Pacific Gas and Electric Company®

Anne P. Conner
Remediation Project Manager
Environmental Remediation

3401 Crow Canyon Rd.
San Ramon, CA 94583

(925) 415-6381
(925) 415-6852
apb1@pge.com

December 21, 2011

Mr. Jerry Wickham
Alameda County Environmental Health Department
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: ***Additional Soil Investigation Report***

Dear Mr. Wickham

Please find enclosed the Additional Soil Investigation Report, dated December 21, 2011, for the Pacific Gas and Electric (PG&E) Oakland General Construction Yard at 4930 Coliseum Way, Oakland, California. This Investigation Report was prepared by AMEC Geomatrix, Inc. on behalf of PG&E.

Please contact me at (925) 415-6381 if you have any questions about this Investigation Report.

Sincerely,

Anne Conner

Anne Conner
Sr. Remediation Project Manager
Pacific Gas and Electric Company

Enclosure: Additional Soil Investigation Report

DECLARATION:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached Additional Soil Investigation Report are true and correct to the best of my knowledge.

Anne Conner
Pacific Gas and Electric Company

Additional Soil Investigation Report

Pacific Gas and Electric Company Oakland Construction Yard
4930 Coliseum Way
Oakland, California

Prepared for:
Pacific Gas and Electric Company
San Ramon, California

Prepared by:
AMEC, Oakland, California

December 21, 2011

Project 0130450007.0000F

December 21, 2011

Project 13045.007F

Anne Conner
Senior Remediation Project Manager
Pacific Gas and Electric Company
3401 Crow Canyon Road
San Ramon, CA 94583

Subject: **Additional Soil Investigation Report**
Pacific Gas and Electric Company, Oakland Construction Yard
4930 Coliseum Way, Oakland, California

Dear Ms. Conner:

AMEC Geomatrix, Inc. (AMEC) is pleased to provide the enclosed Additional Soil Investigation Report for PG&E's Oakland Construction Yard.

Please contact either of the undersigned at (510) 663-4100 with any questions.

Sincerely yours,
AMEC Geomatrix, Inc.

Yemia Hashimoto, CHG #782
Senior Hydrogeologist

Susan Gallardo, PE #C38154
Principal Engineer

YH/SG/jh
\\oad-fs1\deptdata\project\13000\13045.007.f\4000\add'l soil sampling report\text\amec cover ltr.docx

Enclosure: Additional Soil Investigation Report

AMEC Environment & Infrastructure
2101 Webster Street, 12th Floor
Oakland, California 94612-3066
USA
Tel: (510) 663-4100
Fax: (510) 663-4141
amec.com

TABLE OF CONTENTS

TABLES

FIGURES

TABLE OF CONTENTS
(Continued)

APPENDICES

ADDITIONAL SOIL INVESTIGATION REPORT
Pacific Gas and Electric Company Oakland Construction Yard
4930 Coliseum Way
Oakland, California

1.0 INTRODUCTION

On behalf of Pacific Gas and Electric (PG&E), AMEC Geomatrix, Inc. (AMEC), has prepared this Additional Soil Investigation Report ("report") for the PG&E Oakland Construction Yard site located at 4930 Coliseum Way in Oakland, California ("site"; see Figures 1 and 2). Lead is present in site soils as a result of sandblasting paint from a former aboveground low-pressure natural-gas holder tank ("former GHT"; Figure 2), and later dismantling and removing the tank in May 1990. The area was covered with an asphalt cap in 1993 after sample analysis indicated lead in soil at concentrations greater than 250 milligrams per kilogram (mg/kg).

This report presents the investigation rationale and methods used to further define the lateral and vertical extent of lead in soil in the vicinity of the former GHT. The report presents the results of an investigation conducted in November 2011 to address data gaps identified in the March 2011 *Soil Investigation Report*, which reported the results of a soil investigation conducted in October 2010 (AMEC, 2011a). The data from both reports will be used to determine a final remedy to address lead-impacted soil at the site. The scope of this investigation was described in the July 5, 2011, work plan submitted to the Alameda County Environmental Health Services Agency (ACEHS; AMEC, 2011b); the agency approved the work plan in a letter dated August 4, 2011.

Site conditions presented in this report are specifically related to potential chemical impacts in soil in the area of the former GHT. Previous investigations and remediation activities related to former underground storage tanks (USTs) and impacts attributed to off-site sources are contained in a number of reports for the site; these activities are summarized in the February 5, 2010, letter from PG&E and AMEC to ACEHS titled *Request to Discontinue Groundwater Monitoring* (AMEC, 2010a).

The following sections of the report present background information related to the site, a summary of previous sampling and remediation activities, the objectives of the investigation, the sampling methodology, and a summary of the investigation results and conclusions. The data collected from this investigation are intended to supplement the data presented in the *Soil Investigation Report*. Together, the data presented in this report and the *Soil Investigation Report* will supersede, as appropriate, data collected from previous investigations.

2.0 BACKGROUND

This section provides a brief description of the site and setting, site lithology and hydrogeology, and investigation and remedial activities conducted at the site to date.

2.1 SITE DESCRIPTION AND SETTING

The approximately 5-acre site is bounded by Coliseum Way to the south, 50th Avenue to the southeast, and industrial properties to the north (Figures 1 and 2). The surrounding area is composed primarily of commercial and light industrial businesses. The site has been operated by PG&E as a natural-gas distribution center and equipment storage facility from at least the late 1930s until 1990, when the former GHT was removed. Since 1990, the site has been used as an equipment and vehicle storage facility. Full-time PG&E personnel occupy a small office on site. The office facilities are connected to the municipal water supply.

2.2 SITE LITHOLOGY AND HYDROGEOLOGY

The site is located approximately ¼ mile east of the margin of San Leandro Bay on a plain gently sloping toward San Francisco Bay. According to lithologic logs developed by others from investigations at the site, the uppermost portion of the site subsurface is underlain by interbedded deposits of clays, sands, and gravels to approximately 19 feet below ground surface (ft bgs), the maximum depth drilled. Based on depth-to-groundwater measurements collected from three monitoring wells during the most recent groundwater monitoring event (January 2011), groundwater depth ranged from approximately 2 to 3 ft bgs at the site. These depths to groundwater are consistent with previous depth-to-groundwater measurements, which have been documented as between 3.5 and 8 ft bgs. Groundwater-level measurements collected during the January 2011 monitoring event also indicated groundwater flow direction was toward the south-southwest, with a hydraulic gradient of approximately 0.003 foot per foot; this flow direction and gradient is consistent with that previously documented.

2.3 PREVIOUS INVESTIGATION AND REMEDIATION ACTIVITIES

This section describes the results of historical (pre-2011) site investigation activities related specifically to lead in soil. A more comprehensive discussion of these and other site investigation activities is presented in previously submitted documents by AMEC (2010a, 2010b, and 2011a) and Aqua Resources, Inc. (ARI; 1992).

2.3.1 Historical Investigation and Remediation Activities

ARI conducted investigations at the site in 1990 and 1991 to delineate the lateral and vertical extent of lead in soil. ARI noted that 72 cubic yards of soil was excavated and stockpiled during the removal of the former GHT in 1990 and this soil was sampled by ARI in 1991 for off-

site disposal. However, as stated in the ARI report, two excavated areas of the site[1] may have been backfilled with on-site material affected by lead (ARI, 1992). PG&E conducted additional sampling and analysis for lead in 1992. These investigations provided a basis for the investigation conducted by AMEC in October 2010. The data collected during the 2010 soil investigation conducted by AMEC supersede those data provided from investigations completed by ARI and PG&E in 1990 through 1992. Analytical results from the AMEC 2010 investigation were reported to ACEHS in May 2011, and the results for lead are presented in Table 1. Figure 3 shows soil sampling locations for depth intervals between 0 and 8 ft bgs. The highest concentrations of lead in soil are detected in the surface samples collected from 0 to 0.5 ft bgs. Soil samples collected at depths below 4.5 ft bgs did not exceed the California Human Health Screening Level (CHHSL) for lead in soil for commercial/industrial land-use scenarios. At those locations where vertical sampling was conducted, lead concentrations in soil samples typically decrease with sample depth (see Figures 4 through 6).

Whereas the vertical distribution of lead appears to be defined in the vicinity of the former GHT (no concentrations of lead above industrial CHHSLs were detected in samples collected at 4.5 ft bgs), the lateral distribution of lead in shallow soil was not fully defined. Within the area of the 2010 investigation, the distribution of lead is not continuous, suggesting that mechanisms in addition to sandblasting, such as reworking of soil and laydown of the former GHT components during dismantling, may have contributed to a larger distribution of lead at the site beyond the immediate perimeter (within 30 feet) of the former GHT. The lateral extent of lead in soil in the near surface (0 to 0.5 ft bgs) and depth interval of 1 to 4.5 ft bgs was not defined o the southwest and northwest of the former GHT.

2.3.2 Investigation Objectives

The specific sampling objectives of the November 2011 soil investigation to address the data gaps identified in the work plan were as follows:

- Define the lateral extent of lead in soil in the near surface (0 to 0.5 ft bgs) to the south and north of the former GHT.
- Define the vertical extent of lead in soil within the depth interval of 1 to 5 ft bgs in areas south and north of the former GHT.

2.3.3 Modification to the Work Plan

The sampling approach provided in the work plan included extending the former grid of the area used in the 2010 soil investigation beyond the asphalt cap; specifically, an area of 10,800 square feet to the southwest and an area of 3,600 square feet to the northwest of the former GHT (AMEC, 2011b) were targeted for additional sampling. Samples were to be

[1] In addition to these 72 cubic yards, 2,000 cubic yards of soil containing petroleum hydrocarbons was excavated and off-hauled in November and December 1991. This soil was present in a former UST area, unrelated to the former GHT.

collected in 30-by-30-foot nodes, or approximately 16 sampling locations outside the former GHT cap footprint. Samples from nodes adjacent to the 2010 sample grid (J0, K0, BB9, C10, D11, E11, F11, F12, and G12) were to be analyzed, and samples collected from nodes beyond those (J00, K00, BB10, C11, D12, and E12) were to be placed on hold pending the results from the first sample set. Soil samples were to be collected from depths of 0.5, 2, and 5 feet. The samples collected from the first two depths were to be analyzed for lead. The samples collected at 5 feet were put on hold pending the results from the shallower depths.

The following items are variations from the work plan:

- Baker tanks for PG&E's hydrostatic testing program are currently staged over proposed locations C10, C11, D11, E11, and F11; soil samples were not collected at these five locations.
- The 5-foot-depth soil sample at location G13 was not collected because the sampling equipment could not retain the saturated soil.
- Additional soil borings were advanced at three locations (D14, E14, and G14).

3.0 SITE INVESTIGATION ACTIVITIES

AMEC retained ETIC Engineering of Pleasant Hill, California, to assist with the soil investigation. From November 1 through November 3, 2011, 17 soil borings were advanced at the site (Figure 3) by PeneCore Drilling of Woodland, California, using an air knife and hand augers.

3.1 PRE-FIELD ACTIVITIES

Before beginning field activities, AMEC and ETIC completed the following:

- Procured a drilling permit from Alameda County Public Works Agency, Water Resources (provided in Appendix A).
- Coordinated work with local PG&E personnel and subcontractors.
- Marked the proposed drilling locations.
- Contacted Underground Service Alert (USA), a private utility locator, and PG&E to identify whether subsurface utilities exist in the vicinity of the planned boring locations.

3.2 SOIL SAMPLING METHODOLOGY

PeneCore advanced 17 soil borings to define the lateral extent of lead in the near surface (0 to 0.5 ft bgs) and at a depth interval of 1 to 5 ft bgs to the southwest and northwest of the former GHT. Boring locations are shown on Figure 3.

A continuous core and a lithologic log were prepared for each boring by an ETIC field geologist under the supervision of a California Professional Geologist using visual-manual procedures of the American Society for Testing and Materials (ASTM) Standard D2488-00 for

guidance, which is based on the Unified Soil Classification System. Select soil sample intervals were screened for volatile organic vapors with a photoionization detector (PID) fitted with a 10.6-electron-volt lamp. The PID was calibrated daily using a 100 parts-per-million-volume (ppmv) isobutylene standard. The PID was used to measure headspace concentrations of volatile organic compounds in plastic resealable bags containing aliquots of soil from the target lithologic unit. Lithologic logs, which include PID readings, are provided in Appendix B.

Soil borings were advanced with a hand auger. Soil samples were collected by advancing the hand auger to the desired sampling depth, and a slide-hammer fitted with stainless steel sleeves was used to collect the sample. Soil samples were sealed with Teflon sheets and plastic end caps.

All soil samples were labeled with unique sample identifiers designating the locations and depths; for example, E12-2.0+22 designates the sample collected from boring location E12 at a depth interval of 1.5 to 2.0 feet below 22 inches of asphalt surface and underlying subgrade materials. Samples were packed in resealable plastic bags, placed in ice-cooled chests, and shipped via courier under AMEC chain-of-custody procedures to TestAmerica Laboratories in San Francisco, a California-certified environmental laboratory.

Prior to and between coring and sampling at each borehole, nondedicated downhole equipment was decontaminated by PeneCore using a three-stage rinse with Alconox soap and potable water. After samples were collected, the boreholes were destroyed with Portland Type I-II neat cement grout placed from total depth to ground surface.

3.3 LABORATORY ANALYSES

Soil samples were analyzed for lead by TestAmerica using U.S. Environmental Protection Agency (U.S. EPA) Method 6010B.

3.4 QUALITY ASSURANCE AND QUALITY CONTROL

Quality assurance and quality control (QA/QC) procedures during the investigation included adhering to protocols for field sampling and decontamination procedures.

The laboratory data generated during this investigation were subjected to a data completeness check of each data package and a review of all laboratory reporting forms. QA/QC samples included laboratory method blanks, laboratory control sample/laboratory control sample duplicate (LCS/LCSD) samples; and matrix spike/matrix spike duplicate (MS/MSD) samples. The data review (completeness, precision check, hold time, and analysis of blank results) was conducted in accordance with the *U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (U.S. EPA, 2010).

Based on the QA/QC review, the data are complete and usable. A discussion of the data QA/QC review is included in Appendix C.

3.5 INVESTIGATION-DERIVED WASTE MANAGEMENT

Soil and decontamination water generated during the investigation were temporarily stored on site pending profiling, transportation, and off-site disposal or recycling at an appropriate facility. The soil cuttings and purge water were stored in separate Department of Transportation–approved 55-gallon drums. The drums were clearly labeled with generator contact and phone number, drilling location(s), and date of generation and then placed in the PG&E-designated area pending disposal.

4.0 RESULTS AND DISCUSSION

The results for the soil investigation are summarized and discussed by depth in the following sections. Soil analytical results for lead are summarized in Table 1 and shown on Figures 4 through 6. In the table and on the figures, the analytical results are compared to health-based risk screening criteria. Specifically, concentrations of lead in soil were compared its CHHSL assuming a commercial/industrial site use of 320 mg/kg (Cal/EPA, 2005). CHHSLs are conservative screening levels that correspond to an acceptable risk level and reflect varying combinations of site characteristics, including both residential and industrial land use. Concentrations of chemicals detected below corresponding screening levels can be assumed to not pose a significant threat to human health relative to the associated land use. Conversely, an exceedance of the corresponding screening level does not necessarily indicate that adverse health effects will occur.

4.1 SOIL SAMPLING OBSERVATIONS

The soil boring logs provided in Appendix B document the subsurface observations. Section 3.2 above describes the PID measurement technique and the standard by which soil properties were described. PID readings for each boring log are presented in Appendix B. A hydrocarbon odor was reported in soil borings BB9, BB10, E12, E13, and J0 at varying depths. Staining was not observed in any of the borings. In one isolated soil boring, K00, a tar-like material with a hydrocarbon odor was observed in soil from approximately 2.0 to 2.5 feet below aggregate base. These differentiations are not considered significant to the investigation.

4.2 LEAD SOIL SAMPLE RESULTS

Soil samples were collected for the analysis of lead at 17 boring locations to the north and south of the former GHT to address data gaps remaining after the 2010 investigation.

