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Prepared For

DEPARTMENT OF THE NAVY
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DATA SUMMARY REPORT
SITE 25 REMEDIAL INVESTIGATION
ALAMEDA POINT, ALAMEDA, CALIFORNIA

January 29, 1999

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Encl: (1) Data Summary Report Site 25 Remedial Investigation Alameda Point, Alameda, California, 29 January 1999

1. Enclosure (1) is forwarded for your information. The document summarizes the findings of the Site 25 field investigation conducted in October and November of 1998.

2. If you have any questions regarding this document, please contact me at (650) 244-2520, FAX (650) 244-2774.

PATRICIA McFADDEN
By direction

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Appendix

LITHOLOGIC BORING LOGS

ABBREVIATIONS AND ACRONYMS

APCL	Applied Physics and Chemistry Laboratory
BTEX	Benzene, toluene, ethylbenzene, and xylenes
bgs	Below ground surface
CLP	Contract Laboratory Program
DQO	Data quality objective
EPA	U.S. Environmental Protection Agency
FSP	Field Sampling Plan
HHRA	Human health risk assessment
mg/L	Milligrams per Liter
PAH	Polynuclear aromatic hydrocarbon
PCB	Poly-chlorinated biphenyl
RI/FS	Remedial Investigation/Feasibility Study
SVOC	Semi-volatile organic compound
TtEMI	Tetra Tech EM Inc.
TPH	Total petroleum hydrocarbons
µg/L	Micrograms per Liter
VOC	Volatile organic compound

1.0 INTRODUCTION

This data summary report was prepared to report the data collected from Site 25 in response to the *Field Sampling Plan* (FSP), *Site 14 Groundwater Investigation and Site 25 Remedial Investigation, Alameda Point, Alameda, California*, prepared by Tetra Tech EM Inc. (TtEMI) in October 1998 (TtEMI 1998). Field sampling was performed at Site 25 from October 19 to October 26, 1998.

1.1 PURPOSE

The purpose of the remedial investigation at Site 25 was to evaluate (1) the nature and extent of potential soil and groundwater contamination and (2) the potential risk to human health due to potential polynuclear aromatic hydrocarbon (PAH) contamination identified in soil samples collected during previous investigations. The Site 25 data will be included in the remedial investigation/feasibility study (RI/FS) report for Operable Unit-2. The human health risk assessment will also be presented in the OU-2 RI/FS report.

This data summary report includes the data and a preliminary evaluation of the nature and extent of potential soil and groundwater contamination.

1.2 SITE DESCRIPTION AND HISTORY

Site 25 is an irregularly shaped area located in the northeast of Alameda Point. Site 25 is bordered by residential areas to the south, railroad tracks and the Alameda Facility/Alameda Annex of the Fleet and Industrial Supply Center, Oakland to the north and east, and Todd Shipyard to the west.

Until the 1920s, the general area of Site 25 existed as undeveloped marshlands and tidal flats along the San Francisco Bay fringe. The area to the south was the location of major industrial operations, including an oil refinery, an asphalt pipe manufacturing plant, a soap company, a carriage factory, and other manufacturing businesses. Hazardous or toxic substances may have been released from these operations and transported by surface waters to the marshlands in the Site 25 area, particularly along tidal channels. Between 1925 and 1927, the undeveloped marshlands and tidal channels underlying Site 25 and the surrounding areas were filled with sand

and clay material reportedly dredged from nearby historic tidal flats, the Oakland Inner Harbor, and San Francisco Bay. No information is available on the condition or operations of Site 25 between 1927 and 1947. Housing barracks were constructed at Site 25 in 1947 and were demolished between 1966 and 1970.

1.3 SITE GEOLOGY AND HYDROGEOLOGY

Site 25 consists of fill material to a depth of approximately 10 to 12 feet below ground surface (bgs). Fill material is present throughout Site 25 and overlies naturally deposited materials. The fill material contains various soils, including sand, silt, and clay, as well as some debris. The soil samples collected during this investigation were within the fill material. Boring logs and a cross section were prepared from observations of the soil conditions conducted during the soil sampling. Figure 2 presents the cross section prepared using information from the 10 foot deep boring logs. The boring logs are presented in Appendix A.

The site does not consist of a continuous layer of artificial fill. Rather, the fill across the site appears to be from multiple sources and of multiple types. The silt, silty sand, and fine sand are likely redistributed marsh sediments originally deposited in the Site 25 area, and placed when the area was first developed. Roadbase type fill is likely the only fill brought in from a distance. During sampling, no hydrocarbon staining was identified in the soil cores collected from the soil borings.

Groundwater beneath Site 25 occurs in the shallow fill material, which constitutes the first water bearing zone, and in the deeper Merritt Sand Formation, which constitutes the second water bearing zone. In between the water bearing zones are the bay sediments. Groundwater was observed in several borings in the first sand lens below seven feet bgs. There is some indication of periodic water saturation (rust colored staining) in the area between 3 to 5 feet bgs (see boring logs in Appendix A).

1.4 PREVIOUS INVESTIGATIONS

During the environmental baseline survey investigations, samples were collected from surface soil, subsurface soil, groundwater, and soil gas (IT Corporation [IT] 1997). Results indicated elevated concentrations of PAHs and total petroleum hydrocarbons (TPH)-motor oil in surface

soil, sub-surface soil, and groundwater (IT 1997). Elevated concentrations of metals, polychlorinated biphenyls (PCB), and volatile organic compounds (VOC) were not identified (IT 1997). The extent of PAH and motor-oil contamination was not defined by the previous investigations.

2.0 SAMPLING AND ANALYSIS PROGRAM

The sampling and analysis program was outlined in the FSP, prepared by TtEMI in October 1998 (TtEMI 1998).

2.1 DATA QUALITY OBJECTIVES

The data quality objectives (DQO) for Site 25 were identified as follows: (1) adequately characterize suspected chemical contamination at the site; (2) identify potential hot spots; and (3) perform an human health risk assessment (HHRA). To meet these DQOs, definitive data was collected for Site 25. The collection of samples and generation of definitive data are discussed in the following subsections.

2.2 SAMPLING PROGRAM

The sampling program involved the collection of soil samples and groundwater samples from the soil boring locations. The boring locations were selected based on a modified grid. The placement of the sampling locations was (1) to cover the entire site, (2) to contain locations both inside and outside the former barracks buildings on the site, and (3) to provide estimates of chemical occurrence and concentrations to calculate exposure concentrations for risk assessment purposes. Figure 1 shows the locations of the soil borings.

A total of 90 soil samples were collected from 35 soil borings. Soil samples were collected at 1 foot (directly beneath the grass root zone) and 7 feet bgs in the 35 borings. Additional soil samples were collected from 4 feet and 10 feet bgs in ten of the 35 borings. Table 1 identifies the soil samples and depths of samples collected. Soil samples were collected using a direct-push continuous coring method of sample retrieval. After each core was retrieved, the resulting sample was removed and packaged for shipment to the analytical laboratory. Lithologic boring logs from the 10 soil boring locations where the 1 foot, 4 foot, 7 foot, and 10 foot bgs samples

were collected were used to create geologic cross sections (see Figure 2) and are included in Appendix A.

Groundwater samples were collected from the same 10 soil boring locations where the 1 foot, 4 foot, 7 foot, and 10 foot bgs samples were collected. Groundwater samples were collected using a screen point sampling device and peristaltic pump to collect the groundwater samples from a discrete depth at each location.

2.3 LABORATORY ANALYSIS PROGRAM

Soil samples collected at Site 25 were shipped under chain-of-custody to Applied Physics and Chemistry Laboratory (APCL) in Chino, California for analysis of PAHs by Contract Laboratory Program (CLP) SOW OLM03.1 (U.S. Environmental Protection Agency [EPA] 1994); diesel and motor oil by TPH-extractable (SW-846 Method 8015 Modified); gasoline by TPH-purgeable (SW-846 Method 8015 Modified); and benzene, toluene, ethylbenzene, and xylenes (BTEX) by SW-846 Method 8021 (EPA 1986). In addition, some of the samples were reanalyzed for PAHs using SW-846 Method 8270 Modified, which achieves lower detection limits.

Groundwater samples collected from Site 25 were shipped under chain-of-custody to APCL for analysis for BTEX or CLP VOCs, CLP semi-volatile organic compounds (SVOC), and TPH-purgeables and extractables characterized for gasoline, diesel, and motor oil. Four of the ten groundwater samples were analyzed for CLP VOC; the remaining groundwater samples were analyzed for BTEX. Table 1 indicates which analyses were performed on each sample.

3.0 CHEMICAL ANALYSIS RESULTS

The chemical analysis results for both soil and groundwater sample analysis are briefly discussed in this section. Table 2 is a summary of detected concentrations including the number of samples with detected concentrations, the minimum and maximum detected concentrations and the mean concentration for each chemical. Tables 3 and 4 summarize the laboratory analysis data from the Site 25 investigation for soil and groundwater, respectively. Figures 3 through 19 graphically display the analytical data, chemical concentration contours, where appropriate, and the EPA Region IX Residential Soil Preliminary Remediation Goals (EPA 1998) for each chemical where available.

4.0 DATA SUMMARY

Based on the laboratory analysis data, the following summary statements are made about the nature and extent of soil and groundwater contamination at Site 25:

- PAHs and TPH-motor oil were widely detected throughout the upper 7 feet of soil at the site.

- PAH and TPH-motor oil concentrations in soil do not follow a "plume pattern," but appear to be randomly distributed.

- PAHs were detected in groundwater samples at low concentrations (less than 10 micrograms per liter [μg/L]). However, the maximum detected concentrations of 270 μg/L of acenaphthene and 150 μg/L of phenanthrene were from groundwater sample S25-SB22-HP. Carbazole was also detected at a maximum concentration of 280 μg/L in groundwater sample S25-SB22-HP

- TPH-diesel and -gasoline were detected at low concentrations (less than 0.5 milligrams per liter [mg/L]) in groundwater at Site 25. However, the maximum detected concentration of 4.7 mg/L of TPH-diesel was detected in groundwater sample S25-S22-HP.

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EPA. 1998. Letter containing U.S. EPA Region IX Preliminary Remediation Goals (PRG). From Stanford J. Smucker, Ph.D. March.

TABLES

TABLE 1

SITE 25 SUMMARY OF SAMPLING AND ANALYSIS

Alameda Point

Location ID	Sample Type	Depth Range (ft. bgs)	VOCs	TPPH	BTEX	SVOCs (PAH)	TEPH
S25-SB-1-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-1-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-1-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-1-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-2-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-2-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-3-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-3-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-4-1	soil	1.75 - 2.25		x	x	x	x
S25-SB-4-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-4-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-4-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-5-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-5-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-6-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-6-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-7-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-7-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-8-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-8-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-9-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-9-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-10-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-10-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-10-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-10-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-11-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-11-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-12-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-12-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-13-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-13-7	soil	6.5 - 7.0		x	x	x	x

TABLE 1 (Continued)

SITE 25 SUMMARY OF SAMPLING AND ANALYSIS

Alameda Point

Location ID	Sample Type	Depth Range (ft. bgs)	VOCs	TPPH	BTEX	SVOCs (PAH)	TEPH
S25-SB-14-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-14-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-14-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-14-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-15-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-15-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-16-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-16-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-16-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-16-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-17-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-17-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-18-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-18-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-19-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-19-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-20-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-20-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-21-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-21-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-22-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-22-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-22-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-22-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-23-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-23-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-24-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-24-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-24-7	soil	7.0 - 7.5		x	x	x	x
S25-SB-24-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-25-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-25-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-26-1	soil	0.5 - 1.0		x	x	x	x

TABLE 1 (Continued)

SITE 25 SUMMARY OF SAMPLING AND ANALYSIS

Alameda Point

Location ID	Sample Type	Depth Range (ft. bgs)	VOCs	TPPH	BTEX	SVOCs (PAH)	TEPH
S25-SB-26-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-27-1	soil	0.5 - 1.0		x	x	x	x
S25-SB27-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-28-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-28-4	soil	4.0 - 4.5		x	x	x	x
S25-SB-28-7	soil	7.0 - 7.5		x	x	x	x
S25-SB-28-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-29-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-29-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-30-1	soil	1.5 - 2.0		x	x	x	x
S25-SB-30-4	soil	3.5 - 4.0		x	x	x	x
S25-SB-30-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-30-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-31-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-31-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-32-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-32-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-33-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-33-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-34-1	soil	1.0 - 1.5		x	x	x	x
S25-SB-34-4	soil	4.0 - 4.5		x	x	x	x
S25-SB-34-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-34-10	soil	9.5 - 10.0		x	x	x	x
S25-SB-35-1	soil	0.5 - 1.0		x	x	x	x
S25-SB-35-7	soil	6.5 - 7.0		x	x	x	x
S25-SB-1	water	8.0 - 10.0	x	x		x	x
S25-SB-4	water	8.0 - 10.0		x	x	x	x
S25-SB-10	water	8.0 - 10.0		x	x	x	x
S25-SB-14	water	8.0 - 10.0	x	x		x	x
S25-SB-16	water	8.0 - 10.0		x	x	x	x
S25-SB-22	water	7.5 - 9.5		x	x	x	x
S25-SB-24	water	7.5 - 9.5	x	x		x	x
S25-SB-28	water	7.5 - 9.5		x	x	x	x

TABLE 1 (Continued)

SITE 25 SUMMARY OF SAMPLING AND ANALYSIS

Alameda Point

Location ID	Sample Type	Depth Range (ft. bgs)	VOCs	TPPH	BTEX	SVOCs (PAH)	TEPH
S25-SB-30	water	7.5 - 9.5	x	x		x	x
S25-SB-30DUP	water	7.5 - 9.5	x	x		x	x
S25-SB-34	water	10.0 - 12.0		x	x	x	x
Field QC Samples							
ER-1	water	NA		x	x	x	x
ER-2	water	NA		x	x	x	x
ER-3	water	NA		x	x	x	x

Notes:

BTEX = Benzene, Toluene, Ethylbenzene, Xylene

ER = Equipment Blank

NA = Not Applicable

PAH = Polyaromatic Hydrocarbons

QC = Quality Control

SVOCs = Semi-volatile Organic Compounds

TB = Trip Blank

TEPH = Total Extractable Petroleum Hydrocarbons

TPPH = Total Purgeable Petroleum Hydrocarbons

VOCs = Volatile Organic Compounds

TABL

SUMMARY OF SOIL AND GROUNDWATER DETECTED DATA
SITE 25 REMEDIAL INVESTIGATION ALAMEDA POINT
ALAMEDA, CALIFORNIA

PARAMETER	Total Samples Analyzed	Number of Valid Results[1]	Number of Detects	Minimum Detected Conc.	Maximum Detected Conc.	Mean Detected Concentration	Minimum Reporting Limit	Maximum Reporting Limit
PAHs in Soil				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acenaphthene	90	79	41	4.5	94,000	4,900	2.8	90,000
Acenaphthalene	90	83	60	3.3	87,000	4,100	2.7	90,000
Anthracene	90	82	59	5.0	120,000	7,200	2.7	90,000
Benzo(a)anthracene	90	85	82	5.0	150,000	9,900	2.8	90,000
Benzo(a)pyrene	90	89	88	4.6	210,000	15,000	2.7	90,000
Benzo(b)fluoranthene	90	88	87	3.8	180,000	14,000	2.8	90,000
Benzo(g,h,i)perylene	90	89	86	5.0	77,000	6,800	2.7	90,000
Benzo(k)fluoranthene	90	86	82	6.8	66,000	5,000	2.8	90,000
Chrysene	90	85	83	5.0	170,000	11,000	2.8	90,000
Dibenzo(a,h)anthracene	90	78	40	15	9,100	1,100	36	90,000
Fluoranthene	90	90	89	3.3	500,000	31,000	2.7	90,000
Fluorene	90	80	28	3.0	17,000	1,500	2.8	90,000
Indeno(1,2,3-cd)pyrene	90	89	86	3.4	80,000	6,100	2.7	90,000
Naphthalene	90	83	51	4.2	45,000	1,800	2.7	90,000
Phenanthrene	90	88	83	4.6	380,000	16,000	2.7	90,000
Pyrene	90	90	89	4.2	560,000	36,000	2.7	90,000
TPH in Soil				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline Range Hydrocarbons	55	55	3	0.6	14	5.2	0.52	3.6
Diesel Range Hydrocarbons	90	90	2	9.0	730	370	10	390
Motor Oil Range Hydrocarbons	90	90	78	8.0	11,000	570	10	390
BTEX and MTBE in Soil				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Benzene	55	55	2	5.6	14	9.8	0.52	3.6
Toluene	55	55	10	1.0	83	11	0.52	3.6
Ethylbenzene	55	55	4	5.0	81	30	0.52	3.6
Total Xylenes	55	55	46	1.0	146	7.7	1.0	7.2
MTBE	55	55	6	14	51	25	26	180

Notes: 1 Number of valid results equals total number of sampes analyzed for the specified parameter minus the number of rejected results for that parameter.

