



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

January 15, 2013

Ms. Ann Conner (*Sent via E-mail to: apb1@pge.com*)
PG&E
3401 Crow Canyon Road, Room 176C
San Ramon, CA 94583

Subject: Case Closure for SLIC Case No. RO0003094 and GeoTracker Global ID T10000003439, PG&E
Pig, 997 Grant Avenue, San Lorenzo, CA 94580

Dear Ms. Conner:

This letter confirms the completion of site investigation and remedial actions for the soil and groundwater investigation at the above referenced site. We are also transmitting the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported releases at the subject site with the provision that the information provided to this agency was accurate and representative of existing conditions. The subject Spills, Leaks, Investigation, and Cleanup (SLIC) case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual total petroleum hydrocarbons as diesel remain in soil beneath the site at concentrations up to 290 parts per million (ppm).

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna L. Drogos".

Donna L. Drogos, P.E.
Division Chief

Enclosure: Case Closure Summary

Ms. Ann Conner
RO0003094
January 15, 2013
Page 2

cc: Greg Hoehn , Stantec, 57 Lafayette Circle, 2nd Floor, Lafayette, CA 94549 (*Sent via E-mail to:*
Greg.Hoehn@stantec.com)

Loren Loo, PG&E, 3401 Crow Canyon Road, San Ramon, CA 94583 (*Sent via E-mail to:*
LHL1@pge.com)

Tracy Craig, Craig Communications, 2915 Doidge Avenue, Pinole, CA 94564, (*Sent via E-mail to:*
tracy@craig-communications.com)

Alameda County Public Works, Building Inspection Division, 399 Elmhurst Street, Room 141,
Hayward, CA 94544

Donna Drogos, ACEH (*Sent via E-mail to:* donna.drogos@acgov.org)
Jerry Wickham, ACEH (*Sent via E-mail to:* jerry.wickham@acgov.org)

GeoTracker, eFile

**CASE CLOSURE SUMMARY
SPILLS, LEAKS, INVESTIGATION, AND CLEANUP PROGRAM**

I. AGENCY INFORMATION

Date: January 15, 2013

| | |
|--|--|
| Agency Name: Alameda County Environmental Health | Address: 1131 Harbor Bay Parkway |
| City/State/Zip: Alameda, CA 94502-6577 | Phone: (510) 567-6791 |
| Responsible Staff Person: Jerry Wickham | Title: Senior Hazardous Materials Specialist |

II. CASE INFORMATION

Note: This case (RO0003094) was opened to re-evaluate the site for a planned change in land use. A fuel leak case for this site (RO0001030) was previously closed on June 10, 1997 with a site management requirement to re-evaluate the case if there was a change in land use.

| | | |
|--|---|-------------------------|
| Site Facility Name: PG&E Pig | | |
| Site Facility Address: 997 Grant Avenue, San Lorenzo, CA 94580 | | |
| RB Case No.: NA | Local Case No.: --- | LOP Case No.: RO0003094 |
| URF Filing Date: --- | Geotracker ID: T10000003439 | APN: 412-22-4-3 |
| Responsible Parties | Addresses | Phone Numbers |
| Ms. Ann Conner, PG&E | 3401 Crow Canyon Road, Room 176C San Ramon, CA 94583 | 925-415-6381 |

| Tank I.D. No | Size in Gallons | Contents | Closed In Place/Removed? | Date |
|--------------|-----------------|-----------|--------------------------|------------|
| 1 | 6,000 | Gasoline | Removed | 12/18/1990 |
| 2 | 10,000 | Gasoline | Removed | 12/18/1990 |
| 3 | 10,000 | Gasoline | Removed | 12/18/1990 |
| 4 | 1,000 | Waste Oil | Removed | 12/18/1990 |
| Piping | | | Removed | 12/18/1990 |

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

| | | |
|--|---|---|
| Cause and Type of Release: Unknown. The tanks failed a leak test due to leaks in the vent lines in 1986. The lines were replaced and retested. During the 1990 tank removals, one regular unleaded gasoline tank had three large cracks and one pinhole leak on the bottom. A second unleaded gasoline tank had one small crack in the bottom. | | |
| Site characterization complete? Yes | Date Approved By Oversight Agency: ---- | |
| Monitoring wells installed? No wells were installed during current investigation. Seven wells were installed during previous investigations between 1990 and 1994. | Number: 0 | Proper screened interval? NA |
| Highest GW Depth Below Ground Surface: 5.41 fbgs | Lowest Depth: 16.02 fbgs | Flow Direction: Southwest to northwest. |
| Most Sensitive Current Use: Potential drinking water source | | |

| | |
|---|---|
| Summary of Production Wells in Vicinity: The nearest water supply well (3S3W12R1) appears to be an irrigation well located approximately 800 feet northwest of the site. An irrigation well is planned for Arroyo High School, which is located approximately 400 feet west of the site. Based on the limited extent of the plume in 1997 (limited to the site), likelihood that natural attenuation has further reduced concentrations within the plume, and the distance from the site to the wells, well 3S3W12R1 and the planned irrigation well at Arroyo High School are not expected to be receptors for the site. A domestic well is located approximately 950 feet northeast of the site. Based on the distance from the site and cross gradient location, the domestic well is not expected to be a receptor for the site. No other active water supply wells appear to be located within 1,000 feet of the site. | |
| Are drinking water wells affected? No | Aquifer Name: East Bay Plain |
| Is surface water affected? No | Nearest SW Name: San Lorenzo Creek is approximately 1,800 feet northwest of the site. |
| Off-Site Beneficial Use Impacts (Addresses/Locations): --- | |
| Reports on file? Yes | Where are reports filed? Alameda County Environmental Health |

| TREATMENT AND DISPOSAL OF AFFECTED MATERIAL | | | |
|---|------------------------|---|-----------------|
| Material | Amount (Include Units) | Action (Treatment or Disposal w/Destination) | Date |
| Tank | Four tanks | Transported to Erickson, Inc., Richmond, CA for disposal | 12/18/1990 |
| Piping | Not Reported | Not reported | Not reported |
| Free Product | --- | --- | --- |
| Soil | 220 cubic yards | Transported to Browning Ferris Industries, 4001 North Vasco Road, Livermore, CA | February 1991 |
| | 1,380 cubic yards | Aerated on site and used as backfill material | February 1991 |
| | 18.64 tons | Transported to Republic Services, Forward Landfill in Manteca, CA for disposal | August 24, 2012 |
| Groundwater | --- | --- | --- |

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 4 for additional information on contaminant locations and concentrations)

| Contaminant | Soil (ppm) | | Water (ppb) | |
|-----------------------------------|--------------|--------------|---------------------|---------------------|
| | Before | After | Before | After |
| TPH (Gas) | 510 | 0.43 | Not Analyzed (1) | Not Analyzed (1) |
| TPH (Diesel) | 290 | 290 | Not Analyzed (1) | Not Analyzed (1) |
| Oil and Grease | Not Analyzed | Not Analyzed | Not Analyzed (1) | Not Analyzed (1) |
| Benzene | 1.3 | <0.005 | Not Analyzed (1) | Not Analyzed (1) |
| Toluene | <0.005 | <0.005 | Not Analyzed (1) | Not Analyzed (1) |
| Ethylbenzene | 12 | <0.005 | Not Analyzed (1) | Not Analyzed (1) |
| Xylenes | 26 | <0.005 | Not Analyzed (1) | Not Analyzed (1) |
| Heavy Metals (Cd, Cr, Pb, Ni, Zn) | 12.7 (1) | 12.7 (1) | Not Analyzed (1) | Not Analyzed (1) |
| MTBE | <0.005 (2) | <0.005 (2) | Not Analyzed (1) | Not Analyzed (1) |
| Other (8240/8270) | <0.05 (3) | <0.05 (3) | Not Analyzed (1) | Not Analyzed (1) |

Notes:

(1) No groundwater samples were collected during this re-evaluation of the case. Groundwater monitoring was conducted at the site from December 1990 through June 1997. Groundwater results can be viewed in the case file for ACEH fuel leak case RO0001030 (GeoTracker Global ID T0600100358).