4.2.1 0- to 0.5-Foot Depth Interval

Soil samples were collected and analyzed from the 0- to 0.5-foot depth interval at 13 borings (Figure 4). Of these 13 shallow soil samples, 3 samples collected south of the former GHT (sample locations C12, E12, and G13) contained lead at concentrations above the commercial/industrial CHHSL of 320 mg/kg; however, these exceedances are delineated laterally. The lateral extent of lead in soil in the 0 to 0.5 ft bgs depth is defined at the site to the north and southwest of the former GHT for commercial/industrial land-use scenarios as follows:

- Soil samples collected 30 feet beyond the former GHT perimeter in areas to the north (sample locations J0 and K0) did not contain lead at concentrations greater than the commercial/industrial CHHSL. These results bound elevated concentrations of lead in shallow soil that were detected during the October 2010 investigation (sample locations J1, K1, M2, and M3).
- Soil samples collected 120 feet beyond the former GHT perimeter in areas to the southwest (sample locations BB9 and BB10) did not contain lead concentrations exceeding commercial/industrial CHHSLs. Lead is present in soil samples collected north of these sample locations.

4.2.2 1.5- to 2.0-Foot Depth Interval

Soil samples were collected and analyzed from the 1.5- to 2.0-foot depth interval from 12 borings (Figure 5). Of these 12 shallow soil samples, 4 samples collected south of the former GHT (sample locations D12, F12, G12, and G13) contained lead at concentrations above the commercial/industrial CHHSL. The lateral distribution of lead in soil to the south of the former GHT is defined by sample locations D13 and G14. The lateral extent of lead in soil in the 1.5 to 2.0 ft bgs depth is defined at the site to the north and south of the former GHT for commercial/industrial land-use scenarios, as follows:

- Lead is not detected at concentrations exceeding the commercial/industrial CHHSL in soil samples collected from 1.5 to 2 ft bgs north of the former GHT.
- Soil samples collected 120 feet beyond the former GHT perimeter in areas to the southwest (sample locations BB9 and BB10), south (sample locations C12, D13 and E12), and southeast (G14) did not contain lead concentrations exceeding commercial/industrial CHHSLs.

4.2.3 4.5- to 5.0-Foot Depth Interval

Soil samples collected from sample locations south of the former GHT (D12, F12, and G12) were analyzed from the 4.5- to 5.0-foot depth interval to delineate the vertical extent of lead impacts from the former GHT (Figure 6). All the sample results are below the commercial/industrial CHHSL.

5.0 CONCLUSIONS

The lateral and vertical distributions of lead are defined relative to its industrial CHHSL, except at shallow location C12. The elevated detections of lead in shallow soil are bounded by other soil sample results, except to the west of sample location C12. West of this location is the street, which is paved; as noted in the work plan (AMEC, 2011b), the paved surface would have prevented the aerial deposition of lead west of C12. As such, the presence of lead at concentrations greater than the commercial/industrial CHHSL is considered defined to the edge of the unpaved surface.

The purpose of this additional soil investigation was to further define the lateral and vertical extent of lead in soil outside the asphalt cap boundary of the former GHT in order to evaluate a final remedy to address lead-impacted soil at the site. Based on the analytical results reported herein, the investigation purpose is achieved. Immediately around the former GHT and most of the facility is covered with asphalt. The existing asphalt cap serves as the interim remedy for much of the site; the asphalt cap was installed specifically to limit contact with lead in soil, and it has been intact, inspected, and repaired for nearly two decades. Potential final remedial alternatives will be evaluated and may include the measure currently in place (asphalt cap). Remedial alternatives will consider the data generated during this investigation, future use of the site, and relative risk.

6.0 REFERENCES

AMEC Geomatrix (AMEC), 2010a, Request to Discontinue Groundwater Monitoring, PG&E Oakland Construction Yard, 4950 Coliseum Way, Oakland, California, February 5.

AMEC, 2010b, Soil Investigation Work Plan, PG&E Oakland Construction Yard, 4950 Coliseum Way, Oakland, California, September 16.

AMEC, 2011a, Soil Investigation Report, PG&E Oakland Construction Yard, 4950 Coliseum Way, Oakland, California, March 17.

AMEC, 2011b, Additional Soil Investigation Work Plan, PG&E Oakland Construction Yard, 4950 Coliseum Way, Oakland, California, July 5.

Aqua Resources, Inc. (ARI), 1992, Preliminary Site Assessment and Work Plan for Additional Investigation, PG&E, ENCON-GAS Transmission and Distribution Construction Yard, Former GHT Area, 4930 Coliseum Way, Oakland, California, March 6.

California Environmental Protection Agency (Cal/EPA), 2005, California Human Health Screening Levels for Soil and Comparison to Other Potential Environmental Concerns: Table 1 in Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties guidance document, January.

Office of Environmental Health Hazard Assessment (OEHHA), 2010, Soil-Screening Numbers—Updated Table, http://www.oehha.ca.gov/risk/chhsltable.html, September 23.

U.S. EPA, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review: USEPA-540-R-10-011, January.

TABLE

TABLE 1

ANALYTICAL RESULTS OF LEAD IN SOIL [1]
PG&E Oakland—General Construction Yard
Oakland, California

All concentrations reported in units of milligrams per kilogram

Sample Location	Sample Depth (ft bas)	Sample ID	Sample Date [2]	Lead
BB9	0.5	BB9-0.5+13	11/2/2011	6.8 J [3]
	2.0	BB9-2.0+13	11/2/2011	27 J
BB10	0.5	BB10-0.5+16	11/2/2011	30 J
	2.0	BB10-0.5+16	11/2/2011	45 J
C2	0.5	C2-0.5+13	10/25/2010	14 J+[4]
	2.0	C2-2.0+13	10/25/2010	40 J+
C4	0.5	C-4-0.5+15	10/25/2010	240
	2.0	C-4-2.0+15	10/25/2010	35 J+
C6	0.5	C6-0.5+18	10/26/2010	310
	2.0	C6-2.0+18	10/26/2010	18 J+
C8	0.5	C8-0.5+24	10/26/2010	180
	2.0	C8-2.0+24	10/26/2010	14 J+
C7	0.5	C-7-0.5+24	10/26/2010	36 J+
	2.0	C-7-2.0+24	10/26/2010	34 J+
C9	0.5	C-9-0.5+23	10/26/2010	**340** [5]
	2.0	C-9-2.0+23	10/26/2010	11 J+
C12	0.5	C12-0.5+21	11/2/2011	**1800 J**
	2.0	C12-2.0+21	11/2/2011	42 J
D2	0.5	D-2-0.5+10	10/25/2010	9.7 J+
	2.0	D-2-2.0+10	10/25/2010	220
	5.0	D-2-5.0+10	10/25/2010	6.0 J+
D3	0.5	D-3-0.5+10	10/25/2010	70 J+
	2.0	D-3-2.0+10	10/25/2010	18 J+
D4	0.5	D4-0.5+13	10/25/2010	290
	2.0	D4-2.0+13	10/25/2010	26 J+
D5	0.5	D5-0.5+12	10/25/2010	**330**
D5R	0.5	D5R-0.5+13	10/25/2010	**2400**
	2.0	D5R-2.0+13	10/25/2010	57 J+
D6	0.5	D6-0.5+18	10/25/2010	**320**
	2.0	D6-2.0+18	10/25/2010	14 J+
D7	0.5	D-7-0.5+28	10/26/2010	110
	2.0	D-7-2.0+28	10/26/2010	9.6 J+
D8	0.5	D-8-0.5+20	10/26/2010	150
	2.0	D-8-2.0+20	10/26/2010	16 J+
D9	0.5	D9-0.5+18	10/26/2010	24 J+
	2.0	D9-2.0+18	10/26/2010	25 J+
D10	0.5	D10-0.5+24	10/26/2010	**620**
	2.0	D10-2.0+24	10/26/2010	210
	5.0	D10-5.0+24	10/26/2010	5.0 J+

TABLE 1

ANALYTICAL RESULTS OF LEAD IN SOIL [1]
PG&E Oakland—General Construction Yard
Oakland, California

All concentrations reported in units of milligrams per kilogram

Sample Location	Sample Depth (ft bas)	Sample ID	Sample Date [2]	Lead
D12	0.5	D12-0.5+21	11/2/2011	32 J
	2.0	D12-2.0+21	11/2/2011	**360 J**
	5.0	D12-5.0+21	11/2/2011	5.3
D13	0.5	D13-0.5+21	11/3/2011	31 J
	2.0	D13-2.0+21	11/3/2011	61 J
E2	0.5	E2-0.5+10	10/25/2010	110
	2.0	E2-2.0+10	10/25/2010	41 J+
E3	0.5	E-3-0.5+12	10/25/2010	**1300**
	2.0	E-3-2.0+12	10/25/2010	120
	5.0	E-3-5.0+12	10/25/2010	3.8 J+
E4	0.5	E-4-0.5+10	10/25/2010	**1400**
	2.0	E-4-2.0+10	10/25/2010	14 J+
E5	0.5	E-5-0.5+15	10/25/2010	**8700**
	2.0	E-5-2.0+15	10/25/2010	**2200**
	5.0	E-5-5.0+15	10/25/2010	6.1 J+
E6	0.5	E6-0.5+24	10/26/2010	57 J+
	2.0	E6-2.0+24	10/26/2010	130
	5.0	E6-5.0+24	10/26/2010	4.6 J+
E7	0.5	E7-0.5+24	10/26/2010	36 J+
	2.0	E7-2.0+24	10/26/2010	140
	5.0	E7-5.0+24	10/26/2010	4.3 J+
E8	0.5	E8-0.5+24	10/26/2010	42 J+
	2.0	E8-2.0+24	10/26/2010	**420**
	5.0	E8-5.0+24	10/26/2010	6.8 J+
E9	0.5	E9-0.5+26	10/26/2010	50 J+
	2.0	E9-2.0+26	10/26/2010	53 J+
E10	0.5	E-10-0.5+24	10/26/2010	220
	2.0	E-10-2.0+24	10/26/2010	**460**
	5.0	E-10-5.0+24	10/26/2010	4.7 J+
E12	0.5	E12-0.5+22	11/2/2011	**2600 J**
	2.0	E12-2.0+22	11/2/2011	18 J
E13	0.5	E13-0.5+12	11/3/2011	25
F1	0.5	F1-0.5+11	10/25/2010	11 J+
	2.0	F1-2.0+11	10/25/2010	100
	5.0	F1-5.0+11	10/25/2010	8.8 J+
F2	0.5	F2-0.5+13	10/25/2010	150 [6]
	0.5	F2-0.5+13	10/25/2010	130
	2.0	F2-2.0+13	10/25/2010	55 [6]
	2.0	F2-2.0+13	10/25/2010	57 J+

TABLE 1

ANALYTICAL RESULTS OF LEAD IN SOIL [1]
PG&E Oakland—General Construction Yard
Oakland, California

All concentrations reported in units of milligrams per kilogram

Sample Location	Sample Depth (ft bas)	Sample ID	Sample Date [2]	Lead
F8	0.5	F-8-0.5+20	10/26/2010	**4400** [6]
	0.5	F-8-0.5+20	10/26/2010	**9800**
	2.0	F-8-2.0+20	10/26/2010	**730** [6]
	2.0	F-8-2.0+20	10/26/2010	200
	5.0	F-8-5.0+20	10/26/2010	4.8 J+
F9	0.5	F-9-0.5+24	10/26/2010	**540**
	2.0	F-9-2.0+24	10/26/2010	120
	5.0	F-9-5.0+24	10/26/2010	5.5 J+
F10	0.5	F10-0.5+18	10/26/2010	**4700**
	2.0	F10-2.0+18	10/26/2010	160
	5.0	F10-5.0+18	10/26/2010	6.8 J+
F12	0.5	F12-0.5+12	11/3/2011	170 J
	2.0	F12-2.0+12	11/3/2011	**530 J**
	5.0	F12-5.0+12	11/3/2011	17
G1	0.5	G1-0.5+10	10/25/2010	72 J+
	2.0	G1-2.0+10	10/25/2010	5.0 J+
G8	0.5	G8-0.5+24	10/27/2010	**2500**
	2.0	G8-2.0+24	10/27/2010	140
	5.0	G8-5.0+24	10/27/2010	7.6 J+
	6.0	G8-6.0+24	10/27/2010	6.7 J+
	8.0	G8-8.0+24	10/27/2010	11 J+
G9	0.5	G-9-0.5+22	10/27/2010	21 J+
	2.0	G-9-2.0+22	10/27/2010	170
	5.0	G-9-5.0+22	10/27/2010	5.3 J+
G10	0.5	G-10-0.5+24	10/27/2010	230
	2.0	G-10-2.0+24	10/27/2010	16 J+
G11	0.5	G-11-0.5+20	10/27/2010	**500**
	2.0	G-11-2.0+20	10/27/2010	6.2 J+
G12	0.5	G12-0.5+16	11/2/2011	190 J
	2.0	G12-2.0+16	11/2/2011	**680 J**
	5.0	G12-5.0+16	11/2/2011	6.8
G13	0.5	G13-0.5+12	11/2/2011	**340 J**
	2.0	G13-2.0+12	11/2/2011	**590 J**
G14	0.5	G14-0.5+14	11/3/2011	47
	2.0	G14-2.0+14	11/3/2011	51
H9	0.5	H-9-0.5+15	10/28/2010	14.0 J+
H9R	0.5	HR9-0.5+19	10/28/2010	69 J+
	2.0	HR9-2.0+19	10/28/2010	55 J+
H10	0.5	H10-0.5+12	10/27/2010	110 J+
	2.0	H10-2.0+12	10/27/2010	70 J+

TABLE 1

ANALYTICAL RESULTS OF LEAD IN SOIL [1]
PG&E Oakland—General Construction Yard
Oakland, California

All concentrations reported in units of milligrams per kilogram

Sample Location	Sample Depth (ft bas)	Sample ID	Sample Date [2]	Lead
H11	0.5	H11-0.5+12	10/27/2010	24 [6]
	0.5	H11-0.5+12	10/27/2010	20 J+
	2.0	H11-2.0+12	10/27/2010	6.1 [6]
	2.0	H11-2.0+12	10/27/2010	3.9 J+
H12	0.5	H-12-0.5+9	10/27/2010	150
H12R	0.5	H12R-0.5+6	10/27/2010	**660**
	2.0	H12R-2.0+6	10/27/2010	53 J+
I9	0.5	I9-0.5+24	10/28/2010	**660**
	2.0	I9-2.0+24	10/28/2010	210
	5.0	I9-5.0+24	10/28/2010	7.1 J+
I10R	0.5	I-10R-0.5+15	10/28/2010	**2600**
	2.0	I-10R-2.0+15	10/28/2010	9.3 J+
I10	0.5	I-10-0.5+15	10/27/2010	24 J+
	2.0	I-10-2.0+15	10/27/2010	**320**
	refusal at 5.0	NA	NA	NA
I11	0.5	I11-0.5+15	10/27/2010	22 J+
	2.0	I11-2.0+15	10/27/2010	**350**
	5.0	I11-5.0+15	10/27/2010	6.9 J+
J0	0.5	J0-0.5+21	11/1/2011	21 J
	2.0	J0-2.0+21	11/1/2011	51 J
J1	0.5	J1-0.5+16	10/29/2010	**550**
	2.0	J1-2.0+16	10/29/2010	110 J+
	5.0	J1-5.0+16	10/29/2010	8.5 J+
	6.0	J1-6.0+16	10/29/2010	11 J+
	8.0	J1-8.0+16	10/29/2010	8.8 J+
J9	0.5	J-9-0.5+24	10/27/2010	**1200**
	2.0	J-9-2.0+24	10/27/2010	**1200**
	5.0	J-9-5.0+24	10/27/2010	7.7 J+
J10	0.5	J10-0.5+16	10/27/2010	21 J+
	2.0	J10-2.0+16	10/27/2010	220
	5.0	J10-5.0+16	10/27/2010	5.1 J+
J11	0.5	J11-0.5+15	10/27/2010	6.5 J+
	2.0	J11-2.0+15	10/27/2010	210
	5.0	J11-5.0+15	10/27/2010	7.0 J+
J12	0.5	J-12-0.5+9	10/27/2010	94
	2.0	J-12-2.0+9	10/27/2010	43 J+
K0	0.5	K0-0.5+20	11/1/2011	110 J
	2.0	K0-2.0+20	11/1/2011	24 J

TABLE 1

ANALYTICAL RESULTS OF LEAD IN SOIL [1]
PG&E Oakland—General Construction Yard
Oakland, California