PAH Polynuclear Aromatic Hydrocarbon
TPH Total Petroleum Hydrocarbons
ug/kg microgram per kilogram
BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes
MTBE Methyl-tertiary-butyl-ether
mg/kg milligram per kilogram

TABLE 2 inued)
SUMMARY OF SOIL AND GROUNDWATER DETECTED DATA
SITE 25 REMEDIAL INVESTIGATION ALAMEDA POINT
ALAMEDA, CALIFORNIA

PARAMETER	Total Samples Analyzed	Number of Valid Results[1]	Number of Detects	Minimum Detected Conc.	Maximum Detected Conc.	Mean Concentration	Minimum Reporting Limit	Maximum Reporting Limit
SVOCs in Groundwater				ug/L	ug/L	ug/L	ug/L	ug/L
1,4-Dichlorobenzene	10	10	1	0.2	0.2	0.2	1.0	40
2,4-Dichlorophenol	10	10	2	0.2	0.2	0.2	1.0	40
2-Methylnaphthalene	10	10	1	54	54	54	1.0	40
Acenaphthene	10	10	7	0.5	270	41	1.0	40
Acenaphthylene	10	10	4	0.2	6.0	2.9	1.0	40
Anthracene	10	10	5	0.6	22	5.7	1.0	40
Benzo(a)anthracene	10	10	5	0.3	9.0	3.1	1.0	40
Benzo(a)pyrene	10	10	5	0.3	12	4.4	1.0	40
Benzo(b)fluoranthene	10	10	5	0.4	8.0	3.1	1.0	40
Benzo(g,h,i)perylene	10	10	4	0.3	4.0	1.5	1.0	40
Benzo(k)fluoranthene	10	10	2	1.0	3.0	2.0	1.0	40
Carbazole	10	10	3	0.2	280	94	1.0	40
Chrysene	10	10	5	0.3	14	4.7	1.0	40
Fluoranthene	10	10	5	0.4	43	12	1.0	40
Fluorene	10	10	3	0.7	52	18	1.0	40
Indeno(1,2,3-cd)pyrene	10	10	3	0.5	3.0	1.4	1.0	40
Naphthalene	10	10	4	0.3	10	3.8	1.0	40
Phenanthrene	10	10	6	0.2	150	26	1.0	40
Pyrene	10	10	6	0.4	41	9.7	1.0	40
TPH in Groundwater				mg/L	mg/L	mg/L	mg/L	mg/L
Gasoline Range Hydrocarbons	10	10	1	0.21	0.21	0.21	0.05	0.05
Diesel Range Hydrocarbons	10	10	3	0.08	4.7	1.7	0.1	0.1
VOCs in Groundwater				ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	10	10	2	0.5	28	14	0.5	0.5
Toluene	10	10	1	1.9	1.9	1.9	0.5	2.0
Ethylbenzene	10	10	2	38	0.8	20	0.5	0.5
Total Xylenes	10	10	1	10	10	10	1.0	10
Carbon Disulfide	4	4	1	2.0	2.0	2.0	2.0	2.0

Notes: 1 Number of valid results equals total number of sampes analyzed for the specified parameter minus the number of rejected results for that parameter.

SVOC	Semi-volatile organic compound	VOC	Volatile organic Compound
TPH	Total Petroleum Hydrocarbons	MTBE	Methyl-tertiary-butyl-ether
ug/L	microgram per liter	n/a	not applicable
mg/L	milligram per liter		

Table 3

ALAMEDA CTO 122
SITE 25
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-001	CLP SVOA	ACENAPHTHENE	1700 UG/KG	U	
ALP01		ACENAPHTHYLENE	150 UG/KG	J	g
S25-SB01-1		ANTHRACENE	140 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	800 UG/KG	J	g
		BENZO(A)PYRENE	1400 UG/KG	J	g
		BENZO(B)FLUORANTHENE	1700 UG/KG		
		BENZO(G,H,I)PERYLENE	820 UG/KG	J	f,g
		BENZO(K)FLUORANTHENE	480 UG/KG	J	g
		CHRYSENE	990 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	1700 UG/KG	U	
		FLUORANTHENE	2000 UG/KG		
		FLUORENE	1700 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	700 UG/KG	J	f,g
		NAPHTHALENE	1700 UG/KG	U	
		PHENANTHRENE	860 UG/KG	J	g
		PYRENE	3000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	65 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	350 MG/KG		
	PH	PH	5.15	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	22.5 %MST		
122-S25-002	AROMATIC VOLATILES	BENZENE	0.75 UG/KG	U	
ALP01		ETHYLBENZENE	0.75 UG/KG	U	
S25-SB01-4		METHYL-T-BUTYL ETHER (MTBE)	37 UG/KG	U	
3.50 - 4.00		TOLUENE	0.75 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	ACENAPHTHENE	490 UG/KG	U	
		ACENAPHTHYLENE	490 UG/KG	U	
		ANTHRACENE	490 UG/KG	U	
		BENZO(A)ANTHRACENE	490 UG/KG	U	
		BENZO(A)PYRENE	54 UG/KG	J	g
		BENZO(B)FLUORANTHENE	61 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	85 UG/KG	J	g
		BENZO(K)FLUORANTHENE	490 UG/KG	U	
		CHRYSENE	40 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	490 UG/KG	U	
		FLUORANTHENE	63 UG/KG	J	g
		FLUORENE	490 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	54 UG/KG	J	g
		NAPHTHALENE	490 UG/KG	U	
		PHENANTHRENE	490 UG/KG	U	
		PYRENE	82 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	15 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	40 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.75 MG/KG	U	
	PH	PH	5.42	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	33.2 %MST		
122-S25-003	AROMATIC VOLATILES	BENZENE	0.82 UG/KG	U	
ALP01		ETHYLBENZENE	0.82 UG/KG	U	
S25-SB01-7		METHYL-T-BUTYL ETHER (MTBE)	41 UG/KG	U	
6.50 - 7.00		TOLUENE	0.82 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	2-METHYLNAPHTHALENE	4.1 UG/KG	R	h
		ACENAPHTHENE	4.1 UG/KG	R	h
		ACENAPHTHYLENE	4.1 UG/KG	R	h
		ANTHRACENE	4.1 UG/KG	R	h
		BENZ(A)ANTHRACENE	24 UG/KG	J	h
		BENZO(A)PYRENE	48 UG/KG	J	h

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-003	CLP SVOA	BENZO(B)FLUORANTHENE	52 UG/KG	J	h
ALP20		BENZO(G,H,I)PERYLENE	53 UG/KG	J	h
S25-SB01-7		BENZO(K)FLUORANTHENE	13 UG/KG	J	h
6.50 - 7.00		CHRYSENE	32 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	4.1 UG/KG	R	h
		FLUORANTHENE	58 UG/KG	J	h
		FLUORENE	4.1 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	35 UG/KG	J	h
		NAPHTHALENE	7.2 UG/KG	J	h
		PHENANTHRENE	9.4 UG/KG	J	h
		PYRENE	69 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	93 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.82 MG/KG	U	
	PH	PH	6.22	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	39.4 %MST		
122-S25-004	AROMATIC VOLATILES	BENZENE	0.86 UG/KG	U	
ALP01		ETHYLBENZENE	0.86 UG/KG	U	
S25-SB01-10		METHYL-T-BUTYL ETHER (MTBE)	43 UG/KG	U	
9.50 - 10.00		TOLUENE	0.86 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	ACENAPHTHENE	4600 UG/KG	U	
		ACENAPHTHYLENE	520 UG/KG	J	g
		ANTHRACENE	1200 UG/KG	J	g
		BENZO(A)ANTHRACENE	2500 UG/KG	J	g
		BENZO(A)PYRENE	3600 UG/KG	J	g
		BENZO(B)FLUORANTHENE	2900 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	3000 UG/KG	J	f,g
		BENZO(K)FLUORANTHENE	810 UG/KG	J	g
		CHRYSENE	2800 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	4600 UG/KG	U	
		FLUORANTHENE	6900 UG/KG		
		FLUORENE	4600 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	2100 UG/KG	J	f,g
		NAPHTHALENE	4600 UG/KG	U	
		PHENANTHRENE	840 UG/KG	J	g
		PYRENE	8100 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	17 MG/KG	UJ	c
		MOTOR OIL RANGE ORGANICS	270 MG/KG	J	c,y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.86 MG/KG	U	
	PH	PH	8.33	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	42.1 %MST		
122-S25-005	CLP SVOA	2-METHYLNAPHTHALENE	110 UG/KG	R	h
ALP20		ACENAPHTHENE	110 UG/KG	R	h
S25-SB02-1		ACENAPHTHYLENE	110 UG/KG	R	h
0.50 - 1.00		ANTHRACENE	110 UG/KG	R	h
		BENZ(A)ANTHRACENE	500 UG/KG	J	h
		BENZO(A)PYRENE	650 UG/KG	J	e,h
		BENZO(B)FLUORANTHENE	1300 UG/KG	J	e,h
		BENZO(G,H,I)PERYLENE	280 UG/KG	J	e,h
		BENZO(K)FLUORANTHENE	340 UG/KG	J	e,h
		CHRYSENE	610 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	110 UG/KG	R	h
		FLUORANTHENE	1200 UG/KG	J	h
		FLUORENE	110 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	250 UG/KG	J	e,h
		NAPHTHALENE	110 UG/KG	R	h

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
- a - Surrogate recovery problem
- b - Blank contamination problems
- c - Matrix spike recovery problems
- d - Duplicate (precision) problems
- e - Internal standard problems
- f - Calibration problems
- g - Quantification below reporting limit
- h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-005	CLP SVOA	PHENANTHRENE	500 UG/KG	J	h
ALP20		PYRENE	1600 UG/KG	J	h
S25-SB02-1	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	110 MG/KG	U	
0.50 - 1.00		MOTOR OIL RANGE ORGANICS	540 MG/KG		
	PH	PH	7.92	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	6.5 %MST		
122-S25-006	AROMATIC VOLATILES	BENZENE	0.80 UG/KG	U	
ALP06		ETHYLBENZENE	0.96 UG/KG	U	
S25-SB02-7		METHYL-T-BUTYL ETHER (MTBE)	40 UG/KG	U	
6.50 - 7.00		TOLUENE	0.80 UG/KG	U	
		XYLENE (TOTAL)	1.6 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	210 UG/KG	U	
		ACENAPHTHYLENE	210 UG/KG	U	
		ANTHRACENE	210 UG/KG	U	
		BENZO(A)ANTHRACENE	79 UG/KG	J	g
		BENZO(A)PYRENE	150 UG/KG	J	g
		BENZO(B)FLUORANTHENE	150 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	85 UG/KG	J	g
		BENZO(K)FLUORANTHENE	59 UG/KG	J	g
		CHRYSENE	110 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	210 UG/KG	U	
		FLUORANTHENE	160 UG/KG	J	g
		FLUORENE	210 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	74 UG/KG	J	g
		NAPHTHALENE	210 UG/KG	U	
		PHENANTHRENE	42 UG/KG	J	g
		PYRENE	270 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	8 MG/KG	J	g,z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.80 MG/KG	U	
	PH	PH	6.53	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	37.6 %MST		
122-S25-007	CLP SVOA	ACENAPHTHENE	830 UG/KG	U	
ALP06		ACENAPHTHYLENE	95 UG/KG	J	g
S25-SB03-1		ANTHRACENE	90 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	1100 UG/KG		
		BENZO(A)PYRENE	2400 UG/KG		
		BENZO(B)FLUORANTHENE	3500 UG/KG		
		BENZO(G,H,I)PERYLENE	3700 UG/KG		
		BENZO(K)FLUORANTHENE	960 UG/KG		
		CHRYSENE	1700 UG/KG		
		DIBENZ(A,H)ANTHRACENE	370 UG/KG	J	g
		FLUORANTHENE	3100 UG/KG		
		FLUORENE	830 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	3200 UG/KG		
		NAPHTHALENE	120 UG/KG	J	g
		PHENANTHRENE	670 UG/KG	J	g
		PYRENE	3600 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	13 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	65 MG/KG	J	y
	PH	PH	6.99	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	20.5 %MST		
122-S25-008	AROMATIC VOLATILES	BENZENE	0.69 UG/KG	U	
ALP06		ETHYLBENZENE	0.83 UG/KG	U	
S25-SB03-7		METHYL-T-BUTYL ETHER (MTBE)	35 UG/KG	U	
6.50 - 7.00		TOLUENE	0.69 UG/KG	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
- a - Surrogate recovery problem
- b - Blank contamination problems
- c - Matrix spike recovery problems
- d - Duplicate (precision) problems
- e - Internal standard problems
- f - Calibration problems
- g - Quantification below reporting limit
- h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-008	AROMATIC VOLATILES	XYLENE (TOTAL)	1.4 UG/KG	U	
ALP06	CLP SVOA	ACENAPHTHENE	46 UG/KG	U	
S25-SB03-7		ACENAPHTHYLENE	46 UG/KG	U	
6.50 - 7.00		ANTHRACENE	46 UG/KG	U	
		BENZO(A)ANTHRACENE	15 UG/KG	J	g
		BENZO(A)PYRENE	14 UG/KG	J	g
		BENZO(B)FLUORANTHENE	29 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	28 UG/KG	J	g
		BENZO(K)FLUORANTHENE	7 UG/KG	J	g
		CHRYSENE	21 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	46 UG/KG	U	
		FLUORANTHENE	47 UG/KG		
		FLUORENE	46 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	22 UG/KG	J	g
		NAPHTHALENE	46 UG/KG	U	
		PHENANTHRENE	17 UG/KG	J	g
		PYRENE	57 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	14 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	21 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.69 MG/KG	U	
	PH	PH	6.37	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	27.7 %MST		
122-S25-009	CLP SVOA	ACENAPHTHENE	380 UG/KG	U	
ALP01		ACENAPHTHYLENE	380 UG/KG	U	
S25-SB04-2		ANTHRACENE	380 UG/KG	U	
1.75 - 2.25		BENZO(A)ANTHRACENE	140 UG/KG	J	g
		BENZO(A)PYRENE	310 UG/KG	J	g
		BENZO(B)FLUORANTHENE	500 UG/KG		
		BENZO(G,H,I)PERYLENE	270 UG/KG	J	g
		BENZO(K)FLUORANTHENE	530 UG/KG		
		CHRYSENE	260 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	28 UG/KG	J	g
		FLUORANTHENE	400 UG/KG		
		FLUORENE	380 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	220 UG/KG	J	g
		NAPHTHALENE	380 UG/KG	U	
		PHENANTHRENE	110 UG/KG	J	g
		PYRENE	510 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	95 MG/KG		
	PH	PH	6.61	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	12.8 %MST		
122-S25-010	AROMATIC VOLATILES	BENZENE	0.57 UG/KG	U	
ALP01		ETHYLBENZENE	0.57 UG/KG	U	
S25-SB04-4		METHYL-T-BUTYL ETHER (MTBE)	28 UG/KG	U	
3.50 - 4.00		TOLUENE	1 UG/KG		
		XYLENE (TOTAL)	3.1 UG/KG		
	CLP SVOA	ACENAPHTHENE	1500 UG/KG	U	
		ACENAPHTHYLENE	1500 UG/KG	U	
		ANTHRACENE	1500 UG/KG	U	
		BENZO(A)ANTHRACENE	260 UG/KG	J	g
		BENZO(A)PYRENE	390 UG/KG	J	g
		BENZO(B)FLUORANTHENE	500 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	330 UG/KG	J	f,g
		BENZO(K)FLUORANTHENE	530 UG/KG	J	g
		CHRYSENE	290 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	1500 UG/KG	U	

