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REMEDIAL EXCAVATION OF IMPACTED SOILS AND REQUEST FOR CASE CLOSURE



*View of Area A Excavation Looking
Southwest*

SUBJECT SITE:
274 KEARNEY STREET EXTENSION
WATSONVILLE, CA 95076

*Santa Cruz County
Assessor Parcel Numbers (APNs):
018-122-11, 018-291-31 &
018-291-38*

PROJECT: 2X513.D

NOVEMBER 20, 2015

For Submittal to:
**SANTA CRUZ COUNTY ENVIRONMENTAL
HEALTH SERVICES (SCC-EHS)**

*SITE MITIGATION
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1.0 EXECUTIVE SUMMARY

This summary report documents excavation and confirmation sampling tasks associated with the remedial excavation of relic chemical impacts in shallow soil. The chemical impacts were recently discovered (and delineated) during a property transaction screening of shallow soil and groundwater at the Site¹, which attributed the impacts to long-term, industrial land use as a food processing plant. The property owner has entered into a *Voluntary Cleanup Agreement (VCA)* with Santa Cruz County Environmental Health Services (SCC-EHS) in order to complete the remedial soil removal effort under agency oversight and to obtain a *No Further Action* letter (i.e., case closure). The *No Further Action* will require a deed restriction designed to: 1) provide disclosure that limited, residual contaminants remain at the site, but at levels that are below health-based thresholds for commercial land use, and 2) describe soil management notification requirements for subgrade development activities.

The subject site is located in an industrially zoned area of Watsonville and the property owner plans to redevelop the property for commercial land use. Appendix A presents an overview of the recently completed, Phase II drilling and testing program that delineated relic chemical impacts discovered during a property transaction screening of site soil and groundwater.

The remedial excavation tasks described in this report were initially proposed in a *Work Plan*² that was approved by the SCC-EHS³. The proposed remedial excavation work targeted removal of contaminants at three (3) locations where relic concentrations in shallow soils exceeded, risk-based Tier 1 *Environmental Screening Levels (ESLs)*⁴. The goal of the remedial excavation work was designed to cost-

¹ Weber, Hayes and Associates (WHA) report: *Phase I/II Environmental Site Assessment for an Industrial Property, 274 Kearney Street Extension, Watsonville*, dated June 25, 2015.

- Hyperlink: http://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6191583991/T10000007750.PDF

² WHA Report: *Work Plan for Remedial Excavation of Impacted Soils for Unrestricted Land-Use*, dated July 21, 2015.

- Hyperlink: http://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2715647101/T10000007750.PDF

WHA email: *Response to SCC-EHS Comments*, dated October 9, 2015.

- Hyperlink: http://geotracker.waterboards.ca.gov/regulators/deliverable_documents/3108930826/274KearneyStExt.10.08.15%20through%2010.09.15.Response%20to%20Comments.pdf

³ SCC-EHS conditional approval of Work Plan: *Response to Phase I/II ESA and Remedial Investigation Work Plan, Farmers Cold Storage (GeoTracker Global ID T10000007750), 274 Kearney Street, Watsonville*, dated October 8, 2015

- Hyperlink: http://geotracker.waterboards.ca.gov/regulators/deliverable_documents/2769961297/274KearneyStExt.10.08.15.RptWpRvwLtrr.pdf

SCC-EHS email: *Workplan Approval to Proceed (acknowledgment Response to Comments)*, dated October 13, 2015.

- Hyperlink: http://geotracker.waterboards.ca.gov/regulators/deliverable_documents/2551772177/274KearneyStExt.10.13.15.WP%20Approval.pdf

⁴: *Environmental Screening Levels (ESLs): From Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* (Interim Final, November 2007 - revised February 2013) , California Regional Water Quality Control Board – San

effectively remove accessible soils that were impacted by *contaminants of concern*⁵, and at a minimum remove to below Tier 1, *commercial* land use thresholds. The lateral and vertical limits of the three locations are depicted as Areas A, B and C, as shown on Figure 2.

1.1 COMPLETED REMEDIAL EXCAVATIONS

During the period between October 15 and 29, 2015, approximately 282 yd³ (386 tons) of impacted soils were excavated from three localized areas (Areas A, B & C) by a Hazardous Materials Certified contractor. All removed soil was properly disposed of at an off-site facility (Marina Regional Waste Management District's Class III Landfill in Marina, California). The completed excavation areas are shown on Figures 2 and 3, along with confirmation soil sampling results that defined the base and sidewalls limits of each excavation. The excavation limits were defined by laboratory results of soil samples collected either: 1) during the current round of excavation sampling, or 2) from the recently collected Phase II property transaction sampling. Excavation limits sampling intervals were designed to satisfy confirmation criteria established by SCC-EHS⁶.

The vertical and lateral limits of each excavation area were initially pre-defined to low-level concentrations of the Site's *Contaminants of Concern (COCs)* via step-out sampling at approximate 20-foot intervals. The initial sampling results showed that no COCs exceeded *Residential* land use screening thresholds (Tier 1 ESLs) beyond a depth of 4 feet below the ground surface (bgs), with the exception of a small portion of Area A (discussed further below). Specifically:

- » **Area A - Lead and Hexavalent Chromium (~145 yd³):** Approximately 145 yd³ of soils containing elevated concentrations of lead (ranging from 83-230 mg/Kg) and hexavalent chromium (Cr-VI at 17 mg/Kg) were removed from this area. **Laboratory results of the 17 confirmation soil samples collected at the excavation limits (base and sidewall) contained concentrations of lead ranged in concentration between 6.8 and 120 mg/Kg, all of which are below the commercial land use screening threshold** (see Figures 2 & 3, and Table 1).
 - Note: The residential and commercial ESLs for lead are 80 and 320 mg/Kg, respectively, and for Cr-VI are 8/8 mg/kg [note: screening thresholds for Cr-IV are based on "ecological risk" concerns; the residential human health risk (direct exposure) for Cr-VI is 21 mg/kg, see Table 1 for details].

Francisco Bay Region. The ESLs are intended to provide guidance on whether remediation of detected contamination is warranted.

⁵: Lead, hexavalent chromium (Cr-VI), polycyclic aromatic hydrocarbons (PAHs), and/or total petroleum hydrocarbons as motor oil (TPH-mo).

⁶: Santa Cruz County Health Services Agency (Environmental Health) guidelines: *Site Mitigation Program Standards (Confirmation Sampling and Profiling for Excavations)*, revised August-2010; < <http://scceh.com/eh/hm/HM08100.pdf> >

- » **Area B - Lead and Polycyclic Aromatic Hydrocarbons (PAHs) (~76 yd³):** Approximately 76 yd³ of soils containing elevated concentrations of relic lead (ranging from 190-230 mg/Kg) and polynuclear aromatics (PAHs, calculated as a “benzo[a]pyrene (BaP) equivalent” value of 0.238 mg/Kg) were notably higher than other soil sample results and therefore excavated and disposed of off-site (see Figure 2 and Table 2). After excavation, the calculated, site-wide 95% UCL for BaP was reduced down to 0.073 mg/Kg (see Appendix A for 95% UCL calculation – post remedial action).

- » **Area C – TPH Motor Oil (~61 yd³):** Approximately 61 yd³ of soils containing slightly elevated concentrations of Total Petroleum Hydrocarbons in the range of motor oil (i.e., TPH-motor oil) were removed to below residential land use based screening threshold ESLs (see Figure 2 and Table 3).

1.2 CONCLUSIONS & RECOMMENDATIONS

The subject site is located in an industrially zoned area of Watsonville and the property owner plans to redevelop the property for commercial land use. Remedial excavation of accessible, impacted soils detected at the Site (Area’s A, B and C, see Figure 2) have reduced site-specific, contaminants of concern concentrations to below commercial land use screening thresholds (i.e., Tier 1 Commercial/Industrial ESLs).

When making human/ecological health and safety risk management decisions, SCC-EHS defers to the most conservative of multiple screening thresholds (concentrations) established by various State and Federal guidelines. Risk-based screening thresholds vary based on land use (i.e. residential vs. commercial/ industrial land-use scenarios). As required by SCC-EHS, test results of soil samples collected at the Site’s remedial excavation limits were compared with residential and/or commercial/industrial thresholds, specifically: 1) the Water Board’s Tier 1 ESLs, 2) the Federal USEPA Region 9 *Regional Screening Levels (RSLs)*, and 3) the State DTSC Human and Ecological Risk Office (HERO) *Human Health Risk Assessment “Note 3”* screening values. **The remedial excavations results show that the identified chemicals of concern have been reduced to concentrations below applicable commercial/industrial screening levels (see Tables 1 through 3, and Appendix A Tables).**

As required by the SCC-EHS, because some inaccessible contaminant concentrations remain at the Site at levels exceeding residential land use threshold limits, a deed restriction will be required in order to provide disclosure that limited, residual contaminants remain at the site (albeit at levels that are below health-based thresholds for commercial land use).

Based on the collected data, we request that the SCC-EHS issue a letter of case closure, once the environmental deed restriction language has been approved and recorded.

2.0 PURPOSE AND SCOPE OF WORK

This summary report documents excavation and confirmation sampling tasks associated with the remedial excavation of relic chemical impacts in shallow soil. The chemical impacts were recently discovered (and delineated) during a property transaction screening of shallow soil and groundwater at the Site, which attributed the impacts to long-term, industrial land use as a food processing plant. The property owner has entered into a *Voluntary Cleanup Agreement (VCA)* with Santa Cruz County Environmental Health Services (SCC-EHS) in order to complete the remedial soil removal effort under agency oversight and to obtain a No Further Action letter (i.e., case closure). Remedial excavation tasks were described in a *Work Plan* that was approved by the Santa Cruz County Environmental Health Services (SCC-EHS).

A Site description and background of previously completed environmental assessment work is presented as Appendix A for reference.

3.0 REMEDIAL EXCAVATION OF IMPACTED SOILS

3.1 PRE-DEFINED EXCAVATION AREAS

The vertical and lateral limits of each excavation area were initially pre-defined to low-level concentrations of the Site's *Contaminants of Concern (COCs)* via step-out sampling at approximate 20-foot intervals. The initial sampling results showed that no *COCs* exceeded Residential land use screening thresholds (Tier 1 ESLs) beyond a depth of 4 feet below the ground surface (bgs), with the exception of a small portion of Area A (discussed further below). Specifically:

- » **Area A (~145 yd³)** – Approximately 145 yd³ of soils containing slightly elevated concentrations of lead (pre-defined concentration ranging of 83-230 mg/Kg) and Cr VI (17 mg/Kg) above conservative Residential ESLs were removed from this area (see Figures 2 & 3, and Table 1). The southern extent of the area impacted with lead was not fully pre-defined upon excavation mobilization (see Figure 3), therefore, a subset of Area A was excavated to depths of 4 and 6 feet bgs to remediate elevated lead detected at 2 and 4 feet bgs, respectively. Confirmation soil sampling within this sub-set of Area A (as directed by SCC-EHS staff) that revealed elevated concentrations of lead guided the removal of additional soils until confirmation soil sampling confirmed concentrations of lead were removed to concentrations that were slightly above or below conservative Residential ESLs.
- » **Area B (~76 yd³)** – Approximately 76 yd³ of soils containing slightly elevated concentrations of lead (pre-defined concentration range of 190-230 mg/Kg) and a calculated benzo[a]pyrene (BaP) equivalent value (0.238 mg/Kg) above conservative Residential ESLs that was notably higher than all other site data were removed from this area (see Figure 2 and Table 2).

- » **Area C (~61 yd³)** – Approximately 61 yd³ of soils containing slightly elevated concentrations of TPH-motor oil (pre-defined concentration of 130 mg/Kg) above conservative Residential ESLs was removed from this area (see Figure 2 and Table 3).

3.2 PRE-FIELD TASKS

Pre remedial excavation tasks included:

- » Preparation of a Site Health & Safety Plan (HASP) in accordance with State and Federal hazardous waste operations regulations (*California Code of Regulations, Title 8, Section 5192 and 29 Code of Federal Regulations 1910.120*).
- » Obtain SCC-EHS concurrence and approval of a *Work Plan*, and providing them with a minimum of 5 days advance notice of remedial excavation fieldwork.
- » Obtain a Grading Permit through the *City of Watsonville Public Works Department* (approved permit presented in Appendix B).
- » Prior to beginning excavation activities, *Underground Service Alert (USA)* was contacted at least 48 hours in advance to identify the location of utilities that enter the property. All proposed excavation areas were clearly marked with white paint or surveyors flagging as required by USA.

3.3 FIELDWORK TASKS

The succeeding sections summarize fieldwork tasks that were completed during the remedial excavation. Field notes and photo sheets documenting fieldwork activities are presented in Appendix B

3.3.1 Excavation

A total of approximately 282 yd³ of impacted soil from three localized areas (Areas A, B & C) were removed by Randazzo Enterprises, Inc. (a Haz-certified excavation contractor) between October 15 and 29, 2015 under the direct supervision of Weber, Hayes and Associates personnel. Excavation areas, depths and associated volumes are described in Section 3.1 of this report, and shown on Figures 2 & 3. The soil was removed using standard earthmoving equipment (i.e., excavator / backhoe and a front-end loader). Open excavations were secured with delineators and caution tape during the course of fieldwork. We note that the entire Site is also fenced.

3.3.2 Dust Control

The following dust control measures were employed to protect on-Site and off-site receptors from nuisance dust. *Note:* we completed a *Dust Hazard Evaluation*⁷ with respect to site-specific worst case concentrations of hex-chrome, PAHs and lead detected in soil, and concluded that potential dust generated during remedial excavation would not pose an inhalation health risk for on-site workers or the public. Therefore, no dust monitoring was conducted during the course of excavation activities.

Dust suppression was performed by lightly spraying or misting the work areas (i.e., excavation and soil handling areas) with water. Misting was also used on soil placed in the transport trucks as needed. During soil load-out activities, the soils were covered with fabric tarp to prevent soil from spilling out of the truck during transport to the disposal facility.

3.3.3 Soil Management, Stockpiling and Profiling

Excavated soils were segregated by Area (A through C), with concentrations of lead being considered the driver for requiring potential Class II disposal. Area A and B soils having elevated concentrations of lead were stockpiled together and Area C soils having insignificant concentrations of lead were stockpiled separately. All stockpiled soils were placed on an impervious surface (concrete slab) and were covered with plastic sheeting at all times in order to avoid inadvertent dust nuisance or potential airborne particulate hazard. In addition, the perimeter of the soil stockpiles were lined with straw wattles as required by the City of Watsonville grading permit inspector.

Once all excavated soils were stockpiled, a stockpile soil sampling strategy was employed to satisfy specific landfill acceptance criteria for the following landfill:

- » Class III landfill disposal facility: Monterey Regional Waste Management District's Class III landfill (Marina, CA)

Specifically, the following soil stockpile samples were collected in accordance with Marina Landfills *Contaminated Soil Testing Requirements*:

- » Area A & B Soils (~221 yd³) – five (5) discrete soil samples (100 to 500 yd³ landfill sampling criteria).
- » Area C Soils (~61 yd³) – three (3) discrete soil samples (less than 100 yd³ landfill sampling criteria).

Collected soil samples were submitted to BC Laboratories, Inc. (CA ELAP #1186) for analysis of the following Area Specific COCs:

⁷ Weber, Hayes and Associates: *Response to Comments (Re: SCCEHS Conditional Work Plan Approval Letter dated October 8, 2015)*, email dated October 9, 2015

» Area A & B Soils

- Lead by EPA Method 6061B
- Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270-SIM
- Hexavalent Chromium by EPA Method 7199

» Area C Soils:

- Purgeable Aromatics and Total Petroleum Hydrocarbons (Fuel Fingerprint) by Luft/FFP Method
- Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270-SIM

Laboratory reports are included in Appendix D.

Based on sample analytical results presented to Monterey Regional Waste Management District's Class III landfill, the soils were accepted for disposal on October 26, 2015. A *Generator Waste Profile* and Landfill Soil Acceptance confirmation email are included in Appendix C.

3.3.4 Soil Off-Hauling

On October 29 and 30, 2015, all stockpiled were transported to Marina Landfill via 15 yard capacity end dump trucks operated by Randazzo Enterprises Inc. and McRae Trucking. A total of 386.11 tons of soil was off-hauled and properly disposed of. Documentation of proper soil disposal is included as Appendix C and includes a summary table of weigh tickets and tonnage, and landfill receipts.

3.3.5 Area A Confirmation Soil Sampling

As noted in Section 3.1, Areas B and C were pre-defined to the satisfaction of SCC-EHS *Site Mitigation Program Standards – Confirmation Sampling and Profiling for Excavations* (i.e., 1 sidewall sample for every 20 lateral feet of excavation and 1 base sample for every 400 square feet). **No confirmation soil sampling was conducted for Areas B and C as previous sampling had completely defined the vertical and lateral limits of soil impacts above Tier 1 Residential ESLs – remedial excavation limits extended to these pre-defined limits.** However, confirmation sidewall and base samples were collected under direction from SCC-EHS staff at Area A along the southern property boundary where lead concentrations were previously undefined. Specifically:

Confirmation soil samples were collected in accordance with our *Field Methodology for Shallow Soil Sampling* (see Appendix B) and analyzed by a State-certified laboratory for Lead by EPA Method 6010B. The laboratory reports are included in Appendix D, and are presented on Figure 3 and Table 1.

- » A sub-section of Area A (approximately 15 by 10 by 6 foot deep) was advanced to remove previously detected impacts at sample location SO-3k (lead detected at 140 and 120 mg/kg at 2 and 4 feet bgs, respectively) and SO-3m (lead detected at 150 mg/kg at 2 feet bgs).

Confirmation soil samples were collected and analyzed to confirm removal of lead impacts to concentrations below Residential ESLs as follows (see Table 1 and Figure 3):

- **North Sidewall (CA-1a)** collected at depths of 2 and 4 feet bgs revealed concentrations of lead at 6.3 and 7.9 mg/kg, respectively.
- **East Sidewall (CA-2a)** collected at depths of 2 and 4 feet bgs revealed concentrations of lead at 320 and 83 mg/kg, respectively.
- **South Sidewall (CA-3a)** collected at depths of 2 and 4 feet bgs revealed concentrations of lead at 49 and 93 mg/kg, respectively.
- **Base (CA-BASE)** collected at a depth of 6 feet bgs at the center of this sub-section of Area A revealed a concentration of lead at 7.1 mg/kg.

Based on the elevated concentration of lead (i.e., 320 mg/kg; detected at the Commercial ESL set at 320 mg/kg) detected along the eastern sidewall (sample location CA-2a-d2), the excavation was advanced an additional 5 feet east to a depth of 4 feet bgs within the 10 foot wide excavation footprint in order to remove the elevated concentration. Sidewall soil sampling following additional soil removal revealed the following:

- **East Sidewall (CA-2b)** collected at depths of 2 and 4 feet bgs revealed concentrations of lead at 980 and 48 mg/kg, respectively.

Based on the elevated concentration of lead (i.e., 980 mg/kg) detected along the eastern sidewall (sample location CA-2b-d2), additional samples were collected at the direction of SCC-EHS staff as follows in an effort to pre-define the limits of the apparent localized lead impacts:

- **North Sidewall (CA-1b)** collected at a depth of 2 feet bgs revealed a concentration of lead at 6.6 mg/kg.
- **East Sidewall (CA-2c)** collected at a depth of 2 feet bgs revealed a concentration of lead at 24 mg/kg. (Note: this sample was collected by advancing a hand-auger horizontally through the eastern sidewall to the target sample location. The sample was then obtained via a slide-hammer sampler equipped with a 5 foot extension).
- **South Sidewall (CA-3b)** collected at a depth of 2 feet bgs revealed a concentration of lead at 7.7 mg/kg.

Based on these results, the excavation was advanced an additional 5 feet east to a depth of 4 feet bgs within the 10 foot wide excavation footprint in order to remove the elevated concentration.

- » Confirmation soil sampling along the southern extent of Area A excavation (advanced to within a few feet of the property line) revealed:

- South Sidewall of larger Area A excavation footprint (CA-4a) collected at depths of 2 and 4 feet bgs revealed concentrations of lead at 120 and 24 mg/kg, respectively.

3.3.6 Area A Soils Inaccessible for Removal

The following slightly elevated residual lead impacts were detected in confirmation soil samples collected along the southern extent of Area A following soil removal:

- » CA-4a at 2 feet bgs detected at 120 mg/kg
- » CA-3a at 4 feet bgs detected at 93 mg/kg

Both residual concentrations are above the conservative Residential ESL set at 80 mg/kg, but well below the Commercial ESL set at 320 mg/kg. Additional soil removal at these locations was not conducted over concerns that further advancement would create unstable slope conditions and exacerbate erosion along the southern property line (located within feet of the southern extent of Area A excavation with soil sloping towards the adjacent property – see Figure 3).

3.3.7 Excavation Backfilling

On October 29 and 30, 2015, Area A, B and C remedial excavations were backfilled with virgin quarry material (i.e., fill sand) quarried at, and imported from Don Chapin Company's Sand Pit in Marina, CA. The fill sand was emplaced in the excavation cavities and compacted with a compactor roller in 1.5-2 foot lifts to match pre-existing grade elevation.

4.0 CONCLUSIONS

The subject site is located in an industrially zoned area of Watsonville and the property owner plans to redevelop the property for commercial land use. Remedial excavation of accessible, impacted soils detected at the Site (Area's A, B and C, see Figure 2) have reduced site-specific, contaminants of concern concentrations to below commercial land use screening thresholds (i.e., Tier 1 Commercial/Industrial ESLs).

When making human/ecological health and safety risk management decisions, SCC-EHS defers to the most conservative of multiple screening thresholds (concentrations) established by various State and Federal guidelines. Risk-based screening thresholds vary based on land use (i.e. residential vs. commercial/ industrial land-use scenarios). As required by SCC-EHS, test results of soil samples collected at the Site's remedial excavation limits were compared with residential and/or commercial/industrial thresholds, specifically: 1) the Water Board's Tier 1 ESLs, 2) the Federal USEPA Region 9 Regional Screening Levels (RSLs), and 3) the State DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment "Note 3" screening values. The remedial excavations results

show that the identified chemicals of concern have been reduced to concentrations below applicable commercial/industrial screening levels (see Tables 1 through 3, and Appendix A Tables). Specifically:

- » **Hexavalent Chromium (Cr VI):** Residual concentrations of Cr VI range from 1.3 to 3.0 mg/kg. While these concentrations are well below the Residential ESL set at 8.0 mg/kg, they exceed the Residential RSL set at 0.3 mg/kg, yet are below the Commercial RSL set at 6.3 mg/kg.
- » **Polycyclic Aromatic Hydrocarbons (PAHs):** Residual concentrations of PAHs expressed as Benzo(a)pyrene equivalent exceeding Residential ESLs and/or RSLs (set at 0.038 and 0.016 mg/kg, respectively) range from 0.023 to 0.096 mg/kg. These residual concentrations are well below the Commercial ESLs/RSLs set at 0.13 and 0.29 mg/kg, respectively.
- » **Lead:** Residual concentrations of lead above Residential ESLs (set at 80 mg/kg) range from 83 to 120 mg/kg.

5.0 RECOMMENDATIONS

As required by the SCC-EHS, because some inaccessible contaminant concentrations remain at the Site at levels exceeding residential land use threshold limits, a deed restriction will be required in order to provide disclosure that limited, residual contaminants remain at the site (albeit at levels that are below health-based thresholds for commercial land use).

Based on the collected data, we request that the SCC-EHS issue a letter of case closure, once the environmental deed restriction language has been approved and recorded.

6.0 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic and engineering principles and practices. This warranty is in lieu of all others, either express or implied. The analysis and conclusions in this report are based on sampling and testing which are necessarily limited. Additional data from future work may lead to modification of the opinions expressed herein.

All work related to this investigation and remediation at this Site is done under the direct supervision of a Professional Geologist or Engineer, registered in California, and experienced in environmental assessment and remediation.

Thank you for the opportunity to participate in the assessment of this site. If you have any questions regarding this report, or any aspect of this project, please contact us at (831) 722-3580.

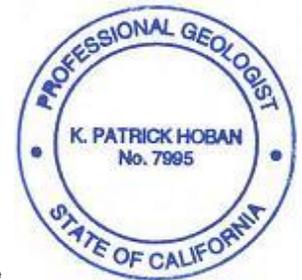
Respectfully submitted,

WEBER, HAYES AND ASSOCIATES
A California Corporation



By: _____

Jered Chaney
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And: _____

Pat Hoban
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Costa Mesa, CA 92626

7.0 REFERENCES

ENVIRONMENTAL ASSESSMENT STANDARDS AND STATE/LOCAL INFORMATION SYSTEMS

State Water Resources Control Board Online “GeoTracker” Database, www.geotracker.swrcb.ca.gov, 2015.

California State Department of Toxic Substances Control Online “EnviroStor” Database, www.envirostor.dtsc.ca.gov/public/, 2015.

Santa Cruz County Geographic Information Systems (GIS) website, <http://gis.co.santa-cruz.ca.us/PublicGISWeb/>, 2015.

REGIONAL MAPS AND GEOLOGIC REFERENCES

The National Geologic Map Database, http://ngmdb.usgs.gov/ngmdb/ngmdb_home.html, 2015.

Geologic Map of Santa Cruz County, California, E. E. Brabb, dated 1997.

CONTAMINANT STUDIES

Report to Congress: Wastes from the Combustion of Fossil Fuels: Volume 2 – Methods, Findings, and Recommendations (EPA 530-R-99-010), USEPA: Office of Solid Waste and Emergency Response, dated March 1999.

Characterization of Coal Combustion Residues from Electric Utilities – Leaching and Characterization Data (EPA-600/R-09/151), Prepared for USEPA Office of Research and Development: National Risk Management Research Laboratory, dated December 2009.

SITE RECORDS AND REPORTS

Phase I Environmental Site Assessment: Farmers Cold Storage, Clayton Environmental Consultants, dated September 8, 1995.

Results of Regulatory Agency File Review and Phase II Assessment at 274 Kearney Street Extension in Watsonville, California, Clayton Environmental Consultants, dated January 15, 1996.

Re: Phase I and Phase II Reports, City of Watsonville Fire Department, dated February 13, 1996.

SLIC: 274 Kearney Street Extension, Watsonville, Farmers Cold Storage; Ethylene Glycol Release, California Regional Water Quality Control Board – Central Coast Region, dated March 15, 1996.

Soil and Groundwater Investigation Report, McLaren Hart, dated May 7, 1996.

SLIC: 274 Kearney Street Extension, Watsonville, Farmers Cold Storage; Ethylene Glycol in Ground Water, California Regional Water Quality Control Board – Central Coast Region, dated June 25, 1996.

Phase I Environmental Site Assessment, Sierra Delta Consultants LLC, dated January 11, 2011.

Phase I/II Environmental Site Assessment, Weber, Hayes and Associates, dated June 30, 2015.

Work Plan for Remedial Excavation of Impacted Soils for Unrestricted Land-Use, Weber, Hayes and Associates, dated July 21, 2015.

NEARBY PROPERTY RECORDS AND REPORTS

Confirmation Groundwater Monitoring Report, 352 Ford Street, Weber, Hayes and Associates, dated February 12, 2004.

Phase I Environmental Site Assessment for a Commercial Property: Terminal Freezers: 331 & 345 Ford Street & 331, 555, & 713 Walker Street, Watsonville, California, Weber, Hayes and Associates, dated June 9, 2009.