All concentrations reported in units of milligrams per kilogram

Sample Location	Sample Depth (ft bas)	Sample ID	Sample Date [2]	Lead
K1	0.5	K1-0.5+17	10/29/2010	**1200**
	2.0	K1-2.0+17	10/29/2010	5.4 J+
K10	0.5	K10-0.5+18	10/27/2010	16 J+
	2.0	K10-2.0+18	10/27/2010	290
	5.0	K10-5.0+18	10/27/2010	9.4 J+
K11	0.5	K11-0.5+15	10/27/2010	15 J+
	2.0	K11-2.0+15	10/27/2010	**330**
	5.0	K11-5.0+15	10/27/2010	7.5 J+
K12	0.5	K-12-0.5+9	10/27/2010	220
	2.0	K-12-2.0+9	10/27/2010	240
	5.0	K-12-5.0+9	10/27/2010	7 J+
L1	0.5	L1-0.5+15	10/28/2010	180
	2.0	L1-2.0+15	10/28/2010	6.0 J+
	5.0	L1-5.0+15	10/28/2010	9.7 J+
L8	0.5	L8-0.5+24	10/28/2010	120 [6]
	0.5	L8-0.5+24	10/28/2010	16 J+
	2.0	L8-2.0+24	10/28/2010	6 [6]
	2.0	L8-2.0+24	10/28/2010	92 J+
	5.0	L8-5.0+24	10/28/2010	7.1 J+
L9R	0.5	L9R-0.5+24	10/28/2010	300
	2.0	L9R-2.0+24	10/28/2010	6.4 J+
L10	0.5	L-10-0.5+15	10/27/2010	7.4 J+
	2.0	L-10-2.0+15	10/27/2010	130
	5.0	L-10-5.0+15	10/27/2010	7.5 J+
L11	0.5	L11-0.5+12	10/27/2010	84 J+
	2.0	L11-2.0+12	10/27/2010	210
	5.0	L11-5.0+12	10/27/2010	9.3 J+
L12	0.5	L-12-0.5+9	10/27/2010	**530**
	2.0	L-12-2.0+9	10/27/2010	**610**
	5.0	L-12-5.0+9	10/27/2010	5.2 J+
M1	0.5	M1-0.5+12	10/29/2010	43 J+
	2.0	M1-2.0+12	10/29/2010	11 J+
M2	0.5	M2-0.5+16	10/29/2010	**450** [6]
	0.5	M2-0.5+16	10/29/2010	**1100**
	2.0	M2-2.0+16	10/29/2010	49 J+ [6]
	2.0	M2-2.0+16	10/29/2010	9.7 J+

TABLE 1

ANALYTICAL RESULTS OF LEAD IN SOIL [1]

PG&E Oakland—General Construction Yard

Oakland, California

All concentrations reported in units of milligrams per kilogram

Sample Location	Sample Depth (ft bas)	Sample ID	Sample Date [2]	Lead
M3	0.5	M3-0.5+14	10/28/2010	**730**
	2.0	M3-2.0+14	10/28/2010	5.8 J+
	5.0	M3-5.0+14	10/28/2010	8.5 J+
	6.0	M3-6.0+14	10/28/2010	6.1 J+
	8.0	M3-8.0+14	10/28/2010	10 J+
M4	0.5	M-4-0.5+15	10/28/2010	120 J+
	2.0	M-4-2.0+15	10/28/2010	170
M5	0.5	M5-0.5+22	10/28/2010	220
	2.0	M5-2.0+22	10/28/2010	4.8 J+
M6	0.5	M-6-0.5+20	10/28/2010	20 J+
	2.0	M-6-2.0+20	10/28/2010	240
	5.0	M-6-5.0+20	10/28/2010	5.0 J+
M7	0.5	M-7-0.5+22	10/28/2010	21 J+
	2.0	M-7-2.0+22	10/28/2010	9.6 J+
M9	0.5	M-9-0.5+12	10/28/2010	**1100**
CHHSLs Industrial/Commercial [7,8]				320

Notes

1. Soil samples were collected by ETIC Engineering of Pleasant Hill, California, and analyzed by TestAmerica for lead and other Title 22 metals using U.S. EPA Method 6010B, and for mercury using U.S. EPA Method 7470A.
2. Gray shading indicates the samples were collected in November 2011.
3. J indicates the result is an estimated quantity.
4. J+ indicates the result is an estimated quantity, but the result may be biased high.
5. Bold type indicates constituent detected above the commercial CHHSL.
6. The laboratory analyzed the sample for lead twice. Due to soil matrix heterogeneities, the lead values differ.
7. Office of Environmental Health Hazard Assessment (OEHHA), 2005, Soil-Screening Numbers (mg/kg soil) for Nonvolatile Chemicals Based on Total Exposure to Contaminated Soil: Inhalation, Ingestion and Dermal Absorption: Table 5 in Human-Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil, January.
8. Office of Environmental Health Hazard Assessment (OEHHA), 2009, Revised California Human Health Screening Levels for Lead, http://www.oehha.ca.gov/risk/pdf/LeadCHHSL091709.pdf.

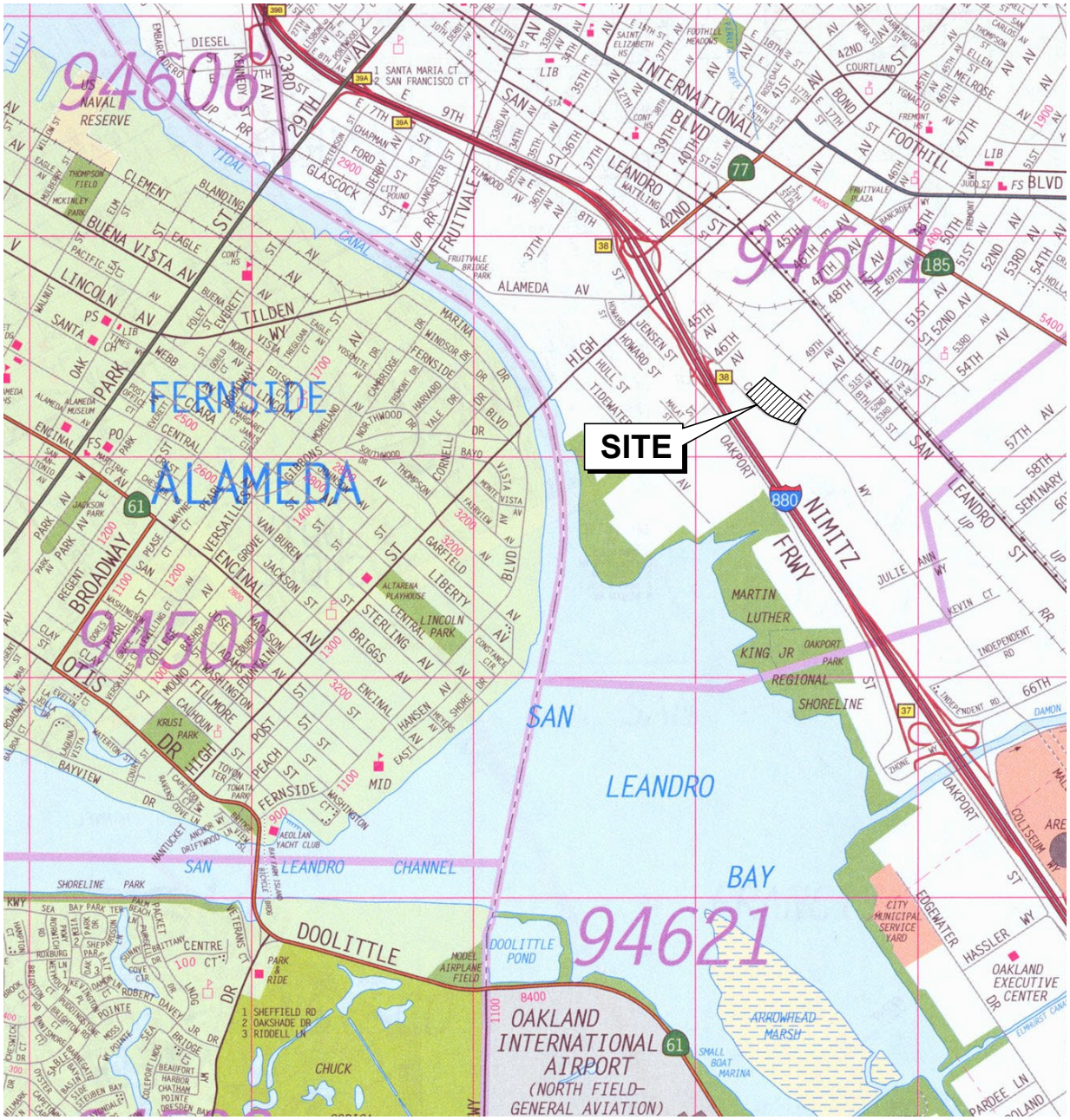
Abbreviations

ft bas= feet below asphalt subgrade

U.S. EPA = United States Environmental Protection Agency

NA = not applicable

FIGURES

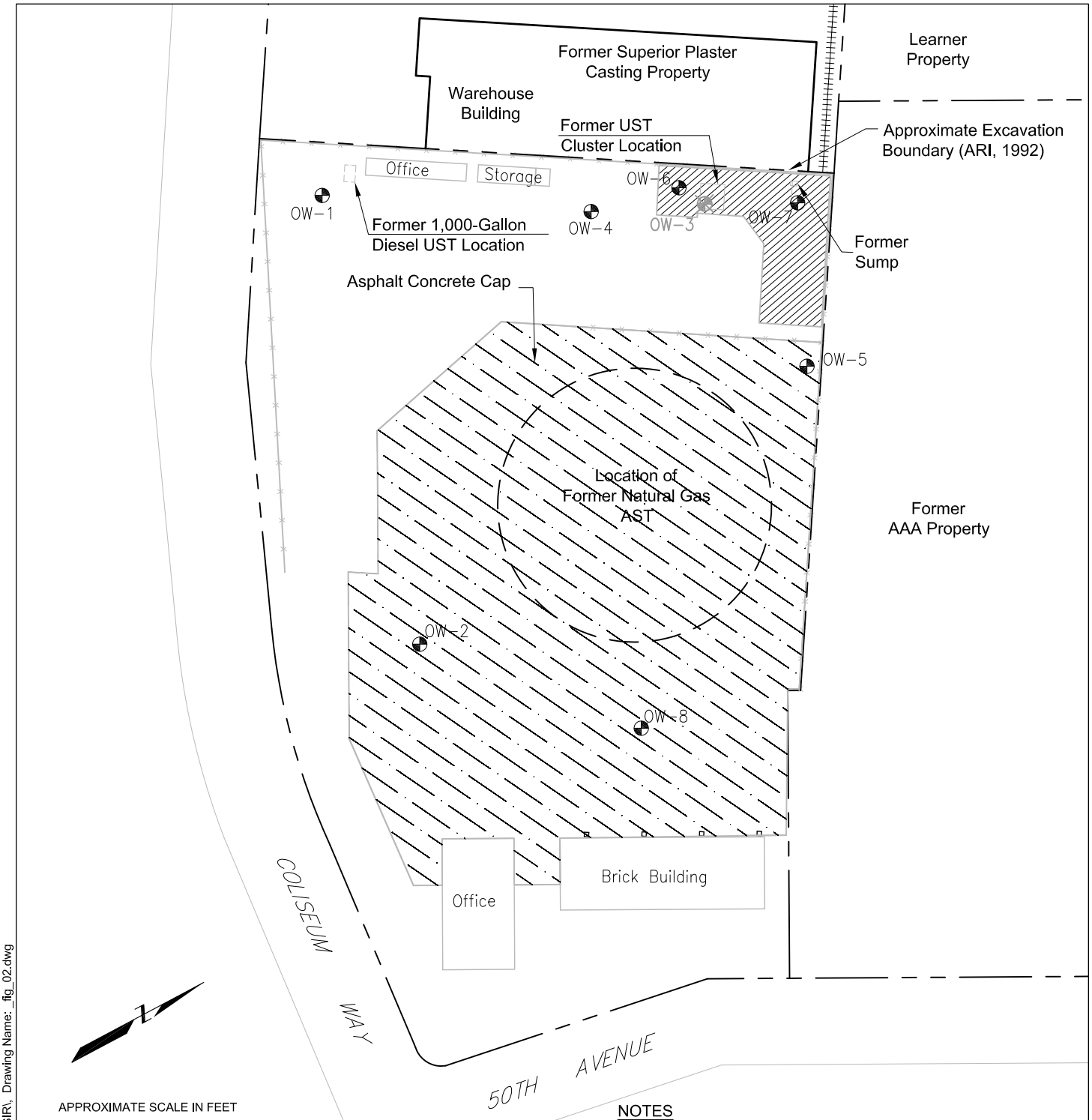


0 2000 feet

SITE LOCATION MAP
Pacific Gas & Electric Company
Oakland General Construction Yard
4930 Coliseum Way
Oakland, California

By: TK	Date: 11/30/2011	Project No. 13045.007.F
amec		Figure 1

S:\13000\13045\13045.007.F\task_02\11_1108_ASIR_fig_01(01)_SLM.ai



APPROXIMATE SCALE IN FEET
0 50 100

EXPLANATION

- Groundwater Monitoring Well
- Destroyed Groundwater Monitoring Well
- Approximate Property Boundary
- Railroad Spur

ABBREVIATIONS

AST Aboveground Storage Tank
UST Underground Storage Tank

NOTES

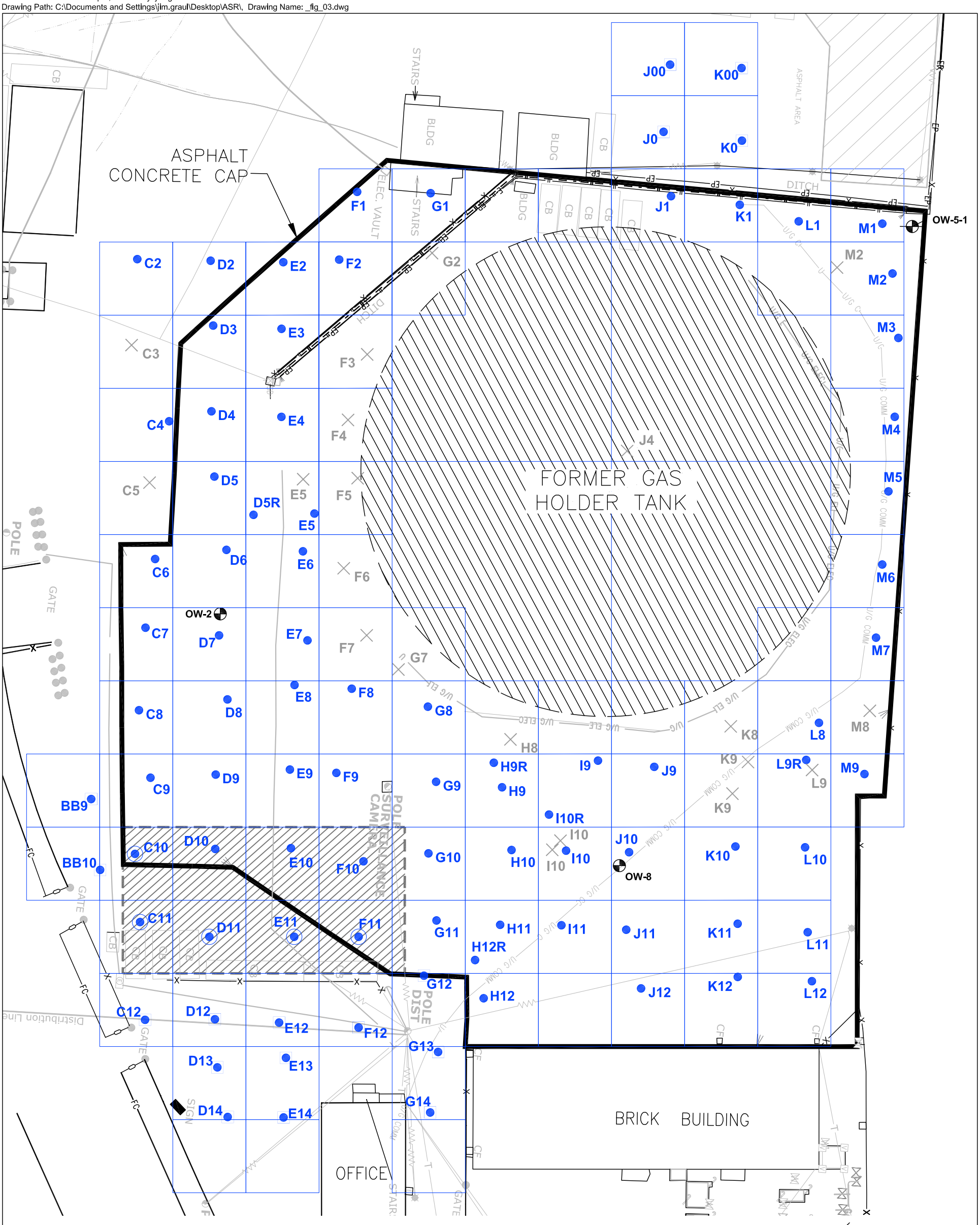
1. Well locations are approximate.
2. Base map from CCS Environmental Services, Inc., 2005, Groundwater Monitoring Report, PG&E Oakland General Construction Yard, Oakland, California.