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-010	CLP SVOA	FLUORANTHENE	460 UG/KG	J	g
ALP01		FLUORENE	1500 UG/KG	U	
S25-SB04-4		INDENO(1,2,3-CD)PYRENE	300 UG/KG	J	f,g
3.50 - 4.00		NAPHTHALENE	1500 UG/KG	U	
		PHENANTHRENE	130 UG/KG	J	g
		PYRENE	640 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	170 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.57 MG/KG	U	
	PH	PH	6.81	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	11.7 %MST		
122-S25-011	AROMATIC VOLATILES	BENZENE	0.75 UG/KG	U	
ALP01		ETHYLBENZENE	0.75 UG/KG	U	
S25-SB04-7		METHYL-T-BUTYL ETHER (MTBE)	38 UG/KG	U	
6.50 - 7.00		TOLUENE	0.75 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	ACENAPHTHENE	500 UG/KG	U	
		ACENAPHTHYLENE	500 UG/KG	U	
		ANTHRACENE	500 UG/KG	U	
		BENZO(A)ANTHRACENE	140 UG/KG	J	g
		BENZO(A)PYRENE	260 UG/KG	J	g
		BENZO(B)FLUORANTHENE	360 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	240 UG/KG	J	g
		BENZO(K)FLUORANTHENE	380 UG/KG	J	g
		CHRYSENE	210 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	500 UG/KG	U	
		FLUORANTHENE	270 UG/KG	J	g
		FLUORENE	500 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	170 UG/KG	J	g
		NAPHTHALENE	500 UG/KG	U	
		PHENANTHRENE	68 UG/KG	J	g
		PYRENE	360 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	15 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	82 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.75 MG/KG	U	
	PH	PH	7.03	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	33.4 %MST		
122-S25-012	AROMATIC VOLATILES	BENZENE	0.78 UG/KG	U	
ALP01		ETHYLBENZENE	0.78 UG/KG	U	
S25-SB04-10		METHYL-T-BUTYL ETHER (MTBE)	39 UG/KG	U	
9.50 - 10.00		TOLUENE	0.78 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	2100 UG/KG	U	
		ACENAPHTHYLENE	2100 UG/KG	U	
		ANTHRACENE	2100 UG/KG	U	
		BENZO(A)ANTHRACENE	2100 UG/KG	U	
		BENZO(A)PYRENE	230 UG/KG	J	g
		BENZO(B)FLUORANTHENE	220 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	180 UG/KG	J	f,g
		BENZO(K)FLUORANTHENE	240 UG/KG	J	g
		CHRYSENE	2100 UG/KG	U	
		DIBENZ(A,H)ANTHRACENE	2100 UG/KG	U	
		FLUORANTHENE	190 UG/KG	J	g
		FLUORENE	2100 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	2100 UG/KG	UJ	f
		NAPHTHALENE	2100 UG/KG	U	
		PHENANTHRENE	2100 UG/KG	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-012	CLP SVOA	PYRENE	280 UG/KG	J	g
ALP01	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
S25-SB04-10		MOTOR OIL RANGE ORGANICS	85 MG/KG		
9.50 - 10.00	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.78 MG/KG	U	
	PH	PH	6.89	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	35.6 %MST		
122-S25-013	CLP SVOA	ACENAPHTHENE	16 UG/KG	J	g
ALP06		ACENAPHTHYLENE	49 UG/KG	J	g
S25-SB05-1		ANTHRACENE	45 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	480 UG/KG		
		BENZO(A)PYRENE	920 UG/KG		
		BENZO(B)FLUORANTHENE	2000 UG/KG		
		BENZO(G,H,I)PERYLENE	790 UG/KG		
		BENZO(K)FLUORANTHENE	480 UG/KG		
		CHRYSENE	1000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	98 UG/KG	J	g
		FLUORANTHENE	1500 UG/KG		
		FLUORENE	150 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	800 UG/KG		
		NAPHTHALENE	79 UG/KG	J	g
		PHENANTHRENE	300 UG/KG		
		PYRENE	1500 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	79 MG/KG	J	y
	PH	PH	5.25	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	14.5 %MST		
122-S25-014	AROMATIC VOLATILES	BENZENE	0.71 UG/KG	U	
ALP06		ETHYLBENZENE	0.85 UG/KG	U	
S25-SB05-7		METHYL-T-BUTYL ETHER (MTBE)	35 UG/KG	U	
6.50 - 7.00		TOLUENE	0.71 UG/KG	U	
		XYLENE (TOTAL)	1.4 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	47 UG/KG	U	
		ACENAPHTHYLENE	47 UG/KG	U	
		ANTHRACENE	5 UG/KG	J	g
		BENZO(A)ANTHRACENE	49 UG/KG		
		BENZO(A)PYRENE	80 UG/KG		
		BENZO(B)FLUORANTHENE	96 UG/KG		
		BENZO(G,H,I)PERYLENE	65 UG/KG		
		BENZO(K)FLUORANTHENE	30 UG/KG	J	g
		CHRYSENE	61 UG/KG		
		DIBENZ(A,H)ANTHRACENE	47 UG/KG	U	
		FLUORANTHENE	100 UG/KG		
		FLUORENE	47 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	58 UG/KG		
		NAPHTHALENE	10 UG/KG	J	g
		PHENANTHRENE	20 UG/KG	J	g
		PYRENE	120 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	14 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	15 MG/KG	J	g,z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.71 MG/KG	U	
	PH	PH	5.50	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	29.2 %MST		
122-S25-015	CLP SVOA	ACENAPHTHENE	24 UG/KG	J	g
ALP06		ACENAPHTHYLENE	74 UG/KG	J	g
S25-SB06-1		ANTHRACENE	74 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	580 UG/KG		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-015	CLP SVOA	BENZO(A)PYRENE	1200 UG/KG		
ALP06		BENZO(B)FLUORANTHENE	1900 UG/KG		
S25-SB06-1		BENZO(G,H,I)PERYLENE	860 UG/KG		
0.50 - 1.00		BENZO(K)FLUORANTHENE	560 UG/KG		
		CHRYSENE	1000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	110 UG/KG	J	g
		FLUORANTHENE	1700 UG/KG		
		FLUORENE	160 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	820 UG/KG		
		NAPHTHALENE	100 UG/KG	J	g
		PHENANTHRENE	370 UG/KG		
		PYRENE	1900 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	83 MG/KG	J	y
	PH	PH	6.05	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	19.6 %MST		
122-S25-016	AROMATIC VOLATILES	BENZENE	0.77 UG/KG	U	
ALP06		ETHYLBENZENE	0.92 UG/KG	U	
S25-SB06-7		METHYL-T-BUTYL ETHER (MTBE)	38 UG/KG	U	
6.50 - 7.00		TOLUENE	0.77 UG/KG	U	
		XYLENE (TOTAL)	1.5 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	13 UG/KG	J	g
		ACENAPHTHYLENE	39 UG/KG	J	g
		ANTHRACENE	59 UG/KG		
		BENZO(A)ANTHRACENE	210 UG/KG		
		BENZO(A)PYRENE	320 UG/KG		
		BENZO(B)FLUORANTHENE	390 UG/KG		
		BENZO(G,H,I)PERYLENE	190 UG/KG		
		BENZO(K)FLUORANTHENE	94 UG/KG		
		CHRYSENE	240 UG/KG		
		DIBENZ(A,H)ANTHRACENE	27 UG/KG	J	g
		FLUORANTHENE	600 UG/KG		
		FLUORENE	21 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	180 UG/KG		
		NAPHTHALENE	28 UG/KG	J	g
		PHENANTHRENE	350 UG/KG		
		PYRENE	660 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	15 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	41 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.77 MG/KG	U	
	PH	PH	5.51	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	34.8 %MST		
122-S25-017	CLP SVOA	ACENAPHTHENE	830 UG/KG	U	
ALP06		ACENAPHTHYLENE	87 UG/KG	J	g
S25-SB07-1		ANTHRACENE	90 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	1000 UG/KG		
		BENZO(A)PYRENE	2500 UG/KG		
		BENZO(B)FLUORANTHENE	3500 UG/KG		
		BENZO(G,H,I)PERYLENE	3700 UG/KG		
		BENZO(K)FLUORANTHENE	920 UG/KG		
		CHRYSENE	1700 UG/KG		
		DIBENZ(A,H)ANTHRACENE	370 UG/KG	J	g
		FLUORANTHENE	2900 UG/KG		
		FLUORENE	830 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	3300 UG/KG		
		NAPHTHALENE	110 UG/KG	J	g
		PHENANTHRENE	610 UG/KG	J	g

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-017	CLP SVOA	PYRENE	3300 UG/KG		
ALP06	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	13 MG/KG	U	
S25-SB07-1		MOTOR OIL RANGE ORGANICS	42 MG/KG		
0.50 - 1.00	PH	PH	7.15	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	20.5 %MST		
122-S25-018	AROMATIC VOLATILES	BENZENE	0.78 UG/KG	U	
ALP06		ETHYLBENZENE	0.93 UG/KG	U	
S25-SB07-7		METHYL-T-BUTYL ETHER (MTBE)	39 UG/KG	U	
6.50 - 7.00		TOLUENE	0.78 UG/KG	U	
		XYLENE (TOTAL)	1.6 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	210 UG/KG	U	
		ACENAPHTHYLENE	36 UG/KG	J	g
		ANTHRACENE	51 UG/KG	J	g
		BENZO(A)ANTHRACENE	320 UG/KG		
		BENZO(A)PYRENE	520 UG/KG		
		BENZO(B)FLUORANTHENE	600 UG/KG		
		BENZO(G,H,I)PERYLENE	290 UG/KG		
		BENZO(K)FLUORANTHENE	160 UG/KG	J	g
		CHRYSENE	440 UG/KG		
		DIBENZ(A,H)ANTHRACENE	210 UG/KG	U	
		FLUORANTHENE	1100 UG/KG		
		FLUORENE	210 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	270 UG/KG		
		NAPHTHALENE	29 UG/KG	J	g
		PHENANTHRENE	130 UG/KG	J	g
		PYRENE	1200 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	58 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.78 MG/KG	U	
	PH	PH	6.66	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	35.8 %MST		
122-S25-019	CLP SVOA	ACENAPHTHENE	42 UG/KG	U	
ALP06		ACENAPHTHYLENE	9 UG/KG	J	g
S25-SB08-1		ANTHRACENE	10 UG/KG	J	g
.50 - 1.00		BENZO(A)ANTHRACENE	76 UG/KG		
		BENZO(A)PYRENE	140 UG/KG		
		BENZO(B)FLUORANTHENE	180 UG/KG		
		BENZO(G,H,I)PERYLENE	120 UG/KG		
		BENZO(K)FLUORANTHENE	53 UG/KG		
		CHRYSENE	100 UG/KG		
		DIBENZ(A,H)ANTHRACENE	15 UG/KG	J	g
		FLUORANTHENE	170 UG/KG		
		FLUORENE	42 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	110 UG/KG		
		NAPHTHALENE	9 UG/KG	J	g
		PHENANTHRENE	65 UG/KG		
		PYRENE	220 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	13 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	282 MG/KG	J	y
	PH	PH	6.65	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	21.2 %MST		
122-S25-020	AROMATIC VOLATILES	BENZENE	0.55 UG/KG	U	
ALP06		ETHYLBENZENE	0.66 UG/KG	U	
S25-SB08-7		METHYL-T-BUTYL ETHER (MTBE)	27 UG/KG	U	
6.50 - 7.00		TOLUENE	0.55 UG/KG	U	
		XYLENE (TOTAL)	1.1 UG/KG	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-020	CLP SVOA	ACENAPHTHENE	36 UG/KG	U	
ALP06		ACENAPHTHYLENE	36 UG/KG	U	
S25-SB08-7		ANTHRACENE	36 UG/KG	U	
6.50 - 7.00		BENZO(A)ANTHRACENE	5 UG/KG	J	g
		BENZO(A)PYRENE	6 UG/KG	J	g
		BENZO(B)FLUORANTHENE	7 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	36 UG/KG	U	
		BENZO(K)FLUORANTHENE	36 UG/KG	U	
		CHRYSENE	5 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	36 UG/KG	U	
		FLUORANTHENE	9 UG/KG	J	g
		FLUORENE	36 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	36 UG/KG	U	
		NAPHTHALENE	36 UG/KG	U	
		PHENANTHRENE	5 UG/KG	J	g
		PYRENE	12 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.55 MG/KG	U	
	PH	PH	5.72	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	8.7 %MST		
122-S25-021	CLP SVOA	ACENAPHTHENE	150 UG/KG	U	
ALP04		ACENAPHTHYLENE	200 UG/KG		
S25-SB09-1		ANTHRACENE	220 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	860 UG/KG		
		BENZO(A)PYRENE	1600 UG/KG	J	e
		BENZO(B)FLUORANTHENE	2300 UG/KG	J	e
		BENZO(G,H,I)PERYLENE	1200 UG/KG	J	e
		BENZO(K)FLUORANTHENE	670 UG/KG	J	e
		CHRYSENE	910 UG/KG		
		DIBENZ(A,H)ANTHRACENE	200 UG/KG	J	e
		FLUORANTHENE	2100 UG/KG		
		FLUORENE	150 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	1100 UG/KG	J	e
		NAPHTHALENE	150 UG/KG	U	
		PHENANTHRENE	1100 UG/KG		
		PYRENE	2100 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	730 MG/KG		
		MOTOR OIL RANGE ORGANICS	590 MG/KG		
	PH	PH	6.85	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	11.6 %MST		
122-S25-022	AROMATIC VOLATILES	BENZENE	0.56 UG/KG	U	
ALP04		ETHYLBENZENE	0.56 UG/KG	U	
S25-SB09-7		METHYL-T-BUTYL ETHER (MTBE)	28 UG/KG	U	
6.50 - 7.00		TOLUENE	1.1 UG/KG		
		XYLENE (TOTAL)	2.2 UG/KG		
	CLP SVOA	2-METHYLNAPHTHALENE	2.8 UG/KG	R	h
		ACENAPHTHENE	2.8 UG/KG	R	h
		ACENAPHTHYLENE	2.8 UG/KG	R	h
		ANTHRACENE	2.8 UG/KG	R	h
		BENZ(A)ANTHRACENE	2.8 UG/KG	R	h
		BENZO(A)PYRENE	2.8 UG/KG	R	h
		BENZO(B)FLUORANTHENE	3.8 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	2.8 UG/KG	R	h
		BENZO(K)FLUORANTHENE	2.8 UG/KG	R	h
		CHRYSENE	2.8 UG/KG	R	h
		DIBENZ(A,H)ANTHRACENE	2.8 UG/KG	R	h