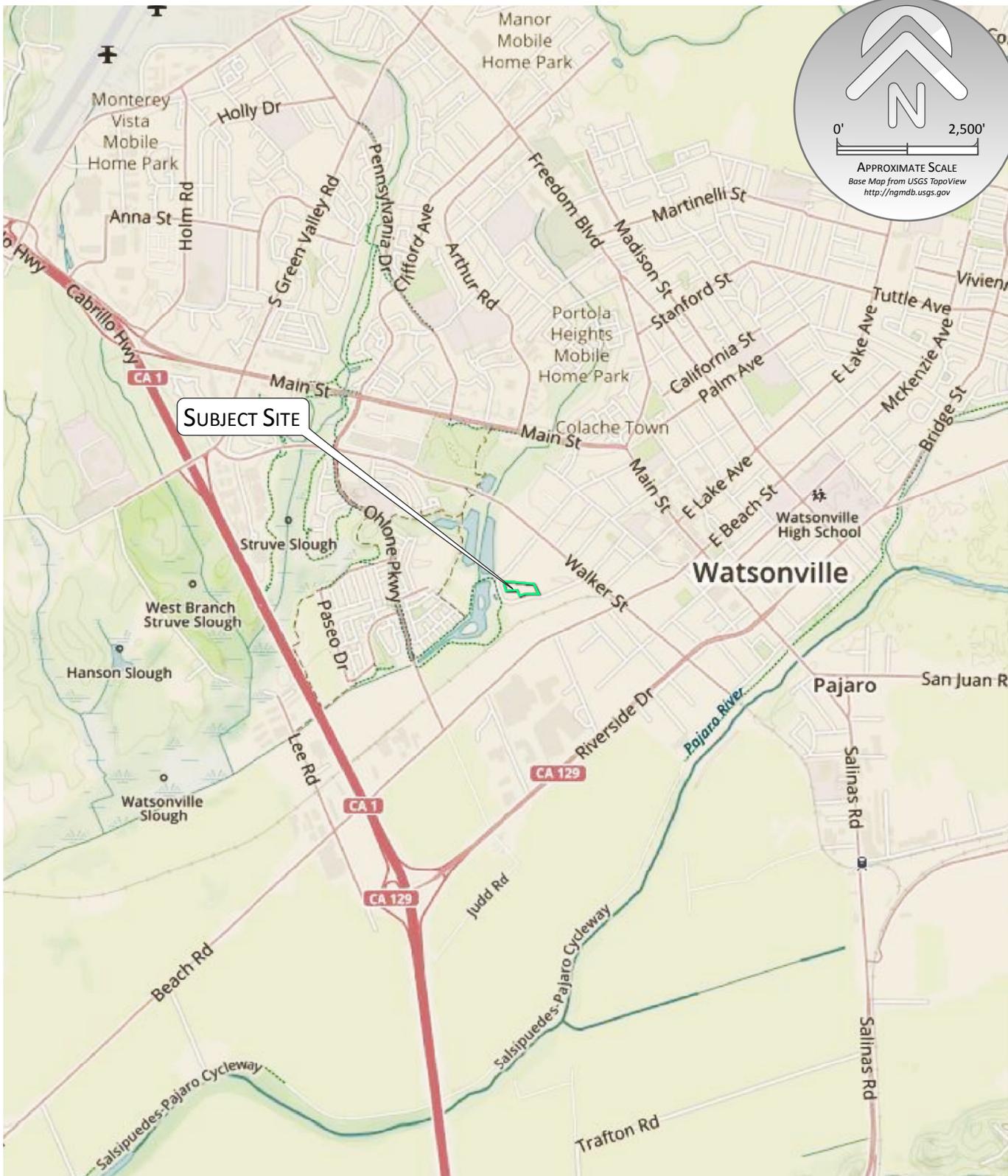
Results of: 1. Limited Remedial Excavation of Shallow Impacted Soils; and 2. Site-Wide Soil Sampling to Determine Vanadium Background Concentrations in Shallow Soil: Terminal Freezers, Weber, Hayes and Associates, dated January 4, 2011.

FIGURES

FIGURE 1: *Location Map*

FIGURE 2: *Remedial Excavation Areas*

FIGURE 3: *Area A Remedial Excavation Detail*



WEBER, HAYES & ASSOCIATES
 Hydrogeology and Environmental Engineering
 120 Westgate Drive, Watsonville, CA
 831.722.3580 / www.weber-hayes.com

LOCATION MAP

SITE: FORMER FARMERS COLD STORAGE
 ADDRESS: 274 KEARNEY ST, WATSONVILLE, CA

DATE: JUNE 2015

REVISIONS/NOTES:

FIGURE
1
 Project
 2X513

EXPLANATION

DP-1 Summary of soil analytical results for samples collected on April 7, 2015.

SB-2 Summary of soil analytical results for samples collected on April 7, 2015.

SO-1a Additional Step-Out Soil Boring Locations
Soil sampling at 2 and 4 ft bgs, collected on May 14 and June 15, 2015.

CA-1a Excavation Confirmation Soil Sample Locations
collected on Oct. 15, 19, & 22, 2015.

- Areas for Remedial Excavation (pre-defined) of shallow soils to 4 ft bgs
- Areas for Remedial Excavation (not pre-defined) of shallow soils to 6 ft bgs
- Areas for Remedial Excavation (not pre-defined) of shallow soils to 4 ft bgs

NA = not analyzed
 ND = analyte not detected above the laboratory Method Detection Limit (MDL).
 J = Laboratory reported an estimated value (i.e. a detection at the lower end of the laboratory's analytical capability).

- Approximate fence line
- Approximate Parcel Boundaries

TARGET AREA LOCATOR



DP-4

Depth:	1.5'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	NA
Diesel:	6.8 J	NA
Motor/Hydraulic Oil:	33	NA
All Other Ranges:	ND	NA
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	0.238	0.001
POLYCHLORINATED BIPHENYLS (PCBS)		
All PCBs:	ND	NA
METALS		
Arsenic:	5.4	NA
Lead:	230	6.4
Mercury:	0.078 J	NA
Chromium IV:	1.4	NA

SB-4

Depth:	1.5'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	NA
Diesel:	14	NA
Motor/Hydraulic Oil:	90	NA
All Other Ranges:	ND	NA
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	NA	NA
POLYCHLORINATED BIPHENYLS (PCBS)		
All PCBs:	ND	NA
METALS		
Arsenic:	7.5	NA
Lead:	230	5.3
Mercury:	0.04 J	NA
Chromium IV:	17	2.6

SB-3

Depth:	2'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	ND
Diesel:	15	ND
Motor/Hydraulic Oil:	130	ND
All Other Ranges:	ND	ND
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	0.067	NA
POLYCHLORINATED BIPHENYLS (PCBS)		
PCB 1260:	0.0046J	NA
All Other PCBs:	ND	NA
METALS		
Arsenic:	2.8	NA
Lead:	63	NA
Mercury:	ND	NA
Chromium IV:	0.71 J	NA

FORMER COLD STORAGE BUILDING No. 1
 DEMOLISHED IN FEBRUARY-MARCH 2015

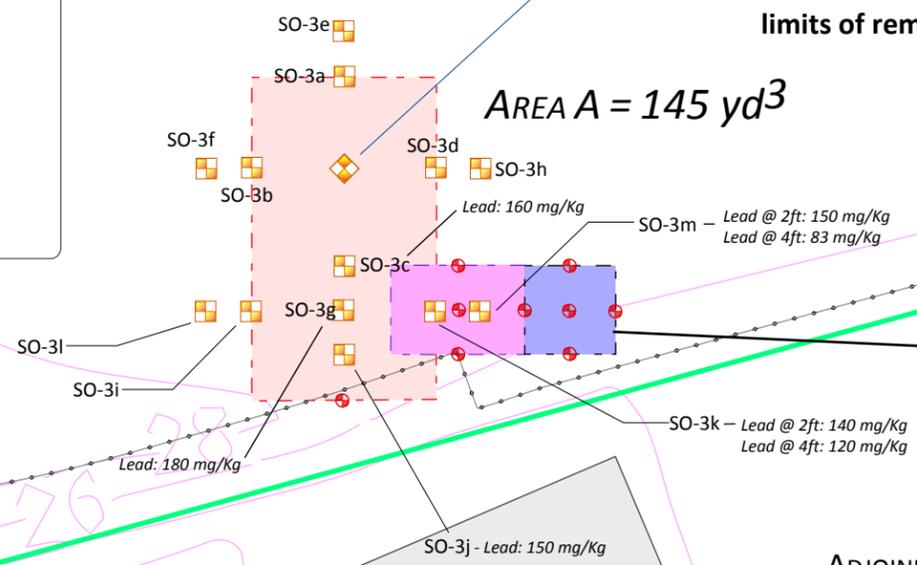
AREA B = 76 yd³

AREA C = 61 yd³

NOTE: Results only shown for soil samples with concentrations of Contaminants of Concern that exceed Tier 1 Residential ESLs. All other sample locations are below ESLs, and pre-defined the limits of remedial excavations.

AREA A = 145 yd³

NOTE: Results of Area A confirmation soil sampling following remedial excavation are shown in detail on Figure 3.



ADJOINING PROPERTY
 284 KEARNEY STREET EXTENSION
 APN: 018-291-37

FORMER COLD STORAGE BUILDING No. 2
 TO BE DEMOLISHED

FIGURE 2
 Project 2X513.C

REMEDIAL EXCAVATION AREAS

SITE: FORMER FARMERS COLD STORAGE
 ADDRESS: 274 KEARNEY STREET, WATSONVILLE

DATE: NOVEMBER 2015 REVISIONS/NOTES:

EXPLANATION

SB-2 Summary of soil analytical results for samples collected on April 7, 2015.

SO-1a Additional Step-Out Soil Boring Locations
Soil sampling at 2 and 4 ft bgs, collected on May 14 and June 15, 2015.

CA-1a Excavation Confirmation Soil Sample Locations
collected on Oct. 15, 19, & 22, 2015.

Areas for Remedial Excavation (pre-defined) of shallow soils to 4 ft bgs

Areas for Remedial Excavation (not pre-defined) of shallow soils to 6 ft bgs

Areas for Remedial Excavation (not pre-defined) of shallow soils to 4 ft bgs

NA = not analyzed

ND = analyte not detected above the laboratory Method Detection Limit (MDL).

J = Laboratory reported an estimated value (i.e. a detection at the lower end of the laboratory's analytical capability).

Approximate fence line

Approximate Parcel Boundaries

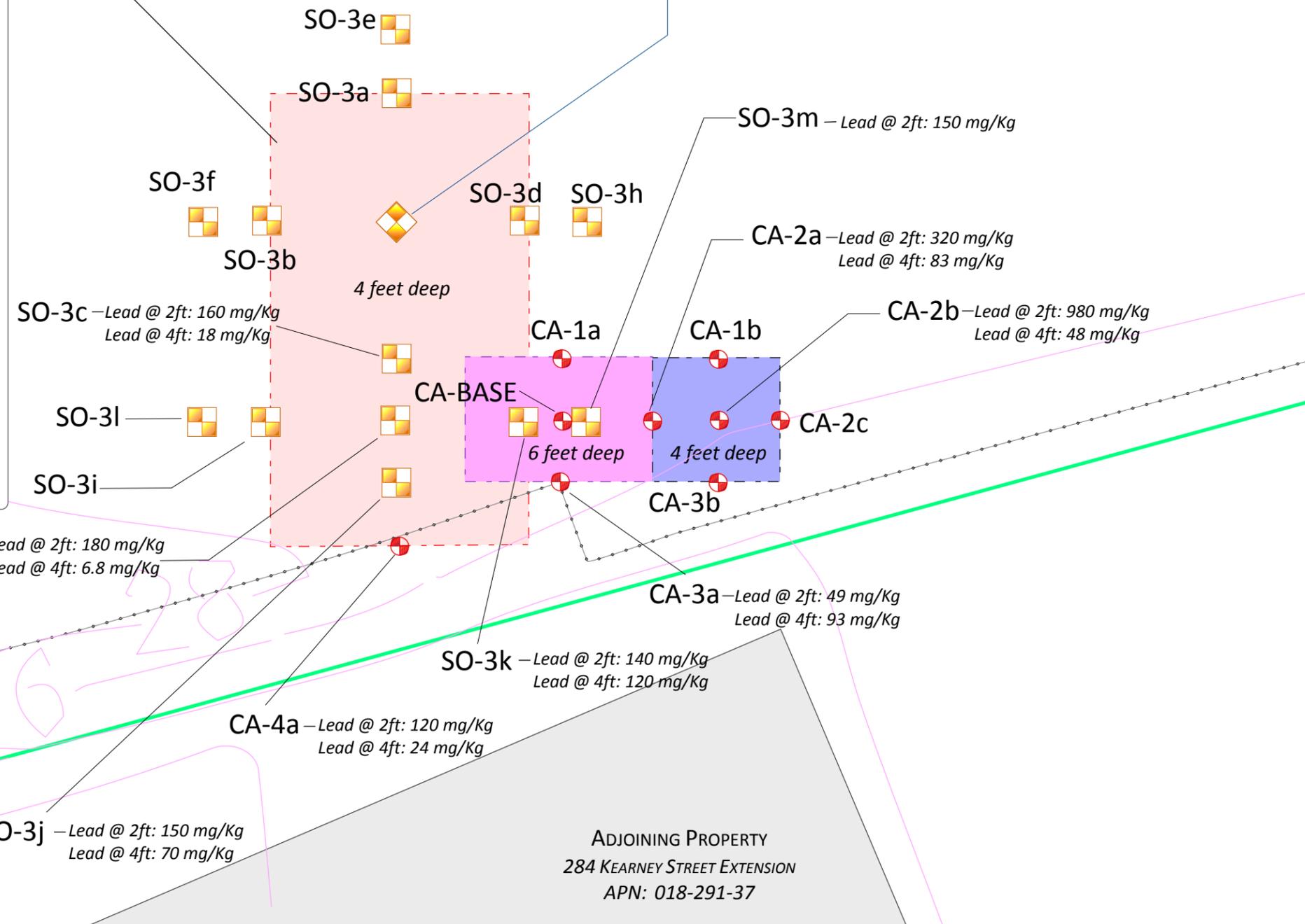
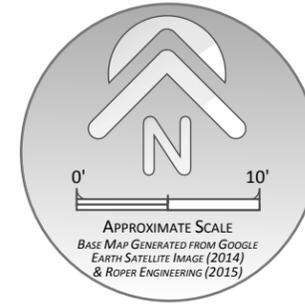
TARGET AREA LOCATOR



NOTE: Sample locations with no results shown indicate Lead was not detected above Tier 1 Residential ESLs.

AREA A = 145 yd³

		SB-4	
		1.5'	4'
TOTAL PETROLEUM HYDROCARBONS			
Gasoline:	ND	NA	
Diesel:	14	NA	
Motor/Hydraulic Oil:	90	NA	
All Other Ranges:	ND	NA	
SEMI-VOLATILE ORGANIC COMPOUNDS			
BaP Equivalent:	NA	NA	
POLYCHLORINATED BIPHENYLS (PCBS)			
All PCBs:	ND	NA	
METALS			
Arsenic:	7.5	NA	
Lead:	230	5.3	
Mercury:	0.04 J	NA	
Chromium IV:	17	2.6	



AREA A REMEDIAL EXCAVATION DETAIL

FIGURE 3
Project 2X513.D

SITE: FORMER FARMERS COLD STORAGE
ADDRESS: 274 KEARNEY STREET, WATSONVILLE

DATE: NOVEMBER 2015 REVISIONS/NOTES:



WEBER, HAYES & ASSOCIATES
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA
831.722.3580 / www.weber-hayes.com

ADJOINING PROPERTY
284 KEARNEY STREET EXTENSION
APN: 018-291-37

TABLES

TABLE 1: *Soil – Metal Analytical Results*

TABLE 2: *Soil- Petroleum Hydrocarbon Analytical Results*

TABLE 3: *Soil – PAH Analytical Results*

Table 1: Soil - Metal Analytical Results
Remedial Excavation Areas A and B
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Investigation Information	Sample Information			Priority Pollutant Metals by EPA Method 6010B / 7471A													Hexavalent Chromium by EPA Method 7199
	Sample ID	Sample Date	Depth (ft)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	
Area A Remedial Excavation (Initial Phase II Sampling, Subsequent "Step-out" Sampling, and Remedial Excavation Confirmation Sampling)	SB-4-d1.5	4/7/2015	1.5	0.59 ¹	7.5	0.36 ¹	0.41 ¹	43	48	230	0.040 ¹	46	ND	0.14 ¹	ND	150	17
	SB-4-d4	5/14/2015	4	--	--	--	--	--	--	5.3	--	--	--	--	--	--	2.6
	SO-3a-d2	5/14/2015	2	--	--	--	--	--	--	8.7	--	--	--	--	--	--	2.7
	SO-3b-d2	5/14/2015	2	--	--	--	--	--	--	61	--	--	--	--	--	--	2.9
	SO-3c-d2	5/14/2015	2	--	--	--	--	--	--	160	--	--	--	--	--	--	1.3
	SO-3c-d4	5/14/2015	4	--	--	--	--	--	--	18	--	--	--	--	--	--	--
	SO-3d-d2	5/14/2015	2	--	--	--	--	--	--	7.4	--	--	--	--	--	--	3.0
	SO-3g-d2	5/14/2015	2	--	--	--	--	--	--	180	--	--	--	--	--	--	--
	SO-3g-d4	5/14/2015	4	--	--	--	--	--	--	6.8	--	--	--	--	--	--	--
	SO-3i-d2	6/15/2015	2	--	--	--	--	--	--	36	--	--	--	--	--	--	--
	SO-3j-d2	6/15/2015	2	--	--	--	--	--	--	150	--	--	--	--	--	--	--
	SO-3j-d4	6/15/2015	4	--	--	--	--	--	--	70	--	--	--	--	--	--	--
	SO-3k-d2	6/15/2015	2	--	--	--	--	--	--	140	--	--	--	--	--	--	--
SO-3k-d4	6/15/2015	4	--	--	--	--	--	--	120	--	--	--	--	--	--	--	
SO-3m-d2	6/15/2015	2	--	--	--	--	--	--	150	--	--	--	--	--	--	--	
Laboratory Practical Quantitation Limit (PQL)				5.0	1.0	0.50	0.50	0.50	1.0	2.50	0.16	0.50	1.0	0.5	5.0	2.5	1.0
Environmental Screening Levels (ESLs) ⁽¹⁾ Residential / Industrial (Shallow Soils < 9.8 ft, Tier 1 Levels)				20 / 40	0.39 / 1.6 7.6*	4.0 / 8.0	12 / 12	1,000 / 2,500	230 / 230	80 / 320	6.7 / 10	150 / 150	10 / 10	20 / 40	0.78 / 10	600 / 600	8.0 / 8.0
ESLs - Direct Exposure Residential / Industrial				0.39 / 1.6		ESLs - Direct Exposure Residential / Industrial										21 / 110	
ESLs - Ecological Receptors Residential / Industrial				20 / 40		ESLs - Ecological Receptors Residential / Industrial										8.0 / 8.0	
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3 Residential / Industrial				--	0.11 / 0.42	3.0 / 21	4.5 / 5.7	36,000 / 270,000	--	--	0.89 / 3.9	0.42 / 1.3	--	--	--	--	--
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial				3.1 / 47	0.68 / 3.0	16 / 230	7.0 / 98	--	310 / 4,700	400 / 800	0.94 / 4.0	--	39 / 580	39 / 580	--	2,300 / 35,000	0.3 / 6.3

Table 1: Soil - Metal Analytical Results
Remedial Excavation Areas A and B
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Investigation Information	Sample Information			Priority Pollutant Metals by EPA Method 6010B / 7471A													Hexavalent Chromium by EPA Method 7199	
	Sample ID	Sample Date	Depth (ft)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc		
Area A Remedial Excavation (Initial Phase II Sampling, Subsequent "Step-out" Sampling, and Remedial Excavation Confirmation Sampling)	CA-1a-d2	10/15/2015	2	--	--	--	--	--	--	6.3	--	--	--	--	--	--	--	
	CA-1a-d4	10/15/2015	4	--	--	--	--	--	--	7.9	--	--	--	--	--	--	--	
	CA-1b-d2	10/22/2015	2	--	--	--	--	--	--	6.6	--	--	--	--	--	--	--	
	CA-2a-d2	10/15/2015	2	--	--	--	--	--	--	320	--	--	--	--	--	--	--	
	CA-2a-d4	10/15/2015	4	--	--	--	--	--	--	83	--	--	--	--	--	--	--	
	CA-2b-d2	10/19/2015	2	--	--	--	--	--	--	980	--	--	--	--	--	--	--	--
	CA-2b-d4	10/22/2015	4	--	--	--	--	--	--	48	--	--	--	--	--	--	--	--
	CA-2c-d2	10/22/2015	2	--	--	--	--	--	--	24	--	--	--	--	--	--	--	--
	CA-3a-d2	10/15/2015	2	--	--	--	--	--	--	49	--	--	--	--	--	--	--	--
	CA-3a-d4	10/15/2015	4	--	--	--	--	--	--	93	--	--	--	--	--	--	--	--
	CA-3b-d2	10/22/2015	2	--	--	--	--	--	--	7.7	--	--	--	--	--	--	--	--
	CA-4a-d2	10/15/2015	2	--	--	--	--	--	--	120	--	--	--	--	--	--	--	--
	CA-4a-d4	10/15/2015	4	--	--	--	--	--	--	24	--	--	--	--	--	--	--	--
	CA-BASE-d6	10/15/2015	6	--	--	--	--	--	--	7.1	--	--	--	--	--	--	--	--
Laboratory Practical Quantitation Limit (PQL)				5.0	1.0	0.50	0.50	0.50	1.0	2.50	0.16	0.50	1.0	0.5	5.0	2.5	1.0	
Environmental Screening Levels (ESLs) ⁽¹⁾ Residential / Industrial (Shallow Soils = <9.8 ft, Tier 1 Levels)				20 / 40	0.39 / 1.6 7.6*	4.0 / 8.0	12 / 12	1,000 / 2,500	230 / 230	80 / 320	6.7 / 10	150 / 150	10 / 10	20 / 40	0.78 / 10	600 / 600	8.0 / 8.0	
ESLs - Direct Exposure Residential / Industrial				0.39 / 1.6			ESLs - Direct Exposure Residential / Industrial										21 / 110	
ESLs - Ecological Receptors Residential / Industrial				20 / 40			ESLs - Ecological Receptors Residential / Industrial										8.0 / 8.0	
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3 Residential / Industrial				--	0.11 / 0.42	3.0 / 21	4.5 / 5.7	36,000 / 270,000	--	--	0.89 / 3.9	0.42 / 1.3	--	--	--	--	--	
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial				3.1 / 47	0.68 / 3.0	16 / 230	7.0 / 98	--	310 / 4,700	400 / 800	0.94 / 4.0	--	39 / 580	39 / 580	--	2,300 / 35,000	0.3 / 6.3	

Table 1: Soil - Metal Analytical Results
Remedial Excavation Areas A and B
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Investigation Information	Sample Information			Priority Pollutant Metals by EPA Method 6010B / 7471A													Hexavalent Chromium by EPA Method 7199
	Sample ID	Sample Date	Depth (ft)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	
Area B Remedial Excavation (Initial Phase II Sampling & Subsequent "Step-out" Sampling)	DP-4-d1.5	4/7/2015	1.5	ND	5.4	0.33 ¹	0.071 ¹	42	35	230	0.078 ¹	39	1.0	0.12 ¹	ND	59	1.4
	DP-4-d4	5/14/2015	4	--	--	--	--	--	--	6.4	--	--	--	--	--	--	--
	SO-2a-d2	5/14/2015	2	--	--	--	--	--	--	190	--	--	--	--	--	--	--
	SO-2a-d4	5/14/2015	4	--	--	--	--	--	--	73	--	--	--	--	--	--	--
	SO-2b-d2	5/14/2015	2	--	--	--	--	--	--	6.6	--	--	--	--	--	--	--
	SO-2c-d2	5/14/2015	2	--	--	--	--	--	--	6.9	--	--	--	--	--	--	--
	SO-2d-d2	5/14/2015	2	--	--	--	--	--	--	34	--	--	--	--	--	--	--
	SO-2e-d2	5/14/2015	2	--	--	--	--	--	--	43	--	--	--	--	--	--	--
	SO-2i-d2	6/15/2015	2	--	--	--	--	--	--	5	--	--	--	--	--	--	--
SO-2j-d2	6/15/2015	2	--	--	--	--	--	--	22	--	--	--	--	--	--	--	
Laboratory Practical Quantitation Limit (PQL)				5.0	1.0	0.50	0.50	0.50	1.0	2.50	0.16	0.50	1.0	0.5	5.0	2.5	1.0
Environmental Screening Levels (ESLs) ⁽¹⁾ Residential / Industrial (Shallow Soils = <9.8 ft, Tier 1 Levels)				20 / 40	0.39 / 1.6 7.6*	4.0 / 8.0	12 / 12	1,000 / 2,500	230 / 230	80 / 320	6.7 / 10	150 / 150	10 / 10	20 / 40	0.78 / 10	600 / 600	8.0 / 8.0
ESLs - Direct Exposure Residential / Industrial				ESLs - Direct Exposure Residential / Industrial												21 / 110	
ESLs - Ecological Receptors Residential / Industrial				ESLs - Ecological Receptors Residential / Industrial												8.0 / 8.0	
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3 Residential / Industrial				--	0.11 / 0.42	3.0 / 21	4.5 / 5.7	36,000 / 270,000	--	--	0.89 / 3.9	0.42 / 1.3	--	--	--	--	--
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial				3.1 / 47	0.68 / 3.0	16 / 230	7.0 / 98	--	310 / 4,700	400 / 800	0.94 / 4.0	--	39 / 580	39 / 580	--	2,300 / 35,000	0.3 / 6.3

Notes

1 = Environmental Screening Levels (ESLs): from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, December 2013). The ESLs are intended to provide quantitative guidance on whether remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A. Shallow Soils (<3m), Groundwater IS a current or potential Source of Drinking Water.

2 = Regional Screening Levels (RSLs): from the USEPA Region 9 RSL Tables (updated January 2015), and the User's Guide (November 2014). The RSLs are risk-based screening levels used for screening sites, calculating risk factors and potentially as cleanup goals once a site has been characterized.

* = Analysis of the 95% Upper Confidence Limit for arsenic in 16 shallow soil samples that were collected to establish background concentrations for metals in the Watsonville area yields a concentration of 7.6 mg/kg. Analysis of the 95% Upper Confidence Limit for arsenic collected from 9 on-site shallow soil samples yields a concentration of 6.3 mg/kg (see Appendix F of this report for reference and 95% UCL analysis). The data confirms that the on-site concentrations of arsenic fall within the range of naturally occurring background concentrations for this area of Watsonville.

J = Laboratory reports that the detection value is between MDL and PQL, and should be considered to be an estimate.

<# = Constituent not detected above the laboratory's Method Detection Limit (MDL), and is therefore non-detectable.

^ = Method Detection Limit and Practical Quantitation Limit raised after sample was diluted. Dilutions were necessary due to elevated analyte concentrations or matrix interferences.

BOLD = Analytical result above Residential ESL, RSL, or HERO Note 3 Values.

-- = Not analyzed for

Table 2: Soil - Petroleum Hydrocarbon Analytical Results

Remedial Excavation Area C
274 Kearney Street, Watsonville, CA

All soil results in milligrams per Kilogram (mg/Kg)

Investigation Information	Sample Identification	Sample Date	Sample Depth (ft, bgs)	Total Petroleum Hydrocarbons by LUFT/FFP (Silica Gel Treated)				
				Gasoline	Diesel	Hydraulic / Motor Oil	Kerosene	Stoddard Solvent
Area C Remedial Excavation (Initial Phase II Sampling & Subsequent "Step-out" Sampling)	SB-3-d2	4/7/2015	2	ND	15 ^A	130	ND	ND
	SB-3-d4	5/14/2015	4	ND	ND	ND	ND	ND
	SO-1a-d2	5/14/2015	2	ND	7.0 ^{A,J}	14 ^J	ND	ND
	SO-1b-d2	5/14/2015	2	ND	6.4 ^{A,J}	14 ^J	ND	ND
	SO-1c-d2	5/14/2015	2	ND	10 ^A	46	ND	ND
	SO-1d-d2	5/14/2015	2	ND	13 ^A	60	ND	ND
Laboratory Practical Quantitation Limit (PQL)				20	10	20	10	20
Residential / Commercial Environmental Screening Levels (ESLs) ¹				100 / 500	100 / 110	100 / 500	100 / 110	100 / 110

NOTES:

Units = All values are in milligrams per kilogram (mg/Kg), equivalent to parts per million (ppm) unless indicated otherwise.

bgs = below ground surface

BOLD = Analytical result above ESL.

1 = **Environmental Screening Levels (ESLs):** from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, December 2013). The ESLs are intended to provide quantitative guidance on whether remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A. Shallow Soils (<3m), Groundwater [S] a current or potential Source of Drinking Water. The ESL document categorizes TPH as either gasoline, middle distillates, or residual fuels. "Middle distillates" are considered to include diesel fuel, kerosene, stoddard solvent, heating fuel, and jet fuel, whereas "residual fuels" include fuel oil (bunker fuel), lubricating oils (motor oil, oil and grease, waste oils) and asphalts.

A = The laboratory reported that the chromatgram did not yield a standard diesel pattern.

J = Laboratory note indicating a value that is below the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL), and is therefore an estimated value.

ND = Not detected at or above the Method Detection Limit (MDL).