(2) Lead = 12.7 ppm; cadmium <0.005 ppm; total chromium = 34.3 ppm; nickel = 58.6 ppm; and zinc = 65.7 ppm

(3) MTBE <0.005 ppm; TBA <0.05 ppm; DIPE, ETBE, and TAME <0.01 ppm; and EDB, and EDC <0.005 ppm.

(4) Napthalene <0.05 ppm.

Site History and Description of Corrective Actions:

The site is a 1.4-acre lot at the intersection of Washington Avenue and Grant Avenue in San Lorenzo, California. The site was a gasoline service station until the USTs were removed in December 1990. Following removal of the USTs and demolition of the gasoline service station in December 1990, the site remained a vacant lot until PG&E purchased the property for use as a pig-receiving station for a pipeline. The pig-receiving station is under construction in the northern corner of the site and the remainder of the site will be developed as a public park. Surrounding land use is mixed commercial and residential. Arroyo High School is located approximately 400 feet west of the site.

Evidence of an unauthorized fuel release was discovered during removal of the USTs and a fuel leak case (ACEH case RO00001030 and GeoTracker Global ID T0600100358) was opened in December 1990. Following site investigation activities, cleanup, and groundwater monitoring that were conducted between 1991 and 1997, the fuel leak case was closed by ACEH on September 19, 1997. Due to residual petroleum hydrocarbons from the former gasoline service station, the fuel leak case was closed with a site management requirement to re-evaluate the case if there was a change in land use. Due to the planned change in land use to a public park, the current SLIC case was opened on December 9, 2011 to re-evaluate the case.

On May 26, 2011, twelve soil borings were advanced at various locations throughout the former gasoline service station to assess current conditions. Analytical results from the soil samples indicated that total petroleum hydrocarbons (TPH) as diesel, TPH as gasoline, benzene, ethylbenzene, and xylenes were present in soil at concentrations that exceeded Environmental Screening Levels (ESLs) developed by the San Francisco Bay Regional Water Quality Control Board in the former UST area (SB-6) and the area of a former dispenser (SB-11).

On August 17, 2012, soil excavation was conducted in the two areas where soil concentrations exceeded ESLs to remove residual contamination with concentrations exceeding ESLs. Confirmation soil samples collected from the sidewalls of the SB-6 excavation (UST area) contained total petroleum hydrocarbons as gasoline (TPHg) at a maximum concentration of 0.43 ppm and did not contain BTEX or naphthalene at concentrations exceeding reporting limits. Confirmation soil samples from the sidewalls and bottom of the SB-11 excavation (dispenser area) did not contain TPHg, BTEX, or naphthalene at concentrations above reporting limits. One of the soil samples from the SB-11 contained TPH as diesel at a concentration of 1.5 ppm. Results from the confirmation soil samples indicated that the excavations had achieved the cleanup goals. The contaminated soil was disposed off-site and the excavations were backfilled with clean soil.

IV. CLOSURE

| | | |
|--|--------------------------|--------------------|
| Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes | | |
| Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes | | |
| Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions. | | |
| Site Management Requirements: None. | | |
| Should corrective action be reviewed if land use changes? No | | |
| Was a deed restriction or deed notification filed? No | | Date Recorded: --- |
| Monitoring Wells Decommissioned: --- | Number Decommissioned: 0 | Number Retained: 0 |
| List Enforcement Actions Taken: None | | |
| List Enforcement Actions Rescinded: None | | |

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP) and appears to meet the general and media-specific criteria for closure under the LTCP.

The site appears to meet the groundwater media-specific criteria under the LTCP based on the following conditions:

1. The plume is stable or decreasing in size and is limited in extent to the site.
2. The plume is less than 100 feet in length.
3. There is no free product.
4. No water supply wells or surface water bodies are within 250 feet of the plume boundary.

The site appears to meet the media-specific criteria for petroleum vapor intrusion to indoor air under the LTCP based on the following conditions:

1. Benzene concentrations in groundwater are less than 100 ppb.
2. The site is expected to have a continuous bioattenuation zone that is more than 5 feet thick

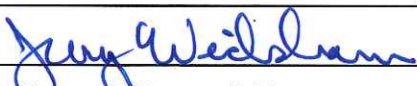
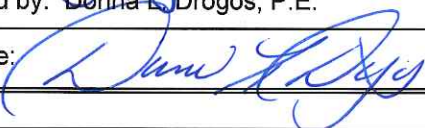
The site appears to meet the media-specific criteria for direct contact and outdoor air exposure based on the following conditions:

1. The maximum concentrations of benzene, ethylbenzene, and naphthalene remaining in soil at the site are less than the direct contact and outdoor air exposure criteria in Table 1 of the LTCP.

Conclusion:

Alameda County Environmental Health staff believes that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary at this time. ACEH staff recommends case closure for this fuel leak site with no site management requirements.

VI. LOCAL AGENCY REPRESENTATIVE DATA

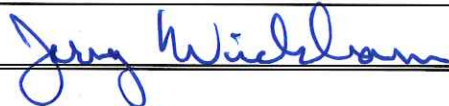
| | |
|--|--|
| Prepared by: Jerry Wickham, P.G. | Title: Senior Hazardous Materials Specialist |
| Signature:  | Date: 01/10/13 |
| Approved by: Donna L. Drogos, P.E. | Title: Division Chief |
| Signature:  | Date: 01/15/13 |

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

| | |
|--|------------------------------|
| Regional Board Staff Name: Cherie MCcaulou | Title: Engineering Geologist |
| Notification Date: December 11, 2012 | |

VIII. MONITORING WELL DECOMMISSIONING

| | | |
|---|---|--------------------|
| Date Requested by ACEH: NA | Date of Well Decommissioning Report: NA | |
| All Monitoring Wells Decommissioned: NA | Number Decommissioned: 0 | Number Retained: 0 |
| Reason Wells Retained: NA | | |
| Additional requirements for submittal of groundwater data from retained wells: NA | | |
| ACEH Concurrence - Signature:  | Date: 01/10/13 | |

Attachments:

1. Vicinity Map and Site Plan (2 pp)
2. August 17, 2012 Excavations, Confirmation Soil Sample Results, and Soil Analytical Results Maps (3 pp)
3. Soil Analytical Data (2 pp)
4. Boring Logs (12 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Wickham, Jerry, Env. Health

From: MCcaulou, Cherie@Waterboards [Cherie.MCcaulou@waterboards.ca.gov]
Sent: Tuesday, December 11, 2012 4:36 PM
To: Wickham, Jerry, Env. Health
Subject: RE: Pending case closure for RO3094, 997 Grant Avenue, San Lorenzo

Jerry – Thank you for notifying our agency that Alameda County LOP intends to case this case. We have no objection to this action.