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
- a - Surrogate recovery problem
- b - Blank contamination problems
- c - Matrix spike recovery problems
- d - Duplicate (precision) problems
- e - Internal standard problems
- f - Calibration problems
- g - Quantification below reporting limit
- h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-022	CLP SVOA	FLUORANTHENE	3.3 UG/KG	J	h
ALP20		FLUORENE	2.8 UG/KG	R	h
S25-SB09-7		INDENO(1,2,3-CD)PYRENE	2.8 UG/KG	R	h
6.50 - 7.00		NAPHTHALENE	2.8 UG/KG	R	h
		PHENANTHRENE	2.8 UG/KG	R	h
		PYRENE	4.2 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.56 MG/KG	U	
	PH	PH	5.25	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	11.1 %MST		
122-S25-023	CLP SVOA	ACENAPHTHENE	1600 UG/KG	U	
ALP01		ACENAPHTHYLENE	1600 UG/KG	U	
S25-SB10-1		ANTHRACENE	1600 UG/KG	U	
0.50 - 1.00		BENZO(A)ANTHRACENE	130 UG/KG	J	g
		BENZO(A)PYRENE	200 UG/KG	J	g
		BENZO(B)FLUORANTHENE	320 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	1600 UG/KG	UJ	f
		BENZO(K)FLUORANTHENE	340 UG/KG	J	g
		CHRYSENE	130 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	1600 UG/KG	U	
		FLUORANTHENE	240 UG/KG	J	g
		FLUORENE	1600 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	130 UG/KG	J	f,g
		NAPHTHALENE	1600 UG/KG	U	
		PHENANTHRENE	120 UG/KG	J	g
		PYRENE	360 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	62 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	460 MG/KG		
	PH	PH	6.50	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	19.8 %MST		
122-S25-024	AROMATIC VOLATILES	BENZENE	0.70 UG/KG	U	
ALP01		ETHYLBENZENE	0.70 UG/KG	U	
S25-SB10-4		METHYL-T-BUTYL ETHER (MTBE)	35 UG/KG	U	
.50 - 4.00		TOLUENE	0.70 UG/KG	U	
		XYLENE (TOTAL)	3.4 UG/KG		
	CLP SVOA	ACENAPHTHENE	980 UG/KG	J	g
		ACENAPHTHYLENE	4700 UG/KG		
		ANTHRACENE	5200 UG/KG		
		BENZO(A)ANTHRACENE	19000 UG/KG		
		BENZO(A)PYRENE	24000 UG/KG		
		BENZO(B)FLUORANTHENE	24000 UG/KG		
		BENZO(G,H,I)PERYLENE	14000 UG/KG	J	f
		BENZO(K)FLUORANTHENE	8300 UG/KG		
		CHRYSENE	21000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	2300 UG/KG	J	g
		FLUORANTHENE	44000 UG/KG		
		FLUORENE	2500 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	12000 UG/KG	J	f
		NAPHTHALENE	2900 UG/KG		
		PHENANTHRENE	37000 UG/KG		
		PYRENE	52000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	70 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	1950 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.70 MG/KG	U	
	PH	PH	7.50	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	28.4 %MST		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-025	AROMATIC VOLATILES	BENZENE	0.59 UG/KG	U	
ALP01		ETHYLBENZENE	0.59 UG/KG	U	
S25-SB10-7		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
6.50 - 7.00		TOLUENE	0.59 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	2-METHYLNAPHTHALENE	3.0 UG/KG	R	h
		ACENAPHTHENE	3.0 UG/KG	R	h
		ACENAPHTHYLENE	8.0 UG/KG	J	h
		ANTHRACENE	9.2 UG/KG	J	h
		BENZ(A)ANTHRACENE	70 UG/KG	J	h
		BENZO(A)PYRENE	110 UG/KG	J	h
		BENZO(B)FLUORANTHENE	121 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	99 UG/KG	J	h
		BENZO(K)FLUORANTHENE	36 UG/KG	J	h
		CHRYSENE	86 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	3.0 UG/KG	R	h
		FLUORANTHENE	220 UG/KG	J	h
		FLUORENE	3.0 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	77 UG/KG	J	h
		NAPHTHALENE	9.9 UG/KG	J	h
		PHENANTHRENE	41 UG/KG	J	h
		PYRENE	206 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	13 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.59 MG/KG	U	
	PH	PH	6.93	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	15.3 %MST		
122-S25-026	AROMATIC VOLATILES	BENZENE	0.61 UG/KG	U	
ALP01		ETHYLBENZENE	0.61 UG/KG	U	
S25-SB10-10		METHYL-T-BUTYL ETHER (MTBE)	31 UG/KG	U	
9.50 - 10.00		TOLUENE	0.61 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	2-METHYLNAPHTHALENE	3.1 UG/KG	R	h
		ACENAPHTHENE	3.1 UG/KG	R	h
		ACENAPHTHYLENE	3.3 UG/KG	J	h
		ANTHRACENE	3.1 UG/KG	R	h
		BENZ(A)ANTHRACENE	15 UG/KG	J	h
		BENZO(A)PYRENE	30 UG/KG	J	h
		BENZO(B)FLUORANTHENE	26 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	32 UG/KG	J	h
		BENZO(K)FLUORANTHENE	10 UG/KG	J	h
		CHRYSENE	20 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	3.1 UG/KG	R	h
		FLUORANTHENE	42 UG/KG	J	h
		FLUORENE	3.1 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	21 UG/KG	J	h
		NAPHTHALENE	3.1 UG/KG	R	h
		PHENANTHRENE	12 UG/KG	J	h
		PYRENE	51 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	12 MG/KG	J	g,y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.61 MG/KG	U	
	PH	PH	6.38	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	18.1 %MST		
122-S25-027	CLP SVOA	ACENAPHTHENE	320 UG/KG		
ALP04		ACENAPHTHYLENE	740 UG/KG		
S25-SB11-1		ANTHRACENE	1100 UG/KG		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-027	CLP SVOA	BENZO(A)ANTHRACENE	3000 UG/KG		
ALP04		BENZO(A)PYRENE	4400 UG/KG		
S25-SB11-1		BENZO(B)FLUORANTHENE	4300 UG/KG		
0.50 - 1.00		BENZO(G,H,I)PERYLENE	2000 UG/KG		
		BENZO(K)FLUORANTHENE	2300 UG/KG		
		CHRYSENE	3400 UG/KG		
		DIBENZ(A,H)ANTHRACENE	150 UG/KG	U	
		FLUORANTHENE	7200 UG/KG		
		FLUORENE	300 UG/KG		
		INDENO(1,2,3-CD)PYRENE	1800 UG/KG		
		NAPHTHALENE	390 UG/KG		
		PHENANTHRENE	4700 UG/KG		
		PYRENE	8200 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	56 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	410 MG/KG	J	y
	PH	PH	6.02	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	11.3 %MST		
122-S25-028	AROMATIC VOLATILES	BENZENE	0.69 UG/KG	U	
ALP04		ETHYLBENZENE	0.69 UG/KG	U	
S25-SB11-7		METHYL-T-BUTYL ETHER (MTBE)	35 UG/KG	U	
6.50 - 7.00		TOLUENE	2.2 UG/KG		
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	46 UG/KG	U	
		ACENAPHTHYLENE	46 UG/KG	U	
		ANTHRACENE	46 UG/KG	U	
		BENZO(A)ANTHRACENE	63 UG/KG		
		BENZO(A)PYRENE	130 UG/KG		
		BENZO(B)FLUORANTHENE	140 UG/KG		
		BENZO(G,H,I)PERYLENE	140 UG/KG		
		BENZO(K)FLUORANTHENE	55 UG/KG		
		CHRYSENE	89 UG/KG		
		DIBENZ(A,H)ANTHRACENE	46 UG/KG	U	
		FLUORANTHENE	200 UG/KG		
		FLUORENE	46 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	100 UG/KG		
		NAPHTHALENE	46 UG/KG	U	
		PHENANTHRENE	61 UG/KG		
		PYRENE	210 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	14 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	20 MG/KG	UJ	b
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.69 MG/KG	U	
	PH	PH	5.46	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	27.6 %MST		
122-S25-029	CLP SVOA	ACENAPHTHENE	37 UG/KG	U	
ALP04		ACENAPHTHYLENE	37 UG/KG	U	
S25-SB12-1		ANTHRACENE	37 UG/KG	U	
0.50 - 1.00		BENZO(A)ANTHRACENE	37 UG/KG	U	
		BENZO(A)PYRENE	37 UG/KG	U	
		BENZO(B)FLUORANTHENE	37 UG/KG	U	
		BENZO(G,H,I)PERYLENE	37 UG/KG	U	
		BENZO(K)FLUORANTHENE	37 UG/KG	U	
		CHRYSENE	37 UG/KG	U	
		DIBENZ(A,H)ANTHRACENE	37 UG/KG	U	
		FLUORANTHENE	37 UG/KG	U	
		FLUORENE	37 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	37 UG/KG	U	
		NAPHTHALENE	37 UG/KG	U	

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-029	CLP SVOA	PHENANTHRENE	37 UG/KG	U	
ALP04		PYRENE	37 UG/KG	U	
S25-SB12-1	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
0.50 - 1.00		MOTOR OIL RANGE ORGANICS	16 MG/KG	UJ	b
	PH	PH	6.63	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	10.8 %MST		
122-S25-030	AROMATIC VOLATILES	BENZENE	0.78 UG/KG	U	
ALP04		ETHYLBENZENE	0.78 UG/KG	U	
S25-SB12-7		METHYL-T-BUTYL ETHER (MTBE)	39 UG/KG	U	
6.50 - 7.00		TOLUENE	1.7 UG/KG		
		XYLENE (TOTAL)	5.4 UG/KG		
	CLP SVOA	ACENAPHTHENE	25000 UG/KG		
		ACENAPHTHYLENE	12000 UG/KG		
		ANTHRACENE	120000 UG/KG		
		BENZO(A)ANTHRACENE	98000 UG/KG		
		BENZO(A)PYRENE	160000 UG/KG		
		BENZO(B)FLUORANTHENE	140000 UG/KG		
		BENZO(G,H,I)PERYLENE	48000 UG/KG		
		BENZO(K)FLUORANTHENE	54000 UG/KG		
		CHRYSENE	130000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	8200 UG/KG	U	
		FLUORANTHENE	340000 UG/KG		
		FLUORENE	8200 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	42000 UG/KG		
		NAPHTHALENE	8200 UG/KG	U	
		PHENANTHRENE	170000 UG/KG		
		PYRENE	360000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	390 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11000 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.78 MG/KG	U	
	PH	PH	7.05	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	35.8 %MST		
122-S25-031	CLP SVOA	ACENAPHTHENE	760 UG/KG		
ALP04		ACENAPHTHYLENE	1200 UG/KG		
S25-SB13-1		ANTHRACENE	1300 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	5200 UG/KG		
		BENZO(A)PYRENE	8700 UG/KG		
		BENZO(B)FLUORANTHENE	9400 UG/KG		
		BENZO(G,H,I)PERYLENE	3600 UG/KG		
		BENZO(K)FLUORANTHENE	3500 UG/KG		
		CHRYSENE	6000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	400 UG/KG	U	
		FLUORANTHENE	13000 UG/KG		
		FLUORENE	400 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	3200 UG/KG		
		NAPHTHALENE	400 UG/KG	U	
		PHENANTHRENE	8100 UG/KG		
		PYRENE	15000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	61 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	240 MG/KG	UJ	b
	PH	PH	5.87	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	18.3 %MST		
122-S25-032	AROMATIC VOLATILES	BENZENE	0.56 UG/KG	U	
ALP04		ETHYLBENZENE	0.56 UG/KG	U	
S25-SB13-7		METHYL-T-BUTYL ETHER (MTBE)	28 UG/KG	U	
6.50 - 7.00		TOLUENE	1.5 UG/KG		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-032	AROMATIC VOLATILES	XYLENE (TOTAL)	2 UG/KG		
ALP04	CLP SVOA	2-METHYLNAPHTHALENE	2.8 UG/KG	R	h
S25-SB13-7		ACENAPHTHENE	2.8 UG/KG	R	h
6.50 - 7.00		ACENAPHTHYLENE	2.8 UG/KG	R	h
		ANTHRACENE	2.8 UG/KG	R	h
		BENZ(A)ANTHRACENE	23 UG/KG	J	h
		BENZO(A)PYRENE	32 UG/KG	J	h
		BENZO(B)FLUORANTHENE	34 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	32 UG/KG	J	h
		BENZO(K)FLUORANTHENE	12 UG/KG	J	h
		CHRYSENE	27 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	2.8 UG/KG	R	h
		FLUORANTHENE	67 UG/KG	J	h
		FLUORENE	2.8 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	23 UG/KG	J	h
		NAPHTHALENE	2.8 UG/KG	R	h
		PHENANTHRENE	9.9 UG/KG	J	h
		PYRENE	71 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.56 MG/KG	U	
	PH	PH	6.47	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	10.8 %MST		
122-S25-033	CLP SVOA	ACENAPHTHENE	1600 UG/KG	U	
ALP01		ACENAPHTHYLENE	310 UG/KG	J	g
S25-SB14-1		ANTHRACENE	210 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	1200 UG/KG	J	g
		BENZO(A)PYRENE	2400 UG/KG		
		BENZO(B)FLUORANTHENE	2600 UG/KG		
		BENZO(G,H,I)PERYLENE	1500 UG/KG	J	f,g
		BENZO(K)FLUORANTHENE	980 UG/KG	J	g
		CHRYSENE	1400 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	180 UG/KG	J	g
		FLUORANTHENE	3100 UG/KG		
		FLUORENE	1600 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	1300 UG/KG	J	f,g
		NAPHTHALENE	180 UG/KG	J	g
		PHENANTHRENE	1500 UG/KG	J	g
		PYRENE	4400 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	270 MG/KG	J	y
	PH	PH	6.77	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	18.6 %MST		
122-S25-034	AROMATIC VOLATILES	BENZENE	0.72 UG/KG	U	
ALP01		ETHYLBENZENE	0.72 UG/KG	U	
S25-SB14-4		METHYL-T-BUTYL ETHER (MTBE)	36 UG/KG	U	
3.50 - 4.00		TOLUENE	0.72 UG/KG	U	
		XYLENE (TOTAL)	2.9 UG/KG		
	CLP SVOA	ACENAPHTHENE	470 UG/KG	U	
		ACENAPHTHYLENE	470 UG/KG	U	
		ANTHRACENE	470 UG/KG	U	
		BENZO(A)ANTHRACENE	71 UG/KG	J	g
		BENZO(A)PYRENE	150 UG/KG	J	g
		BENZO(B)FLUORANTHENE	180 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	200 UG/KG	J	g
		BENZO(K)FLUORANTHENE	59 UG/KG	J	g
		CHRYSENE	110 UG/KG	J	g

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-034	CLP SVOA	DIBENZ(A,H)ANTHRACENE	470 UG/KG	U	
ALP01		FLUORANTHENE	170 UG/KG	J	g
S25-SB14-4		FLUORENE	470 UG/KG	U	
3.50 - 4.00		INDENO(1,2,3-CD)PYRENE	130 UG/KG	J	g
		NAPHTHALENE	470 UG/KG	U	
		PHENANTHRENE	39 UG/KG	J	g
		PYRENE	220 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	14 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	63 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.72 MG/KG	U	
	PH	PH	5.26	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	30.5 %MST		
122-S25-035	AROMATIC VOLATILES	BENZENE	0.60 UG/KG	U	
ALP01		ETHYLBENZENE	0.60 UG/KG	U	
S25-SB14-7		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
6.50 - 7.00		TOLUENE	0.60 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	1600 UG/KG	J	g
		ACENAPHTHYLENE	12000 UG/KG	J	g
		ANTHRACENE	15000 UG/KG	J	g
		BENZO(A)ANTHRACENE	41000 UG/KG		
		BENZO(A)PYRENE	55000 UG/KG		
		BENZO(B)FLUORANTHENE	48000 UG/KG		
		BENZO(G,H,I)PERYLENE	36000 UG/KG	J	f
		BENZO(K)FLUORANTHENE	16000 UG/KG		
		CHRYSENE	40000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	5600 UG/KG	J	g
		FLUORANTHENE	110000 UG/KG		
		FLUORENE	4700 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	29000 UG/KG	J	f
		NAPHTHALENE	5300 UG/KG	J	g
		PHENANTHRENE	92000 UG/KG		
		PYRENE	140000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	120 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	2100 MG/KG	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.60 MG/KG	U	
	PH	PH	6.30	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	16.7 %MST		
122-S25-036	AROMATIC VOLATILES	BENZENE	0.60 UG/KG	U	
ALP02		ETHYLBENZENE	0.60 UG/KG	U	
S25-SB14-10		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
9.50 - 10.00		TOLUENE	0.60 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	2-METHYLNAPHTHALENE	3.0 UG/KG	R	h
		ACENAPHTHENE	3.0 UG/KG	R	h
		ACENAPHTHYLENE	3.0 UG/KG	R	h
		ANTHRACENE	3.0 UG/KG	R	h
		BENZ(A)ANTHRACENE	3.0 UG/KG	R	h
		BENZO(A)PYRENE	4.6 UG/KG	J	h
		BENZO(B)FLUORANTHENE	3.0 UG/KG	R	h
		BENZO(G,H,I)PERYLENE	5.0 UG/KG	J	h
		BENZO(K)FLUORANTHENE	3.0 UG/KG	R	h
		CHRYSENE	3.0 UG/KG	R	h
		DIBENZ(A,H)ANTHRACENE	3.0 UG/KG	R	h
		FLUORANTHENE	5.1 UG/KG	J	h
		FLUORENE	3.0 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	3.4 UG/KG	J	h