Table 3: Soil - PAH Analytical Results
Remedial Excavation Area B
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Investigation Information	Sample Information			Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C-SIM															Benzo[a]pyrene Equivalent		
	Sample ID	Sample Date	Depth (ft)	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[a]pyrene	Benzo[g,h,i]perylene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene		Pyrene	
Area B Remedial Excavation (Initial Phase II Sampling & Subsequent "Step-out" Sampling)	SB-1-d1.5	4/7/2015	1.5	0.0051	0.0017 ^J	0.014	0.064	0.075 [^]	0.039	0.068	0.035	0.062	0.0064	0.20 [^]	0.0035	0.032	0.0046	0.12 [^]	0.17 [^]	0.096	
	SB-3-d2	4/7/2015	2	ND	ND	0.0047	0.035	0.050 [^]	0.034	0.047	0.039	0.035	0.0057	0.064 [^]	ND	0.023	ND	0.030	0.067 [^]	0.067	
	DP-3-d1.5	4/7/2015	1.5	ND	ND	0.0013 ^J	0.013	0.028	0.0096	0.017	0.0051	0.012	ND	0.033	ND	0.0039	ND	0.011	0.051	0.023	
	DP-4-d1.5	4/7/2015	1.5	0.0041	0.0021 ^J	0.020	0.21[^]	0.20 [^]	0.062 [^]	0.17[^]	0.065	0.11 [^]	0.014	0.39 [^]	0.0036	0.059	ND	0.17 [^]	0.35 [^]	0.238	
	DP-4-d4	5/14/2015	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
	SO-2a-d2	5/14/2015	2	ND	ND	0.0081	0.066	0.093	0.032	0.085	0.048	0.066	0.011	0.13	0.0013 ^J	0.045	ND	0.061	0.17	0.12	
	SO-2b-d2	5/14/2015	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
	SO-2c-d2	5/14/2015	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
	SO-2d-d2	5/14/2015	2	ND	ND	ND	0.0014 ^J	ND	0.0025 ^J	0.0014 ^J	ND	0.00096 ^J	ND	0.0013 ^J	ND	ND	ND	ND	0.00093 ^J	0.0019 ^J	0.003
	DP-5-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
	DP-6-d1.5	4/7/2015	1.5	ND	ND	0.0061	0.033	0.062	0.018	0.037	0.017	0.026	0.0029 ^J	0.077	ND	0.014	ND	0.034	0.16	0.053	
DP-7-d4	5/14/2015	4	ND	ND	ND	0.015 [^]	0.022 [^]	0.017 [^]	0.022 [^]	0.018 [^]	0.019 [^]	ND	0.045 [^]	ND	0.014 ^J	0.023 [^]	0.025 [^]	0.049 [^]	0.032		
Water Board Environmental Screening Levels (ESLs) ⁽¹⁾ Residential / Industrial (Shallow Soils = < 9.8 ft)				16 / 16	13 / 13	2.8 / 2.8	0.38 / 1.3	0.38 / 1.3	0.38 / 1.3	0.038 / 0.13	27 / 27	3.8 / 13	0.11 / 0.38	40 / 40	8.9 / 8.9	0.38 / 1.3	1.2 / 1.2	11 / 11	85 / 85	0.038 / 0.13*	
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3				--	--	--	--	--	0.39	--	--	3.9	--	--	--	--	--	--	--	--	--
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial				360 / 4,500	--	1,800 / 23,000	0.16 / 2.9	0.16 / 2.9	1.6 / 29	0.016 / 0.29	--	16 / 290	0.016 / 0.29	240 / 3,000	240 / 3,000	0.16 / 2.9	3.8 / 17	--	180 / 2,300	0.016 / 0.29*	
																			DTSC PAH Study (2009) ⁽³⁾ Northern California 95th Percentile BaP Equivalent	0.9	

Notes

1 = Environmental Screening Levels (ESLs): from *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, set by the San Francisco Bay Regional Water Quality Control Board (Interim Final, December 2013). The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A. Shallow Soils (<3m), Groundwater IS a current or potential Source of Drinking Water.

2 = Regional Screening Levels (RSLs): from the *USEPA Region 9 RSL Tables* (updated January 2015), and the *User's Guide* (November 2014). The RSLs are risk-based screening levels used for screening sites, calculating risk factors and potentially as cleanup goals once a site has been characterized.

3 = DTSC Advisory - Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process (July 1, 2009): Page 8, *Establishing a Practical Target to Guide Soil Excavation/Remediation*: A value of 0.9 milligrams per kilogram (mg/Kg) in BaP equivalents can be used as a pragmatic target for guiding soil excavation/remediation. This value corresponds to upper bounds of the ambient data sets. Experience at various MGP site has shown that removal/remediation of soil areas and hotspots exceeding 0.9 mg/Kg BaP equivalents is a reasonably conservative guide for the main phase of excavation/remediation activities.

* = There is no screening value for B(a)P equivalent. Results compared against screening values for Benzo(a)pyrene for reference only.

ND = Analyte not detected above the laboratory Method Detection Limit (MDL).

J = Laboratory reports that the detection value is between MDL and PQL, and should be considered to be an estimate.

^ = Method Detection Limit and Practical Quantitation Limit raised after sample was diluted. Dilutions were necessary due to elevated analyte concentrations or matrix interferences.

BOLD = Analytical result above Residential ESL, RSL, or HERO Note 3 values.

APPENDIX A

SITE DESCRIPTION & BACKGROUND

INCLUDING:

SELECT TABLES & FIGURES FROM WEBER, HAYES AND ASSOCIATES:

PHASE I/I ENVIRONMENTAL SITE ASSESSMENT, DATED JUNE 25, 2015

&

WORK PLAN: REMEDIAL EXCAVATION OF IMPACTED SOILS FOR UNRESTRICTED LAND-USE, DATED JULY 21, 2015

SITE SETTING & BACKGROUND

SITE DESCRIPTION AND BACKGROUND

The subject property (the “Site”) consists of three (3) commercially/industrially-zoned parcels, which are collectively registered as 274 Kearney Street, in Watsonville, California (see 2 of this Appendix). The Site has an extended history of industrial land-uses. A beet sugar refinery operated from the 1880s through the 1910s. This land-use was followed by food processing and cold food storage businesses from the 1920s through 2013 when the most recent owner, Farmers Processing and Cold Storage, went out of business.

- *Santa Cruz County Assessor’s Parcel Numbers (APNs):* 018-122-11, 018-291-31, and 018-291-38
- The property spans a total area of approximately 3.6-acres.
- Several structures have recently been razed, including Cold Storage Building #1 (approximately 22,000 sq-ft), and a smaller storage building (~3,000 sq-ft).
- Three (3) structures remain, including a steel frame food processing facility (~6,000 sq-ft) in the northwestern corner of the Site, a dilapidated cold storage building (~10,000 sq-ft) in the southcentral portion of the Site, and a small office (~1,700 sq-ft). For current layout of the Site, see *Figure 2 – Site Map*.



Current Site Conditions (facing southeast): Several buildings were recently demolished, while Cold Storage Building No. 2 remains (right).

The topographic layout of the Site is predominantly flat-lying (see Figure 2 of this Appendix). Elevations across the Site range from 16 to 30 feet above Mean Sea Level (MSL). A 600-ft wide span of graded, developed land at 27-28 feet above MSL covers the majority of the property. A steep slope is present along the western perimeter of the property, as the terrain descends down to Watsonville Slough. Present day adjoining and vicinity land-uses primarily include food processing and cold storage facilities to the north, east and south, and Watsonville Slough to the west.

Land-Use History

The earliest available record (1892 Sanborn Fire Insurance Map) depicts the Site as being a large beet sugar mill called Spreckels Sugar Mill No. 2. This mill consisted of beet cleaning and processing, refining with limekilns, pH balancing with light acids, and boiling for the production of molasses and various

grades of refined sugar. This large sugar production plant was at the heart of industrial activity in Watsonville during the late 1800s to early 1900s, and adjoined the large Pajaro Valley Consolidated Railroad (PVCRR) storage yard (formerly south of the Site), and had several railroad spurs that bisected and ran along the property boundary. The railroad spurs that bisected the Site were removed by the 1930s, but the railroad segment that runs parallel to the northern property boundary is still present today. The sugar mill used coal, crude oil and wood as fuel sources, which was presumably delivered to the Site via these railways. The sugar mill also contained a railcar turntable and roundhouse, used for shipping and receiving. According to early Sanborn Fire Insurance Maps (1892-1908), the sugar mill possessed nine to ten “set in ground” 4,200-gal tanks that stored crude oil, situated 800’ west of the main building. Crude oil was piped underground to the facility. We were unable to obtain a map showing the specific location of these former crude petroleum storage tanks.

According to University of California and other online accounts of the Spreckels Mill, it was established by Klaus Spreckels, who was also a co-owner of multiple railways in the region, including PVCRR, and was invested in the fossil fuel industry.

Spreckels Sugar Mill No. 2 appears to have ceased operations and concentrated its regional beet sugar production in Salinas sometime during the 1910s to early 1920s. Subsequent to the Spreckels plant, the Site was primarily used for food processing and cold storage, which included a fruit evaporation business (“Hiura Brothers Fruti Evaporating Co”) and older food processing and cold storage businesses (“Secondo Brothers”). By 1950, Farmers Cold Storage is depicted as the owner of a large rectangular building within the northern portion of the Site. Farmers Cold Storage later became the primary Site occupant, with a similar layout as the most recent documented Site layout (2013 aerial photograph) by 1962.

Farmers Cold Storage and Freezers continued to operate at the Site until 2013, when the bank repossessed the property due to defaults on multiple debts owed by the former owner. Since 2013, the property has undergone disassembly of the former refrigeration and food processing systems, and several buildings have been razed.

LOCAL GEOLOGIC AND HYDROGEOLOGIC CONDITIONS



Regional Geologic Map: Holocene-aged floodplain deposits (Qof) underlie the Site. Basin deposits (Qb) are present to the west of the Site beneath Watsonville Slough.

Regional geologic maps and reports indicate that surface soils underlying Site and the vicinity area generally consist of Holocene-aged floodplain deposits ('Qof', see *Regional Geologic Map*⁴, below). These older floodplain deposits have been encountered up to 200 feet thick, and consist of unconsolidated, fine-grained sand, silt, and clay. As the Site slopes down toward Watsonville Slough (due west), surficial deposits transition into basin deposits ('Qb'), which are unconsolidated, plastic, silty clay and clay with higher organic material content (in this case, from more stagnant slough waters). These surficial deposits have been documented to be as much as 90 feet thick beneath sloughs within the Pajaro Valley area.

During the recent Phase II subsurface investigation, two (2) of the eight (8) driven-probe borings advanced to groundwater were continuously cored and logged by a Professional Geologist registered with the State of California. Logged borings revealed.

- » **Boring DP-2:** Terminated a depth of 24 feet below ground surface (bgs). Formation saturated at 19 feet bgs.
 - 0-3 feet: 20 inches of concrete, underlain by another ~16 inches of base fill material;
 - 3-12.5 feet: silty sand with gravel;
 - 12.5-17 feet: clayey-sand with gravel;
 - 17-24 feet: poorly graded sand with silt.

- » **Boring DP-7:** Terminated a depth of 24 feet below ground surface (bgs). Formation saturated at 19 feet bgs.
 - 0-2 feet: 2.5 inches of asphalt followed by approximately 2 feet of base fill material;
 - 2-6 feet: silty sand;
 - 6-12 feet: clayey-sand;
 - 12-19 feet: silty clay;
 - 19-24 feet: poorly graded sand.

Based on these recent subsurface borings and groundwater monitoring data gathered from adjoining property investigations⁵, first encountered groundwater beneath the Site appears to fluctuate from approximately 8 to 25 feet bgs, which is equivalent to approximately 3 to 20 feet above MSL. After four consecutive dry years, groundwater beneath the subject Site was encountered at depths ranging from 21 to 26 feet bgs. The flow direction of shallow groundwater is expected to follow the channel of Watsonville Slough to Monterey Bay, in southwesterly direction.

⁴ *Geologic Map of Santa Cruz County, California*, E. E. Brabb, dated 1997.

⁵ *Confirmation Groundwater Monitoring Report, 352 Ford Street*, Weber, Hayes and Associates, dated February 12, 2004.

SUMMARY OF PHASE II SAMPLING INVESTIGATION RESULTS

PHASE II INVESTIGATION: FINDINGS AND OPINIONS

The recently completed soil and groundwater sampling and analysis program focused on *Recognized Environmental Conditions* identified during Phase I ESA research. These were specific to historical land-uses, hazardous materials and petroleum products that were documented to have been managed at the Site, and other contaminants of potential concern associated with historical infrastructure and industrial operations. Some analytical suites were applied to all of the samples analyzed, whereas some samples were not analyzed for all of the suites, based upon our understanding of historical land-uses at those specific locations.

In general, no significant subsurface impacts were identified through this comprehensive Phase II sampling effort, with the exception of a few localized areas that revealed elevated concentrations of Total Lead, and to a much lesser extent TPH-motor oil, Cr VI, and PAHs in shallow soils at depths of generally less than 4 feet bgs.

Groundwater: Findings and Opinions

Two (2) of the eight (8) collected groundwater samples yielded slightly elevated contaminants of potential concern. Specifically:

- **Boring DP-3:** TPH as diesel was detected at a concentration of 2,200 µg/L, above the Water Quality Goal set at 1,000 µg/L. However, the laboratory reported that the chromatogram did not resemble petroleum hydrocarbons and the lab director further confirmed the result to be interference from random organic constituents – not petroleum based. A follow up groundwater sample collected from boring DP-8 positioned approximately 30 feet downgradient of DP-3 revealed no concentrations of TPH-diesel range organics. Because the detection of diesel range organics at boring DP-3 are confirmed to very limited in extent, and the laboratory has confirmed that the result is random organic interference (i.e., not a diesel pattern) we consider this detection to be insignificant.
- **Boring DP-7:** Freon-11 was detected at a concentration of 210 µg/L, which is slightly above the MCL set at 150 µg/L. All other constituents analyzed for were not detected. Since one of the seven laboratory-tested groundwater samples contained a detection of Freon-11 at a concentration slightly above the agency threshold we contacted the Central Coast Regional Water Quality Control Board (Water Board) staff to determine whether additional characterization work would be required. Water Board staff consulted with staff at the California Environmental Protection Agency, and both agencies concurred that no additional assessment was warranted given: 1) the low concentration, 2) the depth to groundwater,

and 3) the surrounding groundwater sample results that contained non-detectable to trace concentrations of this contaminant⁶.

No other groundwater impacts were discovered during the Phase II investigation. A Figure presenting results of Phase II groundwater sampling is included in this Appendix for reference.

Soil: Findings and Opinions

Three (3) of the nine (9) shallow soil samples (i.e., 1.5 to 2 feet bgs) revealed elevated concentrations of Total Lead, and to a much lesser extent TPH-motor oil, Cr VI, and/or PAHs. Specifically:

- **DP-4 & SB-4: Lead** was detected at a concentration of 230 mg/Kg in both samples at a depth of 1.5 feet bgs, above the residential ESL of 80 mg/Kg. Samples collected from 4 feet bgs at these locations revealed concentrations of Total Lead that were below the residential ESL, defining the vertical extent of impact. Subsequent “step-out” borings advanced in all four directions from each of these borings have generally defined the Total Lead impacts to be confined to an approximate 20 by 25 foot area to depths of less than 4 feet bgs at each of these locations.
- **SB-3: TPH-motor oil** was detected at a concentration of 130 mg/Kg at a depth of 2 feet bgs, above the residential ESL of 100 mg/Kg. A sample collected from 4 feet bgs at this location revealed no detection of TPH-motor oil, defining the vertical extent of impact. Subsequent “step-out” borings advanced in all four directions from this boring have defined these impacts to be confined to an area of less than 20 by 20 feet to a depth of less than 4 feet bgs.
- **SB-4: Cr IV** was detected at 17 mg/Kg at a depth of 1.5 feet bgs, which exceeds the ecological receptor ESL of 8.0 mg/Kg. A sample collected from 4 feet bgs at this location revealed a concentration of Cr VI that was below the ecological receptor ESL, defining the vertical extent of impact. Subsequent “step-out” borings advanced in all four directions from this boring have defined these impacts to be confined to an area of less than 20 by 20 feet to a depth of less than 4 feet bgs.
- **DP-4: PAHs expressed as Benzo(a)pyrene equivalent (BaP equivalent)**⁷ were detected at 0.238 mg/Kg at a depth of 1.5 feet bgs, which is below the DTSC 95% UCL of 0.9⁸, yet was an

⁶ *Central Coast Regional Water Quality Control Board, Chris Adair, email communication, dated May 28 2015.*

⁷ *Benzo[a]pyrene (BaP) Equivalent definition: A USEPA accepted equivalency calculation for eight (8) of the sixteen (16) commonly occurring PAHs that are considered to be carcinogenic. Our calculations used the latest Cal/EPA potency factors.*

⁸ *DTSC Advisory - Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process (July 1, 2009): Page 8, Establishing a Practical Target to Guide Soil*

order of magnitude above all other Site-wide detections. A sample collected from 4 feet bgs at this location revealed no detections of PAHs, defining the vertical extent of impact. Subsequent “step-out” borings advanced in all four directions from this boring have defined these slightly elevated impacts to be confined to an area of less than 20 by 20 feet to a depth of less than 4 feet bgs.

- **Concentrations of PAHs** detected in shallow soils from a twelve (12) sample data set revealed calculated concentrations ranging from less than 0.001 (non-detectable result) to 0.238 mg/Kg (sample DP-4-d1.5). The 95 Percentile Upper Confidence Limit (95% UCL)⁹ for this data set was 0.093 mg/Kg (see results of calculations in this Appendix). The proposed remedial excavation tasks include the removal of soils with the two highest BaP equivalent locations as well as several lower level concentrations. After excavation, the calculated 95% UCL for BaP would be reduced to 0.073 mg/Kg. Risk-based screening thresholds for BaP include the ESLs, the USEPA Region 9 RSLs, and the ambient threshold for Northern California used by DTSC (0.9 mg/Kg). The Tier 1, residential ESL for BaP is 0.038 mg/Kg, whereas the commercial ESL is 1.3 mg/Kg (direct exposure to humans is the driver).
 - » The DTSC issued an Advisory (2009) that established a practical target for remediation of manufactured gas plant sites, based on Northern California ambient data sets for BaP equivalents. These data sets were collected in urban and other developed areas near former manufactured gas plant sites. The July 2009 DTSC Advisory stated that “the PAH Studies combine existing data for selected sites to produce a single ambient data set for carcinogenic PAHs that has greater statistical power than typically is offered by site-specific data sets”. [...] “The sites included in this data set are largely from downtown areas of various cities, including areas that have been urbanized for over a hundred years.”
 - » The subject Site has been developed for over 100 years and is located within a half-mile of two (2) historical manufactured gas plant sites. These conditions suggest that it is reasonable to apply the 95% UCL ambient value of BaP equivalents (0.9 mg/Kg) for Northern California be applied to the subject Site.

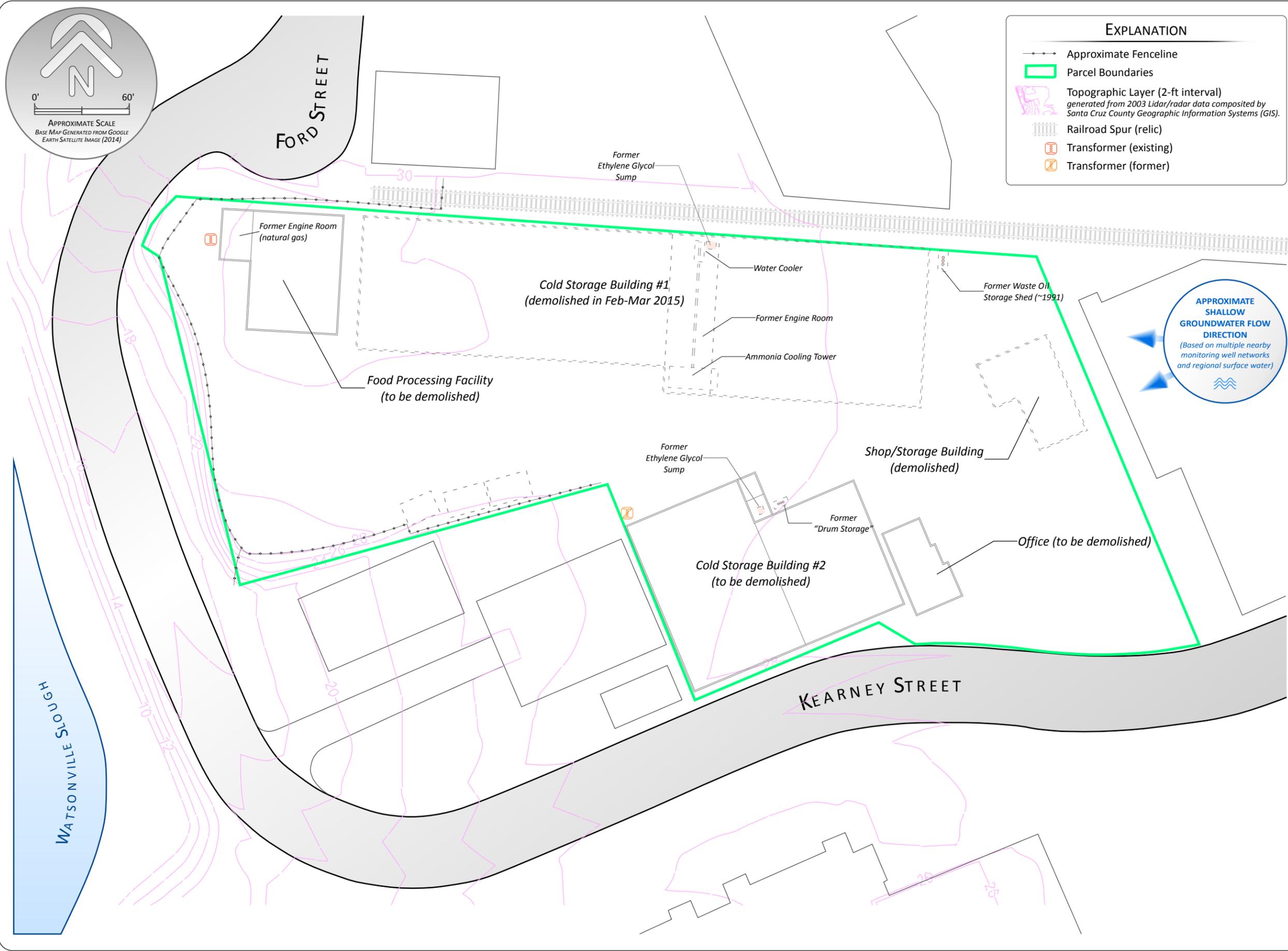
Excavation/Remediation: “A value of 0.9 milligrams per kilogram (mg/Kg) in BaP equivalents can be used as a pragmatic target for guiding soil excavation/remediation. This value corresponds to upper bounds of the ambient data sets. Experience at various MGP site has shown that removal/remediation of soil areas and hotspots exceeding 0.9 mg/Kg BaP equivalents is a reasonably conservative guide for the main phase of excavation/remediation activities.”

⁹ *95th Percentile Upper Confidence Limit (UCL):* This calculated value corresponds to the proportion of samples *expected* to contain the true mean of the sample distribution.

- » **It is our opinion that the proposed post-remediation BaP equivalent 95% UCL value of 0.073 mg/Kg is an acceptable cleanup goal for unrestricted land-use in this long-term urban setting.** This post-remediation BaP equivalent value falls well below the cleanup goal accepted by DTSC for urban sites.
- **Concentrations of arsenic** detected in shallow soils from nine (9) boring locations across the Site ranged from 2.8 to 7.9 mg/Kg. All of these detections exceed the residential/commercial ESL for arsenic, which is set at very low, risk-based thresholds of 0.39 and 1.6 mg/Kg, respectively. The 95% UCL calculation for the nine (9) sample data set was 6.3 mg/Kg (see results of calculations in this Appendix). An analysis of the 95% UCL for arsenic in 16 shallow soil samples that were collected to establish background concentrations for metals in the Watsonville area yields a concentration of 7.6 mg/Kg (also see results of calculations in this Appendix). **This data confirms that the on-site concentrations of arsenic (i.e., 95% UCL of 6.3 mg/Kg) fall within the range of naturally occurring background concentrations for this area of Watsonville.**

Soil sample analytical results are presented on Tables 1 through 3. A Figure presenting results of Phase II soil sampling is included also in this Appendix for reference.

In summary, three (3) initial soil samples collected contained concentrations of lead, Cr VI, PAHs and/or TPH as motor oil that were above Tier 1, residential ESLs. As the Phase II assessment was completed for a property transaction, step-out sampling was completed in order to determine whether the extent of contamination in these three areas is significant or reasonably limited. The final extent of step-out sampling is depicted on Figure 3.



EXPLANATION	
	Approximate Fenceline
	Parcel Boundaries
	Topographic Layer (2-ft interval) <i>generated from 2003 Lidar/radar data composited by Santa Cruz County Geographic Information Systems (GIS).</i>
	Railroad Spur (relic)
	Transformer (existing)
	Transformer (former)

APPROXIMATE SHALLOW GROUNDWATER FLOW DIRECTION
(Based on multiple nearby monitoring well networks and regional surface water)

**SITE MAP
 WORK PLAN FOR REMEDIAL EXCAVATION**

SITE: FORMER FARMERS COLD STORAGE
 ADDRESS: 274 KEARNEY STREET, WATSONVILLE

DATE: JUNE 2015

REVISIONS/NOTES: 07/08/2015 - JA (Post Survey)



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FIGURE 2
 Project 2X513

EXPLANATION

- DP-1** Summary of soil analytical results for samples collected on April 7, 2015.
 - DP-7** Summary of soil analytical results for samples collected on May 14, 2015.
 - SB-2** Summary of soil analytical results for samples collected on April 7, 2015.
 - SO-1a** Additional Step-Out Soil Boring Locations
Soil sampling at 2 and 4 ft bgs, collected on May 14 and June 15, 2015.
- Proposed Areas for Remedial Excavation of shallow soils to 4 ft bgs
■ Proposed Areas for Remedial Excavation of shallow soils to 5 ft bgs*
- NA = not analyzed
 ND = analyte not detected above the laboratory Method Detection Limit (MDL).
 J = Laboratory reported an estimated value (i.e. a detection at the lower end of the laboratory's analytical capability).

- Approximate fence line
- Parcel Boundaries

TARGET AREA LOCATOR



DP-4

Depth:	1.5'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	NA
Diesel:	6.8 J	NA
Motor/Hydraulic Oil:	33	NA
All Other Ranges:	ND	NA
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	0.238	0.001
POLYCHLORINATED BIPHENYLS (PCBs)		
All PCBs:	ND	NA
METALS		
Arsenic:	5.4	NA
Lead:	230	6.4
Mercury:	0.078 J	NA
Chromium IV:	1.4	NA

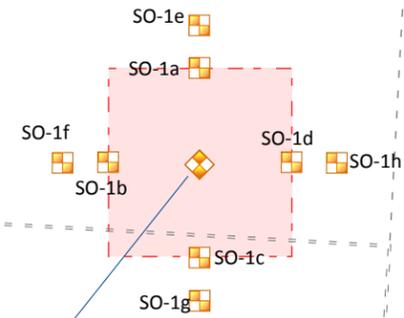
SB-4

Depth:	1.5'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	NA
Diesel:	14	NA
Motor/Hydraulic Oil:	90	NA
All Other Ranges:	ND	NA
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs)		
All PCBs:	ND	NA
METALS		
Arsenic:	7.5	NA
Lead:	230	5.3
Mercury:	0.04 J	NA
Chromium IV:	17	2.6

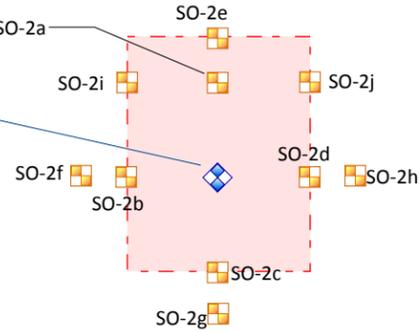
SB-3

Depth:	2'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	ND
Diesel:	15	ND
Motor/Hydraulic Oil:	130	ND
All Other Ranges:	ND	ND
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	0.067	NA
POLYCHLORINATED BIPHENYLS (PCBs)		
PCB 1260:	0.0046J	NA
All Other PCBs:	ND	NA
METALS		
Arsenic:	2.8	NA
Lead:	63	NA
Mercury:	ND	NA
Chromium IV:	0.71 J	NA

FORMER COLD STORAGE BUILDING No. 1
DEMOLISHED IN FEBRUARY-MARCH 2015

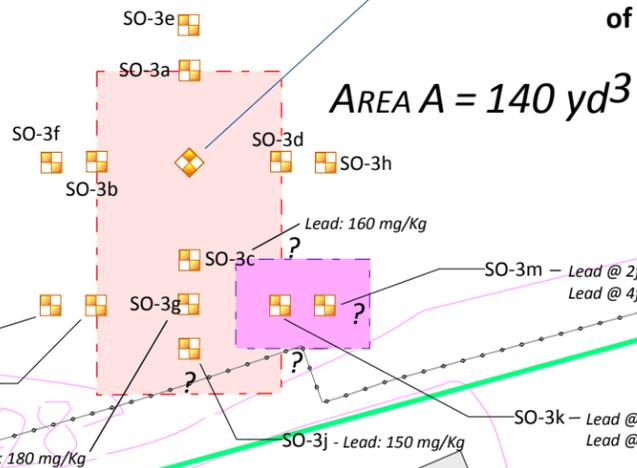


AREA C = 61 yd³



AREA B = 76 yd³

NOTE: Results only show for soil samples with concentrations of Contaminants of Concern that exceed Tier 1 Residential ESLs. All other sample locations are below ESLs, and define the limits of proposed remedial excavations.



