Law and California Code of Regulations, Division 4.5, Title 22 CCR;
  - Information Advisory Clean Imported Fill Material (DTSC, October 2001);
  - User's Guide: Derivation and Application of Environmental Screening Levels (SFRWQCB), 2019);
  - Revised Responses to Stakeholder's Comments Memorandum – Former GATX Los Angeles Marine Terminal (LAMT), Bertha 171 through 173, Wilmington, CA (Cleanup and Abatement Order No. R4-2008-006), (LARWQCB Geotracker), January 19, 2010); and
  - Commonly reported Laboratory Reporting Limits (LRLs) and Method Detection Limits (MDLs) by analytical laboratories in Southern California.

Approval of Soil/Fill Material

An Import Material Checklist (Attachment 1), along with a photograph(s) of the source in which it represents, will be submitted for each proposed fill source. All analytical data submitted to determine the quality and suitability of the soil/fill material will be reviewed by qualified Port personnel. Meeting the concentration criteria listed in Table 3 is essential for the fill or excavated material to be considered minimally acceptable for industrial use as general fill within the Port. This guidance document and its contents may be amended or updated to reflect future changes in Port policies and/or regulatory requirements. The Port reserves the right to observe contractor's sampling activities and data; and independently sample, analyze, and/or verify the results of any analytical data submitted for evaluation.

The Port will not be responsible for any construction schedule delays or costs if the soil/fill material is rejected due to incomplete or inaccurate data submittals, exceedances of permissible chemical concentrations (i.e., sample results fail to meet the criteria requirements in this section), and/or the soil/fill material does not comply with regulatory requirements (e.g., material would be classified as hazardous wastes,

SCAQMD Rule 1166 requirements, UST requirements, site-specific plans or directives, etc.). If a third-party (e.g., contractor) brings any soil/fill material into the Port that classifies as hazardous waste (i.e., RCRA and non-RCRA), the third party will be considered the generator of the waste. The third-party (contractor) will be responsible for all costs, including costs incurred by the Port, associated with removal and proper disposal of the waste. Further, the third party will also have signatory responsibility for the hazardous waste uniform manifest.

Acronym List

BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
Cal-EPA	California Environmental Protection Agency
CY	Cubic Yard
DTSC	Department of Toxic Substances Control
ELAP	Environmental Laboratory Accreditation Program
EMD	Environmental Management Division
ESL	Environmental Screening Level
LARWQCB	Los Angeles Regional Water Quality Control Board
LRL	Laboratory Reporting Limit
MHHW	Mean Higher High Water
MDL	Method Detection Limit
NELAP	National Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
POLA	Port of Los Angeles
SCAQMD	South Coast Air Quality Management District
SFRWQCB	San Francisco Regional Water Quality Control Board
STLC	Soluble Threshold Limit Concentration
SVOC	Semi-Volatile Organic Compound
SWRCB	State Water Resources Control Board
TPH	Total Petroleum Hydrocarbons
TTLC	Total threshold Limit Concentration
USEPA	United Stated Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

References

Asbestos - https://ww2.arb.ca.gov/sites/default/files/classic/toxics/atcm/asb2atcm.htm

Benzene - https://wwwn.cdc.gov/TSP/substances/ToxSubstance.aspx?toxid=14

CCR - https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=I77C6B3D0D4BA11DE8879F88E8B0DAAAE&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default)

Clean Imported Fill Material - https://dtsc.ca.gov/information-advisory-clean-imported-fill-material-fact-sheet/

Copper - https://wwwn.cdc.gov/TSP/substances/ToxSubstance.aspx?toxid=37

DTSC - https://www.dtsc.ca.gov/

ELAP - http://www.waterboards.ca.gov/drinking_water/certlic/labs/index.shtml

Generator - http://www.dtsc.ca.gov/HazardousWaste/Generators.cfm

Geotracker - http://geotracker.waterboards.ca.gov/view_documents.asp?global_id=SL377432476&enforcement_id=6041012

Hazardous wastes - https://dtsc.ca.gov/defining-hazardous-waste/

Hazardous waste uniform manifest - https://dtsc.ca.gov/hazardous-waste-manifest-information/

HSC - https://leginfo.legislature.ca.gov/faces/codes_displayexpandedbranch.xhtml?tocCode=HSC&division=20.&title=&part=&chapter=6.5.&article

Laboratory Reporting Limits - https://www.mywaterquality.ca.gov/monitoring_council/collaboration_network/docs/bvanbuuren_jan2012.pdf

Lead - https://wwwn.cdc.gov/TSP/substances/ToxSubstance.aspx?toxid=22

MDLs - http://water.usgs.gov/owq/OFR_99-193/detection.html

NELAP - http://www.nelac-institute.org/

non-RCRA - https://www.law.cornell.edu/regulations/california/22-CCR-Sec-66261-101#

PCBs - https://wwwn.cdc.gov/TSP/substances/ToxSubstance.aspx?toxid=26

RCRA - https://www.epa.gov/rcra/resource-conservation-and-recovery-act-rcra-regulations

Rule 1166 - http://www.aqmd.gov/home/regulations/compliance/rule-1166-site-specific-and-various-locations-soil-mitigation-plan

SFRWQCB - https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.html

STLC - http://www.eurofinsus.com/media/161417/hazardous_waste_regulatory_limits.pdf

SWRCB - http://www.swrcb.ca.gov/

SW-846 - https://www.epa.gov/hw-sw846/sw-846-test-method-8327-and-polyfluoroalkyl-substances-pfas-liquid-chromatographytandem

TPH - https://wwwn.cdc.gov/TSP/ToxFAQs/ToxFAQsDetails.aspx?faqid=423&toxid=75

UST - http://www.waterboards.ca.gov/ust/

20 X TCLP/STLC - https://www.ssalabs.com/wp-content/uploads/2019/06/STLC-TTLC-Regulatory-Limits.pdf

40 CFR - http://www2.epa.gov/laws-regulations/regulations

ATTACHMENT 1

Import Material Checklist

LOS ANGELES HARBOR DEPARTMENT
IMPORT MATERIAL CHECKLIST

GENERAL INFORMATION

POLA Project Name: _____ **Contract Spec No.**: _____

POLA Project Address: _____

Source of Import Material*
Name/Address of Source: _____Unique Identifier (if any): _____
*For stockpiled materials, enter information for the source and staging of the stockpiles.

Origin of Import Material: Quarry:____ Industrial/Commercial: _____ Other: _____

Current/Historical Operations of the Source: _____

SAMPLING INFORMATION

Sampling Firm Name: _____

Firm Address:_____

Sampler's Name(s): _____
Sample Type: Grab from within stockpile(s): ___ In-Situ (Contractor should have a Port-Approved sampling plan): ____

Analytical Laboratory Name/Address: _____

Laboratory Report Number (s): _____

_____

CERTIFICATION

I certify that all information, sampling, and analytical laboratory data and results provided regarding the subject material are representative, accurate, correct, and complete to the best of my knowledge and belief.

_____ Date: _____
Contractor Signature – Licensed Professional

_____ Title: _____
Print Contractor Name – Licensed Professional

Note: Contractor must attach copies of all pertinent information, including approved sampling plan (if applicable), sample location map, laboratory reports, and photographs for checklist verification.

POLA ACCEPTANCE

_____Approved _____Reject (Explain): _____

_____ _____ _____
POLA Authorization Signature Print Name Date