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-036	CLP SVOA	NAPHTHALENE	3.0 UG/KG	R	h
ALP20		PHENANTHRENE	3.0 UG/KG	R	h
S25-SB14-10		PYRENE	8.7 UG/KG	J	h
9.50 - 10.00	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	9 MG/KG	J	g
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.60 MG/KG	U	
	PH	PH	6.50	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	16.7 %MST		
122-S25-037	CLP SVOA	2-METHYLNAPHTHALENE	14 UG/KG	R	h
ALP20		ACENAPHTHENE	14 UG/KG	R	h
S25-SB15-1		ACENAPHTHYLENE	96 UG/KG	J	h
0.50 - 1.00		ANTHRACENE	100 UG/KG	J	h
		BENZ(A)ANTHRACENE	14 UG/KG	R	h
		BENZO(A)PYRENE	842 UG/KG	J	h
		BENZO(B)FLUORANTHENE	1280 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	626 UG/KG	J	h
		BENZO(K)FLUORANTHENE	1260 UG/KG	J	h
		CHRYSENE	14 UG/KG	R	h
		DIBENZ(A,H)ANTHRACENE	14 UG/KG	R	h
		FLUORANTHENE	1260 UG/KG	J	h
		FLUORENE	23 UG/KG	J	h
		INDENO(1,2,3-CD)PYRENE	497 UG/KG	J	h
		NAPHTHALENE	41 UG/KG	J	h
		PHENANTHRENE	559 UG/KG	J	h
		PYRENE	1350 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	U	
	PH	PH	6.37	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	8.4 %MST		
122-S25-038	AROMATIC VOLATILES	BENZENE	0.76 UG/KG	U	
ALP04		ETHYLBENZENE	0.76 UG/KG	U	
S25-SB15-7		METHYL-T-BUTYL ETHER (MTBE)	38 UG/KG	U	
6.50 - 7.00		TOLUENE	2.3 UG/KG		
		XYLENE (TOTAL)	6.1 UG/KG		
	CLP SVOA	ACENAPHTHENE	94000 UG/KG		
		ACENAPHTHYLENE	17000 UG/KG		
		ANTHRACENE	32000 UG/KG		
		BENZO(A)ANTHRACENE	88000 UG/KG		
		BENZO(A)PYRENE	150000 UG/KG		
		BENZO(B)FLUORANTHENE	130000 UG/KG		
		BENZO(G,H,I)PERYLENE	49000 UG/KG		
		BENZO(K)FLUORANTHENE	59000 UG/KG		
		CHRYSENE	100000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	8000 UG/KG	U	
		FLUORANTHENE	360000 UG/KG		
		FLUORENE	8000 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	41000 UG/KG		
		NAPHTHALENE	8000 UG/KG	U	
		PHENANTHRENE	10000 UG/KG		
		PYRENE	370000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	150 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	8100 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.9 MG/KG		
	PH	PH	7.11	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	33.8 %MST		
122-S25-039	CLP SVOA	2-METHYLNAPHTHALENE	2.8 UG/KG	R	h

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-039	CLP SVOA	ACENAPHTHENE	4.5 UG/KG	J	h
ALP20		ACENAPHTHYLENE	12 UG/KG	J	h
S25-SB16-1		ANTHRACENE	11 UG/KG	J	h
0.50 - 1.00		BENZ(A)ANTHRACENE	65 UG/KG	J	h
		BENZO(A)PYRENE	102 UG/KG	J	h
		BENZO(B)FLUORANTHENE	122 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	88 UG/KG	J	h
		BENZO(K)FLUORANTHENE	45 UG/KG	J	h
		CHRYSENE	82 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	2.8 UG/KG	R	h
		FLUORANTHENE	185 UG/KG	J	h
		FLUORENE	3.0 UG/KG	J	h
		INDENO(1,2,3-CD)PYRENE	73 UG/KG	J	h
		NAPHTHALENE	4.3 UG/KG	J	h
		PHENANTHRENE	76 UG/KG	J	h
		PYRENE	197 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG		
	PH	PH	7.44	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	10.4 %MST		
122-S25-040	AROMATIC VOLATILES	BENZENE	0.69 UG/KG	U	
ALP02		ETHYLBENZENE	0.69 UG/KG	U	
S25-SB16-4		METHYL-T-BUTYL ETHER (MTBE)	35 UG/KG	U	
3.50 - 4.00		TOLUENE	0.69 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	460 UG/KG	U	
		ACENAPHTHYLENE	460 UG/KG	U	
		ANTHRACENE	460 UG/KG	U	
		BENZO(A)ANTHRACENE	120 UG/KG	J	g
		BENZO(A)PYRENE	180 UG/KG	J	g
		BENZO(B)FLUORANTHENE	280 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	190 UG/KG	J	g
		BENZO(K)FLUORANTHENE	74 UG/KG	J	g
		CHRYSENE	190 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	460 UG/KG	U	
		FLUORANTHENE	210 UG/KG	J	g
		FLUORENE	460 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	140 UG/KG	J	g
		NAPHTHALENE	460 UG/KG	U	
		PHENANTHRENE	65 UG/KG	J	g
		PYRENE	260 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	14 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	81 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.69 MG/KG	U	
	PH	PH	5.49	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	28.0 %MST		
122-S25-041	AROMATIC VOLATILES	BENZENE	0.86 UG/KG	U	
ALP02		ETHYLBENZENE	0.86 UG/KG	U	
S25-SB16-7		METHYL-T-BUTYL ETHER (MTBE)	43 UG/KG	U	
6.50 - 7.00		TOLUENE	0.86 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	ACENAPHTHENE	7600 UG/KG	J	g
		ACENAPHTHYLENE	1700 UG/KG	J	g
		ANTHRACENE	4600 UG/KG	J	g
		BENZO(A)ANTHRACENE	24000 UG/KG		
		BENZO(A)PYRENE	40000 UG/KG		
		BENZO(B)FLUORANTHENE	34000 UG/KG		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-041	CLP SVOA	BENZO(G,H,I)PERYLENE	34000 UG/KG	J	f
ALP02		BENZO(K)FLUORANTHENE	8600 UG/KG	J	g
S25-SB16-7		CHRYSENE	30000 UG/KG		
6.50 - 7.00		DIBENZ(A,H)ANTHRACENE	2600 UG/KG	J	g
		FLUORANTHENE	110000 UG/KG		
		FLUORENE	23000 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	25000 UG/KG	J	f
		NAPHTHALENE	23000 UG/KG	U	
		PHENANTHRENE	14000 UG/KG	J	g
		PYRENE	140000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	17 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	17 MG/KG	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.86 MG/KG	U	
	PH	PH	8.74	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	41.8 %MST		
122-S25-042	AROMATIC VOLATILES	BENZENE	0.62 UG/KG	U	
ALP02		ETHYLBENZENE	0.62 UG/KG	U	
S25-SB16-10		METHYL-T-BUTYL ETHER (MTBE)	31 UG/KG	U	
9.50 - 10.00		TOLUENE	0.62 UG/KG	U	
		XYLENE (TOTAL)	2.4 UG/KG		
	CLP SVOA	2-METHYLNAPHTHALENE	3.1 UG/KG	R	h
		ACENAPHTHENE	3.1 UG/KG	R	h
		ACENAPHTHYLENE	3.1 UG/KG	R	h
		ANTHRACENE	3.1 UG/KG	R	h
		BENZ(A)ANTHRACENE	11 UG/KG	J	h
		BENZO(A)PYRENE	24 UG/KG	J	h
		BENZO(B)FLUORANTHENE	22 UG/KG	J	h
		BENZO(G,H,I)PERYLENE	24 UG/KG	J	h
		BENZO(K)FLUORANTHENE	6.8 UG/KG	J	h
		CHRYSENE	16 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	3.1 UG/KG	R	h
		FLUORANTHENE	46 UG/KG	J	h
		FLUORENE	3.1 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	16 UG/KG	J	h
		NAPHTHALENE	3.1 UG/KG	R	h
		PHENANTHRENE	4.6 UG/KG	J	h
		PYRENE	57 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	62 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	1300 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.62 MG/KG	U	
	PH	PH	8.65	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	19.7 %MST		
122-S25-043	CLP SVOA	ACENAPHTHENE	500 UG/KG		
ALP04		ACENAPHTHYLENE	2900 UG/KG		
S25-SB17-1		ANTHRACENE	2100 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	5500 UG/KG		
		BENZO(A)PYRENE	8000 UG/KG		
		BENZO(B)FLUORANTHENE	8400 UG/KG		
		BENZO(G,H,I)PERYLENE	3800 UG/KG		
		BENZO(K)FLUORANTHENE	3800 UG/KG		
		CHRYSENE	6300 UG/KG		
		DIBENZ(A,H)ANTHRACENE	360 UG/KG	U	
		FLUORANTHENE	15000 UG/KG		
		FLUORENE	1300 UG/KG		
		INDENO(1,2,3-CD)PYRENE	3300 UG/KG		
		NAPHTHALENE	2300 UG/KG		
		PHENANTHRENE	13000 UG/KG		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-043	CLP SVOA	PYRENE	17000 UG/KG		
ALP04	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	54 MG/KG	U	
S25-SB17-1		MOTOR OIL RANGE ORGANICS	130 MG/KG	UJ	b
0.50 - 1.00	PH	PH	6.97	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	7.3 %MST		
122-S25-044	AROMATIC VOLATILES	BENZENE	0.73 UG/KG	U	
ALP04		ETHYLBENZENE	0.73 UG/KG	U	
S25-SB17-7		METHYL-T-BUTYL ETHER (MTBE)	37 UG/KG	U	
6.50 - 7.00		TOLUENE	0.73 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	2000 UG/KG		
		ACENAPHTHYLENE	1600 UG/KG		
		ANTHRACENE	1700 UG/KG		
		BENZO(A)ANTHRACENE	8900 UG/KG		
		BENZO(A)PYRENE	15000 UG/KG		
		BENZO(B)FLUORANTHENE	19000 UG/KG		
		BENZO(G,H,I)PERYLENE	7300 UG/KG		
		BENZO(K)FLUORANTHENE	5400 UG/KG		
		CHRYSENE	11000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	480 UG/KG	U	
		FLUORANTHENE	24000 UG/KG		
		FLUORENE	530 UG/KG		
		INDENO(1,2,3-CD)PYRENE	6400 UG/KG		
		NAPHTHALENE	1600 UG/KG		
		PHENANTHRENE	10000 UG/KG		
		PYRENE	26000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	73 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	340 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.73 MG/KG	U	
	PH	PH	7.21	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	31.7 %MST		
122-S25-045	CLP SVOA	ACENAPHTHENE	630 UG/KG		
ALP04		ACENAPHTHYLENE	860 UG/KG		
S25-SB18-1		ANTHRACENE	790 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	4700 UG/KG		
		BENZO(A)PYRENE	7000 UG/KG		
		BENZO(B)FLUORANTHENE	9100 UG/KG		
		BENZO(G,H,I)PERYLENE	3100 UG/KG		
		BENZO(K)FLUORANTHENE	2300 UG/KG		
		CHRYSENE	4600 UG/KG		
		DIBENZ(A,H)ANTHRACENE	170 UG/KG	U	
		FLUORANTHENE	11000 UG/KG		
		FLUORENE	170 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	2800 UG/KG		
		NAPHTHALENE	410 UG/KG		
		PHENANTHRENE	3500 UG/KG		
		PYRENE	13000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	63 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	260 MG/KG	J	y
	PH	PH	5.94	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	20.8 %MST		
122-S25-046	AROMATIC VOLATILES	BENZENE	0.77 UG/KG	U	
ALP04		ETHYLBENZENE	0.77 UG/KG	U	
S25-SB18-7		METHYL-T-BUTYL ETHER (MTBE)	39 UG/KG	U	
6.50 - 7.00		TOLUENE	0.77 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG	J	g