AREA A = 140 yd³

FORMER COLD STORAGE BUILDING No. 2
TO BE DEMOLISHED

ADJOINING PROPERTY
284 KEARNEY STREET EXTENSION
APN: 018-291-37

FIGURE 3
Project 2X513.C

**REMEDIAL EXCAVATION AREAS
WORK PLAN FOR REMEDIAL EXCAVATION**

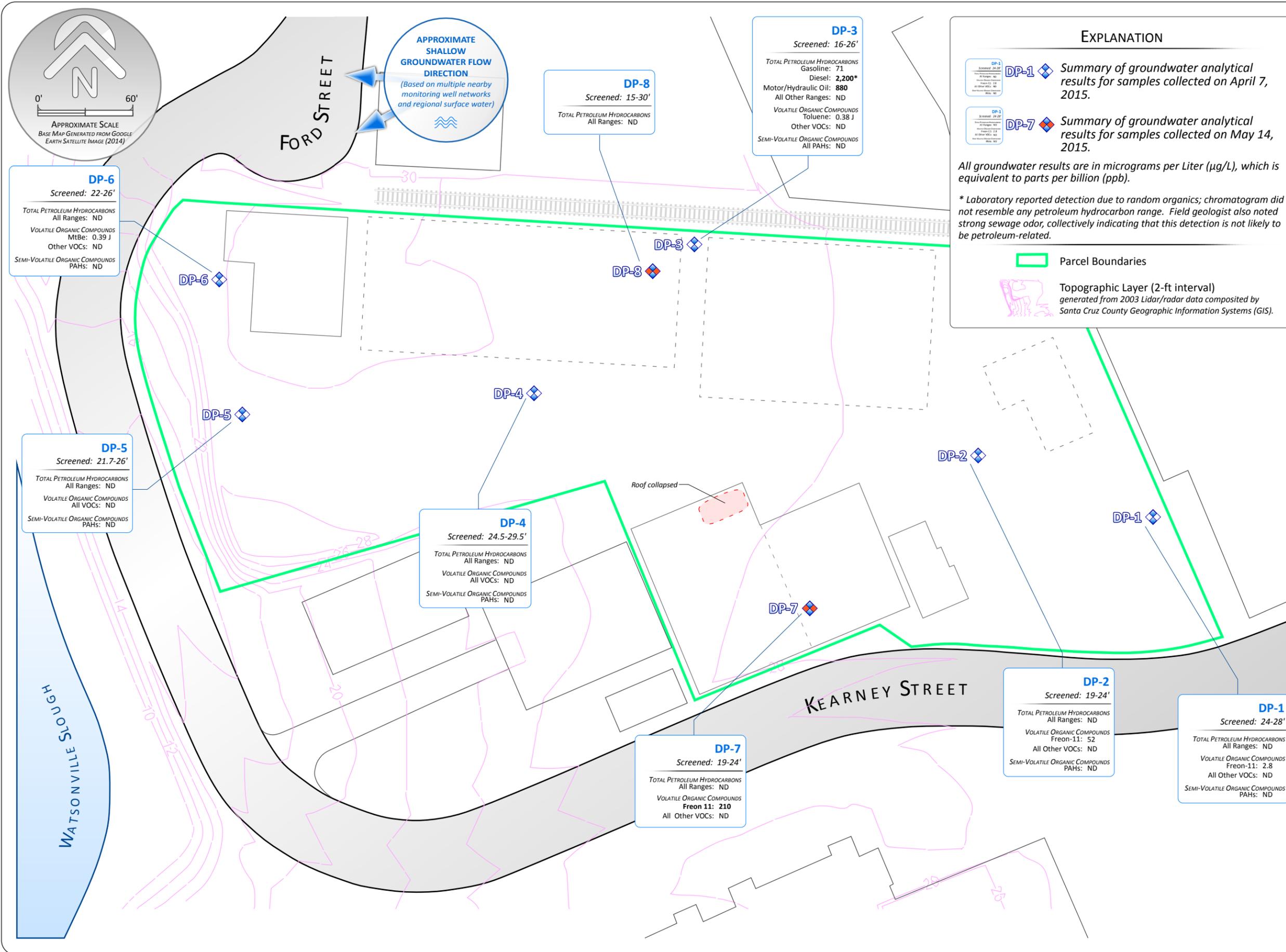
SITE: FORMER FARMERS COLD STORAGE
ADDRESS: 274 KEARNEY STREET, WATSONVILLE

REVISIONS/NOTES: 07/17/2015 - JA

DATE: JULY 2015



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GROUNDWATER ANALYTICAL RESULTS PHASE I/II ENVIRONMENTAL SITE ASSESSMENT

SITE: FORMER FARMERS COLD STORAGE
ADDRESS: 274 KEARNEY STREET, WATSONVILLE

WHA
WEBER, HAYES & ASSOCIATES
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA
831.722.3580 / www.weber-hayes.com

FIGURE 8
Project 2X513

DATE: JUNE 2015
REVISIONS/NOTES: 06/17/2015 - JA

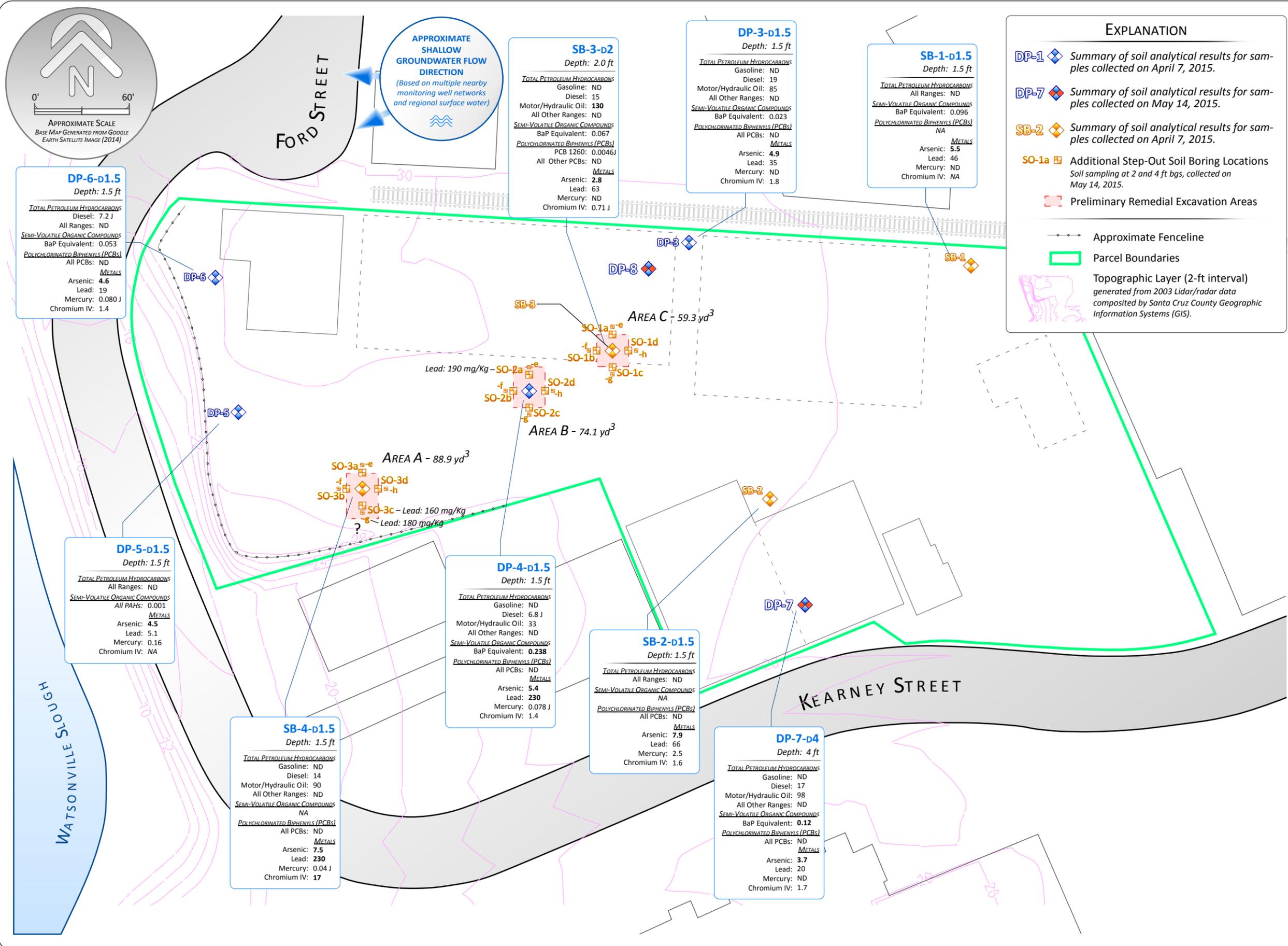


FIGURE 9
Project
2X513

**SOIL ANALYTICAL RESULTS
PHASE I/II ENVIRONMENTAL SITE ASSESSMENT**

SITE: FORMER FARMERS COLD STORAGE
ADDRESS: 274 KEARNEY STREET, WATSONVILLE

DATE: JUNE 2015
REVISIONS/NOTES: 06/17/2015 - JA

Table 1: Groundwater - Analytical Results

274 Kearney Street, Watsonville, CA

All groundwater results in micrograms per Liter (µg/L)

Sample Identification	Sample Date	Screened Interval (ft, bgs)	Total Petroleum Hydrocarbons by LUFT/FFP Method						Volatile Organic Compounds by EPA Method 8260B					Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C-SIM
			Gasoline	Diesel	Hydraulic / Motor Oil	Kerosene	Stoddard Solvent	Other TPHs	Total Purgeable Petroleum Hydrocarbons	Toluene	MtBE	Freon-11	All Other VOCs	
DP-1	4/7/2015	24-28'	ND	ND	ND	ND	ND	All ND	ND	ND	ND	2.8	ND	All ND
DP-2	4/7/2015	19-24'	ND	ND	ND	ND	ND	All ND	ND	ND	ND	52	ND	All ND
DP-3	4/7/2015	16-26'	ND	2,200 ^A	880	ND	ND	All ND	71	0.38 ^J	ND	ND	ND	All ND
DP-4	4/7/2015	24.5-29.5'	ND	ND	ND	ND	ND	All ND	ND	ND	ND	ND	ND	All ND
DP-5	4/7/2015	21-26'	ND	ND	ND	ND	ND	All ND	ND	ND	ND	ND	ND	All ND
DP-6	4/7/2015	18-23'	ND	ND	ND	ND	ND	All ND	ND	ND	0.39 ^J	ND	ND	All ND
DP-7	5/14/2015	19-24'	ND	ND	ND	ND	ND	All ND	ND	ND	ND	210 ^A	ND	--
DP-8	5/14/2015	15-30'	ND	ND	ND	ND	ND	All ND	--	--	--	--	--	--
Laboratory Practical Quantitation Limit (PQL)			500	200	500	200	200	varies	50	0.5	0.5	0.5	varies	varies
Maximum Contaminant Levels (MCLs) ¹			--	--	--	--	--	--	--	150	5.0	150	varies	--
Central Coast Basin Plan Water Quality Goals (WQGs) ²			1,000	1,000	1,000	1,000	1,000	1,000	1,000	--	5.0	--	--	--
Environmental Screening Levels (ESLs) ³			100	100	100	100	100	100	100	40	5.0	--	varies	varies

NOTES:

Units = All values are in micrograms per Liter (µg/L), equivalent to parts per billion (ppb), unless indicated otherwise.

bgs = below ground surface

BOLD = Analytical result above ESL.

1 = **Maximum Contaminant Levels (MCLs)**: These are the drinking water standards established in Title 22 of the California Code of Regulations.

2 = **Central Coast Regional Water Quality Control Board Basin Plan - Water Quality Goals**: These are the maximum groundwater concentration levels allowed by the CCRWQCB for a site to be considered a low risk to groundwater resources.

3 = **Environmental Screening Levels (ESLs)**: from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, December 2013). The ESLs are intended to provide quantitative guidance on whether remediation of contamination is warranted. The ESLs used for in this table default to groundwater as a potential drinking water resource.

A = The laboratory reported that the chromatogram did not yield a standard diesel pattern.

J = Laboratory note indicating a value that is below the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL), and is therefore an estimated value.

ND = Not detected at or above the Method Detection Limit (MDL).

-- = Not analyzed for.

Table 2: Soil - Petroleum Hydrocarbon Analytical Results

274 Kearney Street, Watsonville, CA

All soil results in milligrams per Kilogram (mg/Kg)

Sample Identification	Sample Date	Sample Depth (ft, bgs)	Total Petroleum Hydrocarbons by LUFT/FFP (Silica Gel Treated)				
			Gasoline	Diesel	Hydraulic / Motor Oil	Kerosene	Stoddard Solvent
SB-1-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND
SB-2-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND
SB-3-d2	4/7/2015	2	ND	15 ^A	130	ND	ND
SB-3-d4	5/14/2015	4	ND	ND	ND	ND	ND
SO-1a-d2	5/14/2015	2	ND	7.0 ^{A,J}	14 ^J	ND	ND
SO-1b-d2	5/14/2015	2	ND	6.4 ^{A,J}	14 ^J	ND	ND
SO-1c-d2	5/14/2015	2	ND	10 ^A	46	ND	ND
SO-1d-d2	5/14/2015	2	ND	13 ^A	60	ND	ND
SB-4-d1.5	4/7/2015	1.5	ND	14 ^A	90	ND	ND
DP-3-d1.5	4/7/2015	1.5	ND	19 ^A	85	ND	ND
DP-4-d1.5	4/7/2015	1.5	ND	6.8 ^{A,J}	33	ND	ND
DP-5-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND
DP-6-d1.5	4/7/2015	1.5	ND	7.2 ^J	ND	ND	ND
DP-7-d4	5/14/2015	4	ND	17	98	ND	ND
Laboratory Practical Quantitation Limit (PQL)			20	10	20	10	20
Residential / Commercial Environmental Screening Levels (ESLs) ¹			100 / 500	100 / 110	100 / 500	100 / 110	100 / 110

NOTES:

Units = All values are in milligrams per kilogram (mg/Kg), equivalent to parts per million (ppm) unless indicated otherwise.

bgs = below ground surface

BOLD = Analytical result above ESL.

1 = **Environmental Screening Levels (ESLs):** from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, December 2013). The ESLs are intended to provide quantitative guidance on whether remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A. Shallow Soils (<3m), Groundwater IS a current or potential Source of Drinking Water. The ESL document categorizes TPH as either gasoline, middle distillates, or residual fuels. "Middle distillates" are considered to include diesel fuel, kerosene, stoddard solvent, heating fuel, and jet fuel, whereas "residual fuels" include fuel oil (bunker fuel), lubricating oils (motor oil, oil and grease, waste oils) and asphalts.

A = The laboratory reported that the chromatgram did not yield a standard diesel pattern.

J = Laboratory note indicating a value that is below the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL), and is therefore an estimated value.

ND = Not detected at or above the Method Detection Limit (MDL).

Table 3: Soil - PAH Analytical Results
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Sample Information			Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C-SIM															Benzo[a]pyrene Equivalent	
Sample ID	Sample Date	Depth (ft)	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[a]pyrene	Benzo[g,h,i]perylene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene		Pyrene
SB-1-d1.5	4/7/2015	1.5	0.0051	0.0017 ^J	0.014	0.064	0.075 [^]	0.039	0.068	0.035	0.062	0.0064	0.20 [^]	0.0035	0.032	0.0046	0.12 [^]	0.17 [^]	0.096
SB-3-d2	4/7/2015	2	ND	ND	0.0047	0.035	0.050 [^]	0.034	0.047	0.039	0.035	0.0057	0.064 [^]	ND	0.023	ND	0.030	0.067 [^]	0.067
DP-3-d1.5	4/7/2015	1.5	ND	ND	0.0013 ^J	0.013	0.028	0.0096	0.017	0.0051	0.012	ND	0.033	ND	0.0039	ND	0.011	0.051	0.023
DP-4-d1.5	4/7/2015	1.5	0.0041	0.0021 ^J	0.020	0.21[^]	0.20 [^]	0.062 [^]	0.17[^]	0.065	0.11 [^]	0.014	0.39 [^]	0.0036	0.059	ND	0.17 [^]	0.35 [^]	0.238
DP-4-d4	5/14/2015	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
SO-2a-d2	5/14/2015	2	ND	ND	0.0081	0.066	0.093	0.032	0.085	0.048	0.066	0.011	0.13	0.0013 ^J	0.045	ND	0.061	0.17	0.12
SO-2b-d2	5/14/2015	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
SO-2c-d2	5/14/2015	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
SO-2d-d2	5/14/2015	2	ND	ND	ND	0.0014 ^J	ND	0.0025 ^J	0.0014 ^J	ND	0.00096 ^J	ND	0.0013 ^J	ND	ND	ND	0.00093 ^J	0.0019 ^J	0.003
DP-5-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
DP-6-d1.5	4/7/2015	1.5	ND	ND	0.0061	0.033	0.062	0.018	0.037	0.017	0.026	0.0029 ^J	0.077	ND	0.014	ND	0.034	0.16	0.053
DP-7-d4	5/14/2015	4	ND	ND	ND	0.015 [^]	0.022 [^]	0.017 [^]	0.022 [^]	0.018 [^]	0.019 [^]	ND	0.045 [^]	ND	0.014 ^J	0.023 [^]	0.025 [^]	0.049 [^]	0.032
Water Board Environmental Screening Levels ⁽¹⁾ Residential / Industrial (Shallow Soils = < 9.8 ft)			16 / 16	13 / 13	2.8 / 2.8	0.38 / 1.3	0.38 / 1.3	0.38 / 1.3	0.038 / 0.13	27 / 27	3.8 / 13	0.11 / 0.38	40 / 40	8.9 / 8.9	0.38 / 1.3	1.2 / 1.2	11 / 11	85 / 85	0.038 / 0.13*
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3			--	--	--	--	--	0.39	--	--	3.9	--	--	--	--	--	--	--	--
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial			360 / 4,500	--	1,800 / 23,000	0.16 / 2.9	0.16 / 2.9	1.6 / 29	0.016 / 0.29	--	16 / 290	0.016 / 0.29	240 / 3,000	240 / 3,000	0.16 / 2.9	3.8 / 17	--	180 / 2,300	0.016 / 0.29*
DTSC PAH Study (2009) ⁽³⁾ Northern California 95th Percentile BaP Equivalent																		0.9	

Notes

1 = Environmental Screening Levels (ESLs): from *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, set by the San Francisco Bay Regional Water Quality Control Board (Interim Final, December 2013). The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A. Shallow Soils (<3m), Groundwater IS a current or potential Source of Drinking Water.

2 = Regional Screening Levels (RSLs): from the *USEPA Region 9 RSL Tables* (updated January 2015), and the *User's Guide* (November 2014). The RSLs are risk-based screening levels used for screening sites, calculating risk factors and potentially as cleanup goals once a site has been characterized.

3 = DTSC Advisory - Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process (July 1, 2009): Page 8, *Establishing a Practical Target to Guide Soil Excavation/Remediation*: A value of 0.9 milligrams per kilogram (mg/Kg) in BaP equivalents can be used as a pragmatic target for guiding soil excavation/remediation. This value corresponds to upper bounds of the ambient data sets. Experience at various MGP site has shown that removal/remediation of soil areas and hotspots exceeding 0.9 mg/Kg BaP equivalents is a reasonably conservative guide for the main phase of excavation/remediation activities.

* = There is no screening value for B(a)P equivalent. Results compared against screening values for Benzo(a)pyrene for reference only.

ND = Analyte not detected above the laboratory Method Detection Limit (MDL).

J = Laboratory reports that the detection value is between MDL and PQL, and should be considered to be an estimate.

^ = Method Detection Limit and Practical Quantitation Limit raised after sample was diluted. Dilutions were necessary due to elevated analyte concentrations or matrix interferences.

BOLD = Analytical result above ESL.

Table 4: Soil - Metal Analytical Results
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Sample Information			Priority Pollutant Metals by EPA Method 6010B / 7471A													Hexavalent Chromium by EPA Method 7199	
Sample ID	Sample Date	Depth (ft)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc		
SB-1-d1.5	4/7/2015	1.5	ND	5.5	0.42 ^J	0.28 ^J	40	18	46	ND	36	ND	ND	ND	190	--	
SB-2-d1.5	4/7/2015	1.5	ND	7.9	0.44 ^J	ND	42	26	66	2.5 [^]	44	ND	0.19 ^J	ND	68	1.6	
SB-3-d2	4/7/2015	2	ND	2.8	0.16 ^J	0.32 ^J	28	11	63	ND	17	1.9	ND	ND	59	0.71 ^J	
SB-4-d1.5	4/7/2015	1.5	0.59 ^J	7.5	0.36 ^J	0.41 ^J	43	48	230	0.040 ^J	46	ND	0.14 ^J	ND	150	17	
SB-4-d4	5/14/2015	4	--	--	--	--	--	--	5.3	--	--	--	--	--	--	2.6	
SO-3a-d2	5/14/2015	2	--	--	--	--	--	--	8.7	--	--	--	--	--	--	2.7	
SO-3b-d2	5/14/2015	2	--	--	--	--	--	--	61	--	--	--	--	--	--	2.9	
SO-3c-d2	5/14/2015	2	--	--	--	--	--	--	160	--	--	--	--	--	--	1.3	
SO-3c-d4	5/14/2015	4	--	--	--	--	--	--	18	--	--	--	--	--	--	--	
SO-3d-d2	5/14/2015	2	--	--	--	--	--	--	7.4	--	--	--	--	--	--	3.0	
SO-3g-d2	5/14/2015	2	--	--	--	--	--	--	180	--	--	--	--	--	--	--	
SO-3g-d4	5/14/2015	4	--	--	--	--	--	--	6.8	--	--	--	--	--	--	--	
SO-3i-d2	6/15/2015	2	--	--	--	--	--	--	36	--	--	--	--	--	--	--	
SO-3j-d2	6/15/2015	2	--	--	--	--	--	--	150	--	--	--	--	--	--	--	
SO-3j-d4	6/15/2015	4	--	--	--	--	--	--	70	--	--	--	--	--	--	--	
SO-3k-d2	6/15/2015	2	--	--	--	--	--	--	140	--	--	--	--	--	--	--	
SO-3k-d4	6/15/2015	4	--	--	--	--	--	--	120	--	--	--	--	--	--	--	
SO-3m-d2	6/15/2015	2	--	--	--	--	--	--	150	--	--	--	--	--	--	--	
DP-3-d1.5	4/7/2015	1.5	ND	4.9	0.43 ^J	0.11 ^J	44	15	35	ND	38	1.9	ND	ND	48	1.8	
DP-4-d1.5	4/7/2015	1.5	ND	5.4	0.33 ^J	0.071 ^J	42	35	230	0.078 ^J	39	1.0	0.12 ^J	ND	59	1.4	
DP-4-d4	5/14/2015	4	--	--	--	--	--	--	6.4	--	--	--	--	--	--	--	
Laboratory Practical Quantitation Limit (PQL)			5.0	1.0	0.50	0.50	0.50	1.0	2.50	0.16	0.50	1.0	0.5	5.0	2.5	1.0	
Environmental Screening Levels (ESLs) ⁽¹⁾ Residential / Industrial (Shallow Soils = < 9.8 ft, Tier 1 Levels)			20 / 40	0.39 / 1.6 7.6*	4.0 / 8.0	12 / 12	1,000 / 2,500	230 / 230	80 / 320	6.7 / 10	150 / 150	10 / 10	20 / 40	0.78 / 10	600 / 600	8.0 / 8.0	
ESLs - Direct Exposure Residential / Industrial			0.39 / 1.6												ESLs - Direct Exposure Residential / Industrial		21 / 110
ESLs - Ecological Receptors Residential / Industrial			20 / 40												ESLs - Ecological Receptors Residential / Industrial		8.0 / 8.0
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3 Residential / Industrial			--	0.11 / 0.42	3.0 / 21	4.5 / 5.7	36,000 / 270,000	--	--	0.89 / 3.9	0.42 / 1.3	--	--	--	--	--	
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial			3.1 / 47	0.68 / 3.0	16 / 230	7.0 / 98	--	310 / 4,700	400 / 800	0.94 / 4.0	--	39 / 580	39 / 580	--	2,300 / 35,000	0.3 / 6.3	

Table 4: Soil - Metal Analytical Results
274 Kearney Street, Watsonville, CA

All soil results are in milligrams per Kilogram (mg/Kg)

Sample Information			Priority Pollutant Metals by EPA Method 6010B / 7471A													Hexavalent Chromium by EPA Method 7199
Sample ID	Sample Date	Depth (ft)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	
SO-2a-d2	5/14/2015	2	--	--	--	--	--	--	190	--	--	--	--	--	--	--
SO-2a-d4	5/14/2015	4	--	--	--	--	--	--	73	--	--	--	--	--	--	--
SO-2b-d2	5/14/2015	2	--	--	--	--	--	--	6.6	--	--	--	--	--	--	--
SO-2c-d2	5/14/2015	2	--	--	--	--	--	--	6.9	--	--	--	--	--	--	--
SO-2d-d2	5/14/2015	2	--	--	--	--	--	--	34	--	--	--	--	--	--	--
SO-2e-d2	5/14/2015	2	--	--	--	--	--	--	43	--	--	--	--	--	--	--
SO-2i-d2	6/15/2015	2	--	--	--	--	--	--	5	--	--	--	--	--	--	--
SO-2j-d2	6/15/2015	2	--	--	--	--	--	--	22	--	--	--	--	--	--	--
DP-5-d1.5	4/7/2015	1.5	ND	4.5	0.21 ^J	ND	55	13	5.1	0.16	69	1.1	0.13 ^J	ND	32	--
DP-6-d1.5	4/7/2015	1.5	ND	4.6	0.38 ^J	ND	53	13	19	0.080 ^J	49	ND	0.11 ^J	ND	32	1.4
DP-7-d4	4/7/2015	4	ND	3.7	0.38 ^J	ND	42	37	20	ND	35	ND	ND	ND	49	1.7
Laboratory Practical Quantitation Limit (PQL)			5.0	1.0	0.50	0.50	0.50	1.0	2.50	0.16	0.50	1.0	0.5	5.0	2.5	1.0
Environmental Screening Levels (ESLs) ⁽¹⁾ Residential / Industrial (Shallow Soils = < 9.8 ft, Tier 1 Levels)			20 / 40	0.39 / 1.6 7.6*	4.0 / 8.0	12 / 12	1,000 / 2,500	230 / 230	80 / 320	6.7 / 10	150 / 150	10 / 10	20 / 40	0.78 / 10	600 / 600	8.0 / 8.0
ESLs - Direct Exposure Residential / Industrial				0.39 / 1.6	ESLs - Direct Exposure Residential / Industrial											21 / 110
ESLs - Ecological Receptors Residential / Industrial				20 / 40	ESLs - Ecological Receptors Residential / Industrial											8.0 / 8.0
DTSC - Human and Ecological Risk Office (HERO) Human Health Risk Assessment - Note 3 Residential / Industrial			--	0.11 / 0.42	3.0 / 21	4.5 / 5.7	36,000 / 270,000	--	--	0.89 / 3.9	0.42 / 1.3	--	--	--	--	--
USEPA Region 9 Regional Screening Levels (RSLs) ⁽²⁾ Residential / Industrial			3.1 / 47	0.68 / 3.0	16 / 230	7.0 / 98	--	310 / 4,700	400 / 800	0.94 / 4.0	--	39 / 580	39 / 580	--	2,300 / 35,000	0.3 / 6.3

Notes

- Environmental Screening Levels (ESLs):** from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, December 2013). The ESLs are intended to provide quantitative guidance on whether remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A. Shallow Soils (<3m), Groundwater IS a current or potential Source of Drinking Water.
 - Regional Screening Levels (RSLs):** from the USEPA Region 9 RSL Tables (updated January 2015), and the User's Guide (November 2014). The RSLs are risk-based screening levels used for screening sites, calculating risk factors and potentially as cleanup goals once a site has been characterized.
 - DTSC Advisory - Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process (July 1, 2009):** Page 8, Establishing a Practical Target to Guide Soil Excavation/Remediation: A value of 0.9 milligrams per kilogram (mg/kg) in BaP equivalents can be used as a pragmatic target for guiding soil excavation/remediation. This value corresponds to upper bounds of the ambient data sets. Experience at various MGP site has shown that removal/remediation of soil areas and hotspots exceeding 0.9 mg/Kg BaP equivalents is a reasonably conservative guide for the main phase of excavation/remediation activities.
- * = Analysis of the 95% Upper Confidence Limit for arsenic in 16 shallow soil samples that were collected to establish background concentrations for metals in the Watsonville area yields a concentration of 7.6 mg/kg. Analysis of the 95% Upper Confidence Limit for arsenic collected from 9 on-site shallow soil samples yields a concentration of 6.3 mg/kg (see Appendix F of this report for reference and 95% UCL analysis). The data confirms **that the on-site concentrations of arsenic fall within the range of naturally occurring background concentrations for this area of Watsonville.**
- J = Laboratory reports that the detection value is between MDL and PQL, and should be considered to be an estimate.
- <# = Constituent not detected above the laboratory's Method Detection Limit (MDL), and is therefore non-detectable.
- ^ = Method Detection Limit and Practical Quantitation Limit raised after sample was diluted. Dilutions were necessary due to elevated analyte concentrations or matrix interferences.
- BOLD =** Analytical result above Residential ESL, RSL, or HERO Note 3 values.
- = Not analyzed for

Table 5: Polychlorinated Biphenyls (PCBs) - Analytical Results

274 Kearney Street, Watsonville, CA

All PCB results in milligrams per Kilogram (mg/Kg)

Sample Identification	Sample Date	Sample Depth (ft, bgs)	Total PCBs by EPA Method 8082							Total PCBs
			PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	
SB-2-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND
SB-3-d2	4/7/2015	2	ND	ND	ND	ND	ND	ND	0.0046 ¹	ND
SB-4-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND
DP-3-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND
DP-4-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND
DP-6-d1.5	4/7/2015	1.5	ND	ND	ND	ND	ND	ND	ND	ND
DP-7-d4	5/14/2015	4	ND	ND	ND	ND	ND	ND	ND	ND
Laboratory Practical Quantitation Limit (PQL)			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Residential / Commercial Environmental Screening Levels (ESLs) ¹			0.22 / 0.74	0.22 / 0.74	0.22 / 0.74	0.22 / 0.74	0.22 / 0.74	0.22 / 0.74	0.22 / 0.74	0.22 / 0.74

NOTES:

Units = All values are in milligrams per kilogram (mg/Kg), equivalent to parts per million (ppm) unless indicated otherwise.

bgs = below ground surface

BOLD = Analytical result above ESL.