SITE MAP
Pacific Gas & Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, California

By: TK	Date: 11/30/2011	Project No. 13045.007.F
amec		Figure 2

Plot Date: 11/30/11 - 10:50am, Plotted by: kristin.uber
Drawing Path: S:\13000\13045\13045.007.F\task_02\11_1108_ASIR\, Drawing Name: _fig_02.dwg

Plot Date: 12/14/11 - 3:07pm, Plotted by: jim.graul
Drawing Path: C:\Documents and Settings\jim.graul\Desktop\ASR\, Drawing Name: _fig_03.dwg



EXPLANATION

- C2 — Sampling grid; Sampling location and ID (2010)
- C3 — Attempted sampling location (refusal encountered 2010)
- C12 — Sampling location and ID (2011)
- C10 — Proposed sampling location and ID. No samping was attempted (2011)
- Groundwater monitoring well
- Asphalt cap boundary
- Location of former gas holder tank footprint
- Approximate location of baker tanks

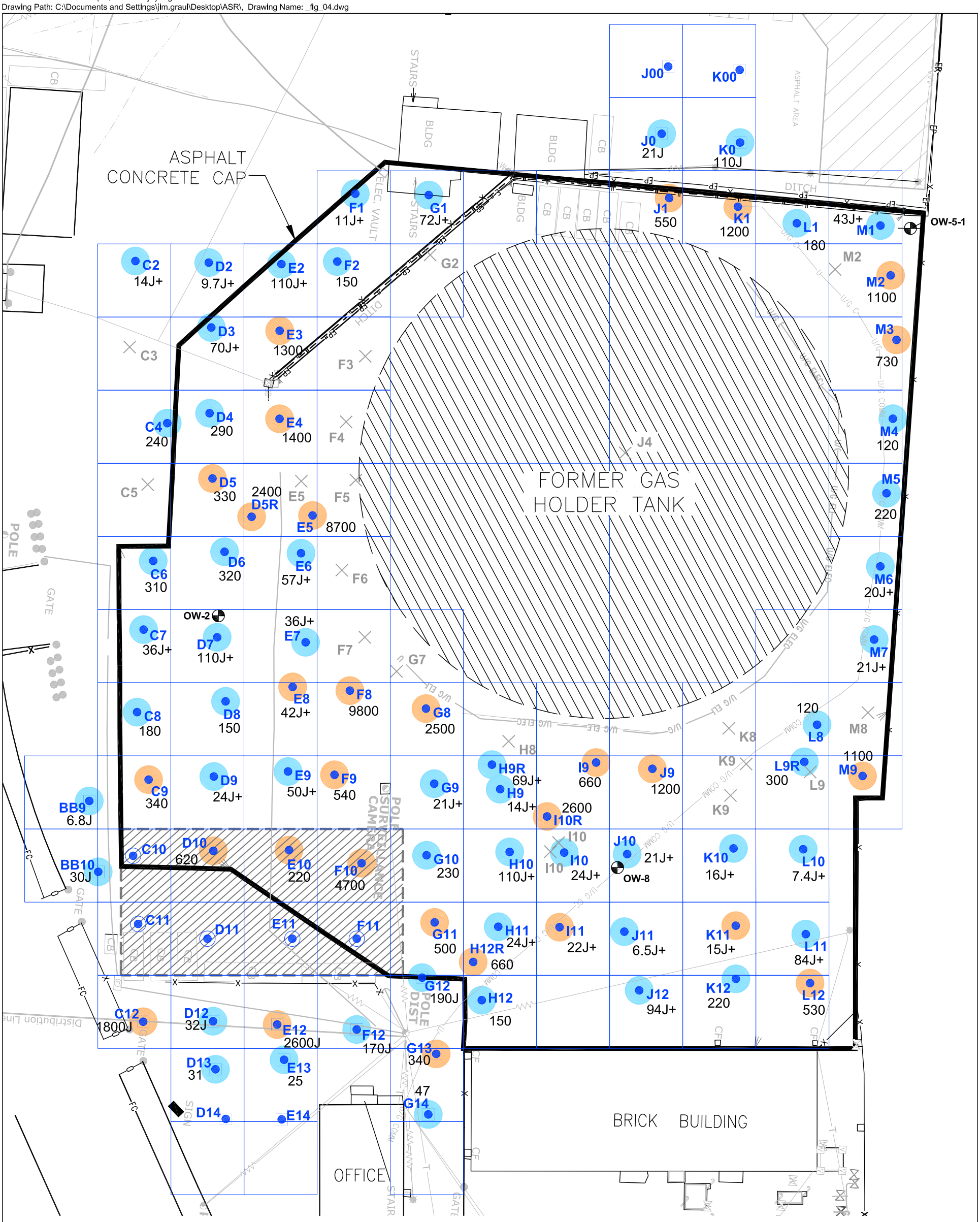
APPROXIMATE SCALE IN FEET
0 20 40

Base map modified from Pacific Gas & Electric Company, Drawing Number Z-0912: "Oakland G.C. Yard Topo," dated 04/06/2010.

SAMPLING LOCATIONS
Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, California

By: TK	Date: 12/14/11	Project No. 13045.007.F
amec		Figure 3

Plot Date: 12/14/11 - 3:09pm, Plotted by: jim.graul
Drawing Path: C:\Documents and Settings\jim.graul\Desktop\ASR\, Drawing Name: _fig_04.dwg



EXPLANATION

- C2 — Sampling grid; Sampling location and ID (2010)
- C3 — Attempted sampling location (refusal encountered 2010)
- C12 — Sampling location and ID (2011)
- C10 — Proposed sampling location and ID. No samping was attempted (2011)
- Groundwater monitoring well
- Asphalt cap boundary
- Location of former gas holder tank footprint
- Approximate location of baker tanks

CONCENTRATION OF LEAD IN SOIL (COLOR CODE)

- Does not exceed CHHSL for commercial/ industrial land use
- Exceeds CHHSL for commercial/ industrial land use (320 mg/kg)

ABBREVIATIONS

J	Value is an estimate
J+	Value is estimated high
bgs	Below ground surface
mg/kg	Milligrams per kilogram
CHHSL	California human health screening level

NOTES

1. Below ground surface reference begins with soil below asphalt and underlying subgrade. Table 1 provides thickness of asphalt and subgrade at each sampling location.

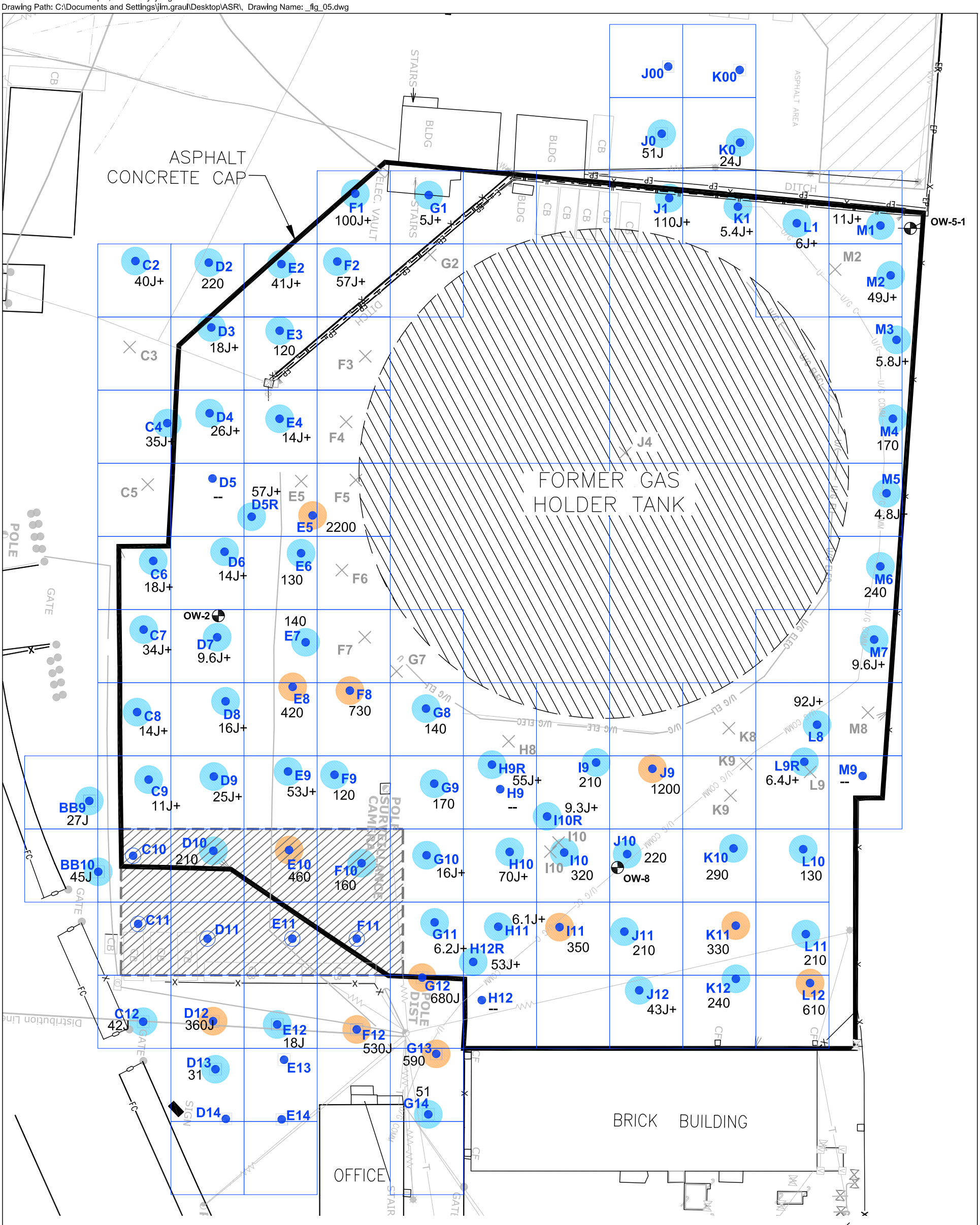
APPROXIMATE SCALE IN FEET
0 20 40

Base map modified from Pacific Gas & Electric Company, Drawing Number Z-0912: "Oakland G.C. Yard Topo," dated 04/06/2010.

LEAD IN SOIL, 0 TO 0.5 FEET
Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, California

By: TK	Date: 12/14/2011	Project No. 13045.007.F
amec		Figure 4

Plot Date: 12/14/11 - 3:09pm, Plotted by: jim.graul
Drawing Path: C:\Documents and Settings\jim.graul\Desktop\ASR\, Drawing Name: _fig_05.dwg



EXPLANATION

- C2 — Sampling grid; Sampling location and ID (2010)
- C3 — Attempted sampling location (refusal encountered 2010)
- C12 — Sampling location and ID (2011)
- C10 — Proposed sampling location and ID. No samping was attempted (2011)
- Groundwater monitoring well
- Asphalt cap boundary
- Location of former gas holder tank footprint
- Approximate location of baker tanks

CONCENTRATION OF LEAD IN SOIL (COLOR CODE)

- Does not exceed CHHSL for commercial/ industrial land use
- Exceeds CHHSL for commercial/ industrial land use (320 mg/kg)

ABBREVIATIONS

J	Value is an estimate
J+	Value is estimated high
bgs	Below ground surface
mg/kg	Milligrams per kilogram
CHHSL	California human health screening level

NOTES

1. Below ground surface reference begins with soil below asphalt and underlying subgrade. Table 1 provides thickness of asphalt and subgrade at each sampling location.

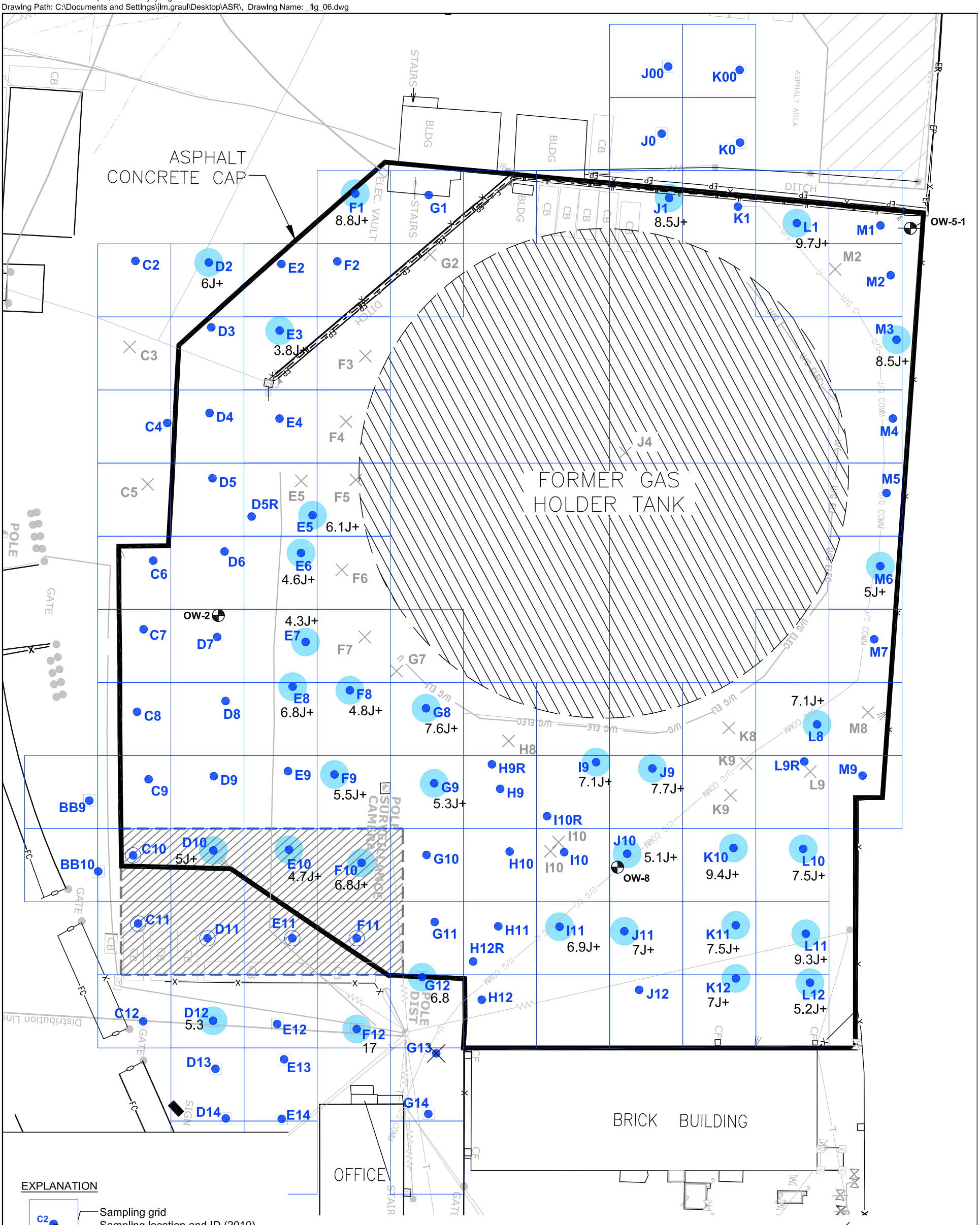
APPROXIMATE SCALE IN FEET
0 20 40

Base map modified from Pacific Gas & Electric Company, Drawing Number Z-0912: "Oakland G.C. Yard Topo," dated 04/06/2010.