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-046	CLP SVOA	ACENAPHTHENE	610 UG/KG		
ALP04		ACENAPHTHYLENE	2700 UG/KG		
S25-SB18-7		ANTHRACENE	1600 UG/KG		
6.50 - 7.00		BENZO(A)ANTHRACENE	8800 UG/KG		
		BENZO(A)PYRENE	14000 UG/KG		
		BENZO(B)FLUORANTHENE	12000 UG/KG		
		BENZO(G,H,I)PERYLENE	4600 UG/KG		
		BENZO(K)FLUORANTHENE	4800 UG/KG		
		CHRYSENE	9000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	510 UG/KG	U	
		FLUORANTHENE	30000 UG/KG		
		FLUORENE	510 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	3800 UG/KG		
		NAPHTHALENE	700 UG/KG		
		PHENANTHRENE	3200 UG/KG		
		PYRENE	33000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	77 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	360 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.77 MG/KG	U	
	PH	PH	7.59	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	35.1 %MST		
122-S25-047	CLP SVOA	ACENAPHTHENE	39 UG/KG	U	
ALP04		ACENAPHTHYLENE	39 UG/KG	U	
S25-SB19-1		ANTHRACENE	39 UG/KG	U	
0.50 - 1.00		BENZO(A)ANTHRACENE	100 UG/KG		
		BENZO(A)PYRENE	170 UG/KG		
		BENZO(B)FLUORANTHENE	190 UG/KG		
		BENZO(G,H,I)PERYLENE	93 UG/KG		
		BENZO(K)FLUORANTHENE	60 UG/KG		
		CHRYSENE	120 UG/KG		
		DIBENZ(A,H)ANTHRACENE	39 UG/KG	U	
		FLUORANTHENE	300 UG/KG		
		FLUORENE	39 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	77 UG/KG		
		NAPHTHALENE	39 UG/KG	U	
		PHENANTHRENE	140 UG/KG		
		PYRENE	320 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	24 MG/KG	UJ	b
	PH	PH	6.42	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	16.2 %MST		
122-S25-048	AROMATIC VOLATILES	BENZENE	0.58 UG/KG	U	
ALP04		ETHYLBENZENE	0.58 UG/KG	U	
S25-SB19-7		METHYL-T-BUTYL ETHER (MTBE)	29 UG/KG	U	
6.50 - 7.00		TOLUENE	0.58 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	1700 UG/KG		
		ACENAPHTHYLENE	400 UG/KG		
		ANTHRACENE	380 UG/KG		
		BENZO(A)ANTHRACENE	1000 UG/KG		
		BENZO(A)PYRENE	2000 UG/KG		
		BENZO(B)FLUORANTHENE	1800 UG/KG		
		BENZO(G,H,I)PERYLENE	830 UG/KG		
		BENZO(K)FLUORANTHENE	610 UG/KG		
		CHRYSENE	1100 UG/KG		
		DIBENZ(A,H)ANTHRACENE	77 UG/KG	U	
		FLUORANTHENE	3400 UG/KG		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-048	CLP SVOA	FLUORENE	250 UG/KG		
ALP04		INDENO(1,2,3-CD)PYRENE	700 UG/KG		
S25-SB19-7		NAPHTHALENE	130 UG/KG		
6.50 - 7.00		PHENANTHRENE	1400 UG/KG		
		PYRENE	3300 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	62 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.58 MG/KG	U	
	PH	PH	7.85	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	14.0 %MST		
122-S25-049	CLP SVOA	ACENAPHTHENE	200 UG/KG		
ALP05		ACENAPHTHYLENE	820 UG/KG		
S25-SB20-1		ANTHRACENE	740 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	3800 UG/KG	J	h
		BENZO(A)PYRENE	5900 UG/KG	J	e,h
		BENZO(B)FLUORANTHENE	6900 UG/KG	J	e,h
		BENZO(G,H,I)PERYLENE	2100 UG/KG	J	e
		BENZO(K)FLUORANTHENE	2200 UG/KG	J	e
		CHRYSENE	3600 UG/KG	J	h
		DIBENZ(A,H)ANTHRACENE	390 UG/KG	J	e
		FLUORANTHENE	11000 UG/KG	J	h
		FLUORENE	230 UG/KG		
		INDENO(1,2,3-CD)PYRENE	1900 UG/KG	J	e
		NAPHTHALENE	300 UG/KG		
		PHENANTHRENE	6700 UG/KG	J	h
		PYRENE	12000 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	200 MG/KG	J	a,z
	PH	PH	7.05	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	9.3 %MST		
122-S25-050	AROMATIC VOLATILES	BENZENE	0.69 UG/KG	U	
ALP05		ETHYLBENZENE	5.0 UG/KG		
S25-SB20-7		METHYL-T-BUTYL ETHER (MTBE)	34 UG/KG	U	
6.50 - 7.00		TOLUENE	0.69 UG/KG	U	
		XYLENE (TOTAL)	3.6 UG/KG		
	CLP SVOA	ACENAPHTHENE	20000 UG/KG	J	e
		ACENAPHTHYLENE	32000 UG/KG	J	e
		ANTHRACENE	120000 UG/KG	J	e
		BENZO(A)ANTHRACENE	150000 UG/KG	J	e
		BENZO(A)PYRENE	210000 UG/KG		
		BENZO(B)FLUORANTHENE	180000 UG/KG		
		BENZO(G,H,I)PERYLENE	77000 UG/KG		
		BENZO(K)FLUORANTHENE	66000 UG/KG		
		CHRYSENE	170000 UG/KG	J	e
		DIBENZ(A,H)ANTHRACENE	18000 UG/KG	U	
		FLUORANTHENE	500000 UG/KG	J	e
		FLUORENE	18000 UG/KG	UJ	e
		INDENO(1,2,3-CD)PYRENE	80000 UG/KG		
		NAPHTHALENE	18000 UG/KG	U	
		PHENANTHRENE	260000 UG/KG	J	e
		PYRENE	560000 UG/KG	J	e
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	69 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	860 MG/KG	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.69 MG/KG	U	
	PH	PH	7.82	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	27.1 %MST		
122-S25-051	CLP SVOA	ACENAPHTHENE	550 UG/KG		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-051	CLP SVOA	ACENAPHTHYLENE	1300 UG/KG		
ALP05		ANTHRACENE	1400 UG/KG		
S25-SB21-1		BENZO(A)ANTHRACENE	6900 UG/KG	J	e
0.50 - 1.00		BENZO(A)PYRENE	10000 UG/KG	J	e
		BENZO(B)FLUORANTHENE	12000 UG/KG	J	e
		BENZO(G,H,I)PERYLENE	3500 UG/KG	J	e
		BENZO(K)FLUORANTHENE	3200 UG/KG	J	e
		CHRYSENE	6100 UG/KG	J	e
		DIBENZ(A,H)ANTHRACENE	700 UG/KG	J	e
		FLUORANTHENE	20000 UG/KG	J	h
		FLUORENE	330 UG/KG		
		INDENO(1,2,3-CD)PYRENE	3400 UG/KG	J	e
		NAPHTHALENE	690 UG/KG		
		PHENANTHRENE	11000 UG/KG		
		PYRENE	23000 UG/KG	J	e,h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	59 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	420 MG/KG	J	z
	PH	PH	6.99	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	15.1 %MST		
122-S25-052	AROMATIC VOLATILES	BENZENE	0.57 UG/KG	U	
ALP05		ETHYLBENZENE	0.57 UG/KG	U	
S25-SB21-7		METHYL-T-BUTYL ETHER (MTBE)	28 UG/KG	U	
6.50 - 7.00		TOLUENE	0.57 UG/KG	U	
		XYLENE (TOTAL)	3.3 UG/KG		
	CLP SVOA	ACENAPHTHENE	1300 UG/KG		
		ACENAPHTHYLENE	590 UG/KG		
		ANTHRACENE	600 UG/KG		
		BENZO(A)ANTHRACENE	3500 UG/KG		
		BENZO(A)PYRENE	7700 UG/KG	J	e
		BENZO(B)FLUORANTHENE	7000 UG/KG	J	e
		BENZO(G,H,I)PERYLENE	3500 UG/KG	J	e
		BENZO(K)FLUORANTHENE	2200 UG/KG	J	e
		CHRYSENE	3900 UG/KG		
		DIBENZ(A,H)ANTHRACENE	440 UG/KG	J	e
		FLUORANTHENE	8000 UG/KG		
		FLUORENE	330 UG/KG	J	e
		INDENO(1,2,3-CD)PYRENE	2700 UG/KG		
		NAPHTHALENE	2700 UG/KG		
		PHENANTHRENE	2700 UG/KG		
		PYRENE	9900 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	160 MG/KG	J	a,z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.57 MG/KG	U	
	PH	PH	7.44	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	12.1 %MST		
122-S25-053	CLP SVOA	ACENAPHTHENE	3900 UG/KG	U	
ALP02		ACENAPHTHYLENE	790 UG/KG	J	g
S25-SB22-1		ANTHRACENE	670 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	4200 UG/KG		
		BENZO(A)PYRENE	7000 UG/KG		
		BENZO(B)FLUORANTHENE	6800 UG/KG		
		BENZO(G,H,I)PERYLENE	6200 UG/KG		
		BENZO(K)FLUORANTHENE	1700 UG/KG	J	g
		CHRYSENE	4400 UG/KG		
		DIBENZ(A,H)ANTHRACENE	870 UG/KG	J	g
		FLUORANTHENE	12000 UG/KG		
		FLUORENE	220 UG/KG	J	g

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-053	CLP SVOA	INDENO(1,2,3-CD)PYRENE	5400 UG/KG		
ALP02		NAPHTHALENE	270 UG/KG	J	g
S25-SB22-1		PHENANTHRENE	5900 UG/KG		
0.50 - 1.00		PYRENE	14000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	58 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	370 MG/KG	J	y
	PH	PH	7.74	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	14.5 %MST		
122-S25-054	AROMATIC VOLATILES	BENZENE	0.66 UG/KG	U	
ALP02		ETHYLBENZENE	0.66 UG/KG	U	
S25-SB22-4		METHYL-T-BUTYL ETHER (MTBE)	33 UG/KG	U	
3.50 - 4.00		TOLUENE	0.66 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	420 UG/KG	J	g
		ACENAPHTHYLENE	310 UG/KG	J	g
		ANTHRACENE	1100 UG/KG	J	g
		BENZO(A)ANTHRACENE	3700 UG/KG		
		BENZO(A)PYRENE	5000 UG/KG		
		BENZO(B)FLUORANTHENE	5000 UG/KG		
		BENZO(G,H,I)PERYLENE	2900 UG/KG		
		BENZO(K)FLUORANTHENE	1200 UG/KG	J	g
		CHRYSENE	3600 UG/KG		
		DIBENZ(A,H)ANTHRACENE	550 UG/KG	J	g
		FLUORANTHENE	11000 UG/KG		
		FLUORENE	250 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	2900 UG/KG		
		NAPHTHALENE	170 UG/KG	J	g
		PHENANTHRENE	8000 UG/KG		
		PYRENE	11000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	66 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	310 MG/KG	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.66 MG/KG	U	
	PH	PH	6.56	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	24.3 %MST		
22-S25-055	AROMATIC VOLATILES	BENZENE	0.83 UG/KG	U	
LP02		ETHYLBENZENE	28.3 UG/KG		
S25-SB22-7		METHYL-T-BUTYL ETHER (MTBE)	42 UG/KG	U	
6.50 - 7.00		TOLUENE	83.0 UG/KG		
		XYLENE (TOTAL)	146 UG/KG		
	CLP SVOA	ACENAPHTHENE	5900 UG/KG	J	g
		ACENAPHTHYLENE	3700 UG/KG	J	g
		ANTHRACENE	3100 UG/KG	J	g
		BENZO(A)ANTHRACENE	13000 UG/KG		
		BENZO(A)PYRENE	20000 UG/KG		
		BENZO(B)FLUORANTHENE	17000 UG/KG		
		BENZO(G,H,I)PERYLENE	12000 UG/KG		
		BENZO(K)FLUORANTHENE	3800 UG/KG	J	g
		CHRYSENE	10000 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	1800 UG/KG	J	g
		FLUORANTHENE	45000 UG/KG		
		FLUORENE	1200 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	12000 UG/KG		
		NAPHTHALENE	11000 UG/KG	U	
		PHENANTHRENE	30000 UG/KG		
		PYRENE	51000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	83 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	540 MG/KG	J	z

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-055	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.6 MG/KG	J	g
ALP02	PH	PH	7.32	J	h
S25-SB22-7	PERCENT MOISTURE	PERCENT MOISTURE	40.0 %MST		
6.50 - 7.00					
122-S25-056	AROMATIC VOLATILES	BENZENE	0.83 UG/KG	U	
ALP02		ETHYLBENZENE	0.83 UG/KG	U	
S25-SB22-10		METHYL-T-BUTYL ETHER (MTBE)	51 UG/KG		
9.50 - 10.00		TOLUENE	1.7 UG/KG		
		XYLENE (TOTAL)	8.2 UG/KG		
	CLP SVOA	ACENAPHTHENE	550 UG/KG	U	
		ACENAPHTHYLENE	550 UG/KG	U	
		ANTHRACENE	550 UG/KG	U	
		BENZO(A)ANTHRACENE	94 UG/KG	J	g
		BENZO(A)PYRENE	180 UG/KG	J	g
		BENZO(B)FLUORANTHENE	160 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	110 UG/KG	J	g
		BENZO(K)FLUORANTHENE	43 UG/KG	J	g
		CHRYSENE	98 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	550 UG/KG	U	
		FLUORANTHENE	230 UG/KG	J	g
		FLUORENE	550 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	88 UG/KG	J	g
		NAPHTHALENE	37 UG/KG	J	g
		PHENANTHRENE	61 UG/KG	J	g
		PYRENE	400 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	83 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	1400 MG/KG		
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.83 MG/KG	U	
	PH	PH	8.34	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	39.7 %MST		
122-S25-057	CLP SVOA	ACENAPHTHENE	110 UG/KG		
ALP05		ACENAPHTHYLENE	940 UG/KG		
S25-SB23-1		ANTHRACENE	750 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	2300 UG/KG		
		BENZO(A)PYRENE	3500 UG/KG		
		BENZO(B)FLUORANTHENE	3700 UG/KG		
		BENZO(G,H,I)PERYLENE	1700 UG/KG		
		BENZO(K)FLUORANTHENE	860 UG/KG		
		CHRYSENE	2600 UG/KG		
		DIBENZ(A,H)ANTHRACENE	310 UG/KG		
		FLUORANTHENE	7500 UG/KG		
		FLUORENE	290 UG/KG		
		INDENO(1,2,3-CD)PYRENE	1700 UG/KG		
		NAPHTHALENE	760 UG/KG		
		PHENANTHRENE	6200 UG/KG		
		PYRENE	8000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	140 MG/KG	J	z
	PH	PH	7.43	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	5.9 %MST		
122-S25-058	AROMATIC VOLATILES	BENZENE	0.79 UG/KG	U	
ALP05		ETHYLBENZENE	0.79 UG/KG	U	
S25-SB23-7		METHYL-T-BUTYL ETHER (MTBE)	40 UG/KG	U	
6.50 - 7.00		TOLUENE	0.79 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	5100 UG/KG	J	g

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-058	CLP SVOA	ACENAPHTHYLENE	32000 UG/KG		
ALP05		ANTHRACENE	21000 UG/KG		
S25-SB23-7		BENZO(A)ANTHRACENE	110000 UG/KG		
6.50 - 7.00		BENZO(A)PYRENE	160000 UG/KG		
		BENZO(B)FLUORANTHENE	180000 UG/KG		
		BENZO(G,H,I)PERYLENE	39000 UG/KG		
		BENZO(K)FLUORANTHENE	58000 UG/KG		
		CHRYSENE	100000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	2100 UG/KG	U	
		FLUORANTHENE	330000 UG/KG		
		FLUORENE	2100 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	42000 UG/KG		
		NAPHTHALENE	2100 UG/KG	U	
		PHENANTHRENE	59000 UG/KG		
		PYRENE	480000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	79 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	580 MG/KG	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.79 MG/KG	U	
	PH	PH	6.42	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	37.0 %MST		
122-S25-059	CLP SVOA	ACENAPHTHENE	520 UG/KG	J	g
ALP02		ACENAPHTHYLENE	250 UG/KG	J	g
S25-SB24-1		ANTHRACENE	650 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	1600 UG/KG		
		BENZO(A)PYRENE	2200 UG/KG		
		BENZO(B)FLUORANTHENE	2200 UG/KG		
		BENZO(G,H,I)PERYLENE	1000 UG/KG		
		BENZO(K)FLUORANTHENE	750 UG/KG		
		CHRYSENE	1600 UG/KG		
		DIBENZ(A,H)ANTHRACENE	46 UG/KG	J	g
		FLUORANTHENE	5100 UG/KG		
		FLUORENE	250 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	1000 UG/KG		
		NAPHTHALENE	110 UG/KG	J	g
		PHENANTHRENE	5400 UG/KG		
		PYRENE	5600 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	U	
	PH	PH	6.63	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	8.0 %MST		
122-S25-060	AROMATIC VOLATILES	BENZENE	14 UG/KG		
ALP02		ETHYLBENZENE	81 UG/KG		
S25-SB24-4		METHYL-T-BUTYL ETHER (MTBE)	180 UG/KG	U	
3.50 - 4.00		TOLUENE	14 UG/KG		
		XYLENE (TOTAL)	99 UG/KG		
	CLP SVOA	ACENAPHTHENE	2300 UG/KG	J	g
		ACENAPHTHYLENE	16000 UG/KG	J	g
		ANTHRACENE	13000 UG/KG	J	g
		BENZO(A)ANTHRACENE	26000 UG/KG		
		BENZO(A)PYRENE	36000 UG/KG		
		BENZO(B)FLUORANTHENE	31000 UG/KG		
		BENZO(G,H,I)PERYLENE	23000 UG/KG		
		BENZO(K)FLUORANTHENE	10000 UG/KG	J	g
		CHRYSENE	24000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	4000 UG/KG	J	g
		FLUORANTHENE	74000 UG/KG		
		FLUORENE	7800 UG/KG	J	g