1 = **Environmental Screening Levels (ESLs)**: from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, December 2013). The ESLs are intended to provide quantitative guidance on whether remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, Table A.

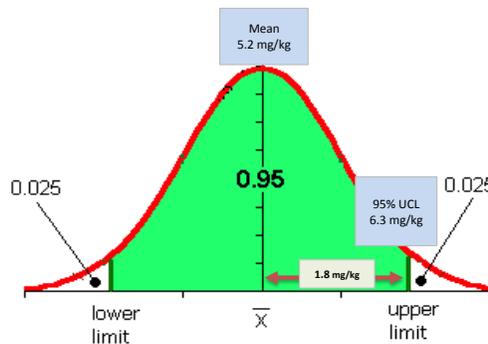
J = Laboratory note indicating a value that is below the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL), and is therefore an estimated value.

ND = Not detected at or above the Method Detection Limit (MDL).

Analysis of the 95% Upper Confidence Limit (95% UCL) for On-Site Arsenic Concentrations in Shallow Soils
274 Kearney Street, Watsonville

Sample Identification	Total Arsenic
SB-3-d2	2.8
DP-7-d4	3.7
DP-5-d1.5	4.5
DP-6-d1.5	4.6
DP-3-d1.5	4.9
DP-4-d1.5	5.4
SB-1-d1.5	5.5
SB-4-d1.5	7.5
SB-2-d1.5	7.9

95% UCL Calculation	
COUNT (# OF samples)	9
STDEV (calculated standard deviation)	1.6
CONFIDENCE	1.1
MEAN (average concentration of data set)	5.2
95 % UCL (=MEAN + CONFIDENCE)	6.3



Notes:

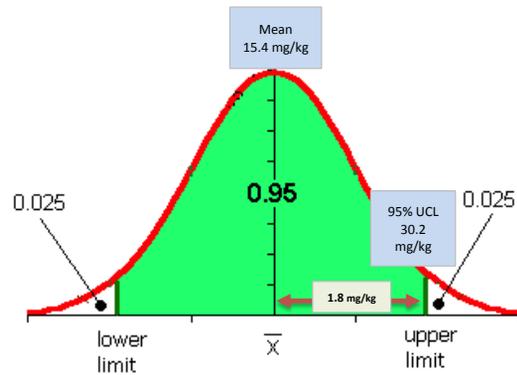
The **Confidence Interval** measures the probability that a statistical parameter will fall between the upper and lower bound of a probability distribution and is calculated using the average mean and the standard deviation.

Samples obtained during current Phase II Environmental Site Assessment - see Table 4 of this report for details.

Background Levels for Arsenic - PG&E Manufactured Gas Site No. 2
Analysis of the 95% Upper Confidence Limit (95% UCL) for Arsenic Concentrations in Shallow Soils
Data Source: Remedial Investigation Report: Watsonville 2 Former Manufactured Gas Plant Site,
11 Walker Street, Watsonville, Uribe and Associates, dated September 4, 2003.

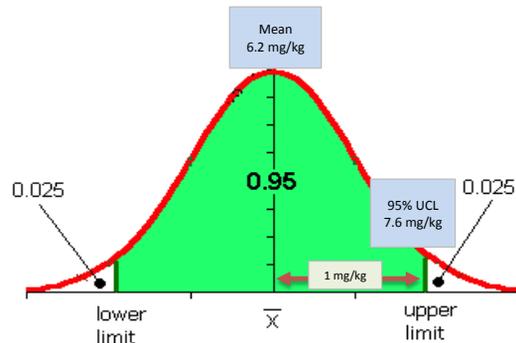
Sample Identification	Total Arsenic
BG-11	2.2
BG-4	2.2
BG-12	5.0
BG-5	5.2
BG-1	5.2
BG-15	5.3
BG-16	5.3
BG-3	5.8
BG-2	6.4
BG-14	6.5
BG-6	8.4
BG-7	9.3
BG-10	10.3
BG-9	10.5
BG-8	32.7
BG-13	126.0

95% UCL Calculation	
COUNT (# OF samples)	16
STDEV (calculated standard deviation)	30.3
CONFIDENCE	14.9
MEAN (average concentration of data set)	15.4
95 % UCL (=MEAN + CONFIDENCE)	30.2



**Analysis After Removing the
 Two highest Arsenic Detections
 (i.e. BG-8 & BG-13)**

95% UCL Calculation	
COUNT (# OF samples)	14
STDEV (calculated standard deviation)	2.6
CONFIDENCE	1.4
MEAN (average concentration of data set)	6.2
95 % UCL (=MEAN + CONFIDENCE)	7.6



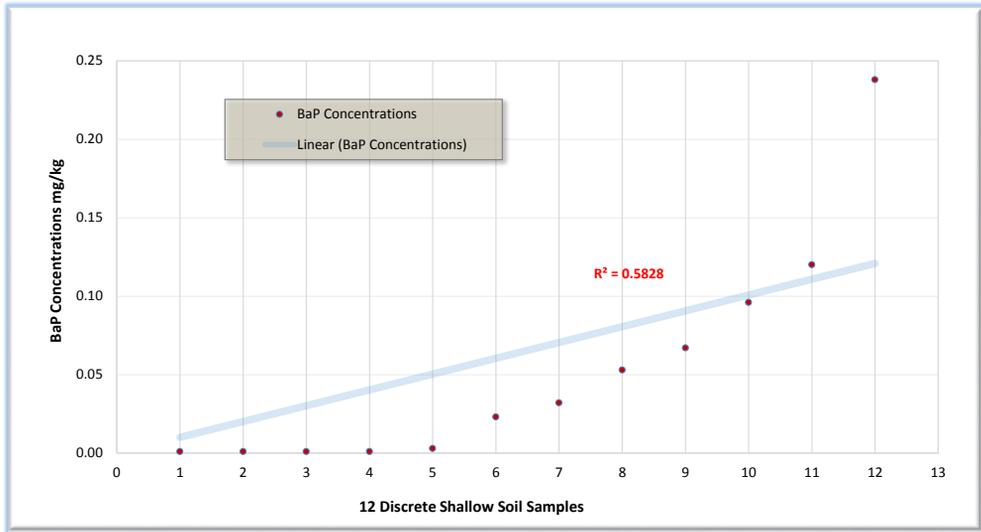
Notes:

The **Confidence Interval** measures the probability that a statistical parameter will fall between the upper and lower bound of a probability distribution and is calculated using the average mean and the standard deviation.

A 2003 background assessment for metals in shallow soil was completed for the Watsonville area by Uribe & Associates: *Remedial Investigation Report, Watsonville 2 Former Manufactured Gas Plant Site, Pacific Gas and Electric Company, GC Yard 11, Walker Street, Watsonville, California*, September 4, 2003. Based on the 16 sample data set, the 95% Upper Confidence Limit for background arsenic concentrations is 7.6 mg/kg

**Chart Analysis of the
95% Upper Confidence Level (95% UCL) for BaP Equivalents
PRE-REMEDIAL ACTION**

Sample Identification	Total BaP
DP-4-d4	0.001
SO-2b-d2	0.001
SO-2c-d2	0.001
DP-5-d1.5	0.001
SO-2d-d2	0.003
DP-3-d1.5	0.023
DP-7-d4	0.032
DP-6-d1.5	0.053
SB-3-d2	0.067
SB-1-d1.5	0.096
SO-2a-d2	0.120
DP-4-d1.5	0.238



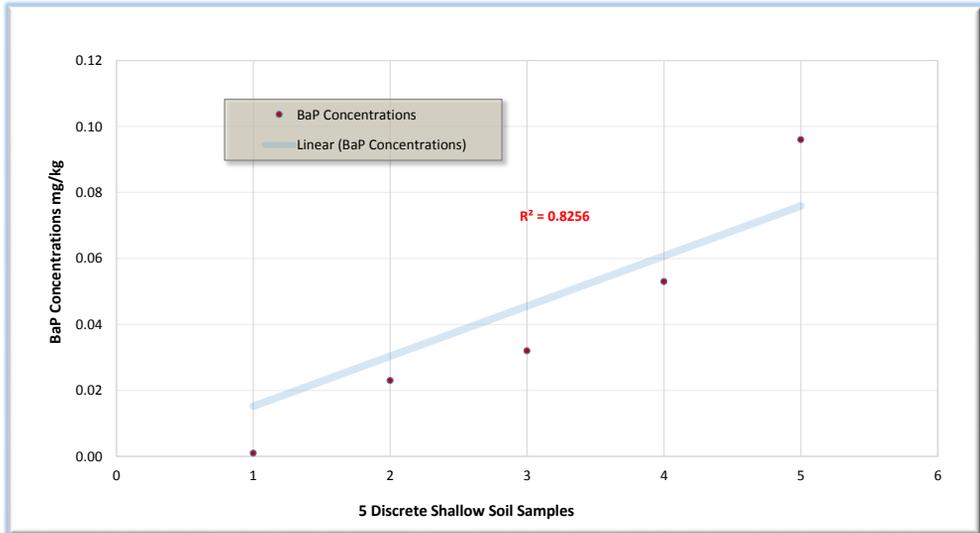
All data points included

95% UCL Calculation	
COUNT (# OF samples)	12
STDEV (calculated standard deviation)	0.071
CONFIDENCE	0.040
MEAN (average concentration of data set)	0.053
95 % UCL (=MEAN + CONFIDENCE)	0.093

* 0.001 value = Non-detectable results for all PAH constituents are reported as half of the laboratory MDL. Therefore, 0.001 means that no PAH constituents were detected.

**Chart Analysis of the
95% Upper Confidence Level (95% UCL) for BaP Equivalents
POST-REMEDIAL ACTION**

Sample Identification	Total BaP
DP-5-d1.5	0.001
DP-3-d1.5	0.023
DP-7-d4	0.032
DP-6-d1.5	0.053
SB-1-d1.5	0.096



Excluding DP-4-d1.5 and SO-2a-d2 - Proposed for Removal

95% UCL Calculation	
COUNT (# OF samples)	5
STDEV (calculated standard deviation)	0.036
CONFIDENCE	0.032
MEAN (average concentration of data set)	0.041
95 % UCL (=MEAN + CONFIDENCE)	0.073
Tier 1, Residential ESL (BaP)	0.038
Tier 1, Commercial ESL (BaP)	0.13

APPENDIX B

FIELD DOCUMENTATION

- City of Watsonville Excavating & Grading Permit No.: EG2015-5
- Field Methodology for Shallow Soil Sampling
- Field Notes
- Photo Sheets



CITY OF WATSONVILLE ON/OFF SITE

CDD Permit Center
250 Main Street
Watsonville, CA 95076
(831)768-3050
Fax (831)728-6154

Maintain a copy of this permit at project site at all times.

Permit No.:	EG2015-5	Applied:	9/10/2015
Permit Type:	Excavating & Grading	Issued:	
Job Address:	274 Kearney Street (Farmers Processing)	Parcel No.:	018-291-38
Owner:	FARMERS PROCESSING INC ETAL		
Applicant:	Weber Hayes Inc.		722-3580
Contractor:	RANDAZZO ENTERPRISES INC.		831-633-4420

Description of Work: Excavate approximately 300 CY of contaminated soil at three locations which underlay the recently demolished building. Work is schedule for early October. Contact Bob Berry 48 hours in advance of start. Contractor shall apply seed and any other construction site BMP as directed by the inspector to stabilize the newly backfilled excavations.

Special Inspection Required:	Amount of Security Require
Caltrans Permit Required:	Blanket Security Used:

5211	E - Minor Encroachment Permit Process	\$180.00
5206	E - Miscellaneous	\$221.00

PERMIT FEES:	\$401.00
PAYMENTS:	\$401.00
BALANCE DUE:	\$0.00

DATE FEES PAID:	VERIFIED BY:
-----------------	--------------

Improvements Completed & Approved By: _____ Date: _____

This permit expires if no work or inspections are recorded within any 180 day period.

Final/Security Release Approved By: _____ Date: _____

CALL FOR INSPECTION
24-Hour Recorder Number:
(831) 768-3060

Please state the type of inspection, job address, date inspection needed, and permit number. Request for inspections should be made by 4:00 pm the day before the inspection is needed.

All garbage generated by this project must be serviced by the City of Watsonville Solid Waste Division and taken to the City's dump facility. WMC Section 6-3 SW - 768-3161.

I certify that I have read this application and state that the information on both sides of this form is correct and agree with all declarations, fees and/or notices on both sides of this form.

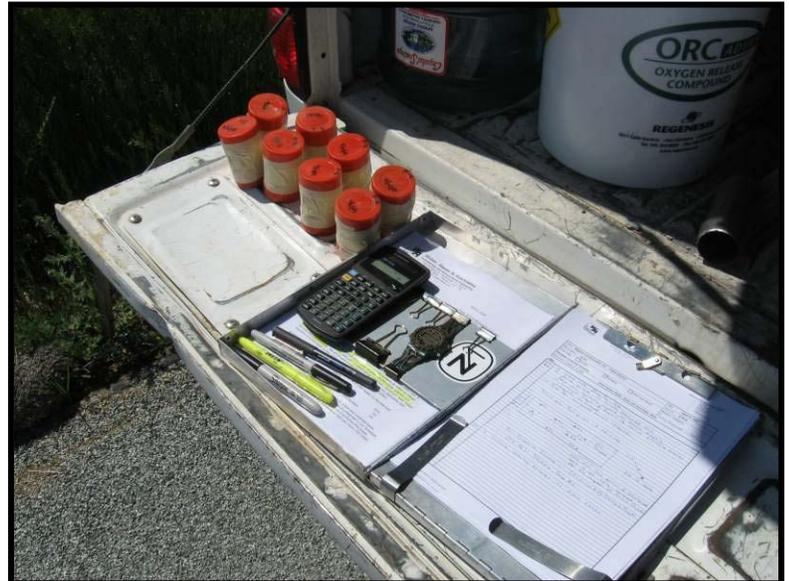
Signature: _____ Date: 9/10/15
(Contractor/Agent)

Signature: _____ Date: 9-10-15
(Issued by - Dept. Representative)

Field Methodology for Shallow Soil Sampling

This field methodology describes the methods used during shallow soil sampling investigations. Included are specifications for shallow soil sampling with a slide hammer, and decontamination procedures.

Shallow Soil Sampling Procedures: A backhoe, two person power auger, or a hand auger will be used to get to a point immediately above the sampling depth. Once at the desired sampling depth, a slide hammer will be used to drive a clean stainless steel liner encased in the slide hammer sampling shoe to obtain a relatively undisturbed sample. The slide hammer consists of a metal rod with one end containing a sampling shoe and cutting head with which a sample liner can be installed. At the other end of the metal rod there is a handle that is constrained on the rod, but slides up and down the rod allowing force to be applied to the sampling shoe. Manual operation is used to slide the handle down the rod to force the sampling shoe equipped with the liner into native soils.



Materials retrieved from the sampler will be logged on an as-needed basis by the experienced field geologist using the Unified Soil Classification System (USCS), noting in particular, the lithology of the soils, moisture content, and any unusual odor or discoloration. The liner and relatively undisturbed soils will then be removed from the sampling shoe. The liner is then protected at both ends with Teflon tape, sealed with non-reactive caps, taped, and immediately stored in an insulated container cooled with blue ice at a temperature of 4 degree Celsius or less. Soil samples selected for Volatile Organic Compound (VOC) analysis will follow field preservation protocols according to EPA Method 5035, as described in DTSC's *Guidance Document for the Implementation of United States Environmental Protection Agency Method 5035: Methodologies for Collection, Preservation, Storage, and Preparation of Soils to be Analyzed for Volatile Organic Compounds*, dated November 2004. Selected samples will be transported under appropriate chain-of-custody documentation to a State certified laboratory performing the targeted analysis.

Samples scheduled to be composited prior to analyses will be composited by the analytical laboratory according to their procedures prior to analyses.

Upon completion of sampling at the designated location, the location will be backfilled and compacted with the materials that were removed prior to sampling, supplemented by clean imported fill as necessary.

Equipment Decontamination and Containerization Procedures: All sampling equipment will be cleaned prior to arriving on site to prevent possible transfer of contamination from another site. Additionally, sampling equipment will be thoroughly cleaned between each sampling run with a Liqui-Nox ® or Alconox ® solution followed by a double rinsing with distilled water to prevent the vertical transfer of contamination, and/or contamination from location to location onsite. Accordingly, all sampling equipment will be cleaned following sampling operations to prevent the possible transfer of contamination to another site.

All cleaning rinsate, and wash water produced during the shallow soil sampling and decontamination process will be containerized on site in D.O.T. approved 55-gallon drums for subsequent profiling and disposal at an approved facility.



INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial	Date: 10/15/15
Site Location: 274 Kearney Street, Watsonville, CA	Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input checked="" type="checkbox"/> Other (see below):	Weather Conditions:
Remedial Excavations	Mostly Cloudy, Cool
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)	

TIME:

0650	⇒ Arrive onsite
0700	⇒ Randazzo (4 man crew) onsite. Sam = Foreman / operator • Go over work scope and contaminants of potential concern ↳ Discuss dermal contact exposure - to be avoided. ↳ wear gloves / wash hands.
0715	⇒ Paint out limits of excavations • Crew removing some fencing at Area A to access soils to property line.
0730	Begin removing surface covering at Area A (Asphalt and Concrete) ↳ Stockpiled onsite for subsequent off-haul and recycling.
0830	⇒ Surface covering removed at Area A → Begin soil excavation ↳ Lead impacted soils are being stockpiled on concrete slab near excavation. ↳ See attached figure for excavation locations.
1130	⇒ Area A excavation completed to prescribed limits - Advanced undefined 10 x 15' area at SE of excavation foot print to 6' bgs ↳ Torrent Labs courier scheduled to pick up confirmation soil samples @ 1300 (1:00 PM) → Will wait to collect samples until ~1230 to give SC-HSA inspector the opportunity to witness sampling.
1135	⇒ Remove surface covering (asphalt) from Area B (lead impacted) ↳ then advance prescribed excavation. ↳ Area B soils will be stockpiled w/ Area A soils (Also lead impacted)
1145	⇒ Bob Berry (City of Watsonville Public Works - grading permit inspector) onsite ↳ Requires that all stockpiled material be covered w/ plastic sheeting w/ wattles around base of piles. ↳ May require backfilled excavations be seeded if they are to remain through the winter. ↳ No other stormwater controls required at this time.
1215	⇒ Collect confirmation soil samples from Area A excavation where previously undefined → See attach Site map for locations & Sample IDs

Jered Chaney 10/15/15
 Signature of Field Personnel & Date



INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial	Date: 10/16/15
Site Location: 274 Kearney Street, Watsonville, CA	Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input checked="" type="checkbox"/> Other (see below):	Weather Conditions: Mostly foggy + Cool
Remedial Excavations	
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)	

TIME:

0700	⇒ Arrive on-site ~ Dondozzo (3 man crew) on-site. Foreman = Sam ↳ Prep to advance Area C excavation to 4' bgs - Soil generated from this excavation will be stockpiled separately from lead impacted soil.
0710	⇒ Collect 5 discrete soil samples from lead impacted stockpile - Per Marine Lead Fill profiling requirements 5 discrete samples for stockpiles 200-500 yds.
0815	⇒ Commence Area C excavation - Pb impacted soil stock pile ≈ 50' long, ~30' wide, ~7' high ↳ collect discrete samples P-1 through P-5 for every 10' section (divided pile) Sketch of pile (not to scale)
<p>Note: ~1' of recently graded crushed rock covering surface of Area C excavation will be moved aside (if not for disposal) and reused as fill/cover material ↳ This base layer represents the original grade during delineation drilling, therefore excavation will be advanced 4' below this base rock grade.</p>	
0950	⇒ Area C excavation complete. ⇒ Stockpiling soil on concrete slab at designated location
1000	⇒ Mob to SV Sprinkler supply to pick up straw wattles to place around base of stockpiles as required by CWPW.

Jared Chaney 10/16/15
 Signature of Field Personnel & Date



Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

120 Westgate Dr., Watsonville, CA 95076

PH: (831) 722-3580 FAX: (831) 722-1159

www.weber-hayes.com

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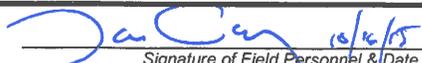
INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial		Date: 10/16/15
Site Location: 274 Kearney Street, Watsonville, CA		Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling	<input checked="" type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (see below):
Remedial Excavations		Weather Conditions: Partial low Clouds, Cool
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)		

TIME:

1100	⇒ Collect 3 discrete soil samples from Area-C stockpile for Marions Landfill acceptance profiling. Criteria is 3 discrete samples per 100yds - Stockpile is ~ 50-60 yds. ↳ Sample ID's = TPH-SP-P1, -P2, -P3
1500	⇒ Site thoroughly swept/cleaned up. → All excavations secured w/ caution tape and delimiters → All Stockpiles completely covered w/ plastic and secured w/ roped together sand bags ↳ Demos
	Note: Collected Stockpile Soil samples placed in ice chilled cooler for transport to BC Lab courier later today.
	JC 10/16/15


Signature of Field Personnel & Date



INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial	Date: <u>10/19/15</u>
Site Location: 274 Kearney Street, Watsonville, CA	Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input checked="" type="checkbox"/> Other (see below):	Weather Conditions:
Remedial Excavations	<u>Partial low clouds/fog - Cool</u>
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)	

TIME:

0700	<p>=> Arrive onsite</p> <ul style="list-style-type: none"> • Randazzo (2 man crew) - Foreman = Sam onsite • Will remove accessible soils from sidewalk location where confirmation soil sample CA-2a-d2 was collected and revealed a concentration of lead at 320 mg/kg (Commercial Environmental Screening Level [ESL] threshold set at 320 mg/kg, Residential ESL set at 80 mg/kg). ↳ Note: Southern excavation sidewalk at Confirmation Samples CA-3a-d4 (lead = 93 mg/kg) and CA-4a-d2 (lead = 120 mg/kg) are inaccessible for further soil removal due to property line slope stability concerns and erosion concerns - topography slopes towards southern property line ~ 5' or so.
0715	<p>=> Remove concrete surface covering at CA-2 location</p> <ul style="list-style-type: none"> - will remove soils to 4' bgs ~ 5' back from impacted sidewalk location. ↳ Note -> CA-2a-d4 (Four Foot sidewalk sample) revealed a concentration of lead at 83 mg/kg -> marginally above the residential threshold of 80 mg/kg.
0800	<p>=> Commence w/ soil removal.</p>
0900	<p>=> Additional soil removal complete (~ 5' x 10' x 4' ≈ 7.4 yds)</p> <ul style="list-style-type: none"> ↳ Collect sidewalk confirmation soil sample @ 2' bgs sample ID = CA-2b-d2 → Transfer removed soils to "lead impacted" soil stockpile. ↳ Cover and secure pile
1010	<p>=> Site secured → Randazzo Demoss</p> <ul style="list-style-type: none"> • Mob to SV Sprinkler/Supply → need additional straw with for stockpile, then return to install. → Collected confirmation soil sample will be delivered to BC Labs courier later today.

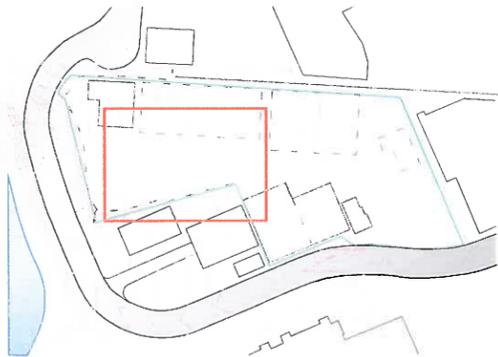
Jered Chaney 10/19/15
 Signature of Field Personnel & Date

EXPLANATION

- DP-1** Summary of soil analytical results for samples collected on April 7, 2015.
 - DP-7** Summary of soil analytical results for samples collected on May 14, 2015.
 - SB-2** Summary of soil analytical results for samples collected on April 7, 2015.
 - SO-1a** Additional Step-Out Soil Boring Locations
Soil sampling at 2 and 4 ft bgs, collected on May 14 and June 15, 2015.
- Proposed Areas for Remedial Excavation of shallow soils to 4 ft bgs
 Proposed Areas for Remedial Excavation of shallow soils to 5 ft bgs*
- NA = not analyzed
 ND = analyte not detected above the laboratory Method Detection Limit (MDL).
 J = Laboratory reported an estimated value (i.e. a detection at the lower end of the laboratory's analytical capability).

Approximate fence line
 Parcel Boundaries

TARGET AREA LOCATOR



DP-4

Depth:	1.5'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	NA
Diesel:	6.8 J	NA
Motor/Hydraulic Oil:	33	NA
All Other Ranges:	ND	NA
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	0.238	0.001
POLYCHLORINATED BIPHENYLS (PCBs)		
All PCBs:	ND	NA
METALS		
Arsenic:	5.4	NA
Lead:	230	6.4
Mercury:	0.078 J	NA
Chromium IV:	1.4	NA

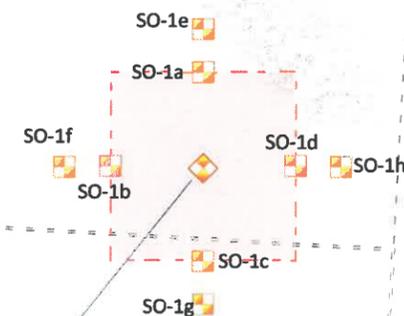
SB-4

Depth:	1.5'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	NA
Diesel:	14	NA
Motor/Hydraulic Oil:	90	NA
All Other Ranges:	ND	NA
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs)		
All PCBs:	ND	NA
METALS		
Arsenic:	7.5	NA
Lead:	230	5.3
Mercury:	0.04 J	NA
Chromium IV:	17	2.6

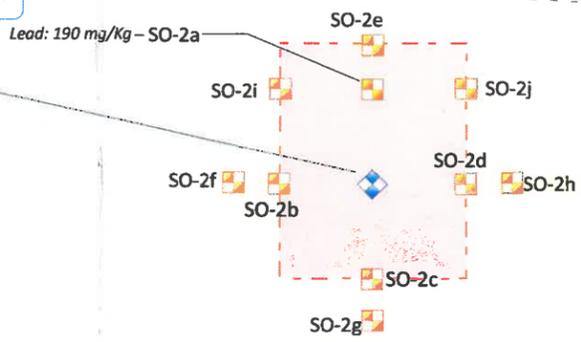
SB-3

Depth:	2'	4'
TOTAL PETROLEUM HYDROCARBONS		
Gasoline:	ND	ND
Diesel:	15	ND
Motor/Hydraulic Oil:	130	ND
All Other Ranges:	ND	ND
SEMI-VOLATILE ORGANIC COMPOUNDS		
BaP Equivalent:	0.057	NA
POLYCHLORINATED BIPHENYLS (PCBs)		
PCB 1260:	0.0045 J	NA
All Other PCBs:	ND	NA
METALS		
Arsenic:	2.8	NA
Lead:	63	NA
Mercury:	ND	NA
Chromium IV:	0.71 J	NA

FORMER COLD STORAGE BUILDING NO. 1
DEMOLISHED IN FEBRUARY-MARCH 2015

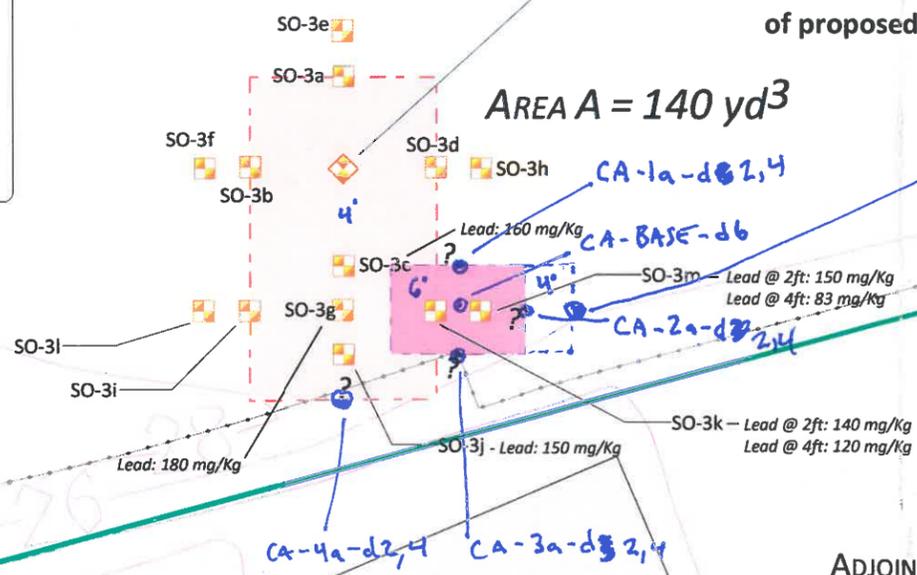


AREA C = 61 yd³



AREA B = 76 yd³

NOTE: Results only show for soil samples with concentrations of Contaminants of Concern that exceed Tier 1 Residential ESLs. All other sample locations are below ESLs, and define the limits of proposed remedial excavations.