LEAD IN SOIL, 1.5 TO 2.0 FEET
Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, California

By: TK	Date: 12/14/2011	Project No. 13045.007.F
amec		Figure 5

Plot Date: 12/14/11 - 3:10pm, Plotted by: jim.graul
Drawing Path: C:\Documents and Settings\jim.graul\Desktop\ASR\, Drawing Name: _fig_06.dwg



EXPLANATION

- C2 — Sampling grid; Sampling location and ID (2010)
- C3 — Attempted sampling location (refusal encountered 2010)
- C12 — Sampling location and ID (2011)
- G13 — Sampling location not collected. Sample could not be collected (2011)
- C10 — Proposed sampling location and ID. No samping was attempted (2011)
- Groundwater monitoring well
- Asphalt cap boundary
- Location of former gas holder tank footprint
- Approximate location of baker tanks

CONCENTRATION OF LEAD IN SOIL (COLOR CODE)

- Exceeds CHHSL for commercial/ industrial land use (320 mg/kg)

ABBREVIATIONS

J+	Value is estimated high
bgs	Below ground surface
mg/kg	Milligrams per kilogram
CHHSL	California human health screening level

NOTES

1. Below ground surface reference begins with soil below asphalt and underlying subgrade. Table 1 provides thickness of asphalt and subgrade at each sampling location.

Base map modified from Pacific Gas & Electric Company, Drawing Number Z-0912: "Oakland G.C. Yard Topo," dated 04/06/2010.

LEAD IN SOIL, 4.5 TO 5.0 FEET
Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, California

By: TK	Date: 12/14/2011	Project No. 13045.007.F
amec		Figure 6

APPENDIX A

Permit

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 10/19/2011 By jamesy

Permit Numbers: W2011-0647
Permits Valid from 11/01/2011 to 11/03/2011

Application Id: 1318281525109 **City of Project Site:** Oakland
Site Location: 4930 Coliseum Way, Oakland, California
Project Start Date: 11/01/2011 **Completion Date:** 11/03/2011
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: AMEC Geomatrix - Rupeet Malhotra **Phone:** 510-663-4185
2101 Webster Street, 12th Floor, Oakland, CA 94612
Property Owner: Pacific Gas and Electric **Phone:** --
3401 Crow Canyon Road, San Ramon, CA 94583
Client: ** same as Property Owner **

Total Due: $265.00
Receipt Number: WR2011-0305 **Total Amount Paid:** $265.00
Payer Name : AMEC Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 16 Boreholes
Driller: PeneCore Drilling - Lic #: 906899 - Method: Hand **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0647	10/19/2011	01/30/2012	16	4.00 in.	5.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

ETIC Boring Logs

ETIC ENGINEERING

LOG OF SOIL BORING: **BB9**

COORDINATES: N2105363.95007 :E6065845.97272

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 6 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, 5, and 6 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1250	TIME 1440
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 4" Asphalt, 9" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya Reviewed by: TS Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
			8.7	0			X		CL
72	72	-	4.8	1					
			3.2				X		
				2					CL
				3					
				4					
			41.0				X		CL
			2.8	5					CL
				6			X		
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

4" ASPHALT AND 9" AGGREGATE BASE ROCK

SILTY CLAY - dark grayish brown (2.5Y 4/2), stiff, low plasticity, moist.
- strong hydrocarbon odor.

CLAY WITH LITTLE SILT - black (2.5Y 2.5/1), stiff, low plasticity, moist, hydrocarbon odor.

- with little sand, fine grained sand.

- diminishing in sand content.

SILTY CLAY WITH TRACE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, very moist to wet.

SILTY CLAY - very dark grayish brown (10YR 3/2), stiff, low plasticity, moist, slight hydrocarbon odor.
- becoming olive gray (5Y 4/2), with trace sand, find grained.

Boring terminated at approximately 6 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9-30-13
No. 7652
STATE OF CALIFORNIA

TS Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **BB10**

COORDINATES: N2105346.69945 :E6065869.64194

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 6 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, 5, and 6 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1340	TIME 1430
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 3" Asphalt, 13" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TEN

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
72	72	-	15.3	0			X		CL
			2.9	1					
				2			X		
				3					ML
			1.0	4					
			1.5	5			X		CL
				6			X		CL
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

3" ASPHALT AND 13" AGGREGATE BASE ROCK

SILTY CLAY - black (2.5Y 2.5/1), stiff, low plasticity, slightly moist, slight hydrocarbon odor.

- increasing in silt content, becoming dark grayish brown (2.5Y 4/2).

CLAYEY SILT WITH TRACE SAND - dark grayish brown (2.5Y 4/2), stiff, low plasticity, fine grained sand, moist, slight hydrocarbon odor.

SILTY CLAY WITH LITTLE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, very moist to wet.

CLAY WITH LITTLE SILT - olive gray (5Y 4/2), stiff, low plasticity, moist.

Boring terminated at approximately 6 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **C12**

COORDINATES: N2105317.95296 :E6065927.04887

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1045	TIME 1120
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 4" Asphalt, 17" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TN Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.9	0			X		CL
			0.6	1					
				2			X		SC
				3					CL
			0.7	4					CL
				5			X		
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

4" ASPHALT AND 17" AGGREGATE BASE ROCK

SILTY CLAY WITH TRACE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, moist.

SAND WITH LITTLE CLAY - very dark grayish brown (10YR 3/2), medium dense, fine to coarse grained sand, moist.

SILTY CLAY WITH TRACE SAND - very dark grayish brown (10YR 3/2), soft, low plasticity, fine grained sand, moist to very moist.
- increasing in silt content, wet

CLAY WITH LITTLE SILT - very dark grayish brown (10YR 3/2), stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9-30-13
No. 7652
STATE OF CALIFORNIA

TN Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **D12**

COORDINATES: N2105338.96964 :E6065946.54927

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1510	TIME 1600
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 19" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: Thos Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	1.2	0			X		
			1.3	1					ML
				2			X		
				3					CL
			1.7	4					
				5			X		
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 19" AGGREGATE BASE ROCK

CLAYEY SILT WITH LITTLE SAND - dark grayish brown (2.5Y 4/2), soft, low plasticity, fine grained sand, moist.

- increasing in silt content, dark greenish gray (GLEY1 4/10Y), soft.

- becoming very moist.

SILTY CLAY WITH LITTLE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine to medium grained sand, very moist.

- lense of sandy clay, black (2.5Y 2.5/1), firm, fine to medium grained sand, wet.

- diminishing in sand content, caliche nodules.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9-30-13
No. 7652
STATE OF CALIFORNIA

Th Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **D13**

COORDINATES: N2105326.17262 :E6065961.57567

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 0745	TIME 0835
DATE				DATE 11/3/11	DATE 11/3/11
REFERENCE					

SURFACE CONDITIONS: 3" Asphalt, 18" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TEN

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.2	0			X		
			2.5	1					ML
			0.1	2			X		
				3					CL
			0.0	4			X		CL
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

3" ASPHALT AND 18" AGGREGATE BASE ROCK
SANDY SILT WITH LITTLE CLAY - dark grayish brown (2.5Y 4/2), soft, low plasticity, fine grained sand, moist.

SANDY CLAY WITH LITTLE SILT - dark grayish brown (2.5Y 4/2), soft, low plasticity, fine grained sand, moist.
- becoming wet.

- becoming very dark grayish brown (10YR 3/2), wet, medium grained sand.

CLAY WITH LITTLE SILT - dark grayish brown (2.5Y 4/2), stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: D14

COORDINATES: N2105315.29139 :E6065979.30389

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1300	TIME 1340
DATE				DATE 11/3/11	DATE 11/3/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 21" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TJ Mel

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.0	0			X		
			0.0	1					
				2			X		CL
				3					
				4					
			0.0	5			X		CL
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 21" AGGREGATE BASE ROCK

SILTY CLAY - very dark grayish brown (10YR 3/2), soft, low plasticity, moist.

- with little sand, fine grained.

- becoming very moist.

CLAY WITH LITTLE SILT - olive (5Y 4/3), stiff, low plasticity, caliche nodules, lense of fine grained sand, slightly moist to moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

TJ Mel

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **E12**

COORDINATES: N2105358.20241 :E6065965.57664

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1610	TIME 1700
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 20" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed By: TE Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	1.0	0			X		SC
			0.7	1					
				2			X		
				3					CL
			0.8	4					
				5			X		CL
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 20" AGGREGATE BASE ROCK

SAND WITH SOME GRAVEL AND LITTLE CLAY - dark grayish brown (2.5Y 4/2), medium dense, fine to coarse grained sand, subangular gravel up to 1" in diameter, brick fragments up to 1" in diameter, moist, slight hydrocarbon odor.

CLAY WITH LITTLE SILT - dark grayish brown (2.5Y 4/2), soft, low plasticity, moist.

- with little sand, fine grained, very moist to wet.

- becoming moist, dimihishing in sand content.

CLAY WITH LITTLE SILT - olive gray (5Y 4/2), very stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9-30-13
No. 7652
STATE OF CALIFORNIA

TE Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/7/11

ETIC ENGINEERING

LOG OF SOIL BORING: **E13**

COORDINATES: N2105349.32635 :E6065978.02451

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 0835	TIME 0905
DATE				DATE 11/3/11	DATE 11/3/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 10" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TJ Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.5	0					SC
			0.1	1					
				2					ML
				3					
				4					CL
			0.1	5					CL
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 10" AGGREGATE BASE ROCK

SAND WITH SOME GRAVEL AND LITTLE CLAY - dark greenish gray (GLEY1 4/10Y), medium dense, fine to coarse grained sand, subangular gravel up to 2" diameter, brick fragments up to 1" in diameter, moist, slight hydrocarbon odor.

SANDY SILT WITH LITTLE CLAY - very dark grayish brown (10YR 3/2), soft, low plasticity, fine to coarse grained sand, few brick fragments up to 1/2" in diameter, moist.

SILTY CLAY - very dark grayish brown (10YR 3/2), soft, low plasticity, very moist.

- with trace sand, fine grained, very moist to wet.

CLAY WITH LITTLE SILT - olive gray (5Y 4/2), very stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

TJ Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **E14**

COORDINATES: N2105331.77 :E6065995.25434

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1120	TIME 1200
DATE				DATE 11/3/11	DATE 11/3/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 21" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TJ Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.1	0			X		ML
			0.0	1					CL
				2			X		SC
				3					CL
			0.0	4					
				5			X		
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 21" AGGREGATE BASE ROCK

CLAYEY SILT WITH LITTLE SAND - very dark grayish brown (10YR 3/2), soft, low plasticity, fine grained sand, slightly moist.

SILTY CLAY - very dark grayish brown (10YR 3/2), soft, low plasticity, moist.

SAND WITH LITTLE SILT AND CLAY - very dark greenish gray (GLEY1 5GY/3), medium dense, fine to coarse grained sand, very moist.

CLAY WITH LITTLE SILT - very dark gray (5Y 3/1), very stiff, low plasticity, moist.

- becoming olive (5Y 4/3), hard, caliche nodules, slightly moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

TJ Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: F12

COORDINATES: N2105379.54855 :E6065989.43739

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 0915	TIME 0945
DATE				DATE 11/3/11	DATE 11/3/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 10" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Revised by:

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.1	0			X		ML
			0.0	1					
				2			X		SM
				3					
				4					CL
			0.0	5			X		CL
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 10" AGGREGATE BASE ROCK

SANDY SILT WITH LITTLE CLAY - very dark grayish brown (10YR 3/2), soft, low plasticity, fine to coarse grained sand, slightly moist.

SILTY SAND WITH LITTLE CLAY - dark greenish gray (GLEY1 4/10Y), medium dense, fine to coarse grained sand, moist.

- becoming dark olive gray (5Y 3/2), increasing in silt content.
- increasing in sand content, becoming very dark greenish gray (GLEY1 3/10Y), few wood chips.

SILTY CLAY WITH LITTLE SAND - dark grayish brown (2.5Y 4/2), soft, low plasticity, fine grained sand, moist to very moist.

- wet.

CLAY WITH LITTLE SILT - very dark gray (5Y 3/1), very stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **G12**

COORDINATES: N2105413.65876 :E6065992.33854

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 0915	TIME 1005
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 14" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TE Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.7	0			X		CL
			0.5	1			X		
				2					ML
				3					
			0.7	4			X		CL
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 14" AGGREGATE BASE ROCK

SANDY CLAY - very dark grayish brown (10YR 3/2), stiff, low plasticity, fine grained sand, angular fragments of bricks and gravel up to 4" in diameter, moist.

CLAYEY SILT WITH LITTLE SAND - very dark grayish brown (10YR 3/2), soft, low plasticity, fine grained sand, few wood chips, very moist.
- wet.

SILTY CLAY - very dark grayish brown (10YR 3/2), very stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

TE Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: G13

COORDINATES: N2105396.41777 :E6066019.091

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 2.5 feet below aggregate base (bAB). Collected soil samples at 0.5 and 2 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 0810	TIME 0845
DATE				DATE 11/2/11	DATE 11/2/11
REFERENCE					

SURFACE CONDITIONS: 2" Asphalt, 10" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by:

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
30	30	-	0.5	0			X		CL
			0.4	1					
				2			X		ML
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

2" ASPHALT AND 10" AGGREGATE BASE ROCK
SANDY CLAY - very dark grayish brown (10YR 3/2), stiff, low plasticity, fine to coarse grained sand, occasional angular gravel up to 3" in diameter, moist.

SANDY SILT WITH LITTLE CLAY - very dark grayish brown (10YR 3/2), soft, low plasticity, fine to medium grained sand, wet.
Boring terminated at approximately 2.5 feet below aggregate base rock due to slumping wet soil. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.12
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: G14

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

COORDINATES: N2105377.08618 :E6066034.97202

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

				START	FINISH
WATER LEVEL					
TIME				TIME 1020	TIME 1100
DATE				DATE 11/3/11	DATE 11/3/11
REFERENCE					

SURFACE CONDITIONS: 4" Asphalt, 10" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: TJ Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.0	0			X		CL
				1					
				2			X		
				3					ML
			0.1	4					
				5			X		CL
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

4" ASPHALT AND 10" AGGREGATE BASE ROCK
CLAY WITH LITTLE SILT - very dark grayish brown (10YR 3/2), stiff, low plasticity, angular fragments of bricks, moist.

CLAYEY SILT WITH LITTLE SAND - very dark grayish brown (10YR 3/2), soft, low plasticity, fine grained sand, very moist.

- wet.

CLAY WITH LITTLE SILT - very dark gray (5Y 3/1), very stiff, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

TJ Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **J0**

COORDINATES: N2105722.55766 :E6065807.81536

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1215	TIME 1300
DATE				DATE 11/1/11	DATE 11/1/11
REFERENCE					

SURFACE CONDITIONS: 4.5" Asphalt, 16.5" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by: T. Neely

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.4	0			X		CL
			0.9	1					ML
				2			X		
				3					SW
			0.5	4					CL
				5			X		
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

4.5" ASPHALT AND 16.5" AGGREGATE BASE ROCK

CLAY WITH LITTLE SILT - dark yellowish brown (10YR 3/4), very stiff, low plasticity, slightly moist.

CLAYEY SILT WITH LITTLE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, moist to very moist, slight hydrocarbon odor.

SAND WITH SOME GRAVEL AND TRACE CLAY - very dark grayish brown (10YR 3/2), medium dense, fine to coarse grained sand, subround gravel up to 1/2" in diameter, well graded, moist.

SILTY CLAY WITH TRACE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, moist.

- very moist to wet.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9-30-13
No. 7652
STATE OF CALIFORNIA

T. Neely

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **J00**

COORDINATES: N2105743.23779 :E6065789.65039

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1115	TIME 1215
DATE				DATE 11/1/11	DATE 11/1/11
REFERENCE					

SURFACE CONDITIONS: 4" Asphalt, 8" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Reviewed by:

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.8	0			X		CL
			0.9	1					ML
				2			X		CL
				3					CL
			1.8	4					CL
				5			X		
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

4" ASPHALT AND 8" AGGREGATE BASE ROCK

CLAY WITH LITTLE SILT - very dark grayish brown (10YR 3/2), very stiff, low to medium plasticity, slightly moist.