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-060	CLP SVOA	INDENO(1,2,3-CD)PYRENE	21000 UG/KG		
ALP02		NAPHTHALENE	20000 UG/KG		
S25-SB24-4		PHENANTHRENE	83000 UG/KG		
3.50 - 4.00		PYRENE	89000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	72 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	910 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	14 MG/KG		
	PH	PH	7.12	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	30.9 %MST		
122-S25-061	AROMATIC VOLATILES	BENZENE	0.57 UG/KG	U	
ALP02		ETHYLBENZENE	0.57 UG/KG	U	
S25-SB24-7		METHYL-T-BUTYL ETHER (MTBE)	29 UG/KG	U	
7.00 - 7.50		TOLUENE	0.57 UG/KG	U	
		XYLENE (TOTAL)	1.1 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	210 UG/KG	J	g
		ACENAPHTHYLENE	90 UG/KG	J	g
		ANTHRACENE	160 UG/KG	J	g
		BENZO(A)ANTHRACENE	370 UG/KG	J	g
		BENZO(A)PYRENE	610 UG/KG		
		BENZO(B)FLUORANTHENE	530 UG/KG		
		BENZO(G,H,I)PERYLENE	450 UG/KG		
		BENZO(K)FLUORANTHENE	130 UG/KG	J	g
		CHRYSENE	380 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	61 UG/KG	J	g
		FLUORANTHENE	1200 UG/KG		
		FLUORENE	76 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	390 UG/KG		
		NAPHTHALENE	130 UG/KG	J	g
		PHENANTHRENE	630 UG/KG		
		PYRENE	1400 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	18 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.57 MG/KG	U	
	PH	PH	8.08	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	12.9 %MST		
22-S25-062	AROMATIC VOLATILES	BENZENE	0.60 UG/KG	U	
LP02		ETHYLBENZENE	0.60 UG/KG	U	
S25-SB24-10		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
9.50 - 10.00		TOLUENE	0.60 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG		
	CLP SVOA	ACENAPHTHENE	23 UG/KG	J	g
		ACENAPHTHYLENE	390 UG/KG	U	
		ANTHRACENE	23 UG/KG	J	g
		BENZO(A)ANTHRACENE	52 UG/KG	J	g
		BENZO(A)PYRENE	74 UG/KG	J	g
		BENZO(B)FLUORANTHENE	68 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	62 UG/KG	J	g
		BENZO(K)FLUORANTHENE	21 UG/KG	J	g
		CHRYSENE	45 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	390 UG/KG	U	
		FLUORANTHENE	160 UG/KG	J	g
		FLUORENE	390 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	50 UG/KG	J	g
		NAPHTHALENE	28 UG/KG	J	g
		PHENANTHRENE	140 UG/KG	J	g
		PYRENE	190 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-062	TPH EXTRACTABLES (DIESEL)	MOTOR OIL RANGE ORGANICS	12 MG/KG	U	
ALP02	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.60 MG/KG	U	
S25-SB24-10	PH	PH	7.38	J	h
9.50 - 10.00	PERCENT MOISTURE	PERCENT MOISTURE	16.0 %MST		
122-S25-063	CLP SVOA	ACENAPHTHENE	550 UG/KG	J	g
ALP02		ACENAPHTHYLENE	580 UG/KG	J	g
S25-SB25-1		ANTHRACENE	780 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	3500 UG/KG		
		BENZO(A)PYRENE	7400 UG/KG		
		BENZO(B)FLUORANTHENE	6600 UG/KG		
		BENZO(G,H,I)PERYLENE	3600 UG/KG		
		BENZO(K)FLUORANTHENE	1500 UG/KG	J	g
		CHRYSENE	3800 UG/KG		
		DIBENZ(A,H)ANTHRACENE	520 UG/KG	J	g
		FLUORANTHENE	14000 UG/KG		
		FLUORENE	180 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	3700 UG/KG		
		NAPHTHALENE	430 UG/KG	J	g
		PHENANTHRENE	6000 UG/KG		
		PYRENE	13000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	55 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	160 MG/KG	J	y
	PH	PH	6.42	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	9.8 %MST		
122-S25-064	AROMATIC VOLATILES	BENZENE	0.52 UG/KG	U	
ALP02		ETHYLBENZENE	0.52 UG/KG	U	
S25-SB25-7		METHYL-T-BUTYL ETHER (MTBE)	14 UG/KG	J	g
6.50 - 7.00		TOLUENE	0.52 UG/KG	U	
		XYLENE (TOTAL)	1.0 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	90 UG/KG	J	g
		ACENAPHTHYLENE	470 UG/KG	J	g
		ANTHRACENE	500 UG/KG	J	g
		BENZO(A)ANTHRACENE	1800 UG/KG		
		BENZO(A)PYRENE	2800 UG/KG		
		BENZO(B)FLUORANTHENE	3000 UG/KG		
		BENZO(G,H,I)PERYLENE	1300 UG/KG	J	g
		BENZO(K)FLUORANTHENE	750 UG/KG	J	g
		CHRYSENE	1700 UG/KG		
		DIBENZ(A,H)ANTHRACENE	1400 UG/KG	U	
		FLUORANTHENE	5700 UG/KG		
		FLUORENE	230 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	1300 UG/KG	J	g
		NAPHTHALENE	110 UG/KG	J	g
		PHENANTHRENE	4300 UG/KG		
		PYRENE	6000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	10 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	62 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.52 MG/KG	U	
	PH	PH	7.23	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	4.3 %MST		
122-S25-065	CLP SVOA	ACENAPHTHENE	7300 UG/KG	U	
ALP03		ACENAPHTHYLENE	1700 UG/KG	J	g
S25-SB26-1		ANTHRACENE	1400 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	8700 UG/KG		
		BENZO(A)PYRENE	14000 UG/KG		
		BENZO(B)FLUORANTHENE	15000 UG/KG		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-065	CLP SVOA	BENZO(G,H,I)PERYLENE	11000 UG/KG		
ALP03		BENZO(K)FLUORANTHENE	3500 UG/KG	J	g
S25-SB26-1		CHRYSENE	9700 UG/KG		
0.50 - 1.00		DIBENZ(A,H)ANTHRACENE	1700 UG/KG	J	g
		FLUORANTHENE	26000 UG/KG		
		FLUORENE	440 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	10000 UG/KG		
		NAPHTHALENE	600 UG/KG	J	g
		PHENANTHRENE	12000 UG/KG		
		PYRENE	29000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	55 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	67 MG/KG	J	y
	PH	PH	6.32	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	9.1 %MST		
122-S25-066	AROMATIC VOLATILES	BENZENE	0.63 UG/KG	U	
ALP03		ETHYLBENZENE	0.63 UG/KG	U	
S25-SB26-7		METHYL-T-BUTYL ETHER (MTBE)	16 UG/KG	J	g
6.50 - 7.00		TOLUENE	0.63 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	220 UG/KG	J	g
		ACENAPHTHYLENE	710 UG/KG	J	g
		ANTHRACENE	930 UG/KG	J	g
		BENZO(A)ANTHRACENE	5700 UG/KG		
		BENZO(A)PYRENE	9000 UG/KG		
		BENZO(B)FLUORANTHENE	9000 UG/KG		
		BENZO(G,H,I)PERYLENE	6000 UG/KG		
		BENZO(K)FLUORANTHENE	3000 UG/KG	J	g
		CHRYSENE	5800 UG/KG		
		DIBENZ(A,H)ANTHRACENE	920 UG/KG	J	g
		FLUORANTHENE	17000 UG/KG		
		FLUORENE	4200 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	5600 UG/KG		
		NAPHTHALENE	340 UG/KG	J	g
		PHENANTHRENE	3700 UG/KG	J	g
		PYRENE	20000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	63 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	370 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.63 MG/KG	U	
	PH	PH	6.68	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	20.9 %MST		
122-S25-067	CLP SVOA	ACENAPHTHENE	140 UG/KG	U	
ALP05		ACENAPHTHYLENE	95 UG/KG	J	g
S25-SB27-1		ANTHRACENE	140 UG/KG	U	
0.50 - 1.00		BENZO(A)ANTHRACENE	430 UG/KG		
		BENZO(A)PYRENE	620 UG/KG		
		BENZO(B)FLUORANTHENE	610 UG/KG		
		BENZO(G,H,I)PERYLENE	350 UG/KG		
		BENZO(K)FLUORANTHENE	200 UG/KG		
		CHRYSENE	380 UG/KG		
		DIBENZ(A,H)ANTHRACENE	140 UG/KG	U	
		FLUORANTHENE	1100 UG/KG		
		FLUORENE	140 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	350 UG/KG		
		NAPHTHALENE	140 UG/KG	U	
		PHENANTHRENE	470 UG/KG		
		PYRENE	1400 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-067	TPH EXTRACTABLES (DIESEL)	MOTOR OIL RANGE ORGANICS	53 MG/KG	J	z
ALP05	PH	PH	7.14	J	h
S25-SB27-1	PERCENT MOISTURE	PERCENT MOISTURE	5.2 %MST		
0.50 - 1.00					
122-S25-068	AROMATIC VOLATILES	BENZENE	0.61 UG/KG	U	
ALP05		ETHYLBENZENE	0.61 UG/KG	U	
S25-SB27-7		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
6.50 - 7.00		TOLUENE	0.61 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG	J	g
	CLP SVOA	ACENAPHTHENE	84 UG/KG	J	g
		ACENAPHTHYLENE	310 UG/KG		
		ANTHRACENE	260 UG/KG		
		BENZO(A)ANTHRACENE	1600 UG/KG		
		BENZO(A)PYRENE	2700 UG/KG		
		BENZO(B)FLUORANTHENE	2400 UG/KG		
		BENZO(G,H,I)PERYLENE	2100 UG/KG		
		BENZO(K)FLUORANTHENE	890 UG/KG		
		CHRYSENE	1700 UG/KG		
		DIBENZ(A,H)ANTHRACENE	300 UG/KG		
		FLUORANTHENE	4500 UG/KG		
		FLUORENE	160 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	1700 UG/KG		
		NAPHTHALENE	130 UG/KG	J	g
		PHENANTHRENE	1700 UG/KG		
		PYRENE	5100 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	100 MG/KG	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.61 MG/KG	U	
	PH	PH	6.37	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	17.6 %MST		
122-S25-069	CLP SVOA	ACENAPHTHENE	940 UG/KG	J	g
ALP03		ACENAPHTHYLENE	1500 UG/KG	J	g
S25-SB28-1		ANTHRACENE	1100 UG/KG	J	g
0.50 - 1.00		BENZO(A)ANTHRACENE	8100 UG/KG		
		BENZO(A)PYRENE	12000 UG/KG		
		BENZO(B)FLUORANTHENE	12000 UG/KG		
		BENZO(G,H,I)PERYLENE	8800 UG/KG		
		BENZO(K)FLUORANTHENE	2800 UG/KG	J	g
		CHRYSENE	7900 UG/KG		
		DIBENZ(A,H)ANTHRACENE	1400 UG/KG	J	g
		FLUORANTHENE	23000 UG/KG		
		FLUORENE	7800 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	8300 UG/KG		
		NAPHTHALENE	1100 UG/KG	J	g
		PHENANTHRENE	11000 UG/KG		
		PYRENE	28000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	59 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	540 MG/KG	J	y
	PH	PH	6.63	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	15.5 %MST		
122-S25-070	AROMATIC VOLATILES	BENZENE	0.73 UG/KG	U	
ALP03		ETHYLBENZENE	0.73 UG/KG	U	
S25-SB28-4		METHYL-T-BUTYL ETHER (MTBE)	22 UG/KG	J	g
4.00 - 4.50		TOLUENE	0.73 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	ACENAPHTHENE	29 UG/KG	J	g

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-070	CLP SVOA	ACENAPHTHYLENE	74 UG/KG	J	g
ALP03		ANTHRACENE	43 UG/KG	J	g
S25-SB28-4		BENZO(A)ANTHRACENE	360 UG/KG	J	g
4.00 - 4.50		BENZO(A)PYRENE	720 UG/KG		
		BENZO(B)FLUORANTHENE	760 UG/KG		
		BENZO(G,H,I)PERYLENE	700 UG/KG		
		BENZO(K)FLUORANTHENE	210 UG/KG	J	g
		CHRYSENE	440 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	91 UG/KG	J	g
		FLUORANTHENE	920 UG/KG		
		FLUORENE	480 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	600 UG/KG		
		NAPHTHALENE	32 UG/KG	J	g
		PHENANTHRENE	360 UG/KG	J	g
		PYRENE	1200 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	15 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	130 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.73 MG/KG	U	
	PH	PH	4.09	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	31.9 %MST		
122-S25-071	AROMATIC VOLATILES	BENZENE	0.60 UG/KG	U	
ALP03		ETHYLBENZENE	0.60 UG/KG	U	
S25-SB28-7		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
7.00 - 7.50		TOLUENE	0.60 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	160 UG/KG	J	g
		ACENAPHTHYLENE	270 UG/KG	J	g
		ANTHRACENE	280 UG/KG	J	g
		BENZO(A)ANTHRACENE	2100 UG/KG	J	g
		BENZO(A)PYRENE	2900 UG/KG	J	g
		BENZO(B)FLUORANTHENE	2400 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	1600 UG/KG	J	g
		BENZO(K)FLUORANTHENE	700 UG/KG	J	g
		CHRYSENE	2100 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	170 UG/KG	J	g
		FLUORANTHENE	17000 UG/KG		
		FLUORENE	3200 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	1400 UG/KG	J	g
		NAPHTHALENE	280 UG/KG	J	g
		PHENANTHRENE	740 UG/KG	J	g
		PYRENE	21000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	60 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	160 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.60 MG/KG	U	
	PH	PH	8.08	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	17.1 %MST		
122-S25-072	AROMATIC VOLATILES	BENZENE	0.79 UG/KG	U	
ALP03		ETHYLBENZENE	0.79 UG/KG	U	
S25-SB28-10		METHYL-T-BUTYL ETHER (MTBE)	28 UG/KG	J	g
9.50 - 10.00		TOLUENE	0.79 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	150 UG/KG	J	g
		ACENAPHTHYLENE	35 UG/KG	J	g
		ANTHRACENE	130 UG/KG	J	g
		BENZO(A)ANTHRACENE	350 UG/KG	J	g
		BENZO(A)PYRENE	660 UG/KG		
		BENZO(B)FLUORANTHENE	600 UG/KG		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-072	CLP SVOA	BENZO(G,H,I)PERYLENE	340 UG/KG	J	g
ALP03		BENZO(K)FLUORANTHENE	140 UG/KG	J	g
S25-SB28-10		CHRYSENE	400 UG/KG	J	g
9.50 - 10.00		DIBENZ(A,H)ANTHRACENE	45 UG/KG	J	g
		FLUORANTHENE	1300 UG/KG		
		FLUORENE	520 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	310 UG/KG	J	g
		NAPHTHALENE	160 UG/KG	J	g
		PHENANTHRENE	210 UG/KG	J	g
		PYRENE	1600 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	100 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.79 MG/KG	U	
	PH	PH	8.68	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	36.5 %MST		
122-S25-073	CLP SVOA	ACENAPHTHENE	540 UG/KG		
ALP05		ACENAPHTHYLENE	750 UG/KG		
S25-SB29-1		ANTHRACENE	930 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	5300 UG/KG		
		BENZO(A)PYRENE	7300 UG/KG		
		BENZO(B)FLUORANTHENE	8200 UG/KG		
		BENZO(G,H,I)PERYLENE	2800 UG/KG		
		BENZO(K)FLUORANTHENE	2100 UG/KG		
		CHRYSENE	5000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	510 UG/KG		
		FLUORANTHENE	13000 UG/KG		
		FLUORENE	220 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	2900 UG/KG		
		NAPHTHALENE	440 UG/KG		
		PHENANTHRENE	7000 UG/KG		
		PYRENE	16000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	266 MG/KG	J	z
	PH	PH	6.85	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	7.6 %MST		
22-S25-074	AROMATIC VOLATILES	BENZENE	0.58 UG/KG	U	
ALP05		ETHYLBENZENE	0.58 UG/KG	U	
S25-SB29-7		METHYL-T-BUTYL ETHER (MTBE)	29 UG/KG	U	
6.50 - 7.00		TOLUENE	0.58 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG	J	g
	CLP SVOA	ACENAPHTHENE	590 UG/KG		
		ACENAPHTHYLENE	810 UG/KG		
		ANTHRACENE	1000 UG/KG		
		BENZO(A)ANTHRACENE	5300 UG/KG		
		BENZO(A)PYRENE	7900 UG/KG		
		BENZO(B)FLUORANTHENE	7400 UG/KG		
		BENZO(G,H,I)PERYLENE	5400 UG/KG		
		BENZO(K)FLUORANTHENE	2100 UG/KG		
		CHRYSENE	6000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	860 UG/KG		
		FLUORANTHENE	14000 UG/KG		
		FLUORENE	220 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	4200 UG/KG		
		NAPHTHALENE	450 UG/KG		
		PHENANTHRENE	7600 UG/KG		
		PYRENE	17000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	58 MG/KG	U	