Sincerely,

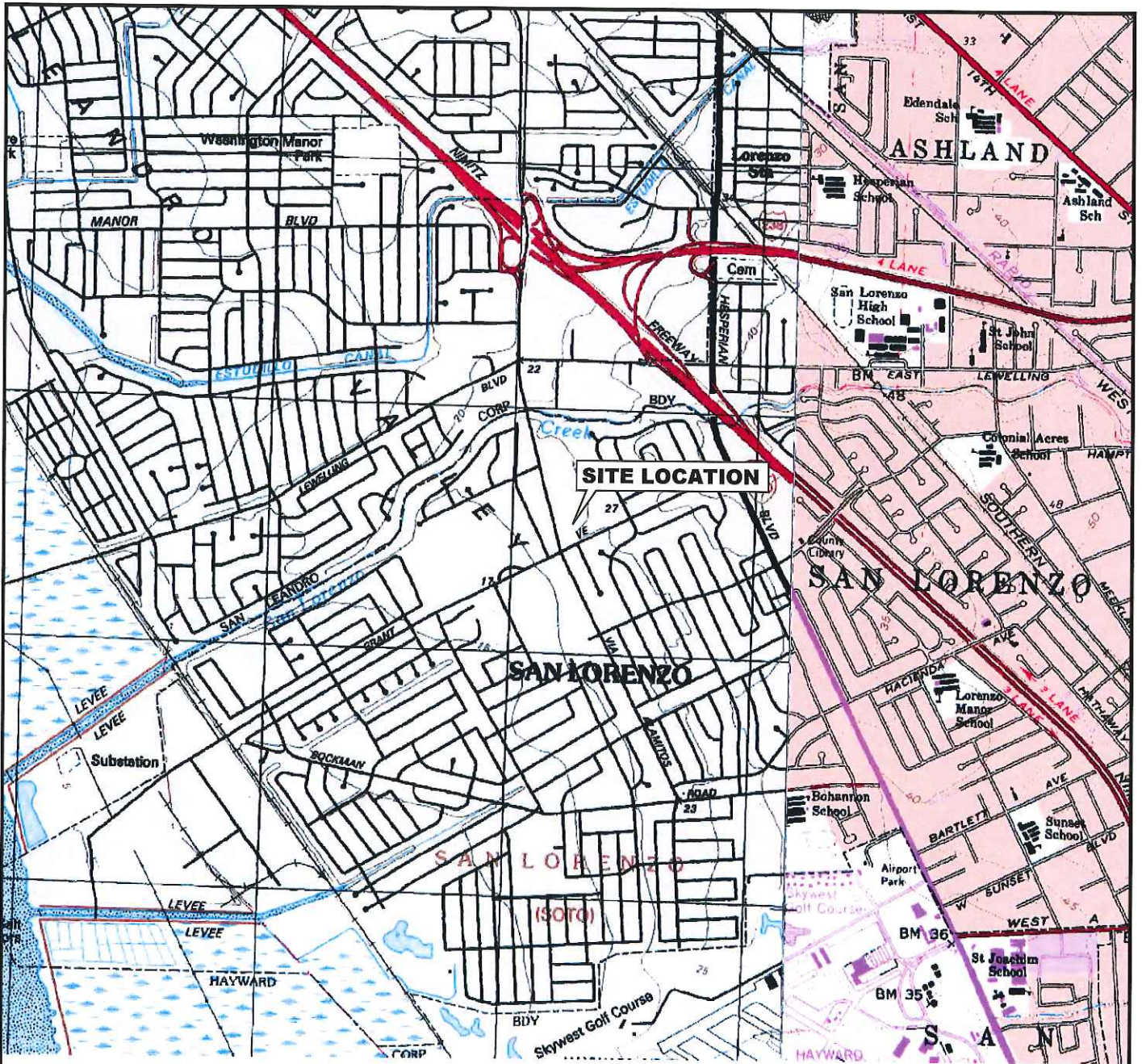
Cherie McCaulou
Engineering Geologist
cmccaulou@waterboards.ca.gov
510-622-2342

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]
Sent: Tuesday, December 11, 2012 4:00 PM
To: MCcaulou, Cherie@Waterboards
Subject: Pending case closure for RO3094, 997 Grant Avenue, San Lorenzo

Hi Cherie,

This email provides notification of pending closure for ACEH case RO3094, 997 Grant Avenue, San Lorenzo.

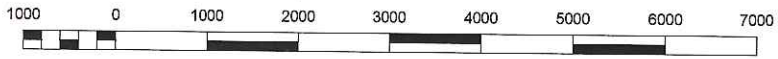
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org



CALIFORNIA



SCALE IN MILE



SCALE IN FEET

Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server



57 Lafayette Circle, 2nd Floor
Lafayette California
PHONE: (925) 299-9300 FAX: (925) 299-9302

FOR:
PACIFIC GAS AND ELECTRIC COMPANY
L105N PROPERTY
997 GRANT AVENUE
SAN LORENZO, CA

SITE LOCATION MAP

FIGURE:
1

JOB NUMBER:
185702540.200.0001

DRAWN BY:
RRR

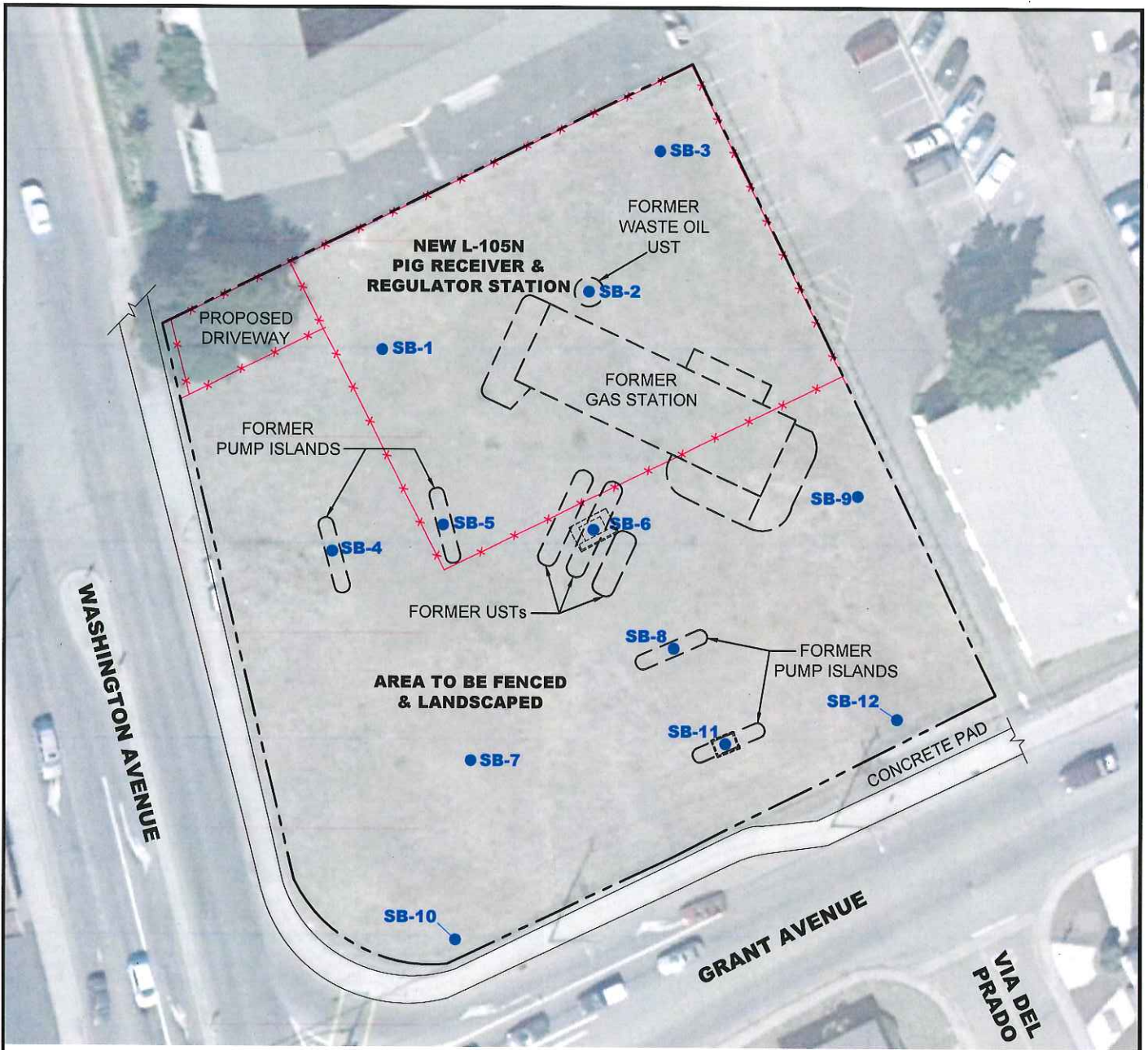
CHECKED BY:
KC

APPROVED BY:
GH

DATE:
05/25/12

FILEPATH:M:\PG&E\PG&E - San Lorenzo\185702540\185702540-F1_F2-SLM_SP.dwg|rrrogasch|May 25, 2012 at 11:05|Layout: SITE LOCATION MAP