CLAYEY SILT WITH TRACE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, occasional subangular gravel up to 1/2" in diameter, slightly moist.

CLAY WITH LITTLE SILT - dark greenish gray (GLEY1 4/10Y), stiff, low to medium plasticity, moist.

SILTY CLAY - black (2.5Y 2.5/1), soft, low plasticity, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **K0**

COORDINATES: N2105743.23779 :E6065832.40794

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 0930	TIME 1015
DATE				DATE 11/1/11	DATE 11/1/11
REFERENCE					

SURFACE CONDITIONS: 4.5" Asphalt, 15.5" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Revised by:

DRIVEN (INCHES)	RECOVER (INCHES)	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
60	60	-	0.3	0			X		CL
			0.5	1					
				2			X		SW
				3					
			0.4	4					CL
				5			X		
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

4.5" ASPHALT AND 15.5" AGGREGATE BASE ROCK
SILTY CLAY WITH LITTLE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, moist.
SAND WITH SOME GRAVEL - black (2.5Y 2.5/1), medium dense, fine to coarse grained sand, subangular gravel up to 1" in diameter, well graded, moist.

SILTY CLAY WITH LITTLE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

ETIC ENGINEERING

LOG OF SOIL BORING: **K00**

COORDINATES: N2105763.73161 :E6065810.70313

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: PeneCore Drilling

LICENSE NUMBER: C57-906899

CLIENT	SITE NUMBER	LOCATION
AMEC/PG&E	AM-OAKGCY-02	4930 Coliseum Way Oakland, CA

DRILLING AND SAMPLING METHODS: Hand augered to approximately 5 feet below aggregate base (bAB). Collected soil samples at 0.5, 2, 2.5, and 5 feet bAB in 2" X 6" s.s. liners.

				START	FINISH
WATER LEVEL					
TIME				TIME 1020	TIME 1105
DATE				DATE 11/1/11	DATE 11/1/11
REFERENCE					

SURFACE CONDITIONS: 5" Asphalt, 7" Aggregate Base Rock

DESCRIPTION BY: Yuko Mamiya

Revised by:

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG
				0	
60	60	-	1.2	1	SW
			0.7		
			8.1	2	
				3	CL
			0.7	4	
				5	
				6	
				7	
				8	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

5" ASPHALT AND 7" AGGREGATE BASE ROCK

SAND WITH SOME GRAVEL AND TRACE CLAY - black (2.5Y 2.5/1), medium dense, fine to medium grained sand, subangular gravel up to 1" in diameter, well graded, moist. - with little silt.

- hydrocarbon odor in tar-like material.

SILTY CLAY WITH LITTLE SAND - black (2.5Y 2.5/1), soft, low plasticity, fine grained sand, moist to very moist.

Boring terminated at approximately 5 feet below aggregate base rock. Boring filled and sealed with neat cement and capped with concrete to existing grade.

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9.30.13
No. 7652
STATE OF CALIFORNIA

LOG OF SOIL BORING OAKLAND GCY_BORING LOGS-NEW.GPJ ETIC.GDT 12/1/11

APPENDIX C

Quality Assurance/Quality Control Review and
Analytical Laboratory Reports

APPENDIX C

QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PG&E Oakland—General Construction Yard
Oakland, California

This section presents an evaluation of quality assurance/quality control (QA/QC) procedures applied to analysis of soil samples collected during the November 2011 sampling event. A data quality review was performed consistent with the U.S. Environmental Protection Agency (U.S. EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.[1] The results of the data quality review are presented below and reflected in applicable tables.

QA/QC procedures applied to soil samples included the analysis of hold times, method blanks, matrix spike/matrix spike duplicate (MS/MSD) samples, surrogate recoveries, and laboratory quality control samples.

- **Hold Times:** All samples were analyzed within their respective hold times.
- **Method Blanks:** No constituents were detected in laboratory method blanks.
- **Spike Samples:** The laboratory analyzed laboratory control samples and associated duplicates (LCS/LCSD) and matrix spike samples and associated duplicates (MS/MSD). All LCS/LCSD were within laboratory control limits (QC limits). The MS/MSD results for lead were outside QC limits. In accordance with the National Functional Guidelines all associated detections of lead above laboratory reporting limits are flagged with a "J" indicating lead was detected, however the value reported is an estimate.
- **Surrogate Recoveries:** All surrogates were recovered within laboratory control limits.

[1] U.S. EPA, 2010, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (OSWER 9240.1-51, EPA 540-R-10-011; January 2010).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38517-1
Client Project/Site: AM-OAKGCY-02
Revision: 1

For:
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523

Attn: Mr. Thomas Neely

Authorized for release by:
12/9/2011 10:24:26 AM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Job ID: 720-38517-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative

Revised Report on 12/9/11. Report sample #57 and 58 in a separate report.

Comments
No additional comments.

Receipt
Sample ID - J0-2.0+21, COC list time as 1240, sample has time of 11:40, loggerd per COC.
Received sample not listed on COC- Sample ID K00*-2.5+12 @ 1110, logged and placed on hold.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The following volatiles sample 720-38517-58 was diluted due to foaming at the time of purging during the original sample analysis: D2-W (720-38517-58). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: D1-A,B,C and D (720-38517-57).

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 102606 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client Sample ID: K0-0.5+20 — **Lab Sample ID: 720-38517-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	110	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: K0-2.0+20 — **Lab Sample ID: 720-38517-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	24	J	1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: J0-0.5+21 — **Lab Sample ID: 720-38517-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: J0-2.0+21 — **Lab Sample ID: 720-38517-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	51	J	2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: G12-0.5+16 — **Lab Sample ID: 720-38517-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	190	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: G12-2.0+16 — **Lab Sample ID: 720-38517-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	680	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: C12-0.5+21 — **Lab Sample ID: 720-38517-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1800	J	1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: C12-2.0+21 — **Lab Sample ID: 720-38517-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	42	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: BB9-0.5+13 — **Lab Sample ID: 720-38517-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.8	J	2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: BB9-2.0+13 — **Lab Sample ID: 720-38517-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	27	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: BB10-0.5+16 — **Lab Sample ID: 720-38517-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	30	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: BB10-2.0+16 — **Lab Sample ID: 720-38517-25**

Client Sample ID: BB10-2.0+16 (Continued) — Lab Sample ID: 720-38517-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	45	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: D12-0.5+21 — Lab Sample ID: 720-38517-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	32	J	1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: D12-2.0+21 — Lab Sample ID: 720-38517-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	360	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: E12-0.5+22 — Lab Sample ID: 720-38517-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2600	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: E12-2.0+22 — Lab Sample ID: 720-38517-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: F12-0.5+12 — Lab Sample ID: 720-38517-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	170	J	1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: F12-2.0+12 — Lab Sample ID: 720-38517-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	530	J	1.9		mg/Kg	4		6010B	Total/NA

Method: 6010B - Metals (ICP)

Client Sample ID: K0-0.5+20
Date Collected: 11/01/11 09:45
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 11:14	4

Client Sample ID: K0-2.0+20
Date Collected: 11/01/11 10:05
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24	J	1.8		mg/Kg		11/09/11 13:50	11/11/11 11:22	4

Client Sample ID: J0-0.5+21
Date Collected: 11/01/11 12:35
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 11:26	4

Client Sample ID: J0-2.0+21
Date Collected: 11/01/11 11:40
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	51	J	2.0		mg/Kg		11/09/11 13:50	11/11/11 11:30	4

Client Sample ID: G12-0.5+16
Date Collected: 11/02/11 09:25
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 11:43	4

Client Sample ID: G12-2.0+16
Date Collected: 11/02/11 09:30
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	680	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 11:47	4

Client Sample ID: C12-0.5+21
Date Collected: 11/02/11 10:50
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1800	J	1.8		mg/Kg		11/09/11 13:50	11/11/11 11:52	4

Method: 6010B - Metals (ICP)

Client Sample ID: C12-2.0+21
Date Collected: 11/02/11 11:00
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	42	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 11:56	4

Client Sample ID: BB9-0.5+13
Date Collected: 11/02/11 12:55
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.8	J	2.0		mg/Kg		11/09/11 13:50	11/11/11 12:00	4

Client Sample ID: BB9-2.0+13
Date Collected: 11/02/11 13:10
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:04	4

Client Sample ID: BB10-0.5+16
Date Collected: 11/02/11 13:45
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-24
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:08	4

Client Sample ID: BB10-2.0+16
Date Collected: 11/02/11 13:55
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-25
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	45	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:13	4

Client Sample ID: D12-0.5+21
Date Collected: 11/02/11 15:30
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-29
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32	J	1.8		mg/Kg		11/09/11 13:50	11/11/11 12:46	4

Client Sample ID: D12-2.0+21
Date Collected: 11/02/11 15:45
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-30
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	360	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:42	4

Client Sample ID: E12-0.5+22
Date Collected: 11/02/11 16:30
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2600	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:38	4

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Client Sample ID: E12-2.0+22
Date Collected: 11/02/11 16:40
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-33
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:34	4

Client Sample ID: F12-0.5+12
Date Collected: 11/03/11 09:25
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-41
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	170	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:17	4

Client Sample ID: F12-2.0+12
Date Collected: 11/03/11 09:30
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-42
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	530	J	1.9		mg/Kg		11/09/11 13:50	11/11/11 12:21	4

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-102606/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102765 — **Prep Batch: 102606**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		11/09/11 13:50	11/11/11 10:53	1

Lab Sample ID: LCS 720-102606/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102765 — **Prep Batch: 102606**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	47.8		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 720-102606/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102765 — **Prep Batch: 102606**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	47.1		mg/Kg		94	80 - 120	1	20

Lab Sample ID: LCSSRM 720-102606/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102765 — **Prep Batch: 102606**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	181	149		mg/Kg		83	62 - 113

Lab Sample ID: 720-38517-1 MS — **Client Sample ID: K0-0.5+20**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102765 — **Prep Batch: 102606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	110		47.2	306	F	mg/Kg		407	75 - 125

Lab Sample ID: 720-38517-1 MSD — **Client Sample ID: K0-0.5+20**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102765 — **Prep Batch: 102606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	110		48.5	101	F	mg/Kg		-25	75 - 125	100	20

Metals

Prep Batch: 102606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-38517-1	K0-0.5+20	Total/NA	Solid	3050B	
720-38517-1 MS	K0-0.5+20	Total/NA	Solid	3050B	
720-38517-1 MSD	K0-0.5+20	Total/NA	Solid	3050B	
720-38517-2	K0-2.0+20	Total/NA	Solid	3050B	
720-38517-10	J0-0.5+21	Total/NA	Solid	3050B	
720-38517-11	J0-2.0+21	Total/NA	Solid	3050B	
720-38517-15	G12-0.5+16	Total/NA	Solid	3050B	
720-38517-16	G12-2.0+16	Total/NA	Solid	3050B	
720-38517-18	C12-0.5+21	Total/NA	Solid	3050B	
720-38517-19	C12-2.0+21	Total/NA	Solid	3050B	
720-38517-21	BB9-0.5+13	Total/NA	Solid	3050B	
720-38517-22	BB9-2.0+13	Total/NA	Solid	3050B	
720-38517-24	BB10-0.5+16	Total/NA	Solid	3050B	
720-38517-25	BB10-2.0+16	Total/NA	Solid	3050B	
720-38517-29	D12-0.5+21	Total/NA	Solid	3050B	
720-38517-30	D12-2.0+21	Total/NA	Solid	3050B	
720-38517-32	E12-0.5+22	Total/NA	Solid	3050B	
720-38517-33	E12-2.0+22	Total/NA	Solid	3050B	
720-38517-41	F12-0.5+12	Total/NA	Solid	3050B	
720-38517-42	F12-2.0+12	Total/NA	Solid	3050B	
LCS 720-102606/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-102606/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-102606/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-102606/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 102765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-38517-1	K0-0.5+20	Total/NA	Solid	6010B	102606
720-38517-1 MS	K0-0.5+20	Total/NA	Solid	6010B	102606
720-38517-1 MSD	K0-0.5+20	Total/NA	Solid	6010B	102606
720-38517-2	K0-2.0+20	Total/NA	Solid	6010B	102606
720-38517-10	J0-0.5+21	Total/NA	Solid	6010B	102606
720-38517-11	J0-2.0+21	Total/NA	Solid	6010B	102606
720-38517-15	G12-0.5+16	Total/NA	Solid	6010B	102606
720-38517-16	G12-2.0+16	Total/NA	Solid	6010B	102606
720-38517-18	C12-0.5+21	Total/NA	Solid	6010B	102606
720-38517-19	C12-2.0+21	Total/NA	Solid	6010B	102606
720-38517-21	BB9-0.5+13	Total/NA	Solid	6010B	102606
720-38517-22	BB9-2.0+13	Total/NA	Solid	6010B	102606
720-38517-24	BB10-0.5+16	Total/NA	Solid	6010B	102606
720-38517-25	BB10-2.0+16	Total/NA	Solid	6010B	102606
720-38517-29	D12-0.5+21	Total/NA	Solid	6010B	102606
720-38517-30	D12-2.0+21	Total/NA	Solid	6010B	102606
720-38517-32	E12-0.5+22	Total/NA	Solid	6010B	102606
720-38517-33	E12-2.0+22	Total/NA	Solid	6010B	102606
720-38517-41	F12-0.5+12	Total/NA	Solid	6010B	102606
720-38517-42	F12-2.0+12	Total/NA	Solid	6010B	102606
LCS 720-102606/2-A	Lab Control Sample	Total/NA	Solid	6010B	102606
LCSD 720-102606/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	102606
LCSSRM 720-102606/25-A	Lab Control Sample	Total/NA	Solid	6010B	102606
MB 720-102606/1-A	Method Blank	Total/NA	Solid	6010B	102606

Lab Chronicle

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Client Sample ID: K0-0.5+20

Lab Sample ID: 720-38517-1
Matrix: Solid

Date Collected: 11/01/11 09:45
Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:14	CAM	TAL SF

Client Sample ID: K0-2.0+20

Lab Sample ID: 720-38517-2
Matrix: Solid

Date Collected: 11/01/11 10:05
Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:22	CAM	TAL SF

Client Sample ID: J0-0.5+21

Lab Sample ID: 720-38517-10
Matrix: Solid

Date Collected: 11/01/11 12:35
Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:26	CAM	TAL SF

Client Sample ID: J0-2.0+21

Lab Sample ID: 720-38517-11
Matrix: Solid

Date Collected: 11/01/11 11:40
Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:30	CAM	TAL SF

Client Sample ID: G12-0.5+16

Lab Sample ID: 720-38517-15
Matrix: Solid

Date Collected: 11/02/11 09:25
Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:43	CAM	TAL SF

Client Sample ID: G12-2.0+16

Lab Sample ID: 720-38517-16
Matrix: Solid

Date Collected: 11/02/11 09:30
Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:47	CAM	TAL SF

Client Sample ID: C12-0.5+21

Lab Sample ID: 720-38517-18

Date Collected: 11/02/11 10:50
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:52	CAM	TAL SF

Client Sample ID: C12-2.0+21

Lab Sample ID: 720-38517-19

Date Collected: 11/02/11 11:00
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 11:56	CAM	TAL SF

Client Sample ID: BB9-0.5+13

Lab Sample ID: 720-38517-21

Date Collected: 11/02/11 12:55
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:00	CAM	TAL SF

Client Sample ID: BB9-2.0+13

Lab Sample ID: 720-38517-22

Date Collected: 11/02/11 13:10
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:04	CAM	TAL SF

Client Sample ID: BB10-0.5+16

Lab Sample ID: 720-38517-24

Date Collected: 11/02/11 13:45
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:08	CAM	TAL SF

Client Sample ID: BB10-2.0+16

Lab Sample ID: 720-38517-25

Date Collected: 11/02/11 13:55
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:13	CAM	TAL SF

Lab Chronicle

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Client Sample ID: D12-0.5+21

Lab Sample ID: 720-38517-29

Date Collected: 11/02/11 15:30
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:46	CAM	TAL SF

Client Sample ID: D12-2.0+21

Lab Sample ID: 720-38517-30

Date Collected: 11/02/11 15:45
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:42	CAM	TAL SF

Client Sample ID: E12-0.5+22

Lab Sample ID: 720-38517-32

Date Collected: 11/02/11 16:30
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:38	CAM	TAL SF