AREA A = 140 yd³

FORMER COLD STORAGE BUILDING NO. 2
TO BE DEMOLISHED

ADJOINING PROPERTY
284 KEARNEY STREET EXTENSION
APN: 018-291-37

FIGURE 3
Project 2X513.C

REMEDIAL EXCAVATION AREAS
WORK PLAN FOR REMEDIAL EXCAVATION

SITE: FORMER FARMERS COLD STORAGE
ADDRESS: 274 KEARNEY STREET, WATSONVILLE

REVISIONS/NOTES: 07/17/2015 - JA

DATE: JULY 2015



WEBER, HAYES & ASSOCIATES
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA
831.722.3580 / www.weber-hayes.com



INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial	Date: 10/22/15
Site Location: 274 Kearney Street, Watsonville, CA	Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling <input type="checkbox"/> Sampling <input type="checkbox"/> Other (see below):	Weather Conditions: Partial Fog - Cool
Remedial Excavations - Confirmation Sampling.	
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)	

TIME:

1130 => Arrive onsite w/ Dan Koehler (WHA)

- ↳ Based on conversation w/ and requirements of Santa Cruz Health services agency (Scott Carson); will collect additional soil samples to pre-define Area-A eastern sidewall of 6'x4' excavation footprint.
- ↳ Elevated concentration of lead at CA-2b-d2 (960 mg/kg)
- Per County Sampling requirements, will collect sample at 2' bgs, 5' east of CA-2b-d2 (ID: CA-2c-d2)
- ↳ ~~also~~ Will also collect sample at 4' at CA-2a side wall location, and at North and South corners of current excavation limits (at 2')
- ↳ Sample ID's
- ↳ N's: CA-1b-d2, CA-3b-d2
- ↳ Will also collect and hold 4' samples at these locations
- ↳ See site sketch for locations:

1315 => All samples collected - will submit to BC Labs Courier later today.

Jered Chaney 10/22/15
 Signature of Field Personnel & Date



INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial		Date: 10/29/15
Site Location: 274 Kearney Street, Watsonville, CA		Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling <input type="checkbox"/> Sampling <input checked="" type="checkbox"/> Other (see below):	Weather Conditions: Foggy, Cool	
Remedial Excavations		
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)		

TIME:

0630	⇒ Arrive onsite • Randazzo - 2 Man Crew (Foreman = Gregorio) onsite • McRae trucking (1st end dump truck) onsite
0710	⇒ Begin loading impacted soils to haul to Marine Landfill → Haul back Marine fill sand to back fill excavations
0730	⇒ McRAE (2nd truck - on site for load out)
0745	⇒ 2nd McRAE truck off 1st Randazzo truck in.
0810	⇒ Randazzo 1st truck out to Marine • Randazzo 2nd truck in to load.
0830	⇒ Randazzo 2nd truck off to Landfill. ⇒ Have Randazzo remove predefined soils from Area-A South-east portion of excavation that had elevated lead detected in confirmation sample CA-26-d2 - Dig out 10' x 5' section to 4' bgs (pre-defined "clean" limits)
0900	⇒ Additional soil removal from Area-A (~8 yds ³) complete. ↳ Soil will be off-hauled w/ other soils Note: Soil cuttings generated during Phase II/delineation (1/2 drum) added to soils for off-hauling to landfill.
0915	⇒ First McRae truck back (~1:45 min loop) → Dump clean fill sand at Area-C excavation, and load out
0930	⇒ 2nd McRae truck back (~1:45 min) loop ↳ Dump sand in Area-B excavation ↓ ↳ 1st McRAE Truck out.
0940	⇒ Contact Scott Carson (SC-HSA) → will meet onsite at 12:30 today for site-walk-through ↓ ↳ Demob.

Jered Chaney 10/29/15
 Signature of Field Personnel & Date



Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

120 Westgate Dr., Watsonville, CA 95076

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INDICATE ATTACHMENTS THAT APPLY

- Site Map
- Data Sheets
- Geologic Logs
- Photo Sheets
- COC's
- Chargeable Materials

Client: Appenrodt Commercial	Date: 10/29/15
Site Location: 274 Kearney Street, Watsonville, CA	Study #: 2X513.D
Field Tasks: <input type="checkbox"/> Drilling <input type="checkbox"/> Sampling <input checked="" type="checkbox"/> Other (see below):	Weather Conditions: Sunny + Fair, Slight Breeze
Remedial Excavations	
Personnel / Company On-Site: Jered Chaney (Weber, Hayes and Associates: WHA)	

TIME:

1226	⇒ Back onsite - Scheduled to meet w/ Scott Carson (SCHSA) @ 1230 → More than ~1/2 of stockpiled soils has been off-hauled. → Soil import will be rolled in and compacted tomorrow.
1245	⇒ Scott Carson onsite to inspect. → Discuss Confirmation soil sampling and cleanup @ Area A. All other excavations reduced contaminant of concern concentrations. Should be "cut & dry" for landuse covenant for commercially use restricted land use w/ no need for soil management plan / Site management plan.
1330	⇒ Scott Carson leaves site → 13+4 Truck load onsite loading out 14+4 Truck onsite to load out
1400	Demo. Crew will continue until 3:30 PM ↳ Will secure site; then resume in AM.
10/30/15 0800	⇒ Arrive onsite Pardazzo (3 man crew: Foreman = Gregorio) onsite to continue soil off haul and excavation backfill/compaction. → 2 loads out this AM; one left. → Excavation compaction in ~1.5-2 lifts w/ roller. → Install straw wattles downslope of Area A excavation (i.e. southern limit) to prevent any sediment run-off from potentially occurring at that location.
1420	⇒ Back onsite → Excavation areas B + C completely backfilled and compacted → wrap Excavation B limits w/ straw wattles ↳ Currently finishing backfill and compaction of Area A → Nearly complete. ↳ Will wrap limits of this excavation w/ straw wattles.
1500	⇒ Crew plans of finishing scope of work by end of day.

 10/30/15
Signature of Field Personnel & Date

**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area A Excavation



Area B Excavation predefined limits

**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area C Excavation predefined limits



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area A Excavation



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area A Excavation



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area A Excavation



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area B Excavation



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area B Excavation



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Soil stockpiling



Confirming depth of Area B excavation

**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area C excavation

**274 Kearney Street, Watsonville
Remedial Soil Excavation**



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Securing soil stockpiles



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area A - additional excavation of lead impacted soils



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Area A - additional excavation of lead impacted soils



Excavation backfilling

**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Soil stockpile off-hauling and excavation backfilling



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



Excavation fill compaction



**274 Kearney Street, Watsonville
Remedial Soil Excavation**



APPENDIX C

LANDFILL DISPOSAL DOCUMENTATION

- Marina Regional Waste Management District (MRWMD) - Generator Waste Profile
- MRWMD Soil Acceptance – Email dated October 26, 2015
- Summary Table of Trucking Weigh Tags
- Landfill Weigh Tickets



Monterey Regional Waste Management District

Service, Stewardship and Sustainability Since 1951

GENERATOR WASTE PROFILE

SECTION 1 – WASTE GENERATOR (Waste Generator Must Complete)

Company Name Appenrodt Commercial

Generator Site Address 274 Kearney Street Extension, Watsonville, CA

Generator Contact Name Jered Chaney - Weber, Hayes and Associates

Phone No. 831.722.3580 E-Mail Address jered@weber-hayes.com

SECTION 2 – TRANSPORTER (Hauler or Waste Generator Must Complete)

Company Name McRae Trucking Address P.O. Box 139 Brookdale, Ca

Transporter Contact Name Bill McRae Phone No. 831.212.8792

SECTION 3 – WASTE DESCRIPTION/PROPERTIES (Waste Generator Must Complete)

Waste Description Low-Level Concentration TPH and Lead Imacted Soils

Estimated Waste Weight or Volume 300 Tons Cubic Yards Gallons

Transported By: Debris Box Dump Truck Vacuum Truck Drum (type/size) _____ Other _____

Waste Properties (Check all that apply)

Solid Semi-Solid Sludge C & D Debris (mixed) Color(s) Brown

Powder Liquid Soil other _____ Percent Solids 100%

Laboratory Analysis (MRWMD reserves the right to require the Generator to perform additional analytical testing.)

Sampling Date October 16, 2015 Laboratory BC Laboratories Inc.

Analytical Report Attached (check-all that apply) CA Title 22 Metals Volatile Organics TPH Gas/Diesel

BTEX PCB's Semi-volatile Organics Herbicides/Pesticides Other Lead, CR VI

SECTION 4 – Generator Certification (Waste Generator must complete)

- | | YES | NO |
|---|-------------------------------------|-------------------------------------|
| 1. Is the waste represented by this waste profile sheet a "Hazardous Waste" as defined by USEPA? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

This is to certify that the waste material described herein is classified as Non-Hazardous and is not subject to Federal and California regulations for reporting proper disposal of hazardous waste. Our company hereby agrees to fully indemnify the MRWMD against any damages resulting from this certification being inaccurate or untrue.

Printed Name & Title of Authorized Agent Jered Chaney - Project Geologist, Weber Hayes & Associates

Signature of Authorized Agent [Signature] Date October 23, 2015

FOR MRWMD USE ONLY (District Weighmaster to complete)

Weighmaster Signature: _____ Weigh Ticket No. _____ Date: _____

Landfill Liquid Waste Area

Jered Chaney

From: Rick Shedden <rshedden@mrwmd.org>
Sent: Monday, October 26, 2015 1:12 PM
To: Jered Chaney (jered@weber-hayes.com); Jeannette Pagan; Tina Reid; Guy Petraborg; David Ramirez
Subject: Soil Acceptance - Watsonville
Attachments: 2015-10-16 Lead Stockpile.pdf; 2015-10-16 TPH Stockpile.pdf; GENERATOR-WASTE-PROFILE-MANIFEST-2014-Revision.pdf; 3 - Excavation Areas.pdf

The subject non-hazardous soil is acceptable for use as cover at the landfill. The tip fee is \$20.00 per ton, with a \$15.00 minimum per load, plus a \$100.00 processing fee. A completed Generator Waste Profile is attached.

Richard D. Shedden, P.E.
Senior Engineer
Monterey Regional Waste Management District
PO Box 1670 (14201 Del Monte Blvd)
Marina, CA 93933
831-384-5313 831-901-8791 (mobile)
831-384-3567 (fax) rshedden@mrwmd.org



From: Jered Chaney [mailto:jered@weber-hayes.com]
Sent: Friday, October 23, 2015 10:32 AM
To: Rick Shedden
Subject: Request for Soil Disposal - ~300 CY

Rick Shedden, Senior Engineer
Marina Landfill
Monterey Regional Waste Management District

Subject: Remedial Soil Excavation at Commercial Property - Landfill Acceptance Request (approximately 300 cubic yards of soil)

Site Location: 274 Kearney Street Extension, Watsonville, CA

Good Morning, Rick

Weber, Hayes and Associates recently coordinated the remedial excavation of some localized areas of relatively low-level concentration shallow soil impacts at the above referenced site that were discovered during a previous Phase II Environmental Site Assessment, and subsequently defined during additional site assessment activities.

The Site has an extended history of industrial land-uses. A beet sugar refinery operated from the 1880s through the 1910s. This land-use was followed by food processing and cold food storage businesses from the 1920s through 2013 when the most recent owner, Farmers Processing and Cold Storage, went out of business.

Based on historic land uses, targeted potential contaminants of concern for shallow soils were identified to be TPH, priority pollutant metals (including hexavalent chromium), PAHs, and PCBs, which were tested for and assessed via a Phase II drilling and sampling program.

Following Phase II sampling, we identified and subsequently removed the following shallow identified soil impacts (see attached Site Map for reference):

- **Area A Excavation:** Lead (detected at 230 mg/kg) and Chromium VI (detected at 17 mg/kg) were detected above conservative residential Environmental Screening Levels in boring SB-4. Subsequent delineation borings surrounding SB-4 generally defined the limits of these low-level impacts (approximately 140 CY).
- **Area B Excavation:** Lead (detected at 230 mg/kg) was detected above conservative residential Environmental Screening Level in boring DP-4. Subsequent delineation borings surrounding DP-4 defined the limits of these low-level impacts (approximately 76 CY).
- **Area C Excavation:** TPH-motor oil (detected at 130 mg/kg) was detected above the conservative residential Environmental Screening Level in boring SB-3. Subsequent delineation borings surrounding SB-3 defined the limits of these low-level impacts (approximately 61 CY).

These soils were excavated last week and stockpiled on site. The stockpiles were segregated into two piles; one with Area A and B soils (lead impacts driving the removal at these locations – approx. 220 CY) and one with Area C soils (TPH impacts driving the removal at this location – approx. 60 CY). Discrete soil samples were collected from each stockpile in accordance with MRWMD *Contaminated Soil Testing Requirements* and tested for identified contaminants of potential concern. Specifically:

- **Area A and Area B soils (approx. 220 CY):** Five (5) discrete samples were collected (Pb-SP-P1 through –P5) and submitted to BC Laboratories Inc. for Lead, PAH and Hex-Chrome analysis (laboratory report 1526564 *attached*). Results revealed the following:
 - **Lead:** concentrations ranged from 19 to 100 mg/kg
 - **Hex-chrome:** concentrations ranged from 1.6 to 2.4 mg/kg
 - **PAHs:** none of these 16 constituents exceeded commercial/industrial ESLs
- **Area C soils (approx. 60 CY):** Three(3) discrete samples were collected (TPH-SP-P1 through –P3) and submitted to BC Laboratories Inc. for TPH and PAH analysis (laboratory report 1526563 *attached*). Results revealed the following:
 - **TPH-diesel:** concentrations ranged from 6.7 to 33 mg/kg
 - **TPH-motor oil/hydraulic oil:** concentrations ranged from 62 to 410 mg/kg
 - **PAHs:** none of these 16 constituents exceeded commercial/industrial ESLs

Based on review of MRWMD’s Waste Acceptance Criteria for Special Waste, it appears that the results of soil sample analysis meet these criteria. We have completed and attached a Generator Waste Profile for these soils.

Pending your approval, we would like to haul these soils Thursday of week (October 29). We will contract with McRae trucking to haul the soils.

Thanks very much for your review and I look forward to hearing back from you.

Jered

Jered Chaney, PG
Project Geologist

Summary Table of Trucking Weigh Tags

Non-Haz Soil Stockpile Removal & Off-Hauling
 Disposal Site: Monterey Regional Waste Mgmt District Class III Landfill
 274 Kearney Street, Watsonville, CA

Date	Tag/Ticket Number	Weight (Tons)
10/29/2015		
	1381400	20.94
	1381625	22.45
	1381581	22.03
	1381564	19.67
	1381547	19.98
	1381412	18.58
	1381426	19.18
	1381300	20.05
	1381442	19.53
	1381268	19.70
	1381252	19.87
	1381214	21.79
	1381190	25.27
	1381162	20.25
	1381145	19.11
	1381332	21.14
10/30/2015		
	1381790	19.25
	1381803	20.32
	1381957	17.00
Totals:		386.11

Date	10/29/15	Ticket #	1381400	Truck #	H159915	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	418.80
Gross	74,280	37.14	D	12:20	Special Fees		0.00
Tare	32,400	16.20	B	12:20	Sales Tax		0.00
Net	41,880	20.94			Ticket Total		418.80
Job	274 KEARY ST			Note	Signature Name: BILLY		
Date	10/29/15	Ticket #	1381625	Truck #	H159935	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	449.00
Gross	78,020	39.01	C	15:19	Special Fees		0.00
Tare	33,120	16.56	B	15:19	Sales Tax		0.00
Net	44,900	22.45			Ticket Total		449.00
Job	274 KEARNY			Note	Signature Name: ALFREDO		
Date	10/29/15	Ticket #	1381581	Truck #	H159927	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	440.60
Gross	79,040	39.52	C	14:49	Special Fees		0.00
Tare	34,980	17.49	B	14:49	Sales Tax		0.00
Net	44,060	22.03			Ticket Total		440.60
Job	274 KEARNY			Note	Signature Name: TEMO		
Date	10/29/15	Ticket #	1381564	Truck #	H159921	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	393.40
Gross	71,900	35.95	D	14:37	Special Fees		0.00
Tare	32,560	16.28	B	14:37	Sales Tax		0.00
Net	39,340	19.67			Ticket Total		393.40
Job	274 KEARNY ST.			Note	Signature Name: .		
Date	10/29/15	Ticket #	1381547	Truck #	H159915	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	399.60
Gross	72,360	36.18	C	14:22	Special Fees		0.00
Tare	32,400	16.20	B	14:22	Sales Tax		0.00
Net	39,960	19.98			Ticket Total		399.60
Job	274 KEARY ST			Note	Signature Name: .		
Date	10/29/15	Ticket #	1381412	Truck #	H159921	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	371.60
Gross	69,720	34.86	C	12:34	Special Fees		0.00
Tare	32,560	16.28	B	12:34	Sales Tax		0.00
Net	37,160	18.58			Ticket Total		371.60
Job	274 KEARNY ST			Note	Signature Name: RR		
Date	10/29/15	Ticket #	1381426	Truck #	H159927	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	383.60
Gross	73,340	36.67	C	12:45	Special Fees		0.00
Tare	34,980	17.49	B	12:45	Sales Tax		0.00
Net	38,360	19.18			Ticket Total		383.60
Job	274 KEARNY			Note	Signature Name: TEMO		
Date	10/29/15	Ticket #	1381300	Truck #	H159927	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	401.00
Gross	75,080	37.54	D	10:43	Special Fees		0.00
Tare	34,980	17.49	B	10:43	Sales Tax		0.00
Net	40,100	20.05			Ticket Total		401.00
Job	274 KEARNY			Note	Signature Name: TEMO		
Date	10/29/15	Ticket #	1381442	Truck #	H159935	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	390.60
Gross	72,180	36.09	D	12:56	Special Fees		0.00
Tare	33,120	16.56	B	12:56	Sales Tax		0.00
Net	39,060	19.53			Ticket Total		390.60
Job	274 KEARNY			Note	Signature Name: ALFREDO		
Date	10/29/15	Ticket #	1381268	Truck #	H159921	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	394.00
Gross	71,960	35.98	D	10:16	Special Fees		0.00
Tare	32,560	16.28	B	10:16	Sales Tax		0.00
Net	39,400	19.70			Ticket Total		394.00
Job	274 KERNY ST			Note	Signature Name: .		
Date	10/29/15	Ticket #	1381252	Truck #	H159915	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	397.40
Gross	72,140	36.07	C	10:06	Special Fees		0.00
Tare	32,400	16.20	B	10:06	Sales Tax		0.00
Net	39,740	19.87			Ticket Total		397.40
Job	274 KEARY ST			Note	Signature Name: .		
Date	10/29/15	Ticket #	1381214	Truck #	H159935	Trl/Box#	
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	435.80
Gross	76,700	38.35	D	09:31	Special Fees		0.00
Tare	33,120	16.56	B	09:04	Sales Tax		0.00
Net	43,580	21.79			Ticket Total		435.80
Job	274 KEARNEY			Note	Signature Name: ALFREDO		

Date	10/29/15	Ticket #	1381190	Truck #	H159927		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	505.40
Gross	85,520	42.76	D	09:04	Special Fees		0.00
Tare	34,980	17.49	B	08:43	Sales Tax		0.00
Net	50,540	25.27			Ticket Total		505.40
Job	274 KEARNY			Note #175 RA NDAZZO		Signature Name: TEMO	
Date	10/29/15	Ticket #	1381162	Truck #	H159921		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	405.00
Gross	73,060	36.53	D	08:40	Special Fees		0.00
Tare	32,560	16.28	B	08:23	Sales Tax		0.00
Net	40,500	20.25			Ticket Total		405.00
Job	274 KEARNY ST.			Note #7 CW		Signature Name: RICK	
Date	10/29/15	Ticket #	1381145	Truck #	H159915		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	382.20
Gross	70,620	35.31	C	08:23	Special Fees PC-1		100.00
Tare	32,400	16.20	B	08:00	Sales Tax		0.00
Net	38,220	19.11			Ticket Total		482.20
Job	274 KEARY ST			Note		Signature Name: BILLY	
Date	10/29/15	Ticket #	1381332	Truck #	H159935		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	422.80
Gross	75,400	37.70	D	11:08	Special Fees		0.00
Tare	33,120	16.56	B	11:08	Sales Tax		0.00
Net	42,280	21.14			Ticket Total		422.80
Job	274 KEARNEY			Note		Signature Name: ALFREDO	
Date	10/30/15	Ticket #	1381790	Truck #	H160081		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	385.00
Gross	72,860	36.43	D	08:31	Special Fees		0.00
Tare	34,360	17.18	B	08:07	Sales Tax		0.00
Net	38,500	19.25			Ticket Total		385.00
Job	274 KEARNY			Note #178 RANDAZZO		Signature Name: JERRY	
Date	10/30/15	Ticket #	1381803	Truck #	H159927		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	406.40
Gross	75,620	37.81	D	08:43	Special Fees		0.00
Tare	34,980	17.49	B	08:43	Sales Tax		0.00
Net	40,640	20.32			Ticket Total		406.40
Job	274 KEARNY			Note		Signature Name: TEMO	
Date	10/30/15	Ticket #	1381957	Truck #	H160081		Trl/Box#
	Lbs	Tons	Scale	Time	Material	PETROL CONTAIMII	340.00
Gross	68,360	34.18	D	11:13	Special Fees		0.00
Tare	34,360	17.18	B	11:13	Sales Tax		0.00
Net	34,000	17.00			Ticket Total		340.00
Job	274 KEARNY			Note		Signature Name: JERRY	

Total Charges: 7,822.20

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381400

Account: WEBERZ /
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159915
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARY ST

	Lbs	Tons	Scale	WM	Time
Gross	74280	33.14	D	JCZ	12:20
Tare	32300	14.20	B	JCZ	12:20
Net	41880	18.94			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	418.80	
SQ2-ADC			

	Sales Tax	0.00
	Ticket Total	418.80
Paid Bill		418.80

Tendered	418.80
Change	0.00

BILLY

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381625

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159935
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY

	Lbs	Tons	Scale	WM	Time
Gross	78020	34.01	C	JJA	15:19
Tare	33120	14.56	B	JJA	15:19
Net	44900	20.45			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	449.00	
SQ2-ADC			

	Sales Tax:	0.00
	Ticket Total:	\$449.00
Paid Bill		449.00

Tendered	449.00
Change	0.00

ALFREDO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381561

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159927
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY

	Lbs	Tons	Scale	WM	Time
Gross	75040	33.52	C	JJA	14:49
Tare	34980	15.49	B	JJA	14:49
Net	44060	18.03			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	440.60	
SQ2-ADC			

	Sales Tax:	0.00
	Ticket Total:	\$440.60
Paid Bill		440.60

Tendered	440.60
Change	0.00

TEMO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381564

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159921
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY ST.

	Lbs	Tons	Scale	WM	Time
Gross	71900	35.95	D	JCZ	14:37
Tare	32560	16.28	B	JCZ	14:37

Net	39340	19.67			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	393.40	
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$393.40

Paid Bill

Tendered 393.40
Change 0.00



Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381547

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159915
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARY ST

	Lbs	Tons	Scale	WM	Time
Gross	72360	36.18	C	JCZ	14:22
Tare	32400	16.20	B	JCZ	14:22

Net	39960	19.98			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	399.60	
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$399.60

Paid Bill

Tendered 399.60
Change 0.00



Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381412

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159921
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY ST

	Lbs	Tons	Scale	WM	Time
Gross	69720	34.86	C	JCZ	12:34
Tare	32560	16.28	B	JCZ	12:34

Net	37160	18.58			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	371.60	
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$371.60

Paid Bill

Tendered 371.60
Change 0.00



RR

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381426

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159927
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY

	Lbs	Tons	Scale	WM	Time
Gross	73340	36.67	C	GAG	12:45
Tare	34980	17.49	B	GAG	12:45
<hr/>					
Net	38360	19.18			

Material	Price	U/M	Total
PCS-PETROL SOIL	\$20.00		383.60
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$383.60
Paid Bill 383.60

Tendered 383.60
Change 0.00

Temo

TEMO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381300

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159927
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY

	Lbs	Tons	Scale	WM	Time
Gross	75080	37.54	D	GAG	10:43
Tare	34980	17.49	B	GAG	10:43
<hr/>					
Net	40100	20.05			

Material	Price	U/M	Total
PCS-PETROL SOIL	\$20.00		401.00
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$401.00
Paid Bill 401.00

Tendered 401.00
Change 0.00

Temo

TEMO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381442

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159935
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY

	Lbs	Tons	Scale	WM	Time
Gross	72180	36.09	D	GAG	12:56
Tare	33120	16.56	B	GAG	12:56
<hr/>					
Net	39060	19.53			

Material	Price	U/M	Total
PCS-PETROL SOIL	\$20.00		390.60
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$390.60
Paid Bill 390.60

Tendered 390.60
Change 0.00

Alfredo Manzo

ALFREDO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381268

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159921
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KERNY ST

	Lbs	Tons	Scale	WM	Time
Gross	71960	35.98	D	JCZ	10:16
Tare	32560	16.28	B	JCZ	10:16
Net	39400	19.70			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	394.00	
802-ADC			

Sales Tax: 0.00
Ticket Total: \$394.00
Paid Bill 394.00

Tendered 394.00
Change 0.00

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381252

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159915
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARY ST

	Lbs	Tons	Scale	WM	Time
Gross	72140	36.07	C	JCZ	10:06
Tare	32400	16.20	B	JCZ	10:06
Net	39740	19.87			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	397.40	
802-ADC			

Sales Tax: 0.00
Ticket Total: \$397.40
Paid Bill 397.40

Tendered 397.40
Change 0.00



Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381214

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159938
Trl/Box:

Origin:WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNEY

	Lbs	Tons	Scale	WM	Time
Gross	76700	38.35	D	JAP	09:04
Tare	33120	16.56	B	JAP	09:31
Net	43580	21.79			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	435.80	
802-ADC			

Sales Tax: 0.00
Ticket Total: \$435.80
Paid Bill 435.80

Tendered 435.80
Change 0.00



ALFREDO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381190

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159927
Trl/Box:

Origin: WA-WATSONVILLE
- WA-WATS

Job: 274 KEARNY

Lbs	Tons	Scale	WM	Time
85520	42.76	D	GAG	08:43
34980	17.49	B	GAG	09:04
<hr/>				
50540	25.27			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	505.40	
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$505.40

Bill

Tendered 505.40
Change 0.00

Temo

RA NDAZZO
HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

CW #7

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381162

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159921
Trl/Box:

Origin: WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY ST.

Lbs	Tons	Scale	WM	Time
73060	36.53	D	GAG	08:23
32560	16.28	B	GAG	08:40
<hr/>				
40500	20.25			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	405.00	
S02-ADC			

Sales Tax: 0.00
Ticket Total: \$405.00

Paid Bill

Tendered 405.00
Change 0.00

RA

RICK
#7 CW

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381145

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159915
Trl/Box:

Origin: WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNY ST

	Lbs	Tons	Scale	WM	Time
Gross	70620	35.31	C	JAP	08:00
Tare	32400	16.20	B	GAG	08:23
<hr/>					
Net	38220	19.11			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	382.20	
S02-ADC			

PCS-PETROL SOIL FEE 1.00 \$100.00 \$100.00

Sales Tax: 0.00
Ticket Total: \$482.20

Paid Bill

Tendered 482.20
Change 0.00

Billy

BILLY

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/29/15 Ticket #: 1381332

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159935
Trl/Box:

Origin: WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNEY

	Lbs	Tons	Scale	WM	Time
Gross	75400	37.70	D	JCZ	11:08
Tare	33120	16.56	B	JCZ	11:08
Net	42280	21.14			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	422.80	
SO2-ADC			

	Sales Tax:	0.00
	Ticket Total:	\$422.80
Paid Bill		422.80
	Tendered	422.80
	Change	0.00

Alfredo Blanzo

ALFREDO

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/30/15 Ticket #: 1381790

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H160081
Trl/Box:

Origin: WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNEY

	Lbs	Tons	Scale	WM	Time
Gross	72860	36.43	D	GAG	08:07
Tare	34360	17.18	B	JAP	08:31
Net	38500	19.25			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	385.00	
SO2-ADC			

of the above described work.