ATTACHMENT 1



LEGEND:

- **SB-1** SOIL BORING LOCATION (MAY 2011)
- APPROXIMATE PROPERTY BOUNDARY
- x-x- PROPOSED FENCE LINE
- - - FORMER GAS STATION FEATURES
- SB-6 AND SB-11 EXCAVATION AREAS (SEE FIGURE 4)

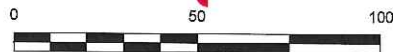
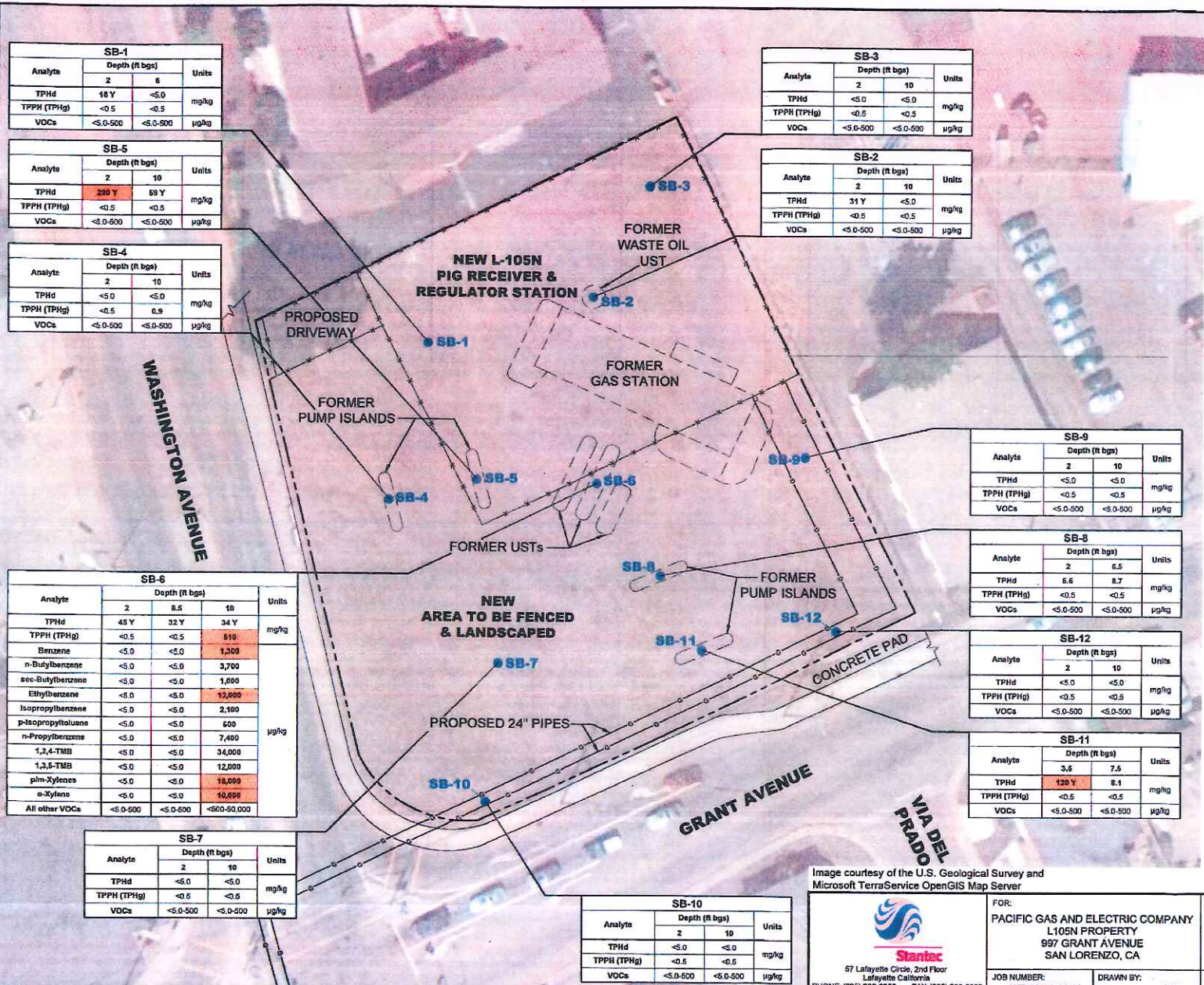


Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server APPROXIMATE SCALE IN FEET

| | | | | | |
|--|---|------------------|--------------------------------|--------------------|-------------------------|
|  57 Lafayette Circle, 2nd Floor Lafayette California PHONE: (925) 299-9300 FAX: (925) 299-9302 | FOR: PACIFIC GAS AND ELECTRIC COMPANY L105N PIPELINE 997 GRANT AVENUE SAN LORENZO, CA | | AUGUST 17, 2012 EXCAVATIONS | | FIGURE: 3 |
| | JOB NUMBER: 185702540.200.0001 | DRAWN BY: RRR | CHECKED BY: GH | APPROVED BY: GH | DATE: 09/04/12 |



LEGEND:

- SB-1 SOIL BORING LOCATION
- APPROXIMATE PROPERTY BOUNDARY
- x-x- PROPOSED FENCE LINE
- c— PROPOSED 24" UNDERGROUND GAS LINES
- FORMER GAS STATION FEATURES

ABBREVIATIONS/EXPLANATION

TPHd = Total petroleum hydrocarbons as diesel
 TPPH = Total purgeable petroleum hydrocarbons
 TPHg = Total petroleum hydrocarbons as gasoline, reported at TPPH
 ft bgs = Feet below ground surface
 mg/kg = Milligrams per kilogram
 µg/kg = Micrograms per kilogram
BOLD = Indicates value detected above laboratory reporting limit.
Y = Value exceeds the shallow soil (<3m) residential and commercial/industrial use ESLs.
 < = Analyte not detected at shown reporting limit.
 ESLs = Environmental screening levels
 VOCs = Volatile organic compounds
 Y = Sample exhibits chromatographic pattern which does not match the laboratory standard.

NOTES

- 1) Leaking underground fuel tank (LUFT) metal results not shown; no LUFT metals results exceeded residential ESLs.
- 2) See the laboratory report for a complete list of analytes and reporting limits.



| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 6 | |
| TPHd | 18 Y | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | 200 Y | 59 Y | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | <5.0 | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | 0.9 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | <5.0 | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | 31 Y | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | <5.0 | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 6.5 | |
| TPHd | 6.6 | 8.7 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | <5.0 | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 3.5 | 7.5 | |
| TPHd | 120 Y | 8.1 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | | Units |
|--------------------|----------------|----------|-------------|-------|
| | 2 | 8.5 | 10 | |
| TPHd | 45 Y | 32 Y | 34 Y | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | 510 | µg/kg |
| Benzene | <5.0 | <5.0 | 1,300 | µg/kg |
| n-Butylbenzene | <5.0 | <5.0 | 3,700 | µg/kg |
| sec-Butylbenzene | <5.0 | <5.0 | 1,000 | µg/kg |
| Ethylbenzene | <5.0 | <5.0 | 12,000 | µg/kg |
| Isopropylbenzene | <5.0 | <5.0 | 2,100 | µg/kg |
| p-Isopropyltoluene | <5.0 | <5.0 | 600 | µg/kg |
| n-Propylbenzene | <5.0 | <5.0 | 7,400 | µg/kg |
| 1,2,4-TMB | <5.0 | <5.0 | 34,000 | µg/kg |
| 1,3,5-TMB | <5.0 | <5.0 | 12,000 | µg/kg |
| p/m-Xylenes | <5.0 | <5.0 | 18,000 | µg/kg |
| o-Xylenes | <5.0 | <5.0 | 10,000 | µg/kg |
| All other VOCs | <5.0-500 | <5.0-500 | <500-50,000 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | <5.0 | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

| Analyte | Depth (ft bgs) | | Units |
|-------------|----------------|----------|-------|
| | 2 | 10 | |
| TPHd | <5.0 | <5.0 | mg/kg |
| TPPH (TPHg) | <0.5 | <0.5 | µg/kg |
| VOCs | <5.0-500 | <5.0-500 | µg/kg |

Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server

Stantec
 57 Lafayette Circle, 2nd Floor
 Lafayette California
 PHONE: (925) 298-9300 FAX: (925) 298-9302

FOR:
PACIFIC GAS AND ELECTRIC COMPANY
 L105N PROPERTY
 997 GRANT AVENUE
 SAN LORENZO, CA

JOB NUMBER: 185702404.200.0001
 DRAWN BY: RRR

CHECKED BY: KC
 APPROVED BY: GH

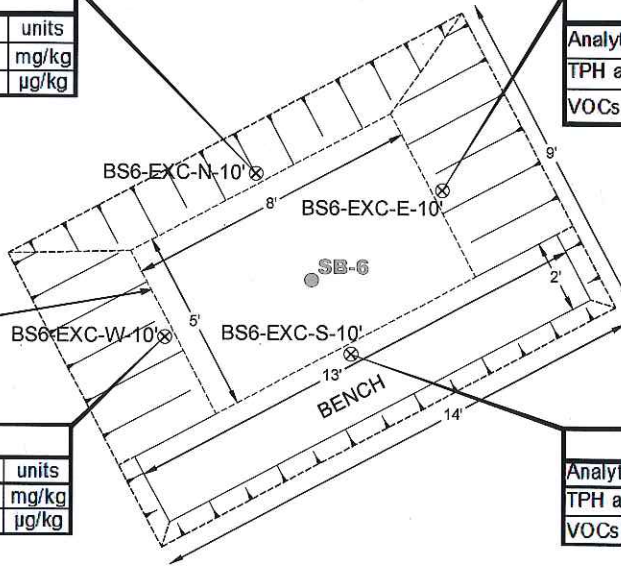
FIGURE:
3
 DATE: 08/22/11

SOIL ANALYTICAL RESULTS

| SB6-EXC-N-10' | | |
|--------------------------|--------|-------|
| Analyte | Result | units |
| TPH as gasoline | <0.23 | mg/kg |
| VOCs tert-Butylbenzene | 4.9 | µg/kg |

| SB6-EXC-E-10' | | |
|-----------------|----------------|-------|
| Analyte | Result | units |
| TPH as gasoline | <0.24 | mg/kg |
| VOCs | All non-detect | |

EXCAVATION
BOTTOM
(~11' bgs)



| SB6-EXC-W-10' | | |
|--------------------------|--------|-------|
| Analyte | Result | units |
| TPH as gasoline | 0.32 | mg/kg |
| VOCs tert-Butylbenzene | 8.3 | µg/kg |

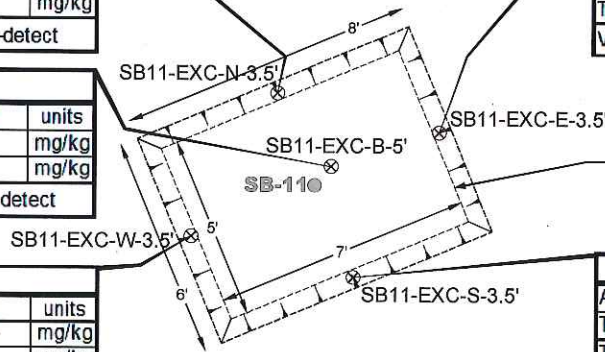
| SB6-EXC-S-10' | | |
|--------------------------|--------|-------|
| Analyte | Result | units |
| TPH as gasoline | 0.43 | mg/kg |
| VOCs tert-Butylbenzene | 6.2 | µg/kg |

SB-6 EXCAVATION LOCATION

| SB11-EXC-N-3.5' | | |
|-----------------|----------------|-------|
| Analyte | Result | units |
| TPH as diesel | <1.0 | mg/kg |
| TPH as gasoline | <0.23 | mg/kg |
| VOCs | All non-detect | |

| SB11-EXC-E-3.5' | | |
|-----------------|----------------|-------|
| Analyte | Result | units |
| TPH as diesel | <0.98 | mg/kg |
| TPH as gasoline | <0.24 | mg/kg |
| VOCs | All non-detect | |

| SB11-EXC-B-5' | | |
|-----------------|----------------|-------|
| Analyte | Result | units |
| TPH as diesel | 1.6 | mg/kg |
| TPH as gasoline | <0.24 | mg/kg |
| VOCs | All non-detect | |



| SB11-EXC-W-3.5' | | |
|-----------------|----------------|-------|
| Analyte | Result | units |
| TPH as diesel | <0.99 | mg/kg |
| TPH as gasoline | <0.25 | mg/kg |
| VOCs | All non-detect | |

| SB11-EXC-S-3.5' | | |
|-----------------|----------------|-------|
| Analyte | Result | units |
| TPH as diesel | <0.99 | mg/kg |
| TPH as gasoline | <0.24 | mg/kg |
| VOCs | All non-detect | |

SB-11 EXCAVATION LOCATION

LEGEND:

- ⊗ SIDEWALL OR BOTTOM CONFIRMATION SOIL SAMPLE LOCATION (AUGUST 17, 2012)
- SB-1 SOIL BORING LOCATION (MAY 2011)
- EXCAVATION LIMITS (AUGUST 17, 2012)

ABBREVIATIONS:

- TPH = Total Petroleum Hydrocarbons
- VOCs = Volatile Organic Compounds
- bgs = Below Ground Surface
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram

NOTE:

SEE THE LABORATORY REPORT FOR A COMPLETE LIST OF VOC ANALYTES AND REPORTING LIMITS.



| | | | | |
|--|---|---|-------------------|---|
|  57 Lafayette Circle, 2nd Floor Lafayette California PHONE: (925) 299-9300 FAX: (925) 299-9302 | FOR: PACIFIC GAS AND ELECTRIC COMPANY L105N PIPELINE 997 GRANT AVENUE SAN LORENZO, CA | AUGUST 17, 2012 EXCAVATION CONFIRMATION SOIL SAMPLE RESULTS | | FIGURE: <div style="font-size: 2em; text-align: center;">4</div> |
| | JOB NUMBER: 185702540.200.0001 | DRAWN BY: RRR | CHECKED BY: GH | APPROVED BY: GH |

Table 1
Soil Sample Analytical Results
PG&E L1058 Property
897 Grant Avenue
San Lorenzo, California