Client Sample ID: E12-2.0+22

Lab Sample ID: 720-38517-33

Date Collected: 11/02/11 16:40
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:34	CAM	TAL SF

Client Sample ID: F12-0.5+12

Lab Sample ID: 720-38517-41

Date Collected: 11/03/11 09:25
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:17	CAM	TAL SF

Client Sample ID: F12-2.0+12

Lab Sample ID: 720-38517-42

Date Collected: 11/03/11 09:30
Date Received: 11/04/11 13:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102606	11/09/11 13:50	SK	TAL SF
Total/NA	Analysis	6010B		4	102765	11/11/11 12:21	CAM	TAL SF

Lab Chronicle

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-38517-1	K0-0.5+20	Solid	11/01/11 09:45	11/04/11 13:30
720-38517-2	K0-2.0+20	Solid	11/01/11 10:05	11/04/11 13:30
720-38517-10	J0-0.5+21	Solid	11/01/11 12:35	11/04/11 13:30
720-38517-11	J0-2.0+21	Solid	11/01/11 11:40	11/04/11 13:30
720-38517-15	G12-0.5+16	Solid	11/02/11 09:25	11/04/11 13:30
720-38517-16	G12-2.0+16	Solid	11/02/11 09:30	11/04/11 13:30
720-38517-18	C12-0.5+21	Solid	11/02/11 10:50	11/04/11 13:30
720-38517-19	C12-2.0+21	Solid	11/02/11 11:00	11/04/11 13:30
720-38517-21	BB9-0.5+13	Solid	11/02/11 12:55	11/04/11 13:30
720-38517-22	BB9-2.0+13	Solid	11/02/11 13:10	11/04/11 13:30
720-38517-24	BB10-0.5+16	Solid	11/02/11 13:45	11/04/11 13:30
720-38517-25	BB10-2.0+16	Solid	11/02/11 13:55	11/04/11 13:30
720-38517-29	D12-0.5+21	Solid	11/02/11 15:30	11/04/11 13:30
720-38517-30	D12-2.0+21	Solid	11/02/11 15:45	11/04/11 13:30
720-38517-32	E12-0.5+22	Solid	11/02/11 16:30	11/04/11 13:30
720-38517-33	E12-2.0+22	Solid	11/02/11 16:40	11/04/11 13:30
720-38517-41	F12-0.5+12	Solid	11/03/11 09:25	11/04/11 13:30
720-38517-42	F12-2.0+12	Solid	11/03/11 09:30	11/04/11 13:30

720.38517 Temp 3.9, 4.1° 134723

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: ☐ FAX X Email
Turn-around time:
☐ 5-day ☐ 24-hour X Standard
Deliverable:
X PDF ☐ EDF X EDD
Notes: PG&E / AMEC project
Please bill ETIC Engineering, Inc.
Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02

Sampler(s) Signature(s):

Number of Containers and Preservative

Sample Identification	Date	Time	Sample Type	Unpreserved	HCl	HNO_3	H_2SO_4	NaOH		Lead (EPA Method 6010B)	HOLD	Comments
K0-0.5+20	11/1/11	0945	soil	1						X		6"x2" stainless steel sleeve
K0-2.0+20	11/1/11	1005	soil	1						X		
K0-5.0+20	11/1/11	1010	soil	1							X	
K00-0.5+12	11/1/11	1040	soil	1							X	
K00-2.0+12	11/1/11	1045	soil	1							X	
K00 5.0+12	11/1/11	1100	soil	1							X	
J00-0.5+12	11/1/11	1130	soil	1							X	
J00-2.0+12	11/1/11	1140	soil	1							X	
J00-5.0+12	11/1/11	1205	soil	1							X	
J0-0.5+21	11/1/11	1235	soil	1						X	X ND	
J0-2.0+21	11/1/11	1240	soil	1						X		
J0-5.0+21	11/1/11	1255	soil	1							X	
G13-0.5+12	11/2/11	0815	soil	1					ND	ND	X	
G13-2.0+12	11/2/11	0830	soil	1					ND	ND	X	
G12-0.5+16	11/2/11	0925	soil	1						X		
G12-2.0+16	11/2/11	0930	soil	1						X		

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11.3.11	1530
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)

Shipping notes: Via TestAmerica carrier

Page 1 of 5

Relinquished by - 11/4/11 1330 received: 11-4-11 1330

12/9/2011

720-38517

134723

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: □ FAX X Email
Turn-around time:
□ 5-day □ 24-hour X Standard
Deliverable:
X PDF □ EDF X EDD
Notes: PG&E / AMEC project

Please bill ETIC Engineering, Inc.

Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02

Sampler(s) Signature(s):

Sample Identification	Date	Time	Sample Type	Number of Containers and Preservative: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Lead (EPA Method 6010B)	HOLD	Comments
G12-5.0+16	11/2/11	1000	soil	1						X	6"x2" stainless steel sleeve
C12-0.5+21	11/2/11	1050	soil	1					X		
C12-2.0+21	11/2/11	1100	soil	1					X		
C12-5.0+21	11/2/11	1115	soil	1						X	
BB9-0.5+13	11/2/11	1255	soil	1					X		
BB9-2.0+13	11/2/11	1310	soil	1					X		
BB9-5.0+13	11/2/11	1315	soil	1						X	
BB10-0.5+16	11/2/11	1345	soil	1					X		
BB10-2.0+16	11/2/11	1355	soil	1					X		
BB10-5.0+16	11/2/11	1410	soil	1						X	
BB10-6.0+16	11/2/11	1420	soil	1						X	
BB9-6.0+13	11/2/11	1435	soil	1						X	
D12-0.5+21	11/2/11	1530	soil	1					X		
D12-2.0+21	11/2/11	1545	soil	1					X		
D12-5.0+21	11/2/11	1555	soil	1						X	
E12-0.5+22	11/2/11	1630	soil	1					X		

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11.3.11	1530
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)

Shipping notes: Via TestAmerica Courier

Page 2 of 5

Relinquished: 11/4/11 1530

Received: 11-4-11 1330

12/9/2011

13

720.38517

13-4723

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: ☐ FAX **X Email**
Turn-around time:
☐ 5-day ☐ 24-hour **X Standard**
Deliverable:
X PDF ☐ EDF **X EDD**
Notes: PG&E / AMEC project
Please bill ETIC Engineering, Inc.

Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02

Sampler(s) Signature(s):

Sample Identification	Date	Time	Sample Type	Number of Containers and Preservative: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Lead (EPA Method 6010B)	HOLD	Comments
E12-2.0+22	11/2/11	1640	soil	1					X		6"x2" stainless steel sleeve
E12-5.0+22	11/2/11	1650	soil	1						X	
D13-0.5+21	11/3/11	0810	soil	1						X	
D13-2.0+21	11/3/11	0820	soil	1						X	
D13-5.0+21	11/3/11	0850	soil	1						X	
E13-0.5+12	11/3/11	0840	soil	1						X	
E13-2.0+12	11/3/11	0850	soil	1						X	
E13-5.0+12	11/3/11	0900	soil	1						X	
F12-0.5+12	11/3/11	0925	soil	1					X		
F12-2.0+12	11/3/11	0930	soil	1					X		
F12-5.0+12	11/3/11	0940	soil	1						X	
ND G14-0.5+14	11/3/11	1030	soil	1						X	
G14-2.0+14	11/3/11	1040	soil	1						X	
G14-5.0+14	11/3/11	1050	soil	1						X	
E14-0.5+23	11/3/11	1130	soil	1						X	
E14-2.0+23	11/3/11	1140	soil	1						X	

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11.3.11	1630
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)

Shipping notes: Via TestAmerica Carrier

Page 3 of 5

Relinquished 11/4/11 1330

11-4-11 1330

12/9/2011

Page 21 of 30

720-38517

1347B3

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: ☐ FAX **X Email**
Turn-around time:
☐ 5-day ☐ 24-hour **X Standard**
Deliverable:
X PDF ☐ EDF **X EDD**
Notes: PG&E / AMEC project
Please bill ETIC Engineering, Inc.
Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02
Sampler(s) Signature(s):

Sample Identification	Date	Time	Sample Type	Number of Containers and Preservative: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Lead (EPA Method 6010B)	HOLD	Comments
E14-5.0+23	11/3/11	1145	soil	1						X	6"x2" stainless steel sleeve
D14-0.5+23	11/3/11	1320	soil	1						X	
D14-2.0+23	11/3/11	1325	soil	1						X	
D14-5.0+23	11/3/11	1330	soil	1						X	
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							
	11/ /11		soil	1							

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11.3.11	1530
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)
Shipping notes: Via TestAmerica courier
Page 4 of 5

Relinquished by — 11/4/11 1330
11-4-11 1330

12/9/2011

720.38517

134723

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: ☐ FAX **X Email**
Turn-around time:
☐ 5-day ☐ 24-hour **X Standard**
Deliverable:
X PDF ☐ EDF **X EDD**
Notes: PG&E / AMEC project

Please bill ETIC Engineering, Inc.

Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02

Sampler(s) Signature(s):

Sample Identification	Date	Time	Sample Type	Number of Containers and Preservative: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	TPH-d by EPA Method 8015B(M) ~~with silica gel cleanup~~ ND	BTEX and TPH-g by EPA Method 8260B	CAM 17 Metals by EPA 6010B/7471	HOLD	Comments
D1-A	11.3.11	1330	SOIL	1					X	X	X		6"x2" stainless steel sleeve
D1-B	11.3.11	1330	SOIL	1					X	X	X		4 POINT Composit
D1-C	11.3.11	1330	SOIL	1					X	X	X		DESIGNATE SAMPLE
D1-D	11.3.11	1330	SOIL	1					X	X	X		ID AS D1-A, B, C, AND D
D2-W	11.3.11	1400	WATER	2	6	1			X	X	X		Six 40 mL VOA w/ HCL, Two 1L-amber, & One 250mL poly w/ HNO3 Two 40 mL VOA.
Trip Blank	11.03.11	1400	Water		2							X	

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11.3.11	1530
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)

Shipping notes: Via TestAmerica carrier

Page 5 of 5

Relinquished by 11/4/11 1330 Received by 11-4-11 1330

12/9/2011

Page 23 of 30

720-38517-2

Salimpour, Afsaneh

From: Klitzke, Tiffany [Tiffany.Klitzke@amec.com]
Sent: Tuesday, November 15, 2011 12:34 PM
To: Salimpour, Afsaneh; ETIC Labreports; Mr. Thomas Neely; Hashimoto, Yemia
Subject: RE: Files from 720-38517-1 AM-OAKGCY-02

Hi Afsaneh,
Can you please report the results for D1-A,B,C and D, and D2-W in a separate lab report?

Also, we'd like to run the following samples on hold for Lead by 6010 on a standard turnaround time:
G13-0.5+12
G13-2.0+12
G12-5.0+16
D12-5.0+21
D13-0.5+21
D13-2.0+21
F12-5.0+12

Thank you,

Tiffany Klitzke
Staff Geologist

AMEC
2101 Webster St
12th Floor
Oakland, CA 94612
direct: 510-663-4144

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Friday, November 11, 2011 4:46 PM
To: ETIC Labreports; Klitzke, Tiffany; Mr. Thomas Neely; Hashimoto, Yemia
Subject: Files from 720-38517-1 AM-OAKGCY-02

AFSANEH SALIMPOUR

TestAmerica San Francisco
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [093263]
Attachments: 2

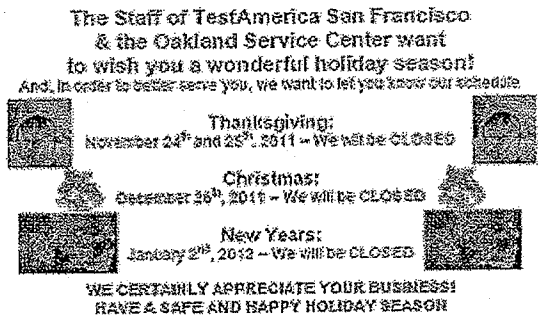
Mullen, Joan 720-38517-3

From: Salimpour, Afsaneh
Sent: Thursday, December 01, 2011 12:49 PM
To: Mullen, Joan
Subject: FW: Files from 720-38517-2 AM-OAKGCY-02
Importance: High

Please scan this email to job # 720-38517-3.

AFSANEH SALIMPOUR
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
1220 Quarry Lane
Pleasanton, CA 94566
Tel 925.484.1919 | Fax 925.600.3002
www.testamericainc.com



-----Original Message-----
From: Klitzke, Tiffany [mailto:Tiffany.Klitzke@amec.com]
Sent: Tuesday, November 22, 2011 3:44 PM
To: Salimpour, Afsaneh; ETIC Labreports; Mr. Thomas Neely
Subject: RE: Files from 720-38517-2 AM-OAKGCY-02

Hi Afsaneh,
I would like to analyze the following samples on hold for lead with a standard turnaround time:
G14-0.5+14
G14-2.0+14
E13-0.5+12

Thanks,

Tiffany Klitzke
Staff Geologist

AMEC
2101 Webster St
12th Floor
Oakland, CA 94612
direct: 510-663-4144

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Tuesday, November 22, 2011 3:11 PM
To: ETIC Labreports; Klitzke, Tiffany; Mr. Thomas Neely

720 · 38517 - email

Salimpour, Afsaneh

From: Yuko Mamiya [ymamiya@eticeng.com]
Sent: Monday, November 07, 2011 6:13 PM
To: Thomas Neely; Salimpour, Afsaneh; ETICLabReports; 'tiffany.klitzke@amec.com'; 'yemia.hashimoto@amec.com'
Subject: RE: Sample Login Confirmation for 720-38517, AM-OAKGCY-02

Sample ID J0-2.0+21 should be 1140 on COC also Sample ID K00-2.5+12 @ 1110 was added to the COC. Attached is the revised COC (Page 1 and 5). Thanks.

Yuko Mamiya
ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel: 925-602-4710 x2164
Fax: 925-602-4720
Mobile: 925-303-6421
ymamiya@eticeng.com
www.eticeng.com

13

From: Thomas Neely
Sent: Monday, November 07, 2011 5:55 PM
To: 'afsaneh.salimpour@testamericainc.com'; ETICLabReports; 'tiffany.klitzke@amec.com'; 'yemia.hashimoto@amec.com'; Yuko Mamiya
Subject: Re: Sample Login Confirmation for 720-38517, AM-OAKGCY-02

I will check with the crew to reconcile these two items

Tom

Sent from my Blackberry

From: Salimpour, Afsaneh <afsaneh.salimpour@testamericainc.com>
To: ETICLabReports; Tiffany Klitzke <tiffany.klitzke@amec.com>; Thomas Neely; Yemia Hashimoto <yemia.hashimoto@amec.com>
Sent: Mon Nov 07 17:36:06 2011
Subject: Sample Login Confirmation for 720-38517, AM-OAKGCY-02

Sample ID - J0-2.0+21, COC list time as 1240, sample has time of 11:40, loggerd per COC.
Received sample not listed on COC- Sample ID K00*-2.5+12 @ 1110, logged and placed on hold.