	Sales Tax:	0.00
	Ticket Total:	\$385.00
Paid Bill		385.00
	Tendered	385.00
	Change	0.00

[Signature]

JERRY
#178 RANDAZZO
NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

Monterey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/30/15 Ticket #: 1381803

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
120 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H159927
Trl/Box:

Origin: WA-WATSONVILLE
270 - WA-WATS

Job: 274 KEARNEY

	Lbs	Tons	Scale	WM	Time
Gross	75620	37.81	D	JJA	08:43
Tare	34980	17.49	B	JJA	08:43
Net	40640	20.32			

Material	Price	Total	U/M
PCS-PETROL SOIL	\$20.00	406.40	
SO2-ADC			

	Sales Tax:	0.00
	Ticket Total:	\$406.40
Paid Bill		406.40
	Tendered	406.40
	Change	0.00

Jerry

NEW HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

terey Regional Waste Mgmt District
14201 Del Monte Blvd. PO Box 1670
Marina, CA 93933-1670 (831)384-5313

R E C E I P T

Date: 10/30/15 Ticket #: 1381957

Account: WEBERZ
WEBER HAYES & ASSOCIATES INC
1 WESTGATE DR
WATSONVILLE CA 95076

Truck No: H160081
Tires/Box:

Origin: WA-WATSONVILLE
City: WA-WATS

Address: 274 KERNY

	Lbs	Tons	Scale	WM	Time
ss	68360	34.18	D	GAG	11:13
e	34360	17.18	B	GAG	11:13

	34000	17.00			

Serial	Price	Total	U/M
-PETROL SOIL	\$20.00	340.00	
-ADC			

Sales Tax: 0.00
Ticket Total: \$340.00
Bill 340.00

Tendered 340.00
Change 0.00



BY
HOURS 11/4/13 M-F 7-4PM SAT 8-4PM

APPENDIX D

LABORATORY ANALYTICAL REPORTS

- Remedial Excavation Confirmation Sampling (Area A): Torrent Laboratory, Inc. Work Order No.: 1510072
- Remedial Excavation Confirmation Sampling (Area A): BC Laboratories, Inc. Work Order No.: 1526562
- Remedial Excavation Confirmation Sampling (Area A): BC Laboratories, Inc. Work Order No.: 1527011
- Soil Stockpile Sampling (Lead Impacted Soils): BC Laboratories, Inc. Work Order No.: 1526564
- Soil Stockpile Sampling (TPH Impacted Soils): BC Laboratories, Inc. Work Order No.: 1526563



Weber, Hayes & Associates
120 Westgate Dr
Watsonville, CA 95076
Tel: 831-722-3580
Fax: 831-662-3100
RE: Kearney St. / 2x513.D

Work Order No.: 1510072

Dear Jered Chaney:

Torrent Laboratory, Inc. received 9 sample(s) on October 15, 2015 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti Sandrock", is written over a horizontal line.

Patti Sandrock
QA Officer

October 16, 2015

Date



Date: 10/16/2015

Client: Weber, Hayes & Associates

Project: Kearney St. / 2x513.D

Work Order: 1510072

CASE NARRATIVE

No issues encountered with the preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

A preliminary report was issued earlier in the day on 10/16/15 pending the results for sample 009A. This is the final report.



Sample Result Summary

Report prepared for: Jered Chaney
Weber, Hayes & Associates

Date Received: 10/15/15
Date Reported: 10/16/15

CA-1a-d2 1510072-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	6.3	mg/Kg

CA-1a-d4 1510072-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	7.9	mg/Kg

CA-2a-d2 1510072-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	320	mg/Kg

CA-2a-d4 1510072-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	83	mg/Kg

CA-3a-d2 1510072-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	49	mg/Kg

CA-3a-d4 1510072-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	93	mg/Kg

CA-4a-d2 1510072-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	120	mg/Kg



Sample Result Summary

Report prepared for: Jered Chaney
Weber, Hayes & Associates

Date Received: 10/15/15
Date Reported: 10/16/15
1510072-008

CA-4a-d4

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	24	mg/Kg

CA-BASE-d6

1510072-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead	SW6010B	1	0.13	1.0	7.1	mg/Kg



SAMPLE RESULTS

Report prepared for: Jered Chaney
Weber, Hayes & Associates

Date Received: 10/15/15
Date Reported: 10/16/15

Client Sample ID:	CA-1a-d2	Lab Sample ID:	1510072-001A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	6.3		mg/Kg	427359	15531

Client Sample ID:	CA-1a-d4	Lab Sample ID:	1510072-002A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	7.9		mg/Kg	427359	15531

Client Sample ID:	CA-2a-d2	Lab Sample ID:	1510072-003A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	320		mg/Kg	427359	15531

Client Sample ID:	CA-2a-d4	Lab Sample ID:	1510072-004A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	83		mg/Kg	427359	15531

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SAMPLE RESULTS

Report prepared for: Jered Chaney
Weber, Hayes & Associates

Date Received: 10/15/15
Date Reported: 10/16/15

Client Sample ID:	CA-3a-d2	Lab Sample ID:	1510072-005A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	49		mg/Kg	427359	15531

Client Sample ID:	CA-3a-d4	Lab Sample ID:	1510072-006A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	93		mg/Kg	427359	15531

Client Sample ID:	CA-4a-d2	Lab Sample ID:	1510072-007A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	120		mg/Kg	427359	15531

Client Sample ID:	CA-4a-d4	Lab Sample ID:	1510072-008A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/15/15	10/16/15	1	0.13	1.0	24		mg/Kg	427359	15531

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SAMPLE RESULTS

Report prepared for: Jered Chaney
Weber, Hayes & Associates

Date Received: 10/15/15
Date Reported: 10/16/15

Client Sample ID:	CA-BASE-d6	Lab Sample ID:	1510072-009A
Project Name/Location:	Kearney St. / 2x513.D	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	10/15/15 /		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	10/16/15	10/16/15	1	0.13	1.0	7.1		mg/Kg	427361	15532



MB Summary Report

Work Order:	1510072	Prep Method:	3050	Prep Date:	10/15/15	Prep Batch:	15531
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	10/16/15	Analytical Batch:	427359
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Lead	0.14	1.0	0.72
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Work Order:	1510072	Prep Method:	3050	Prep Date:	10/16/15	Prep Batch:	15532
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	10/16/15	Analytical Batch:	427361
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
------------	-----	-----	--------------------	---------------

Lead	0.14	1.0	0.67
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LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1510072	Prep Method:	3050	Prep Date:	10/15/15	Prep Batch:	15531
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	10/16/15	Analytical Batch:	427359
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Lead	0.14	1.0	0.72	50	97.9	98.0	0.102	67.9 - 118	30	

Work Order:	1510072	Prep Method:	3050	Prep Date:	10/16/15	Prep Batch:	15532
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	10/16/15	Analytical Batch:	427361
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Lead	0.14	1.0	0.67	50	95.4	97.1	1.78	67.9 - 118	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1510072	Prep Method:	3050	Prep Date:	10/15/15	Prep Batch:	15531
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	10/16/15	Analytical Batch:	427359
Spiked Sample:	1510072-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Lead	0.14	1.0	0.13	50	81.6	83.8	2.26	67.9 - 118	30	

Work Order:	1510072	Prep Method:	3050	Prep Date:	10/16/15	Prep Batch:	15532
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	10/16/15	Analytical Batch:	427361
Spiked Sample:	1510072-009A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Lead	0.14	1.0	0.14	50	84.9	81.9	3.13	67.9 - 118	30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m³ , mg.m³ , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Weber, Hayes & Associates

Date and Time Received: 10/15/2015 14:41

Project Name: Kearney St. / 2x513.D

Received By: Idi

Work Order No.: 1510072

Physically Logged By: Idi

Checklist Completed By: Idi

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? No Temperature: 25 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Not all samples listed on CoC were received. Missing sample ID is:CA-BASE-d6.Missing sample recvd. on 10/16/15 @ 10:00 AM / 20'C added to WO# 1510072 need result by 4:00 PM friday 10/16/15 if possible.



Login Summary Report

Client ID: TL5105 Weber, Hayes & Associates
Project Name: Kearney St. / 2x513.D
Project # :
Report Due Date: 10/16/2015

QC Level:
TAT Requested: Next Day:100
Date Received: 10/15/2015
Time Received: 14:41

Comments:

Work Order # : 1510072

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1510072-001A	CA-1a-d2	10/15/15	Soil	04/12/16			S_6010BAs/Pb EDF	
Sample Note: For Pb only. Sample 009 will arrive 10/16, hopefully by noon. Pls. use MDL for any diluted samples								
1510072-002A	CA-1a-d4	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-003A	CA-2a-d2	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-004A	CA-2a-d4	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-005A	CA-3a-d2	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-006A	CA-3a-d4	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-007A	CA-4a-d2	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-008A	CA-4a-d4	10/15/15	Soil	04/12/16			S_6010BAs/Pb	
1510072-009A	CA-BASE-d6	10/15/15	Soil	04/12/16			S_6010BAs/Pb	

Sample Note: Recv'd 10/16/15 @ 10:00AM / 20°C need result by 4PM 10/16/15 if possible



Weber, Hayes & Associates
 Hydrogeology and Environmental Engineering
 120 Westgate Dr., Watsonville, CA 95076
 (831) 722-3580 Fax: (831) 722-1159
 www.weber-hayes.com

CHAIN -OF-CUSTODY RECORD

1510072

1 OF 1

PROJECT NAME AND JOB #: Kearney St / 2X513.D

LABORATORY: Torrent

SEND CERTIFIED RESULTS TO: Weber, Hayes & Associates - Attention: Jered Chaney

TURNAROUND TIME: Next Day Rush 48hr Rush

ELECTRONIC DELIVERABLE FORMAT: YES NO

GLOBAL I.D.: T1000007750

Sampler: Jered Chaney

Date: _____

GeoTracker I.D.	Sample I.D.	Date Sampled	Matrix	SAMPLE CONTAINERS				REQUESTED ANALYSIS									
				40 mL	1 L	500 mL	Liner	Total Petroleum Hydrocarbons			VOCs		Additional Analysis				
				VOAs (preserved)	Amber Jar	plastic	Acetate or Brass	TPH-diesel & motor oil w/ silica gel cleanup EPA Method# 8015M	TPH-diesel & motor oil EPA Method 8015M	TPH-Gas by EPA Method 8260B	BTEX & MTBE by EPA Method 8260B	Naphthalene by EPA Method 8260	TBA by EPA Method 8260B	Total Lead by EPA Method 6010B	Perchlorate by EPA Method 314.0		
CA-1a	CA-1a-d2	10/15/15	Soil		- 301A											X	
↓	CA-1a-d4				- 002A											X	
CA-2a	CA-2a-d2				- 003A											X	
↓	CA-2a-d4				- 004A											X	
CA-3a	CA-3a-d2				- 005A											X	
↓	CA-3a-d4				- 006A											X	
CA-4a	CA-4a-d2				- 007A											X	
↓	CA-4a-d4				- 008A											X	
CA-BASE	CA-BASE-d6				- 009A											X	

**RUSH
1 DAY**

RELEASED BY:	Date & Time	RECEIVED BY:	Date & Time	SAMPLE CONDITION:
1) [Signature]	10/15/15 13:18	[Signature]	10/15/15 1:20 PM	Ambient Refrigerated Frozen
2) [Signature]	10/15/15 2:41	[Signature]	10/15/15 2:41	Ambient Refrigerated Frozen
3) _____	_____	_____	_____	Ambient Refrigerated Frozen
4) _____	_____	_____	_____	Ambient Refrigerated Frozen
5) _____	_____	_____	_____	Ambient Refrigerated Frozen

NOTES:

Please use MDL (Minimum Detection Limit) for any diluted samples.

ADDITIONAL COMMENTS:

- Need results by 4 pm on Friday Oct. 16

FC Temp 25°C



Date of Report: 10/22/2015

Jered Chaney

Weber, Hayes & Associates

120 Westgate Drive
Watsonville, CA 95076

Client Project: Kearney St. / 2X513.D

BCL Project: Misc - COELT

BCL Work Order: 1526562

Invoice ID: B216876

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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CHAIN -OF-CUSTODY RECORD

RUSH!

Weber, Hayes & Associates Hydrogeology and Environmental Engineering



PROJECT NAME AND JOB #: Kearney St. / 2X513.D

LABORATORY: BC Labs

1 OF 1

SEND CERTIFIED RESULTS TO: Weber, Hayes & Associates - Attention: Jered Chaney

TURNAROUND TIME: 3 Day

ELECTRONIC DELIVERABLE FORMAT: [X] YES [] NO

GLOBAL I.D.: T10000007750

Sampler: Jered Chaney

Date: 10/19/15

15-26562

Table with columns: GeoTracker I.D., Date Sampled, Matrix, SAMPLE CONTAINERS (40 mL VOAs, 1 L Amber Jar, 500 mL plastic, Liner), Total Petroleum Hydrocarbons (TPH-diesel & motor oil, TPH-diesel & motor oil cleanup, TPH-Gas), VOCs (BTEX & MTBE, Naphthalene), Additional Analysis (Total Lead, Perchlorate), and TBA.

CHK BY: DISTRIBUTION MR. M... SUB-OUT

RELEASED BY: [Signature] Date & Time: 10/19/15 16:54

RECEIVED BY: [Signature] Date & Time: 10/20/15 8:45

SAMPLE CONDITION: (circle 1) Refrigerated, Ambient, Frozen

NOTES: - Need results by EBD on Friday 10/23

Webber, Hayes and Associates

1 of 1

JCF-4499-01 FORMS, Inc. - C02

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 15-26562

SHIPPING INFORMATION: Fed Ex, UPS, Ontrack, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No.

COC Received: YES/NO. Emissivity, Container: Soil sleeves, Thermometer ID: 228, Date/Time: 10-20-15, Analyst Init: AS 8:45, Temperature: (A) 21.4 °C (10) 21.1 °C.

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include: QT PE UNPRES, 4oz / 8oz / 16oz PE UNPRES, 2oz Cr6, QT INORGANIC CHEMICAL METALS, INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz, PT CYANIDE, PT NITROGEN FORMS, PT TOTAL SULFIDE, 2oz. NITRATE / NITRITE, PT TOTAL ORGANIC CARBON, PT CHEMICAL OXYGEN DEMAND, PIA PHENOLICS, 40ml VOA VIAL TRAVEL BLANK, 40ml VOA VIAL, QT EPA 1664, PT ODOR, RADIOLOGICAL, BACTERIOLOGICAL, 40 ml VOA VIAL- 504, QT EPA 508/608/8080, QT EPA 515.1/8150, QT EPA 525, QT EPA 525 TRAVEL BLANK, 40ml EPA 547, 40ml EPA 531.1, 8oz EPA 548, QT EPA 549, QT EPA 8015M, QT EPA 8270, 8oz / 16oz / 32oz AMBER, 8oz / 16oz / 32oz JAR, SOIL SLEEVE (marked with A), PCB VIAL, PLASTIC BAG, TEDLAR BAG, FERROUS IRON, ENCORE, SMART KIT, SUMMA CANISTER.

Comments: Sample Numbering Completed By: JM Date/Time: 10-20-15 0900 Rev 20 07/24/2015 A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 5:54
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1526562-01	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	Kearney St.	Sampling Date:	10/19/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CA-2b-d2	Lab Matrix:	Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type:	Soil

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 5:54
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

BCL Sample ID: 1526562-01	Client Sample Name: Kearney St., CA-2b-d2, 10/19/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	980	mg/kg	2.5	0.28	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	10/20/15	10/21/15 11:37	ARD	PE-OP3	0.962	BYJ1814

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 5:54
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYJ1814						
Lead	BYJ1814-BLK1	ND	mg/kg	2.5	0.28	

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 5:54
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BYJ1814											
Lead	BYJ1814-BS1	LCS	89.320	100.00	mg/kg	89.3		75	125		

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 5:54
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BYJ1814		Used client sample: Y - Description: Pb-SP-P1, 10/16/2015 00:00									
Lead	DUP	1526564-01	104.94	116.09		mg/kg	10.1		20		
	MS	1526564-01	104.94	196.09	100.00	mg/kg		91.2		75 - 125	
	MSD	1526564-01	104.94	188.15	100.00	mg/kg	4.1	83.2	20	75 - 125	

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 5:54
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit

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Date of Report: 10/26/2015

Jered Chaney

Weber, Hayes & Associates

120 Westgate Drive
Watsonville, CA 95076

Client Project: Kearney St. / 2X513.D

BCL Project: Misc - COELT

BCL Work Order: 1527011

Invoice ID: B217161

Enclosed are the results of analyses for samples received by the laboratory on 10/23/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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1527011-04 - CA-1b-d2	
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CHAIN -OF-CUSTODY RECORD

RUSH!

Weber, Hayes & Associates Hydrogeology and Environmental Engineering



PROJECT NAME AND JOB #: Kearney St. / 2X513.D
SEND CERTIFIED RESULTS TO: Weber, Hayes & Associates - Attention: Jered Chaney
ELECTRONIC DELIVERABLE FORMAT: [X] YES [] NO

LABORATORY: BC Labs
TURNAROUND TIME: 2-day rush
GLOBAL I.D.: T10000067756

Sampler: Jered Chaney

Date: 10/22/15

15-27011

Main data table with columns: GeoTracker I.D., Date Sampled, Matrix, Sample Containers (40 mL, 1 L, 500 mL, Liner), Total Petroleum Hydrocarbons, VOCs, BTEX & MTBE, TPH-Gas, Additional Analysis (Total Lead, Perchlorate), and Sample Condition.

RELEASED BY: [Signature] Date & Time: 10/22/15 16:50
RECEIVED BY: [Signature] Date & Time: 10:23:15 8:10

NOTES: [X] Need results by EBD Monday October 26, 2015



BC LABORATORIES INC. COOLER RECEIPT FORM Page Of

Submission #: 15-27011

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: _____ Container: Soil Sleeve Thermometer ID: 226
 Temperature: (A) 16.1 °C / (C) 16.3 °C Date/Time: 10:23:15
 Analyst Init: JD 8:10

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE	A	A	A	A	A	A	A			
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: AWL Date/Time: 10/23/15 00:315 Rev 20 07/24/2015
 A = Actual / C = Corrected

IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20)



Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1527011-01	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-2b-d4	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil
1527011-02	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-2c-d2	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil
1527011-03	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-2c-d4	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil
1527011-04	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-1b-d2	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil
1527011-05	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-1b-d4	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil
1527011-06	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-3b-d2	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil
1527011-07	COC Number:	---	Receive Date: 10/23/2015 08:10
	Project Number:	Kearney St.	Sampling Date: 10/22/2015 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	CA-3b-d4	Lab Matrix: Solids
	Sampled By:	Jered Chaney of WHAW	Sample Type: Soil

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLIC)

BCL Sample ID: 1527011-01	Client Sample Name: Kearney St., CA-2b-d4, 10/22/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	48	mg/kg	2.5	0.28	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	10/23/15	10/26/15 09:07	ARD	PE-OP3	0.971	BYJ2213

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLIC)

BCL Sample ID: 1527011-02	Client Sample Name: Kearney St., CA-2c-d2, 10/22/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	24	mg/kg	2.5	0.28	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	10/23/15	10/26/15 09:08	ARD	PE-OP3	0.980	BYJ2213

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

BCL Sample ID: 1527011-04	Client Sample Name: Kearney St., CA-1b-d2, 10/22/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	6.6	mg/kg	2.5	0.28	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	10/23/15	10/26/15 08:58	ARD	PE-OP3	1	BYJ2213

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

BCL Sample ID: 1527011-06	Client Sample Name: Kearney St., CA-3b-d2, 10/22/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	7.7	mg/kg	2.5	0.28	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	10/23/15	10/26/15 09:14	ARD	PE-OP3	0.980	BYJ2213

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120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYJ2213						
Lead	BYJ2213-BLK1	ND	mg/kg	2.5	0.28	

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BYJ2213											
Lead	BYJ2213-BS1	LCS	87.431	100.00	mg/kg	87.4		75	125		

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BYJ2213		Used client sample: Y - Description: CA-1b-d2, 10/22/2015 00:00									
Lead	DUP	1527011-04	6.5738	6.2493		mg/kg	5.1		20		
	MS	1527011-04	6.5738	81.695	100.00	mg/kg		75.1		75 - 125	
	MSD	1527011-04	6.5738	85.439	100.00	mg/kg	4.5	78.9	20	75 - 125	

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/26/2015 11:35
Project: Misc - COELT
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit



Date of Report: 10/22/2015

Jered Chaney

Weber, Hayes & Associates

120 Westgate Drive
Watsonville, CA 95076

Client Project: Kearney St / 2X513.D

BCL Project: Misc.

BCL Work Order: 1526564

Invoice ID: B216961

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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CHAIN -OF-CUSTODY RECORD RUSH!

Weber, Hayes & Associates Hydrogeology and Environmental Engineering



PROJECT NAME AND JOB #: Kearney St / 2X513.D

SEND CERTIFIED RESULTS TO: Weber, Hayes & Associates - Attention: Jered Chaney

ELECTRONIC DELIVERABLE FORMAT: YES NO

Sampler: Jered Chaney

Date: 10/16/15

LABORATORY: BC Labs

TURNAROUND TIME: Three Day Rush

GLOBAL I.D.: 15-26564

RUSH

Table with columns: Sample I.D., Date Sampled, Matrix, SAMPLE CONTAINERS (40 mL VOA, 1 L Amber Jar, 500 mL plastic, Liner, Acetate or Brass), Total Petroleum Hydrocarbons (Fuel Fingerprint, TPH-diesel & motor oil, TPH-Gas), VOCs (BTEX & MTBE, PAHs, TBA), and Additional Analysis (Total Lead, Hex-Chrome).

RELEASED BY: [Signature] Date & Time: 10/16/15 1620
RECEIVED BY: [Signature] Date & Time: 10-20-15 8:45
SAMPLE CONDITION: Refrigerated, Frozen

NOTES: Need results EBP Thursday 10/22
Please use MDL (Minimum Detection Limit) for any diluted samples.



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 15-26564

SHIPPING INFORMATION: Fed Ex, UPS, Ontrack, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity, Container: Soil sleeves, Thermometer ID: 228, Date/Time: 10-20-15, Analyst Init: JDL 8:45, Temperature: (A) 21.4 °C, (C) 21.1 °C.

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, PT CYANIDE, etc. Handwritten 'A' marks in sample numbers 1-5 for SOIL SLEEVE.

Comments: Sample Numbering Completed By: JDL Date/Time: 10-20-15 0908 Rev 20 07/24/2015 A = Actual / C = Corrected



Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1526564-01	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Pb-SP-P1	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
1526564-02	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Pb-SP-P2	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
1526564-03	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Pb-SP-P3	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
1526564-04	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Pb-SP-P4	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
1526564-05	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Pb-SP-P5	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526564-01	Client Sample Name: Pb-SP-P1, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	0.015	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Anthracene	0.031	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	0.12	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	0.15	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	0.040	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.12	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	0.079	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	0.098	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	0.024	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Fluoranthene	0.26	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.068	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.016	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.082	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Pyrene	0.21	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	60.6	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	50.9	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	46.1	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 19:15	MK1	MS-B7	4.834	BYJ1944

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLIC)

BCL Sample ID: 1526564-01	Client Sample Name: Pb-SP-P1, 10/16/2015 12:00:00AM, Jered Chaney							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Hexavalent Chromium	2.4	mg/kg	1.0	0.30	EPA-7199	ND		1
Lead	100	mg/kg	2.5	0.28	EPA-6010B	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	10/20/15	10/21/15 18:05	EMW	IC-4	1	BYJ1785
2	EPA-6010B	10/20/15	10/21/15 11:14	ARD	PE-OP3	1	BYJ1814

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120 Westgate Drive
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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526564-02	Client Sample Name: Pb-SP-P2, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Anthracene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	0.012	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Benzo[b]fluoranthene	0.027	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.020	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	0.022	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	0.0066	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	J,A01	1
Dibenzo[a,h]anthracene	0.012	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	J,A01	1
Fluoranthene	0.018	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.022	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.015	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.012	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Pyrene	0.020	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	52.5	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	42.5	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	37.5	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 19:39	MK1	MS-B7	4.983	BYJ1944

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120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

BCL Sample ID: 1526564-02	Client Sample Name: Pb-SP-P2, 10/16/2015 12:00:00AM, Jered Chaney							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Hexavalent Chromium	2.2	mg/kg	1.0	0.30	EPA-7199	ND		1
Lead	39	mg/kg	2.5	0.28	EPA-6010B	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	10/20/15	10/21/15 18:57	EMW	IC-4	1	BYJ1785
2	EPA-6010B	10/20/15	10/21/15 11:31	ARD	PE-OP3	0.943	BYJ1814

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526564-03	Client Sample Name: Pb-SP-P3, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Anthracene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	0.021	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.015	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	ND	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	0.011	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	J,A01	1
Fluoranthene	0.011	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.015	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.016	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.0097	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Pyrene	0.013	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	J,A01	1
Nitrobenzene-d5 (Surrogate)	67.4	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	62.5	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	58.8	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 20:03	MK1	MS-B7	4.868	BYJ1944

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLIC)

BCL Sample ID: 1526564-03	Client Sample Name: Pb-SP-P3, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Hexavalent Chromium	1.6	mg/kg	1.0	0.30	EPA-7199	ND		1
Lead	19	mg/kg	2.5	0.28	EPA-6010B	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	10/20/15	10/21/15 19:05	EMW	IC-4	1	BYJ1785
2	EPA-6010B	10/20/15	10/21/15 11:32	ARD	PE-OP3	0.943	BYJ1814

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526564-04		Client Sample Name: Pb-SP-P4, 10/16/2015 12:00:00AM, Jered Chaney						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Anthracene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	0.0098	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Benzo[b]fluoranthene	0.028	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.021	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	0.054	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	0.0098	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	J,A01	1
Dibenzo[a,h]anthracene	0.013	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	J,A01	1
Fluoranthene	0.018	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.034	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.016	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.0098	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Pyrene	0.020	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	63.7	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	51.2	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	45.0	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 20:27	MK1	MS-B7	4.918	BYJ1944

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

BCL Sample ID: 1526564-04	Client Sample Name: Pb-SP-P4, 10/16/2015 12:00:00AM, Jered Chaney							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Hexavalent Chromium	1.8	mg/kg	1.0	0.30	EPA-7199	ND		1
Lead	47	mg/kg	2.5	0.28	EPA-6010B	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	10/20/15	10/21/15 19:31	EMW	IC-4	1	BYJ1785
2	EPA-6010B	10/20/15	10/21/15 11:34	ARD	PE-OP3	0.980	BYJ1814

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526564-05		Client Sample Name: Pb-SP-P5, 10/16/2015 12:00:00AM, Jered Chaney						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.030	0.012	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	ND	mg/kg	0.030	0.012	EPA-8270C-SIM	ND	A01	1
Anthracene	ND	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	ND	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	0.039	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	ND	mg/kg	0.030	0.018	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.026	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	J,A01	1
Benzo[g,h,i]perylene	ND	mg/kg	0.030	0.019	EPA-8270C-SIM	ND	A01	1
Chrysene	ND	mg/kg	0.030	0.013	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.030	0.019	EPA-8270C-SIM	ND	A01	1
Fluoranthene	0.016	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	J,A01	1
Fluorene	ND	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.029	mg/kg	0.030	0.021	EPA-8270C-SIM	ND	J,A01	1
Naphthalene	0.020	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	J,A01	1
Phenanthrene	ND	mg/kg	0.030	0.014	EPA-8270C-SIM	ND	A01	1
Pyrene	0.023	mg/kg	0.030	0.017	EPA-8270C-SIM	ND	J,A01	1
Nitrobenzene-d5 (Surrogate)	59.4	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	61.9	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	64.4	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 20:51	MK1	MS-B7	9.802	BYJ1944

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLIC)

BCL Sample ID: 1526564-05	Client Sample Name: Pb-SP-P5, 10/16/2015 12:00:00AM, Jered Chaney							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Hexavalent Chromium	1.9	mg/kg	1.0	0.30	EPA-7199	ND		1
Lead	35	mg/kg	2.5	0.28	EPA-6010B	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	10/20/15	10/21/15 19:40	EMW	IC-4	1	BYJ1785
2	EPA-6010B	10/20/15	10/21/15 11:36	ARD	PE-OP3	0.952	BYJ1814

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYJ1944						
Acenaphthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0012	
Acenaphthylene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0012	
Anthracene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[a]anthracene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[b]fluoranthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[k]fluoranthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0018	
Benzo[a]pyrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[g,h,i]perylene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0019	
Chrysene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0013	
Dibenzo[a,h]anthracene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0019	
Fluoranthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Fluorene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Indeno[1,2,3-cd]pyrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0021	
Naphthalene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Phenanthrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Pyrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0017	
Nitrobenzene-d5 (Surrogate)	BYJ1944-BLK1	91.6	%	30 - 110 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BYJ1944-BLK1	90.7	%	40 - 120 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BYJ1944-BLK1	106	%	30 - 120 (LCL - UCL)		