| Boring Name | Sample Depth (ft bgs) | Sample Date | TPH | | VOCs | | | | | | | | | | | | LUFT Metals | | | | | | |
|------------------|-----------------------|----------------------|--|--------------------------|--------------------------|----------------|------------------|--------------|------------------|--------------------|-----------------|-----------|-----------|-------------|-----------|----------------|--------------------------|----------------|--------|--------|-------|-------|-------|
| | | | EPA Method 8015B with silica gel cleanup (mg/kg) | EPA Method 8260B (mg/kg) | EPA Method 8260B (µg/kg) | | | | | | | | | | | | EPA Method 6010B (mg/kg) | | | | | | |
| | | | TPH as Diesel | TPPH (TPHg) | Benzene | n-Butylbenzene | sec-Butylbenzene | Ethylbenzene | Isopropylbenzene | p-Isopropyltoluene | n-Propylbenzene | 1,2,4-TMB | 1,3,5-TMB | p/m-Xylenes | o-Xylenes | All Other VOCs | Cadmium | Total Chromium | Lead | Nickel | Zinc | | |
| SB-1 | 2 | 05/26/11 | 18 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 23.6 | 4.76 | 31.9 | 28.8 |
| | 6 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 17.3 | 3.77 | 24.4 | 25.1 |
| SB-2 | 2 | 05/26/11 | 31 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 26.4 | 12.7 | 37.2 | 42.4 |
| | 10 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 34.2 | 6.45 | 45.1 | 39.2 |
| SB-3 | 2 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 30.6 | 6.15 | 45.3 | 38.2 |
| | 10 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 32.0 | 6.60 | 58.6 | 40.8 |
| SB-4 | 2 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 28.2 | 5.28 | 39.6 | 38.0 |
| | 10 | 05/26/11 | <5.0 | 0.9 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 28.1 | 6.11 | 34.5 | 29.9 |
| SB-5 | 2 | 05/26/11 | 280 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 26.1 | 9.69 | 31.3 | 36.1 |
| | 10 | 05/26/11 | 59 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 16.5 | 8.69 | 25.6 | 64.1 |
| SB-6 | 2 | 05/26/11 | 45 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 25.8 | 14.2 | 34.3 | 65.7 |
| | 6.5 | 05/26/11 | 32 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 27.8 | 7.59 | 35.5 | 39.6 |
| | 10 | 05/26/11 | 34 Y | \$10 | 1,300 | 3,700 | 1,000 | 12,000 | 2,100 | 600 | 7,400 | 34,000 | 12,000 | 16,000 | 10,000 | <500-50,000 | <5.0-50,000 | <0.500 | 32.5 | 6.66 | 41.9 | 36.8 | |
| SB-7 | 2 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 23.9 | 5.24 | 33.8 | 31.4 |
| | 10 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 26.3 | 5.61 | 29.0 | 32.8 |
| SB-8 | 2 | 05/26/11 | 5.5 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 31.2 | 8.19 | 40.2 | 43.7 |
| | 6.5 | 05/26/11 | 8.7 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 28.6 | 5.81 | 39.9 | 39.2 |
| SB-9 | 2 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 27.8 | 5.39 | 36.9 | 34.6 |
| | 10 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 34.3 | 7.33 | 50.2 | 40.6 |
| SB-10 | 2 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 31.2 | 6.01 | 42.6 | 39.9 |
| | 10 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 29.8 | 5.97 | 41.1 | 39.0 |
| SB-11 | 3.5 | 05/26/11 | 120 Y | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 29.4 | 8.15 | 42.3 | 42.5 |
| | 7.5 | 05/26/11 | 8.1 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 17.0 | 3.65 | 22.4 | 24.2 |
| SB-12 | 2 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 26.1 | 11.5 | 35.8 | 35.1 |
| | 10 | 05/26/11 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0-500 | <0.500 | 20.6 | 4.92 | 31.0 | 26.6 |
| | | STLC Value | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NA | 1.0 | 5.0 | 5.0 | 20 | 250 |
| | | TTLC Value | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NA | 100 | 2,500 | 1,000 | 2,000 | 5,000 |
| ESL ¹ | | Residential (<3m) | 83 | 83 | 44 | NE | NE | 2,300 | NE | NE | NE | NE | NE | 2,300 | 2,300 | NA | NA | 1.7 | 1,000 | 200 | 150 | 600 | |
| | | Residential (>3m) | 83 | 83 | 44 | NE | NE | 3,300 | NE | NE | NE | NE | NE | 2,300 | 2,300 | NA | NA | 39 | 2,500 | 750 | 260 | 2,500 | |
| ESL ² | | Commercial/Ind (<3m) | 83 | 83 | 44 | NE | NE | 3,300 | NE | NE | NE | NE | NE | 2,300 | 2,300 | NA | NA | 7.4 | 2,500 | 750 | 150 | 600 | |
| | | Commercial/Ind (>3m) | 83 | 83 | 44 | NE | NE | 3,300 | NE | NE | NE | NE | NE | 2,300 | 2,300 | NA | NA | 39 | 5,000 | 750 | 260 | 5,000 | |

Notes:

Only COCs detected in one or more samples are displayed. See the laboratory report for a complete list of analytes and reporting limits for the VOC analyses.

Y Sample exhibits chromatographic pattern which does not match the laboratory standard.

1 Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to subsurface soils in a residential setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, May 2008, Summary Tables A and C).

2 Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to subsurface soils in a commercial/industrial setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, May 2008, Summary Tables B and D).

Value exceeds the shallow soil (<3m) residential and commercial/industrial use ESLs.

STLC= Soluble threshold limit concentration

TTLC= Total threshold limit concentration

EPA= Environmental Protection Agency

VOCs= Volatile organic compounds

LUFT= Leaking underground fuel tank

mg/kg= Milligrams per kilogram

µg/kg= Micrograms per kilogram

ft bgs= Feet below ground surface

TPHd= Total petroleum hydrocarbons as diesel

TPHg= Total petroleum hydrocarbons as gasoline; reported as TPPH by the laboratory.

TPPH= Total purgable petroleum hydrocarbons

TMB= Trimethylbenzene

NE= Not established

<= Analyte not detected at shown reporting limit.

Table 1
Soil Excavation Confirmation Sample Analytical Results
PG&E L105N Property
997 Grant Avenue
San Lorenzo, California

| Sample ID | Sample Depth (ft bgs) | Sample Date | TPHd | TPHg | VOCs | |
|------------------|--------------------------|-------------|--|--------------------------------|-----------------------------|----------------|
| | | | EPA Method 8015B with silica gel cleanup (mg/kg) | EPA Method 8260B (mg/kg) | EPA Method 8260B (µg/kg) | |
| | | | TPH as Diesel | TPH as Gasoline | tert- Butylbenzene | All Other VOCs |
| SB6-EXC-N-10' | 10 | 08/17/12 | -- | <0.23 | 4.9 | <4.7 - 47 |
| SB6-EXC-S-10' | 10 | 08/17/12 | -- | 0.43 | 6.2 | <5.0 - 50 |
| SB6-EXC-E-10' | 10 | 08/17/12 | -- | <0.24 | <4.9 | <4.9 - 49 |
| SB6-EXC-W-10' | 10 | 08/17/12 | -- | 0.32 | 8.3 | <5.0 - 50 |
| SB-11-N-3.5' | 3.5 | 08/17/12 | <1.0 | <0.23 | <4.6 | <4.6 - 46 |
| SB-11-S-3.5' | 3.5 | 08/17/12 | <0.99 | <0.24 | <4.8 | <4.8 - 48 |
| SB-11-E-3.5' | 3.5 | 08/17/12 | <0.98 | <0.24 | <4.9 | <4.9 - 49 |
| SB-11-W-3.5' | 3.5 | 08/17/12 | <0.99 | <0.25 | <4.9 | <4.9 - 49 |
| SB-11-B-5' | 5 | 08/17/12 | 1.5 | <0.24 | <4.8 | <4.8 - 48 |
| ESL ¹ | Residential (<3m) | | 83 | 83 | NE | NA |
| | Residential (>3m) | | 83 | 83 | NE | NA |
| ESL ² | Commercial/Ind (<3m) | | 83 | 83 | NE | NA |
| | Commercial/Ind (>3m) | | 83 | 83 | NE | NA |

Notes:

Only COCs detected in one or more samples are displayed. See the laboratory report for a complete list of analytes and reporting limits for the VOC analyses.

1 Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to subsurface soils in a residential setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, May 2008, Summary Tables A and C).

2 Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to subsurface soils in a commercial/industrial setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, May 2008, Summary Tables B and D).