AFSANEH SALIMPOUR

TestAmerica San Francisco
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: ☐ FAX X Email
Turn-around time:
☐ 5-day ☐ 24-hour X Standard
Deliverable:
X PDF ☐ EDF X EDD
Notes: PG&E / AMEC project
Please bill ETIC Engineering, Inc.
Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02
Sampler(s) Signature(s):

Sample Identification	Date	Time	Sample Type	Number of Containers and Preservative: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH		Lead (EPA Method 6010B)	HOLD	Comments
K0-0.5+20	11/1/11	0945	soil	1						X		6"x2" stainless steel sleeve
K0-2.0+20	11/1/11	1005	soil	1						X		
K0-5.0+20	11/1/11	1010	soil	1							X	
K00-0.5+12	11/1/11	1040	soil	1							X	
K00-2.0+12	11/1/11	1045	soil	1							X	
K00-5.0+12	11/1/11	1100	soil	1							X	
J00-0.5+12	11/1/11	1130	soil	1							X	
J00-2.0+12	11/1/11	1140	soil	1							X	
J00-5.0+12	11/1/11	1205	soil	1							X	
J0-0.5+21	11/1/11	1235	soil	1						X	X ND	
J0-2.0+21	11/1/11	1240 1140 VH	soil	1						X		
J0-5.0+21	11/1/11	1255	soil	1							X	
G13-0.5+12	11/2/11	0815	soil	1					NaOH	X	X	
G13-2.0+12	11/2/11	0830	soil	1					NaOH	X	X	
G12-0.5+16	11/2/11	0925	soil	1						X		
G12-2.0+16	11/2/11	0930	soil	1						X		

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11.3.11	1530
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)
Shipping notes: Via TestAmerica carrier

CHAIN OF CUSTODY

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 X 2161
(925) 602-4720 FAX

Contact: Tom Neely
Email: tneely@eticeng.com
Email: eticlabreports@eticeng.com
Email: Yemia.Hashimoto@amec.com
Email: Tiffany.Klitzke@amec.com

P.O. No. 20852
Results: ☐ FAX X Email
Turn-around time:
☐ 5-day ☐ 24-hour X Standard
Deliverable:
X PDF ☐ EDF X EDD
Notes: PG&E / AMEC project
Please bill ETIC Engineering, Inc.
Project Name: Oakland General Construction Yard

Project Number: AM-OAKGCY-02

Sampler(s) Signature(s):

Sample Identification	Date	Time	Sample Type	Number of Containers and Preservative: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	TPH-d by EPA Method 8015B(M)	BTEX and TPH-g by EPA Method 8260B	CAM 17 Metals by EPA 6010B/7471	HOLD	Comments
ND D1-A	11.3.11	1330	Soil	1					X ND	X	X		6"x2" Stainless steel sleeve
D1-B	11.3.11	1330	Soil	1					X	X	X		4 POINT COMPOSIT
D1-C	11.3.11	1330	Soil	1					X	X	X		DESIGNATE SAMPLE
D1-D	11.3.11	1330	Soil	1					X	X	X		ID AS D1-A, B, C, AND D
D2-W	11.3.11	1400	Water	2	6	1			X	X	X		Six 40 mL VOA w/ HCL, Two 1L-
Trip Blank	11.03.11	1400	Water		2							X	amber, & One 250mL poly w/
												↑	HNO_3
YM KDD-25+12	11.1.11	1110	Soil	1								X	Two 40 mL VOA.

Relinquished by	Date	Time	Received by	Date	Time
	11.3.11	1530		11-3.11	1530
	11/4/11	1010		11/4/11	1010

Analytical laboratory: TestAmerica (Pleasanton)

Shipping notes: Via TestAmerica carrier

Login Sample Receipt Checklist

Client: ETIC Engineering, Inc.

Job Number: 720-38517-1

Login Number: 38517
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica San Francisco

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ETIC Engineering, Inc.

Job Number: 720-38517-1

Login Number: 38517
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica San Francisco

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38517-2
Client Project/Site: AM-OAKGCY-02

For:
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523

Attn: Mr. Thomas Neely

Authorized for release by:
11/22/2011 3:07:06 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Job ID: 720-38517-2

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-38517-2

Comments
No additional comments.

Receipt
Sample ID - J0-2.0+21, COC list time as 1240, sample has time of 11:40, loggerd per COC.
Received sample not listed on COC- Sample ID K00*-2.5+12 @ 1110, logged and placed on hold.

All other samples were received in good condition within temperature requirements.

Detection Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Client Sample ID: G13-0.5+12 — Lab Sample ID: 720-38517-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	340		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: G13-2.0+12 — Lab Sample ID: 720-38517-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	590		1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: G12-5.0+16 — Lab Sample ID: 720-38517-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.8		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: D12-5.0+21 — Lab Sample ID: 720-38517-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.3		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: D13-0.5+21 — Lab Sample ID: 720-38517-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	31		1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: D13-2.0+21 — Lab Sample ID: 720-38517-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	61		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: F12-5.0+12 — Lab Sample ID: 720-38517-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.9		mg/Kg	4		6010B	Total/NA

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Method: 6010B - Metals (ICP)

Client Sample ID: G13-0.5+12
Date Collected: 11/02/11 08:15
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	340		2.0		mg/Kg		11/21/11 09:28	11/22/11 00:15	4

Client Sample ID: G13-2.0+12
Date Collected: 11/02/11 08:30
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	590		1.8		mg/Kg		11/21/11 09:28	11/22/11 00:20	4

Client Sample ID: G12-5.0+16
Date Collected: 11/02/11 10:00
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.8		1.9		mg/Kg		11/21/11 09:28	11/22/11 00:24	4

Client Sample ID: D12-5.0+21
Date Collected: 11/02/11 15:55
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-31
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.3		1.9		mg/Kg		11/21/11 09:28	11/22/11 00:37	4

Client Sample ID: D13-0.5+21
Date Collected: 11/03/11 08:10
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-35
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31		1.8		mg/Kg		11/21/11 09:28	11/22/11 00:41	4

Client Sample ID: D13-2.0+21
Date Collected: 11/03/11 08:20
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-36
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	61		2.0		mg/Kg		11/21/11 09:28	11/22/11 00:45	4

Client Sample ID: F12-5.0+12
Date Collected: 11/03/11 09:40
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-43
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		1.9		mg/Kg		11/21/11 09:28	11/22/11 00:49	4

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-103263/1-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		11/21/11 09:28	11/21/11 23:25	1

Lab Sample ID: LCS 720-103263/2-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	48.7		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 720-103263/3-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103263

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	47.3		mg/Kg		95	80 - 120	3	20

Lab Sample ID: LCSSRM 720-103263/25-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103263

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	181	157		mg/Kg		87	62 - 113

QC Association Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Metals

Prep Batch: 103263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-38517-13	G13-0.5+12	Total/NA	Solid	3050B	
720-38517-14	G13-2.0+12	Total/NA	Solid	3050B	
720-38517-17	G12-5.0+16	Total/NA	Solid	3050B	
720-38517-31	D12-5.0+21	Total/NA	Solid	3050B	
720-38517-35	D13-0.5+21	Total/NA	Solid	3050B	
720-38517-36	D13-2.0+21	Total/NA	Solid	3050B	
720-38517-43	F12-5.0+12	Total/NA	Solid	3050B	
LCS 720-103263/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-103263/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-103263/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-103263/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 103354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-38517-13	G13-0.5+12	Total/NA	Solid	6010B	103263
720-38517-14	G13-2.0+12	Total/NA	Solid	6010B	103263
720-38517-17	G12-5.0+16	Total/NA	Solid	6010B	103263
720-38517-31	D12-5.0+21	Total/NA	Solid	6010B	103263
720-38517-35	D13-0.5+21	Total/NA	Solid	6010B	103263
720-38517-36	D13-2.0+21	Total/NA	Solid	6010B	103263
720-38517-43	F12-5.0+12	Total/NA	Solid	6010B	103263
LCS 720-103263/2-A	Lab Control Sample	Total/NA	Solid	6010B	103263
LCSD 720-103263/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	103263
LCSSRM 720-103263/25-A	Lab Control Sample	Total/NA	Solid	6010B	103263
MB 720-103263/1-A	Method Blank	Total/NA	Solid	6010B	103263

Lab Chronicle

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Client Sample ID: G13-0.5+12

Lab Sample ID: 720-38517-13

Date Collected: 11/02/11 08:15

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:15	CAM	TAL SF

Client Sample ID: G13-2.0+12

Lab Sample ID: 720-38517-14

Date Collected: 11/02/11 08:30

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:20	CAM	TAL SF

Client Sample ID: G12-5.0+16

Lab Sample ID: 720-38517-17

Date Collected: 11/02/11 10:00

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:24	CAM	TAL SF

Client Sample ID: D12-5.0+21

Lab Sample ID: 720-38517-31

Date Collected: 11/02/11 15:55

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:37	CAM	TAL SF

Client Sample ID: D13-0.5+21

Lab Sample ID: 720-38517-35

Date Collected: 11/03/11 08:10

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:41	CAM	TAL SF

Client Sample ID: D13-2.0+21

Lab Sample ID: 720-38517-36

Date Collected: 11/03/11 08:20

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:45	CAM	TAL SF

Lab Chronicle

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Client Sample ID: F12-5.0+12
Date Collected: 11/03/11 09:40
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103263	11/21/11 09:28	JR	TAL SF
Total/NA	Analysis	6010B		4	103354	11/22/11 00:49	CAM	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-38517-13	G13-0.5+12	Solid	11/02/11 08:15	11/04/11 13:30
720-38517-14	G13-2.0+12	Solid	11/02/11 08:30	11/04/11 13:30
720-38517-17	G12-5.0+16	Solid	11/02/11 10:00	11/04/11 13:30
720-38517-31	D12-5.0+21	Solid	11/02/11 15:55	11/04/11 13:30
720-38517-35	D13-0.5+21	Solid	11/03/11 08:10	11/04/11 13:30
720-38517-36	D13-2.0+21	Solid	11/03/11 08:20	11/04/11 13:30
720-38517-43	F12-5.0+12	Solid	11/03/11 09:40	11/04/11 13:30

720-38517-2

Salimpour, Afsaneh

From: Klitzke, Tiffany [Tiffany.Klitzke@amec.com]
Sent: Tuesday, November 15, 2011 12:34 PM
To: Salimpour, Afsaneh; ETIC Labreports; Mr. Thomas Neely; Hashimoto, Yemia
Subject: RE: Files from 720-38517-1 AM-OAKGCY-02

Hi Afsaneh,
Can you please report the results for D1-A,B,C and D, and D2-W in a separate lab report?

Also, we'd like to run the following samples on hold for Lead by 6010 on a standard turnaround time:
G13-0.5+12
G13-2.0+12
G12-5.0+16
D12-5.0+21
D13-0.5+21
D13-2.0+21
F12-5.0+12

Thank you,

Tiffany Klitzke
Staff Geologist

AMEC
2101 Webster St
12th Floor
Oakland, CA 94612
direct: 510-663-4144

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Friday, November 11, 2011 4:46 PM
To: ETIC Labreports; Klitzke, Tiffany; Mr. Thomas Neely; Hashimoto, Yemia
Subject: Files from 720-38517-1 AM-OAKGCY-02

AFSANEH SALIMPOUR

TestAmerica San Francisco
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [093263]
Attachments: 2

Login Sample Receipt Checklist

Client: ETIC Engineering, Inc.

Job Number: 720-38517-2

Login Number: 38517

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38517-3
Client Project/Site: AM-OAKGCY-02

For:
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523

Attn: Mr. Thomas Neely

Authorized for release by:
12/1/2011 1:58:12 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-38517-3

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-38517-3

Comments
No additional comments.

Receipt
Sample ID - J0-2.0+21, COC list time as 1240, sample has time of 11:40, loggerd per COC.
Received sample not listed on COC- Sample ID K00*-2.5+12 @ 1110, logged and placed on hold.

All other samples were received in good condition within temperature requirements.

Metals
No other analytical or quality issues were noted.

Detection Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Client Sample ID: E13-0.5+12 — Lab Sample ID: 720-38517-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	25		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: G14-0.5+14 — Lab Sample ID: 720-38517-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	47		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: G14-2.0+14 — Lab Sample ID: 720-38517-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	51		1.9		mg/Kg	4		6010B	Total/NA

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Method: 6010B - Metals (ICP)

Client Sample ID: E13-0.5+12
Date Collected: 11/03/11 08:40
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-38
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		2.0		mg/Kg		11/29/11 16:57	11/30/11 21:33	4

Client Sample ID: G14-0.5+14
Date Collected: 11/03/11 10:30
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-44
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	47		1.9		mg/Kg		11/29/11 16:57	11/30/11 21:37	4

Client Sample ID: G14-2.0+14
Date Collected: 11/03/11 10:40
Date Received: 11/04/11 13:30

Lab Sample ID: 720-38517-45
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	51		1.9		mg/Kg		11/29/11 16:57	11/30/11 21:41	4

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-103638/1-A
Matrix: Solid
Analysis Batch: 103741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		11/29/11 16:57	11/30/11 21:04	1

Lab Sample ID: LCS 720-103638/2-A
Matrix: Solid
Analysis Batch: 103741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103638

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	51.6		mg/Kg		103	80 - 120		

Lab Sample ID: LCSD 720-103638/3-A
Matrix: Solid
Analysis Batch: 103741

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103638

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	51.6		mg/Kg		103	80 - 120	0	20

QC Association Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Metals

Prep Batch: 103638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-38517-38	E13-0.5+12	Total/NA	Solid	3050B	
720-38517-44	G14-0.5+14	Total/NA	Solid	3050B	
720-38517-45	G14-2.0+14	Total/NA	Solid	3050B	
LCS 720-103638/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-103638/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-103638/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 103741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-38517-38	E13-0.5+12	Total/NA	Solid	6010B	103638
720-38517-44	G14-0.5+14	Total/NA	Solid	6010B	103638
720-38517-45	G14-2.0+14	Total/NA	Solid	6010B	103638
LCS 720-103638/2-A	Lab Control Sample	Total/NA	Solid	6010B	103638
LCSD 720-103638/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	103638
MB 720-103638/1-A	Method Blank	Total/NA	Solid	6010B	103638

Lab Chronicle

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Client Sample ID: E13-0.5+12

Lab Sample ID: 720-38517-38

Date Collected: 11/03/11 08:40

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103638	11/29/11 16:57	SK	TAL SF
Total/NA	Analysis	6010B		4	103741	11/30/11 21:33	BA	TAL SF

Client Sample ID: G14-0.5+14

Lab Sample ID: 720-38517-44

Date Collected: 11/03/11 10:30

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103638	11/29/11 16:57	SK	TAL SF
Total/NA	Analysis	6010B		4	103741	11/30/11 21:37	BA	TAL SF

Client Sample ID: G14-2.0+14

Lab Sample ID: 720-38517-45

Date Collected: 11/03/11 10:40

Matrix: Solid

Date Received: 11/04/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103638	11/29/11 16:57	SK	TAL SF
Total/NA	Analysis	6010B		4	103741	11/30/11 21:41	BA	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: ETIC Engineering, Inc.
Project/Site: AM-OAKGCY-02

TestAmerica Job ID: 720-38517-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-38517-38	E13-0.5+12	Solid	11/03/11 08:40	11/04/11 13:30
720-38517-44	G14-0.5+14	Solid	11/03/11 10:30	11/04/11 13:30
720-38517-45	G14-2.0+14	Solid	11/03/11 10:40	11/04/11 13:30

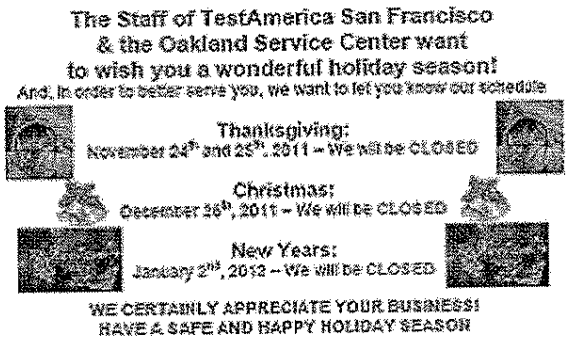
Mullen, Joan 720-38517-3

From: Salimpour, Afsaneh
Sent: Thursday, December 01, 2011 12:49 PM
To: Mullen, Joan
Subject: FW: Files from 720-38517-2 AM-OAKGCY-02
Importance: High

Please scan this email to job # 720-38517-3.

AFSANEH SALIMPOUR
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
1220 Quarry Lane
Pleasanton, CA 94566
Tel 925.484.1919 | Fax 925.600.3002
www.testamericainc.com



-----Original Message-----
From: Klitzke, Tiffany [mailto:Tiffany.Klitzke@amec.com]
Sent: Tuesday, November 22, 2011 3:44 PM
To: Salimpour, Afsaneh; ETIC Labreports; Mr. Thomas Neely
Subject: RE: Files from 720-38517-2 AM-OAKGCY-02

Hi Afsaneh,
I would like to analyze the following samples on hold for lead with a standard turnaround time:
G14-0.5+14
G14-2.0+14
E13-0.5+12

Thanks,

Tiffany Klitzke
Staff Geologist

AMEC
2101 Webster St
12th Floor
Oakland, CA 94612
direct: 510-663-4144

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Tuesday, November 22, 2011 3:11 PM
To: ETIC Labreports; Klitzke, Tiffany; Mr. Thomas Neely

Login Sample Receipt Checklist

Client: ETIC Engineering, Inc.

Job Number: 720-38517-3

Login Number: 38517

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	