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BYJ1944										
Acenaphthene	BYJ1944-BS1	LCS	0.033108	0.033784	mg/kg	98.0		60 - 130		
Acenaphthylene	BYJ1944-BS1	LCS	0.036088	0.033784	mg/kg	107		60 - 130		
Anthracene	BYJ1944-BS1	LCS	0.037743	0.033784	mg/kg	112		60 - 130		
Benzo[a]anthracene	BYJ1944-BS1	LCS	0.038405	0.033784	mg/kg	114		60 - 130		
Benzo[b]fluoranthene	BYJ1944-BS1	LCS	0.033108	0.033784	mg/kg	98.0		50 - 130		
Benzo[k]fluoranthene	BYJ1944-BS1	LCS	0.034101	0.033784	mg/kg	101		60 - 130		
Benzo[a]pyrene	BYJ1944-BS1	LCS	0.036750	0.033784	mg/kg	109		60 - 130		
Benzo[g,h,i]perylene	BYJ1944-BS1	LCS	0.034101	0.033784	mg/kg	101		50 - 130		
Chrysene	BYJ1944-BS1	LCS	0.026486	0.033784	mg/kg	78.4		50 - 130		
Dibenzo[a,h]anthracene	BYJ1944-BS1	LCS	0.033439	0.033784	mg/kg	99.0		50 - 130		
Fluoranthene	BYJ1944-BS1	LCS	0.038405	0.033784	mg/kg	114		60 - 130		
Fluorene	BYJ1944-BS1	LCS	0.034764	0.033784	mg/kg	103		50 - 130		
Indeno[1,2,3-cd]pyrene	BYJ1944-BS1	LCS	0.031122	0.033784	mg/kg	92.1		50 - 130		
Naphthalene	BYJ1944-BS1	LCS	0.031453	0.033784	mg/kg	93.1		50 - 130		
Phenanthrene	BYJ1944-BS1	LCS	0.034432	0.033784	mg/kg	102		50 - 130		
Pyrene	BYJ1944-BS1	LCS	0.041054	0.033784	mg/kg	122		50 - 130		
Nitrobenzene-d5 (Surrogate)	BYJ1944-BS1	LCS	0.13276	0.13514	mg/kg	98.2		30 - 110		
2-Fluorobiphenyl (Surrogate)	BYJ1944-BS1	LCS	0.13243	0.13514	mg/kg	98.0		40 - 120		
p-Terphenyl-d14 (Surrogate)	BYJ1944-BS1	LCS	0.15296	0.13514	mg/kg	113		30 - 120		

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		
								Percent Recovery	RPD	Percent Recovery
QC Batch ID: BYJ1944		Used client sample: N								
Acenaphthene	MS	1524843-48	ND	0.028940	0.033557	mg/kg		86.2		50 - 130
	MSD	1524843-48	ND	0.031241	0.033898	mg/kg	7.6	92.2	30	50 - 130
Acenaphthylene	MS	1524843-48	ND	0.030913	0.033557	mg/kg		92.1		50 - 130
	MSD	1524843-48	ND	0.034169	0.033898	mg/kg	10.0	101	30	50 - 130
Anthracene	MS	1524843-48	ND	0.035517	0.033557	mg/kg		106		50 - 130
	MSD	1524843-48	ND	0.038075	0.033898	mg/kg	7.0	112	30	50 - 130
Benzo[a]anthracene	MS	1524843-48	ND	0.034201	0.033557	mg/kg		102		50 - 130
	MSD	1524843-48	ND	0.036773	0.033898	mg/kg	7.2	108	30	50 - 130
Benzo[b]fluoranthene	MS	1524843-48	ND	0.028940	0.033557	mg/kg		86.2		40 - 130
	MSD	1524843-48	ND	0.030915	0.033898	mg/kg	6.6	91.2	30	40 - 130
Benzo[k]fluoranthene	MS	1524843-48	ND	0.029926	0.033557	mg/kg		89.2		40 - 130
	MSD	1524843-48	ND	0.032542	0.033898	mg/kg	8.4	96.0	30	40 - 130
Benzo[a]pyrene	MS	1524843-48	ND	0.032228	0.033557	mg/kg		96.0		40 - 130
	MSD	1524843-48	ND	0.034820	0.033898	mg/kg	7.7	103	30	40 - 130
Benzo[g,h,i]perylene	MS	1524843-48	ND	0.031242	0.033557	mg/kg		93.1		40 - 130
	MSD	1524843-48	ND	0.034820	0.033898	mg/kg	10.8	103	30	40 - 130
Chrysene	MS	1524843-48	ND	0.023678	0.033557	mg/kg		70.6		40 - 130
	MSD	1524843-48	ND	0.025058	0.033898	mg/kg	5.7	73.9	30	40 - 130
Dibenzo[a,h]anthracene	MS	1524843-48	ND	0.030255	0.033557	mg/kg		90.2		40 - 130
	MSD	1524843-48	ND	0.034495	0.033898	mg/kg	13.1	102	30	40 - 130
Fluoranthene	MS	1524843-48	ND	0.033544	0.033557	mg/kg		100		40 - 130
	MSD	1524843-48	ND	0.035797	0.033898	mg/kg	6.5	106	30	40 - 130
Fluorene	MS	1524843-48	ND	0.030584	0.033557	mg/kg		91.1		40 - 130
	MSD	1524843-48	ND	0.033193	0.033898	mg/kg	8.2	97.9	30	40 - 130
Indeno[1,2,3-cd]pyrene	MS	1524843-48	ND	0.028282	0.033557	mg/kg		84.3		30 - 130
	MSD	1524843-48	ND	0.033193	0.033898	mg/kg	16.0	97.9	30	30 - 130
Naphthalene	MS	1524843-48	ND	0.027953	0.033557	mg/kg		83.3		50 - 130
	MSD	1524843-48	ND	0.030264	0.033898	mg/kg	7.9	89.3	30	50 - 130
Phenanthrene	MS	1524843-48	ND	0.030255	0.033557	mg/kg		90.2		40 - 130
	MSD	1524843-48	ND	0.032542	0.033898	mg/kg	7.3	96.0	30	40 - 130
Pyrene	MS	1524843-48	ND	0.032557	0.033557	mg/kg		97.0		40 - 130
	MSD	1524843-48	ND	0.036122	0.033898	mg/kg	10.4	107	30	40 - 130
Nitrobenzene-d5 (Surrogate)	MS	1524843-48	ND	0.11313	0.13423	mg/kg		84.3		30 - 110
	MSD	1524843-48	ND	0.12757	0.13559	mg/kg	12.0	94.1		30 - 110
2-Fluorobiphenyl (Surrogate)	MS	1524843-48	ND	0.11477	0.13423	mg/kg		85.5		40 - 120
	MSD	1524843-48	ND	0.12561	0.13559	mg/kg	9.0	92.6		40 - 120

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BYJ1944		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1524843-48	ND	0.12332	0.13423	mg/kg		91.9		30 - 120	
	MSD	1524843-48	ND	0.13538	0.13559	mg/kg	9.3	99.8		30 - 120	

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTL)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYJ1785						
Total Hexavalent Chromium	BYJ1785-BLK1	ND	mg/kg	1.0	0.30	
QC Batch ID: BYJ1814						
Lead	BYJ1814-BLK1	ND	mg/kg	2.5	0.28	

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYJ1785										
Total Hexavalent Chromium	BYJ1785-BS1	LCS	42.710	40.000	mg/kg	107		80 - 120		
QC Batch ID: BYJ1814										
Lead	BYJ1814-BS1	LCS	89.320	100.00	mg/kg	89.3		75 - 125		

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Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BYJ1785		Used client sample: Y - Description: Pb-SP-P1, 10/16/2015 00:00									
Total Hexavalent Chromium	DUP	1526564-01	2.4000	2.3760		mg/kg	1.0		20		
	MS	1526564-01	2.4000	44.316	40.000	mg/kg		105		75 - 125	
	MSD	1526564-01	2.4000	44.234	40.000	mg/kg	0.2	105	20	75 - 125	
QC Batch ID: BYJ1814		Used client sample: Y - Description: Pb-SP-P1, 10/16/2015 00:00									
Lead	DUP	1526564-01	104.94	116.09		mg/kg	10.1		20		
	MS	1526564-01	104.94	196.09	100.00	mg/kg		91.2		75 - 125	
	MSD	1526564-01	104.94	188.15	100.00	mg/kg	4.1	83.2	20	75 - 125	

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:45
Project: Misc.
Project Number: Kearney St / 2X513.D
Project Manager: Jered Chaney

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 10/22/2015

Jered Chaney

Weber, Hayes & Associates

120 Westgate Drive
Watsonville, CA 95076

Client Project: Kearney St. / 2X513.D

BCL Project: Misc.

BCL Work Order: 1526563

Invoice ID: B216971

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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CHAIN-OF-CUSTODY RECORD

RUSH!

Weber, Hayes & Associates
Hydrogeology and Environmental Engineering

120 Westgate Dr., Watsonville, CA 95076
(831) 722-3590 Fax: (831) 722-1159
www.weberhayes.com

PROJECT NAME AND JOB #: Kearney St / 2X513.D

SEND CERTIFIED RESULTS TO: Weber, Hayes & Associates - Attention: Jered Chaney

ELECTRONIC DELIVERABLE FORMAT: YES NO

Sampler: Jered Chaney

Date: 10/16/15

LABORATORY: BC Labs

TURNAROUND TIME: Three Day Rush

GLOBAL I.D.: 15-26563

Sample I.D.	Date Sampled	Matrix	SAMPLE CONTAINERS				REQUESTED ANALYSIS					Additional Analysis				
			40 mL VOAs (preserved)	1 L Amber Jar	500 mL plastic	Liner Acetate or Brass	Fuel EPA 8015M	TPH-diesel & motor oil EPA Method 8015M	TPH-Gas by EPA Method 8260B	BTEX & MTBE by EPA Method 8260B	PAHs by EPA Method 8270 SIM	TBA by EPA Method 8260B	Total Lead by EPA Method 6010B	Hex-Chrome by EPA Method 6010B		
TPH-SP-P1-1	10/16/15	Soil				1										
TPH-SP-P2-2	10/16/15	↓				1										
TPH-SP-P3-3	10/16/15	↓				1										

CHK BY: SUB-DISTRIBUTION

RELEASED BY: [Signature] Date & Time: 10/16/15 1620

1) [Signature] Date & Time: 10/19/15 1705

2) [Signature] Date & Time: 10/20/15 8:45

3) _____

4) _____

5) _____

RECEIVED BY: [Signature] Date & Time: 10/16/15 1620

1) _____ Date & Time: _____

2) _____ Date & Time: _____

3) _____ Date & Time: _____

4) _____ Date & Time: _____

5) _____ Date & Time: _____

NOTE: Please use MDL (Minimum Detection Limit) for any diluted samples.

ADDITIONAL COMMENTS: * Need results EBD Thursday 10/22/15

SAMPLE CONDITION: (Circle 1)

Refrigerated
Refrigerated
Refrigerated
Refrigerated
Refrigerated

Frozen
Frozen
Frozen
Frozen
Frozen



BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 15-76563

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity, Container: Soil sleeves, Thermometer ID: 228, Date/Time: 10-20-15, Analyst Init: AS 8:45, Temperature: (A) 21.4 °C, (C) 21.1 °C

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, PT INORGANIC CHEMICAL METALS, etc. Handwritten 'A A A' in columns 2, 3, 4 for SOIL SLEEVE.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 10-20-15 Rev 20 07/24/2015 A = Actual / C = Corrected



Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1526563-01	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TPH-SP-P1	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
	<hr/>			
1526563-02	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TPH-SP-P2	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
	<hr/>			
1526563-03	COC Number:	---	Receive Date:	10/20/2015 08:45
	Project Number:	---	Sampling Date:	10/16/2015 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TPH-SP-P3	Lab Matrix:	Solids
	Sampled By:	Jered Chaney	Sample Type:	Soil
	<hr/>			

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526563-01	Client Sample Name: TPH-SP-P1, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	0.0067	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	J,A01	1
Anthracene	0.013	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Benzo[a]anthracene	0.051	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	0.062	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	0.020	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.057	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	0.039	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	0.042	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	0.015	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Fluoranthene	0.11	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.037	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.020	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.049	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Pyrene	0.096	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	68.8	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	63.8	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	58.8	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 18:03	MK1	MS-B7	5.051	BYJ1944

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1526563-01	Client Sample Name: TPH-SP-P1, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Light Naptha	ND	mg/kg	50	20	Luft/FFP	ND		1
TPH - Aviation Gas	ND	mg/kg	50	20	Luft/FFP	ND		1
TPH - Stoddard Solvent	ND	mg/kg	20	5.0	Luft/FFP	ND		1
TPH - Heavy Naptha	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Gasoline	ND	mg/kg	20	5.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP4)	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP5)	ND	mg/kg	10	4.6	Luft/FFP	ND		1
TPH - Jet Fuel (JP6)	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP8)	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Kerosene	ND	mg/kg	10	1.4	Luft/FFP	ND		1
TPH - Diesel (FFP)	8.7	mg/kg	10	1.2	Luft/FFP	ND	J,A52	1
TPH - Fuel Oil	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Crude Oil	ND	mg/kg	20	2.8	Luft/FFP	ND		1
TPH - Hydraulic Oil / Motor Oil	64	mg/kg	20	6.5	Luft/FFP	ND		1
TPH - Waste Oil	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - WD-40	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Mineral Oil	ND	mg/kg	50	20	Luft/FFP	ND		1
TPH - Mineral Spirit	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - Motor Oil	64	mg/kg	20	6.5	Luft/FFP	ND		1
TPH - Lube Oil	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - Olive Oil	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - Diluent	ND	mg/kg	10	5.0	Luft/FFP	ND		1
Tetracosane (Surrogate)	64.3	%	20 - 145 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	Luft/FFP	10/20/15	10/21/15	12:56	MWB	GC-13	1.017	BYJ1881

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526563-02	Client Sample Name: TPH-SP-P2, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Anthracene	0.010	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	J,A01	1
Benzo[a]anthracene	0.033	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	0.050	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	0.013	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	J,A01	1
Benzo[a]pyrene	0.040	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	0.027	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	0.028	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	0.013	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	J,A01	1
Fluoranthene	0.065	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.028	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.020	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.025	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Pyrene	0.067	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	72.5	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	62.5	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	55.0	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 18:27	MK1	MS-B7	5	BYJ1944

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1526563-02	Client Sample Name: TPH-SP-P2, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Light Naptha	ND	mg/kg	50	20	Luft/FFP	ND		1
TPH - Aviation Gas	ND	mg/kg	50	20	Luft/FFP	ND		1
TPH - Stoddard Solvent	ND	mg/kg	20	5.0	Luft/FFP	ND		1
TPH - Heavy Naptha	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Gasoline	ND	mg/kg	20	5.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP4)	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP5)	ND	mg/kg	10	4.6	Luft/FFP	ND		1
TPH - Jet Fuel (JP6)	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP8)	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Kerosene	ND	mg/kg	10	1.4	Luft/FFP	ND		1
TPH - Diesel (FFP)	6.7	mg/kg	10	1.2	Luft/FFP	ND	J,A52	1
TPH - Fuel Oil	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Crude Oil	ND	mg/kg	20	2.8	Luft/FFP	ND		1
TPH - Hydraulic Oil / Motor Oil	62	mg/kg	20	6.5	Luft/FFP	ND		1
TPH - Waste Oil	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - WD-40	ND	mg/kg	10	5.0	Luft/FFP	ND		1
TPH - Mineral Oil	ND	mg/kg	50	20	Luft/FFP	ND		1
TPH - Mineral Spirit	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - Motor Oil	62	mg/kg	20	6.5	Luft/FFP	ND		1
TPH - Lube Oil	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - Olive Oil	ND	mg/kg	20	10	Luft/FFP	ND		1
TPH - Diluent	ND	mg/kg	10	5.0	Luft/FFP	ND		1
Tetracosane (Surrogate)	65.6	%	20 - 145 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	Luft/FFP	10/20/15	10/21/15	13:19	MWB	GC-13	0.987	BYJ1881

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1526563-03	Client Sample Name: TPH-SP-P3, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	0.013	mg/kg	0.015	0.0060	EPA-8270C-SIM	ND	J,A01	1
Anthracene	0.029	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	0.086	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	0.10	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	0.029	mg/kg	0.015	0.0090	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	0.091	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	0.060	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Chrysene	0.072	mg/kg	0.015	0.0065	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	0.019	mg/kg	0.015	0.0095	EPA-8270C-SIM	ND	A01	1
Fluoranthene	0.19	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	0.052	mg/kg	0.015	0.010	EPA-8270C-SIM	ND	A01	1
Naphthalene	0.017	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Phenanthrene	0.084	mg/kg	0.015	0.0070	EPA-8270C-SIM	ND	A01	1
Pyrene	0.17	mg/kg	0.015	0.0085	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	57.0	%	30 - 110 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	44.9	%	40 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	41.2	%	30 - 120 (LCL - UCL)		EPA-8270C-SIM		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	10/20/15	10/21/15 18:51	MK1	MS-B7	4.770	BYJ1944

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1526563-03	Client Sample Name: TPH-SP-P3, 10/16/2015 12:00:00AM, Jered Chaney
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Light Naptha	ND	mg/kg	250	100	Luft/FFP	ND	A01	1
TPH - Aviation Gas	ND	mg/kg	250	100	Luft/FFP	ND	A01	1
TPH - Stoddard Solvent	ND	mg/kg	100	25	Luft/FFP	ND	A01	1
TPH - Heavy Naptha	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
TPH - Gasoline	ND	mg/kg	100	25	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP4)	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP5)	ND	mg/kg	50	23	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP6)	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP8)	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
TPH - Kerosene	ND	mg/kg	50	7.0	Luft/FFP	ND	A01	1
TPH - Diesel (FFP)	33	mg/kg	50	6.0	Luft/FFP	ND	J,A01,A52	1
TPH - Fuel Oil	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
TPH - Crude Oil	ND	mg/kg	100	14	Luft/FFP	ND	A01	1
TPH - Hydraulic Oil / Motor Oil	410	mg/kg	100	32	Luft/FFP	ND	A01	1
TPH - Waste Oil	ND	mg/kg	100	50	Luft/FFP	ND	A01	1
TPH - WD-40	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
TPH - Mineral Oil	ND	mg/kg	250	100	Luft/FFP	ND	A01	1
TPH - Mineral Spirit	ND	mg/kg	100	50	Luft/FFP	ND	A01	1
TPH - Motor Oil	410	mg/kg	100	32	Luft/FFP	ND	A01	1
TPH - Lube Oil	ND	mg/kg	100	50	Luft/FFP	ND	A01	1
TPH - Olive Oil	ND	mg/kg	100	50	Luft/FFP	ND	A01	1
TPH - Diluent	ND	mg/kg	50	25	Luft/FFP	ND	A01	1
Tetracosane (Surrogate)	60.9	%	20 - 145 (LCL - UCL)		Luft/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	10/20/15	10/22/15 11:00	MWB	GC-13	4.967	BYJ1881

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Weber, Hayes & Associates
120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYJ1944						
Acenaphthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0012	
Acenaphthylene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0012	
Anthracene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[a]anthracene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[b]fluoranthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[k]fluoranthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0018	
Benzo[a]pyrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Benzo[g,h,i]perylene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0019	
Chrysene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0013	
Dibenzo[a,h]anthracene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0019	
Fluoranthene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Fluorene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Indeno[1,2,3-cd]pyrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0021	
Naphthalene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Phenanthrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0014	
Pyrene	BYJ1944-BLK1	ND	mg/kg	0.0030	0.0017	
Nitrobenzene-d5 (Surrogate)	BYJ1944-BLK1	91.6	%	30 - 110 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BYJ1944-BLK1	90.7	%	40 - 120 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BYJ1944-BLK1	106	%	30 - 120 (LCL - UCL)		

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Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYJ1944										
Acenaphthene	BYJ1944-BS1	LCS	0.033108	0.033784	mg/kg	98.0		60 - 130		
Acenaphthylene	BYJ1944-BS1	LCS	0.036088	0.033784	mg/kg	107		60 - 130		
Anthracene	BYJ1944-BS1	LCS	0.037743	0.033784	mg/kg	112		60 - 130		
Benzo[a]anthracene	BYJ1944-BS1	LCS	0.038405	0.033784	mg/kg	114		60 - 130		
Benzo[b]fluoranthene	BYJ1944-BS1	LCS	0.033108	0.033784	mg/kg	98.0		50 - 130		
Benzo[k]fluoranthene	BYJ1944-BS1	LCS	0.034101	0.033784	mg/kg	101		60 - 130		
Benzo[a]pyrene	BYJ1944-BS1	LCS	0.036750	0.033784	mg/kg	109		60 - 130		
Benzo[g,h,i]perylene	BYJ1944-BS1	LCS	0.034101	0.033784	mg/kg	101		50 - 130		
Chrysene	BYJ1944-BS1	LCS	0.026486	0.033784	mg/kg	78.4		50 - 130		
Dibenzo[a,h]anthracene	BYJ1944-BS1	LCS	0.033439	0.033784	mg/kg	99.0		50 - 130		
Fluoranthene	BYJ1944-BS1	LCS	0.038405	0.033784	mg/kg	114		60 - 130		
Fluorene	BYJ1944-BS1	LCS	0.034764	0.033784	mg/kg	103		50 - 130		
Indeno[1,2,3-cd]pyrene	BYJ1944-BS1	LCS	0.031122	0.033784	mg/kg	92.1		50 - 130		
Naphthalene	BYJ1944-BS1	LCS	0.031453	0.033784	mg/kg	93.1		50 - 130		
Phenanthrene	BYJ1944-BS1	LCS	0.034432	0.033784	mg/kg	102		50 - 130		
Pyrene	BYJ1944-BS1	LCS	0.041054	0.033784	mg/kg	122		50 - 130		
Nitrobenzene-d5 (Surrogate)	BYJ1944-BS1	LCS	0.13276	0.13514	mg/kg	98.2		30 - 110		
2-Fluorobiphenyl (Surrogate)	BYJ1944-BS1	LCS	0.13243	0.13514	mg/kg	98.0		40 - 120		
p-Terphenyl-d14 (Surrogate)	BYJ1944-BS1	LCS	0.15296	0.13514	mg/kg	113		30 - 120		

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Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			
								Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BYJ1944		Used client sample: N									
Acenaphthene	MS	1524843-48	ND	0.028940	0.033557	mg/kg		86.2		50 - 130	
	MSD	1524843-48	ND	0.031241	0.033898	mg/kg	7.6	92.2	30	50 - 130	
Acenaphthylene	MS	1524843-48	ND	0.030913	0.033557	mg/kg		92.1		50 - 130	
	MSD	1524843-48	ND	0.034169	0.033898	mg/kg	10.0	101	30	50 - 130	
Anthracene	MS	1524843-48	ND	0.035517	0.033557	mg/kg		106		50 - 130	
	MSD	1524843-48	ND	0.038075	0.033898	mg/kg	7.0	112	30	50 - 130	
Benzo[a]anthracene	MS	1524843-48	ND	0.034201	0.033557	mg/kg		102		50 - 130	
	MSD	1524843-48	ND	0.036773	0.033898	mg/kg	7.2	108	30	50 - 130	
Benzo[b]fluoranthene	MS	1524843-48	ND	0.028940	0.033557	mg/kg		86.2		40 - 130	
	MSD	1524843-48	ND	0.030915	0.033898	mg/kg	6.6	91.2	30	40 - 130	
Benzo[k]fluoranthene	MS	1524843-48	ND	0.029926	0.033557	mg/kg		89.2		40 - 130	
	MSD	1524843-48	ND	0.032542	0.033898	mg/kg	8.4	96.0	30	40 - 130	
Benzo[a]pyrene	MS	1524843-48	ND	0.032228	0.033557	mg/kg		96.0		40 - 130	
	MSD	1524843-48	ND	0.034820	0.033898	mg/kg	7.7	103	30	40 - 130	
Benzo[g,h,i]perylene	MS	1524843-48	ND	0.031242	0.033557	mg/kg		93.1		40 - 130	
	MSD	1524843-48	ND	0.034820	0.033898	mg/kg	10.8	103	30	40 - 130	
Chrysene	MS	1524843-48	ND	0.023678	0.033557	mg/kg		70.6		40 - 130	
	MSD	1524843-48	ND	0.025058	0.033898	mg/kg	5.7	73.9	30	40 - 130	
Dibenzo[a,h]anthracene	MS	1524843-48	ND	0.030255	0.033557	mg/kg		90.2		40 - 130	
	MSD	1524843-48	ND	0.034495	0.033898	mg/kg	13.1	102	30	40 - 130	
Fluoranthene	MS	1524843-48	ND	0.033544	0.033557	mg/kg		100		40 - 130	
	MSD	1524843-48	ND	0.035797	0.033898	mg/kg	6.5	106	30	40 - 130	
Fluorene	MS	1524843-48	ND	0.030584	0.033557	mg/kg		91.1		40 - 130	
	MSD	1524843-48	ND	0.033193	0.033898	mg/kg	8.2	97.9	30	40 - 130	
Indeno[1,2,3-cd]pyrene	MS	1524843-48	ND	0.028282	0.033557	mg/kg		84.3		30 - 130	
	MSD	1524843-48	ND	0.033193	0.033898	mg/kg	16.0	97.9	30	30 - 130	
Naphthalene	MS	1524843-48	ND	0.027953	0.033557	mg/kg		83.3		50 - 130	
	MSD	1524843-48	ND	0.030264	0.033898	mg/kg	7.9	89.3	30	50 - 130	
Phenanthrene	MS	1524843-48	ND	0.030255	0.033557	mg/kg		90.2		40 - 130	
	MSD	1524843-48	ND	0.032542	0.033898	mg/kg	7.3	96.0	30	40 - 130	
Pyrene	MS	1524843-48	ND	0.032557	0.033557	mg/kg		97.0		40 - 130	
	MSD	1524843-48	ND	0.036122	0.033898	mg/kg	10.4	107	30	40 - 130	
Nitrobenzene-d5 (Surrogate)	MS	1524843-48	ND	0.11313	0.13423	mg/kg		84.3		30 - 110	
	MSD	1524843-48	ND	0.12757	0.13559	mg/kg	12.0	94.1		30 - 110	
2-Fluorobiphenyl (Surrogate)	MS	1524843-48	ND	0.11477	0.13423	mg/kg		85.5		40 - 120	
	MSD	1524843-48	ND	0.12561	0.13559	mg/kg	9.0	92.6		40 - 120	

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120 Westgate Drive
Watsonville, CA 95076

Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BYJ1944		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1524843-48	ND	0.12332	0.13423	mg/kg		91.9		30 - 120	
	MSD	1524843-48	ND	0.13538	0.13559	mg/kg	9.3	99.8		30 - 120	

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Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYJ1881						
TPH - Light Naptha	BYJ1881-BLK1	ND	mg/kg	50	20	
TPH - Aviation Gas	BYJ1881-BLK1	ND	mg/kg	50	20	
TPH - Stoddard Solvent	BYJ1881-BLK1	ND	mg/kg	20	5.0	
TPH - Heavy Naptha	BYJ1881-BLK1	ND	mg/kg	10	5.0	
TPH - Gasoline	BYJ1881-BLK1	ND	mg/kg	20	5.0	
TPH - Jet Fuel (JP4)	BYJ1881-BLK1	ND	mg/kg	10	5.0	
TPH - Jet Fuel (JP5)	BYJ1881-BLK1	ND	mg/kg	10	4.6	
TPH - Jet Fuel (JP6)	BYJ1881-BLK1	ND	mg/kg	10	5.0	
TPH - Jet Fuel (JP8)	BYJ1881-BLK1	ND	mg/kg	10	5.0	
TPH - Kerosene	BYJ1881-BLK1	ND	mg/kg	10	1.4	
TPH - Diesel (FFP)	BYJ1881-BLK1	ND	mg/kg	10	1.2	
TPH - Fuel Oil	BYJ1881-BLK1	ND	mg/kg	10	5.0	
TPH - Crude Oil	BYJ1881-BLK1	ND	mg/kg	20	2.8	
TPH - Hydraulic Oil / Motor Oil	BYJ1881-BLK1	ND	mg/kg	20	6.5	
TPH - Waste Oil	BYJ1881-BLK1	ND	mg/kg	20	10	
TPH - WD-40	BYJ1881-BLK1	ND	mg/kg	10	5.0	
TPH - Mineral Oil	BYJ1881-BLK1	ND	mg/kg	50	20	
TPH - Mineral Spirit	BYJ1881-BLK1	ND	mg/kg	20	10	
TPH - Motor Oil	BYJ1881-BLK1	ND	mg/kg	20	6.5	
TPH - Lube Oil	BYJ1881-BLK1	ND	mg/kg	20	10	
TPH - Olive Oil	BYJ1881-BLK1	ND	mg/kg	20	10	
TPH - Diluent	BYJ1881-BLK1	ND	mg/kg	10	5.0	
Tetracosane (Surrogate)	BYJ1881-BLK1	65.1	%	20 - 145 (LCL - UCL)		

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Reported: 10/22/2015 15:44
Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BYJ1881											
TPH - Diesel (FFP)	BYJ1881-BS1	LCS	69.893	83.056	mg/kg	84.2		64	124		
Tetracosane (Surrogate)	BYJ1881-BS1	LCS	2.4221	3.3844	mg/kg	71.6		20	145		

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Project: Misc.
Project Number: Kearney St. / 2X513.D
Project Manager: Jered Chaney

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent		Lab Quals
								Recovery	RPD	
QC Batch ID: BYJ1881		Used client sample: N								
TPH - Diesel (FFP)	MS	1524843-42	ND	64.653	81.967	mg/kg		78.9		52 - 131
	MSD	1524843-42	ND	65.434	84.459	mg/kg	1.2	77.5	30	52 - 131
Tetracosane (Surrogate)	MS	1524843-42	ND	2.2720	3.3400	mg/kg		68.0		20 - 145
	MSD	1524843-42	ND	2.2184	3.4416	mg/kg	2.4	64.5		20 - 145

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A52 Chromatogram not typical of diesel.