EPA = Environmental Protection Agency

VOCs = Volatile organic compounds

mg/kg = Milligrams per kilogram

µg/kg = Micrograms per kilogram

ft bgs = Feet below ground surface

TPHd = Total petroleum hydrocarbons as diesel

TPHg = Total petroleum hydrocarbons as gasoline

NE = Not established

NA = Not applicable

-- = Not analyzed

< = Analyte not detected at shown reporting limit.

| | | |
|---|------------------------------------|-------------------------------|
| Project: <u>PGE San Lorenzo Phase II</u> | | Boring/Well Name: <u>SB-1</u> |
| Boring Location: <u>NW Corner of Site</u> | Job No.: <u>185702404</u> | Page 1 of 1 |
| Subcontractor and Equipment: <u>ECA Direct Push</u> | Logged by: <u>K Chapp</u> | |
| Sampling Method: <u>Direct Push Ag</u> | Monitoring Device: <u>PID</u> | Comments: |
| Start Date/Time: <u>5/26/11</u> | Finish Date/Time: <u>5/26/11</u> | |
| First Water (bgs): <u>---</u> | Stabilized Water (bgs): <u>---</u> | |
| Surface Elevation: <u>---</u> | Casing Top Elevation: <u>---</u> | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents): | Boring Abandonment or Well Construction Details |
|-------------|-----------|-------------------|------------------|-----------|--|---|
| | | | 1 | | | |
| SB-1s | | | 2 | | Fine sand, SP, loose, dry. | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | ML Silty, 10YR 3/3 dark brown, med soft. | |
| SB-1, | | | 6 | | SP wet, poorly-graded sand, wet 10YR 4/3 brown, wet. | |
| 6' | | | 7 | | CL Clay, med to hard plastic, moist, 10YR 2/2 very dark brown. | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |

Stantec Consulting Corporation

Reviewed by: _____ Date: _____
 Revised by: _____ Date: _____

| | | |
|--|----------------------------------|---------------------------|
| Project: <u>PGE San Lorenzo Phase II</u> | | Boring/Well Name: |
| Boring Location: <u>Former Waste Oil UST</u> | Job No.: <u>185702409</u> | SB-2 |
| Subcontractor and Equipment: <u>ECA, Direct Push</u> | Logged by: <u>K Chuop</u> | |
| Sampling Method: <u>Direct Push</u> | Monitoring Device: <u>PID</u> | Page <u>1</u> of <u>1</u> |
| Start Date/Time: <u>5/26/11</u> | Finish Date/Time: <u>5/26/11</u> | Comments: |
| First Water (bgs): <u>—</u> | Stabilized Water (bgs): <u>—</u> | |
| Surface Elevation: <u>—</u> | Casing Top Elevation: <u>—</u> | |

| Sample I.D. | PID (ppm) | Recovery (%) | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Details |
|-------------|-----------|--------------|------------------|-----------|---|---|
| | | | 0 | | | |
| | | | 1 | | | |
| SB-2 | | X | 0.0 | | | |
| 2' | | | 3 | | | |
| | | | 4 | | | |
| | | | 0.5 | SP | poorly-graded fine sand, 10YR 4/3 brown, dry | |
| | | | 6 | | | |
| | | | 7 | ML | Silt, 10YR 3/3 dark brown | |
| | | | 8 | | | |
| | | | 9 | ML | clay, 10YR 4/3 very dark brown | |
| SB-2 | | X | 0.0 | | | |
| 16' | | | 10 | | | |

Stantec Consulting Corporation

Reviewed by: _____ Date: _____
 Revised by: _____ Date: _____

| | | | |
|---|--|------------------------------------|-------------|
| Project: PG&E San Lorenzo Phase 2 | | Boring/Well Name: SB-3 | |
| Boring Location: NE corner of site | | Job No.: 195702404 | Page 1 of 1 |
| Subcontractor and Equipment: ECA Direct Push | | Logged by: K Chuop | |
| Sampling Method: Direct Push Rig | | Monitoring Device: PID | Comments: |
| Start Date/Time: 5/26/11 | | Finish Date/Time: 5/26/11 | |
| First Water (bgs): --- | | Stabilized Water (bgs): --- | |
| Surface Elevation: --- | | Casing Top Elevation: --- | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Details |
|-----------------|-----------|-------------------|------------------|-----------|---|---|
| SB-3, 00 2' | 00 | X | 1 | ml | Silt, soft, med plastic layer 3/3 brown. | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| SB-3, 00 10' | 00 | X | 6 | | SB poorly-graded sand, loose, moist | |
| | | | 7 | | | |
| | | | 8 | ml | slightly more moist @ Silt, ml, soft, moist, med plastic | |
| | | | 9 | cl | clay cl, layer 4/3 very dark brown, moist | |
| | | | 10 | | | |

Stantec Consulting Corporation

Reviewed by: _____ Date: _____
 Revised by: _____ Date: _____

| | | |
|---|---------------------------|-------------------|
| Project: P6E San Lorenzo Phase II | | Boring/Well Name: |
| Boring Location: Former Pump Island | Job No.: 185702404 | SB-4 |
| Subcontractor and Equipment: ECA, Direct Push | Logged by: K. Chuop | |
| Sampling Method: Direct Push Rig | Monitoring Device: PID | Page 1 of 1 |
| Start Date/Time: 5/26/11 | Finish Date/Time: 5/26/11 | Comments: |
| First Water (bgs): | Stabilized Water (bgs): | |
| Surface Elevation: | Casing Top Elevation: | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents): | Boring Abandonment or Well Construction Details |
|-------------|-----------|-------------------|------------------|-----------|--|---|
| | | | 1 | | | |
| SB-4, 2' | 0.0 | X | 2 | | Sp Poorly graded sand, f-grained sand, loose | |
| | | | 3 | | | |
| | | | 4 | | | |
| | 0.1 | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | Sp Poorly graded f to med. sand, wet, 10% clay, dark brown | |
| | | | 8 | | Clay, 10% 2/12 very dark brown, moist, med to hard plasticity | |
| SB-4, 0.5' | | X | 9 | | | |
| 10' | | | 10 | | | |

Stantec Consulting Corporation

Reviewed by: _____ Date: _____
 Revised by: _____ Date: _____

| | | |
|--|------------------------------------|-------------------------------|
| Project: <u>PGE San Lorenzo Phase II</u> | | Boring/Well Name: <u>SB-5</u> |
| Boring Location: <u>Former Pump Island</u> | Job No.: <u>185702404</u> | Page <u>1</u> of <u>1</u> |
| Subcontractor and Equipment: <u>ECA, Direct Push</u> | Logged by: <u>K Chuap</u> | |
| Sampling Method: <u>Direct Push Rig</u> | Monitoring Device: <u>PID</u> | Comments: |
| Start Date/Time: <u>5/26/11</u> | Finish Date/Time: <u>5/26/11</u> | |
| First Water (bgs): <u>---</u> | Stabilized Water (bgs): <u>---</u> | |
| Surface Elevation: <u>---</u> | Casing Top Elevation: <u>---</u> | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Detail |
|-------------|-----------|-------------------|------------------|-----------|---|--|
| | | | 1 | | S6 silt w/ gravel. gravel up to 1" in diameter. dry, 104% 413 brown | |
| SB-5 2' | 0.2 | | 2 | | | |
| | | | 3 | | EL clay w/ sand, little gravel up to 1" in diameter. dry, looks like fill material | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| SB-5 10' | 0.5 | | 10 | | | |

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| Project: <u>PGE San Lorenzo Phase II</u> | | Boring/Well Name: <u>SB-6</u> |
| Boring Location: <u>Former UST</u> | Job No.: <u>185702404</u> | Page <u> </u> of <u> </u> |
| Subcontractor and Equipment: <u>E</u> | Logged by: <u>K Chudop</u> | |
| Sampling Method: <u>Direct Push</u> | Monitoring Device: <u>PID</u> | Comments: |
| Start Date/Time: <u>5/26/11</u> | Finish Date/Time: <u>5/26/11</u> | |
| First Water (bgs): <u> </u> | Stabilized Water (bgs): <u> </u> | |
| Surface Elevation: <u> </u> | Casing Top Elevation: <u> </u> | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents): | Boring Abandonment or Well Construction Details |
|--------------|-----------|-------------------|------------------|-----------|---|---|
| SB-6 5.3' | | X | 1 | | CS Sandy clay, med plastic, moist 10yR 4/3 dark brown | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | ml. Silt w/ fine gravel, 10yR 3/3 dark brown, med plastic, stiff. | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | 2" silt layer, moist, no gravel | |
| SB-6 8.5' | | X | 9 | | Sand, wet 10yR 3/3 dark brown, cl. clay, med to hard plastic, 10yR 2/2 very dark brown strong smell | |
| SB-6 10' | | X | 10 | | | |

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|--|-------------------------------------|---------------------------------|
| Project: <u>PGE San Lorenzo Phase II</u> | | Boring/Well Name: <u>SB-7</u> |
| Boring Location: <u>SW of Site</u> | Job No.: <u>185702404</u> | Page <u> </u> of <u> </u> |
| Subcontractor and Equipment: <u>ECA Direct</u> | Logged by: <u>K Chung</u> | |
| Sampling Method: <u>Direct Push Push</u> | Monitoring Device: <u>PID</u> | Comments: |
| Start Date/Time: <u>5/24/11</u> | Finish Date/Time: <u>5/26/11</u> | |
| First Water (bgs): <u> </u> | Stabilized Water (bgs): <u> </u> | |
| Surface Elevation: <u> </u> | Casing Top Elevation: <u> </u> | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Details |
|-------------|-----------|-------------------|------------------|-----------|---|---|
| SB-7, 2' | X | 0.0 | 1 | mc | Silt, 10YR 4/3 dark brown, moist, med plastic | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| SB-7, 10' | X | 0.0 | 6 | mc | Silt, 10YR 2/2 color change to very dark brown | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |

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|---|---------------------------------------|---------------------------|
| Project: <u>PGE San Lorenzo</u> | | Boring/Well Name: |
| Boring Location: <u>Former Island Pump</u> | Job No.: <u>185702404</u> | <u>SB 8</u> |
| Subcontractor and Equipment: <u>EPA Direct Push</u> | Logged by: <u>K Chuop</u> | |
| Sampling Method: <u>Direct Push</u> | Monitoring Device: <u>PID</u> | Page <u>1</u> of <u>1</u> |
| Start Date/Time: <u>5/26/11</u> | Finish Date/Time: <u>5/26/11</u> | Comments: |
| First Water (bgs): <u> </u> | Stabilized Water (bgs): <u> </u> | |
| Surface Elevation: <u> </u> | Casing Top Elevation: <u> </u> | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Details |
|------------------|------------|-------------------|------------------|-----------|---|---|
| | | | 1 | | asphalt | |
| <u>SB-8-2.8</u> | <u>0.0</u> | <u>2.8</u> | 2 | | <u>CL</u> Lean clay, <u>10/4R 3/3</u> dark brown, moist, med to hard plastic | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| <u>SB-8-6.5'</u> | <u>0.0</u> | <u>6.5'</u> | 6 | | | |
| | | | 7 | <u>SP</u> | <u>Sand, poorly-graded, wet, fine to med. grad.</u> <u>10/4R 4/3</u> brown | |
| | | | 8 | <u>CL</u> | <u>clay, 10/4R 2/2</u> very dark brown, med plasticity, | |
| | | | 9 | <u>SP</u> | <u>Poorly-graded sand, wet, fine to med grad.</u> <u>10/4R 2/2</u> very dark brown | |
| | | | 10 | | | |

Project: PGE San Lorenzo Phase I
 Boring Location: E side of site Job No.: 185702404 Boring/Well Name: SB-9
 Subcontractor and Equipment: ECA, Direct Push Logged by: K Chuop Page of
 Sampling Method: Direct Push Monitoring Device: PID
 Start Date/Time: 5/26/11 Finish Date/Time: 5/26/11 Comments:
 First Water (bgs): Stabilized Water (bgs):
 Surface Elevation: Casing Top Elevation:

| Sample I.D. | PTD (ft) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Details |
|-------------|----------|-------------------|------------------|-----------|---|---|
| SB-9 2' | X | | 1 | | | |
| | | | 2 | | | |
| SB-9 10' | X | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | ML | ML, silt, moist, w/ fine-grained sand, 10YR 3/3 brown. | |
| | | | 6 | | | |
| | | | 7 | ML | ML silt, moist, low plastic, 10YR 3/3 brown. | |
| | | | 8 | CL | Clay, moist, med to high plastic, 10YR 2/2 very dark brown. | |
| | | | 9 | | | |
| | | | 10 | | | |

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|--|----------------------------------|--------------------------------|
| Project: <u>PGE San Lorenzo Phase II</u> | | Boring/Well Name: <u>SB-10</u> |
| Boring Location: <u>SW corner of site</u> | Job No.: <u>185702404</u> | Page <u>1</u> of <u>1</u> |
| Subcontractor and Equipment: <u>ECA, Direct Push</u> | Logged by: <u>K Chuop</u> | |
| Sampling Method: <u>Direct Push</u> | Monitoring Device: <u>PID</u> | Comments: |
| Start Date/Time: <u>5/26/11</u> | Finish Date/Time: <u>5/26/11</u> | |
| First Water (bgs): <u>-</u> | Stabilized Water (bgs): <u>-</u> | |
| Surface Elevation: <u>-</u> | Casing Top Elevation: <u>-</u> | |

| Sample I.D. | PID (ppm) | Interval/Recovery | Depth (feet bgs) | USCS Code | Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents) | Boring Abandonment or Well Construction Details |
|-------------|-----------|-------------------|------------------|-----------|---|---|
| | | | 1 | | all silt, moist st 10yr 4B dark brown, soft | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | little gravel, color change, 10yr 3B brown |
| | | | 10 | | | |

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Project: **PGE San Lorenzo Phase II**

Boring Location: **Former Island Pump**

Log of Boring:

Page 1 of 1

Subcontractor and Equipment: **ECA, Direct Push Rig**

Project No.: **185702404**

SB-11

Sampling Method: **Direct Push**

Logged By: **K. Chup**

Start Date/Time: **5/26/11**

Monitoring Device: **PID**

Comments:

First Water (BGS):

Finish Date/Time: **5/26/11**

Stabilized Water Level (BGS):

| Sample Interval Recovery, inches | Blows/foot | PID (ppm) | Depth (feet) | USCS Symbol | Surface Elevation: | Casing Top Elevation: | Boring Abandonment/Well Construction Details |
|----------------------------------|------------|-----------|--------------|-------------|---|-----------------------|--|
| | | | | | LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other) | | |
| | | | 1 | | | | |
| | | | 2 | | | | |
| | | | 3 | | | | |
| | | | 4 | ML | ML silt, little clay, 10% silt dark brown, moist, firm, little sand. | | |
| | | | 5 | | | | |
| | | | 6 | | | | |
| | | | 7 | | | | |
| | | | 8 | SP | Poorly graded sand, SP, moist wet, loose, 10% silt & 3% clay. | | |
| | | | 9 | CL | Silt, 10% silt dark brown, moist, soft lean clay, med to hard plasticity, firm. | | |
| | | | 10 | | | | |

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|--|--|--|--------------|----------------------------|
| Project: PGE San Lorenzo Phase II | | Log of Boring | | Page: 1 of 1 |
| Boring Location: SE Corner near Driveway | | Project No.: 19570240 | SB-12 | |
| Subcontractor and Equipment: ECA, Direct Push Rig | | Logged By: K Chump | | |
| Sampling Method: Direct Push | | Monitoring Device: PID | Comments: | |
| Start Date/ Time: 5/26/11 | | Finish Date/ Time: 5/26/11 | | |
| First Water (BGS): - | | Stabilized Water Level (BGS): - | | |

| Sample Interval/ Recovery, Inches | Blows/foot | PID (ppm) | Depth (feet) | USCS Symbol | Surface Elevation: | Casing Top Elevation: | Boring Abandonment/ Well Construction Details |
|---|------------|-----------|--------------|-------------|--|-----------------------|--|
| | | | | | LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other) | | |
| | | | 1 | ML | 10' concrete layer | | |
| | | | 2 | ML | Silt, moist 10/2-3/3 dark brown, moist, little clay, med plastic, soft | | |
| | | | 3 | | | | |
| | | | 4 | | | | |
| | | 0.0 | 5 | | | | |
| | | | 6 | | | | |
| | | | 7 | SM | Silty sand, fine sand, 10/2-3/3 dark brown, moist, clay, 10/2-3/3, dark brown, med-hard plastic, very firm | | |
| | | | 8 | CL | | | |
| | | | 9 | | | | |
| | | | 10 | | | | |

SB-12

SB-12
10'

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