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-074	TPH EXTRACTABLES (DIESEL)	MOTOR OIL RANGE ORGANICS	270 MG/KG	J	z
ALP05	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.58 MG/KG	U	
S25-SB29-7	PH	PH	7.12	J	h
6.50 - 7.00	PERCENT MOISTURE	PERCENT MOISTURE	13.1 %MST		
122-S25-075	CLP SVOA	ACENAPHTHENE	1400 UG/KG	U	
ALP03		ACENAPHTHYLENE	370 UG/KG	J	g
S25-SB30-2		ANTHRACENE	310 UG/KG	J	g
1.50 - 2.00		BENZO(A)ANTHRACENE	1600 UG/KG		
		BENZO(A)PYRENE	2300 UG/KG		
		BENZO(B)FLUORANTHENE	2500 UG/KG		
		BENZO(G,H,I)PERYLENE	1200 UG/KG	J	g
		BENZO(K)FLUORANTHENE	850 UG/KG	J	g
		CHRYSENE	1600 UG/KG		
		DIBENZ(A,H)ANTHRACENE	210 UG/KG	J	g
		FLUORANTHENE	4700 UG/KG		
		FLUORENE	100 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	1200 UG/KG	J	g
		NAPHTHALENE	70 UG/KG	J	g
		PHENANTHRENE	3000 UG/KG		
		PYRENE	5400 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	10 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	37 MG/KG	J	y
	PH	PH	6.38	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	3.4 %MST		
122-S25-076	AROMATIC VOLATILES	BENZENE	0.55 UG/KG	U	
ALP03		ETHYLBENZENE	0.55 UG/KG	U	
S25-SB30-4		METHYL-T-BUTYL ETHER (MTBE)	27 UG/KG	U	
3.50 - 4.00		TOLUENE	0.55 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG	J	g
	CLP SVOA	ACENAPHTHENE	360 UG/KG	U	
		ACENAPHTHYLENE	30 UG/KG	J	g
		ANTHRACENE	45 UG/KG	J	g
		BENZO(A)ANTHRACENE	260 UG/KG	J	g
		BENZO(A)PYRENE	370 UG/KG		
		BENZO(B)FLUORANTHENE	370 UG/KG		
		BENZO(G,H,I)PERYLENE	220 UG/KG	J	g
		BENZO(K)FLUORANTHENE	95 UG/KG	J	g
		CHRYSENE	240 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	34 UG/KG	J	g
		FLUORANTHENE	630 UG/KG		
		FLUORENE	360 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	200 UG/KG	J	g
		NAPHTHALENE	360 UG/KG	U	
		PHENANTHRENE	300 UG/KG	J	g
		PYRENE	750 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.55 MG/KG	U	
	PH	PH	6.49	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	8.7 %MST		
122-S25-077	AROMATIC VOLATILES	BENZENE	5.6 UG/KG		
ALP03		ETHYLBENZENE	6.6 UG/KG		
S25-SB30-7		METHYL-T-BUTYL ETHER (MTBE)	19 UG/KG	J	g
6.50 - 7.00		TOLUENE	1 UG/KG		
		XYLENE (TOTAL)	3.3 UG/KG		
	CLP SVOA	ACENAPHTHENE	9000 UG/KG	J	g

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-077	CLP SVOA	ACENAPHTHYLENE	2300 UG/KG	J	g
ALP03		ANTHRACENE	8200 UG/KG	J	g
S25-SB30-7		BENZO(A)ANTHRACENE	35000 UG/KG	J	g
6.50 - 7.00		BENZO(A)PYRENE	73000 UG/KG		
		BENZO(B)FLUORANTHENE	63000 UG/KG		
		BENZO(G,H,I)PERYLENE	66000 UG/KG		
		BENZO(K)FLUORANTHENE	17000 UG/KG	J	g
		CHRYSENE	40000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	6900 UG/KG	J	g
		FLUORANTHENE	150000 UG/KG		
		FLUORENE	3300 UG/KG	J	g
		INDENO(1,2,3-CD)PYRENE	55000 UG/KG		
		NAPHTHALENE	3900 UG/KG	J	g
		PHENANTHRENE	17000 UG/KG	J	g
		PYRENE	160000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	70 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	1820 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.70 MG/KG	U	
	PH	PH	8.48	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	28.4 %MST		
122-S25-078	AROMATIC VOLATILES	BENZENE	0.59 UG/KG	U	
ALP03		ETHYLBENZENE	0.59 UG/KG	U	
S25-SB30-10		METHYL-T-BUTYL ETHER (MTBE)	30 UG/KG	U	
9.50 - 10.00		TOLUENE	0.59 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	390 UG/KG	U	
		ACENAPHTHYLENE	390 UG/KG	U	
		ANTHRACENE	390 UG/KG	U	
		BENZO(A)ANTHRACENE	26 UG/KG	J	g
		BENZO(A)PYRENE	60 UG/KG	J	g
		BENZO(B)FLUORANTHENE	50 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	72 UG/KG	J	g
		BENZO(K)FLUORANTHENE	390 UG/KG	U	
		CHRYSENE	33 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	390 UG/KG	U	
		FLUORANTHENE	61 UG/KG	J	g
		FLUORENE	390 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	51 UG/KG	J	g
		NAPHTHALENE	390 UG/KG	U	
		PHENANTHRENE	390 UG/KG	U	
		PYRENE	82 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	12 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	11 MG/KG	J	gy
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.59 MG/KG	U	
	PH	PH	7.56	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	15.5 %MST		
122-S25-079	CLP SVOA	ACENAPHTHENE	44 UG/KG		
ALP05		ACENAPHTHYLENE	130 UG/KG		
S25-SB31-1		ANTHRACENE	90 UG/KG		
0.50 - 1.00		BENZO(A)ANTHRACENE	620 UG/KG		
		BENZO(A)PYRENE	860 UG/KG		
		BENZO(B)FLUORANTHENE	910 UG/KG		
		BENZO(G,H,I)PERYLENE	690 UG/KG		
		BENZO(K)FLUORANTHENE	210 UG/KG		
		CHRYSENE	580 UG/KG		
		DIBENZ(A,H)ANTHRACENE	110 UG/KG		
		FLUORANTHENE	1600 UG/KG		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-079	CLP SVOA	FLUORENE	28 UG/KG	J	g
ALP05		INDENO(1,2,3-CD)PYRENE	530 UG/KG		
S25-SB31-1		NAPHTHALENE	36 UG/KG		
0.50 - 1.00		PHENANTHRENE	870 UG/KG		
		PYRENE	1900 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	56 MG/KG	J	z
	PH	PH	7.12	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	5.5 %MST		
122-S25-080	AROMATIC VOLATILES	BENZENE	0.62 UG/KG	U	
ALP05		ETHYLBENZENE	0.62 UG/KG	U	
S25-SB31-7		METHYL-T-BUTYL ETHER (MTBE)	31 UG/KG	U	
6.50 - 7.00		TOLUENE	0.62 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG	J	g
	CLP SVOA	ACENAPHTHENE	17000 UG/KG		
		ACENAPHTHYLENE	87000 UG/KG		
		ANTHRACENE	60000 UG/KG		
		BENZO(A)ANTHRACENE	85000 UG/KG		
		BENZO(A)PYRENE	150000 UG/KG		
		BENZO(B)FLUORANTHENE	130000 UG/KG		
		BENZO(G,H,I)PERYLENE	66000 UG/KG		
		BENZO(K)FLUORANTHENE	43000 UG/KG		
		CHRYSENE	93000 UG/KG		
		DIBENZ(A,H)ANTHRACENE	9100 UG/KG		
		FLUORANTHENE	370000 UG/KG	J	h
		FLUORENE	17000 UG/KG		
		INDENO(1,2,3-CD)PYRENE	58000 UG/KG		
		NAPHTHALENE	45000 UG/KG		
		PHENANTHRENE	380000 UG/KG	J	h
		PYRENE	380000 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	62 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	1610 MG/KG	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.62 MG/KG	U	
	PH	PH	8.21	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	18.9 %MST		
22-S25-081	CLP SVOA	2-METHYLNAPHTHALENE	2.7 UG/KG	R	h
LP20		ACENAPHTHENE	2.7 UG/KG	R	h
S25-SB32-1		ACENAPHTHYLENE	7.3 UG/KG	J	h
0.50 - 1.00		ANTHRACENE	5.3 UG/KG	J	h
		BENZ(A)ANTHRACENE	2.7 UG/KG	R	h
		BENZO(A)PYRENE	78 UG/KG	J	e,h
		BENZO(B)FLUORANTHENE	2.7 UG/KG	R	h
		BENZO(G,H,I)PERYLENE	34 UG/KG	J	e,h
		BENZO(K)FLUORANTHENE	2.7 UG/KG	R	h
		CHRYSENE	2.7 UG/KG	R	h
		DIBENZ(A,H)ANTHRACENE	2.7 UG/KG	R	h
		FLUORANTHENE	93 UG/KG	J	h
		FLUORENE	2.7 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	26 UG/KG	J	e,h
		NAPHTHALENE	4.2 UG/KG	J	h
		PHENANTHRENE	28 UG/KG	J	h
		PYRENE	131 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	72 MG/KG	J	y
	PH	PH	7.15	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	7.3 %MST		
122-S25-082	AROMATIC VOLATILES	BENZENE	0.81 UG/KG	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-082	AROMATIC VOLATILES	ETHYLBENZENE	0.81 UG/KG	U	
ALP05		METHYL-T-BUTYL ETHER (MTBE)	41 UG/KG	U	
S25-SB32-7		TOLUENE	0.81 UG/KG	U	
6.50 - 7.00		XYLENE (TOTAL)	1.6 UG/KG	U	
	CLP SVOA	ACENAPHTHENE	210 UG/KG	U	
		ACENAPHTHYLENE	120 UG/KG	J	g
		ANTHRACENE	120 UG/KG	J	g
		BENZO(A)ANTHRACENE	860 UG/KG		
		BENZO(A)PYRENE	3700 UG/KG		
		BENZO(B)FLUORANTHENE	3300 UG/KG		
		BENZO(G,H,I)PERYLENE	3000 UG/KG		
		BENZO(K)FLUORANTHENE	1200 UG/KG		
		CHRYSENE	1300 UG/KG		
		DIBENZ(A,H)ANTHRACENE	330 UG/KG		
		FLUORANTHENE	1700 UG/KG		
		FLUORENE	210 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	2200 UG/KG		
		NAPHTHALENE	240 UG/KG		
		PHENANTHRENE	370 UG/KG		
		PYRENE	6400 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	456 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.81 MG/KG	U	
	PH	PH	6.92	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	38.6 %MST		
122-S25-083	CLP SVOA	ACENAPHTHENE	1400 UG/KG	U	
ALP05		ACENAPHTHYLENE	1400 UG/KG	U	
S25-SB33-1		ANTHRACENE	1400 UG/KG	U	
0.50 - 1.00		BENZO(A)ANTHRACENE	1900 UG/KG		
		BENZO(A)PYRENE	2500 UG/KG		
		BENZO(B)FLUORANTHENE	2400 UG/KG		
		BENZO(G,H,I)PERYLENE	1500 UG/KG		
		BENZO(K)FLUORANTHENE	890 UG/KG		
		CHRYSENE	1700 UG/KG		
		DIBENZ(A,H)ANTHRACENE	1400 UG/KG	U	
		FLUORANTHENE	4200 UG/KG		
		FLUORENE	1400 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	1400 UG/KG		
		NAPHTHALENE	1400 UG/KG	U	
		PHENANTHRENE	2500 UG/KG		
		PYRENE	5000 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	100 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	1700 MG/KG	J	y
	PH	PH	6.79	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	3.0 %MST		
122-S25-084	AROMATIC VOLATILES	BENZENE	0.73 UG/KG	U	
ALP05		ETHYLBENZENE	0.73 UG/KG	U	
S25-SB33-7		METHYL-T-BUTYL ETHER (MTBE)	37 UG/KG	U	
6.50 - 7.00		TOLUENE	0.73 UG/KG	U	
		XYLENE (TOTAL)	1 UG/KG	J	g
	CLP SVOA	ACENAPHTHENE	48 UG/KG	U	
		ACENAPHTHYLENE	48 UG/KG	U	
		ANTHRACENE	48 UG/KG	U	
		BENZO(A)ANTHRACENE	150 UG/KG		
		BENZO(A)PYRENE	270 UG/KG		
		BENZO(B)FLUORANTHENE	260 UG/KG		
		BENZO(G,H,I)PERYLENE	220 UG/KG		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-084	CLP SVOA	BENZO(K)FLUORANTHENE	80 UG/KG		
ALP05		CHRYSENE	160 UG/KG		
S25-SB33-7		DIBENZ(A,H)ANTHRACENE	48 UG/KG	U	
6.50 - 7.00		FLUORANTHENE	280 UG/KG		
		FLUORENE	48 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	160 UG/KG		
		NAPHTHALENE	48 UG/KG	U	
		PHENANTHRENE	78 UG/KG		
		PYRENE	570 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	15 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	120 MG/KG	J	a,y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.73 MG/KG	U	
	PH	PH	7.42	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	31.9 %MST		
122-S25-085	CLP SVOA	ACENAPHTHENE	360 UG/KG	U	
ALP03		ACENAPHTHYLENE	360 UG/KG	U	
S25-SB34-1		ANTHRACENE	360 UG/KG	U	
1.00 - 1.50		BENZO(A)ANTHRACENE	120 UG/KG	J	g
		BENZO(A)PYRENE	220 UG/KG	J	g
		BENZO(B)FLUORANTHENE	280 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	160 UG/KG	J	g
		BENZO(K)FLUORANTHENE	340 UG/KG	J	g
		CHRYSENE	120 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	360 UG/KG	U	
		FLUORANTHENE	290 UG/KG	J	g
		FLUORENE	360 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	120 UG/KG	J	g
		NAPHTHALENE	360 UG/KG	U	
		PHENANTHRENE	100 UG/KG	J	g
		PYRENE	330 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	53 MG/KG		
	PH	PH	7.27	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	7.6 %MST		
122-S25-086	AROMATIC VOLATILES	BENZENE	0.90 UG/KG	U	
ALP03		ETHYLBENZENE	0.90 UG/KG	U	
S25-SB34-4		METHYL-T-BUTYL ETHER (MTBE)	45 UG/KG	U	
4.00 - 4.50		TOLUENE	0.90 UG/KG	U	
		XYLENE (TOTAL)	3 UG/KG		
	CLP SVOA	ACENAPHTHENE	600 UG/KG	U	
		ACENAPHTHYLENE	600 UG/KG	U	
		ANTHRACENE	600 UG/KG	U	
		BENZO(A)ANTHRACENE	180 UG/KG	J	g
		BENZO(A)PYRENE	920 UG/KG		
		BENZO(B)FLUORANTHENE	890 UG/KG		
		BENZO(G,H,I)PERYLENE	470 UG/KG	J	g
		BENZO(K)FLUORANTHENE	320 UG/KG	J	g
		CHRYSENE	300 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	68 UG/KG	J	g
		FLUORANTHENE	600 UG/KG		
		FLUORENE	600 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	360 UG/KG	J	g
		NAPHTHALENE	83 UG/KG	J	g
		PHENANTHRENE	110 UG/KG	J	g
		PYRENE	1800 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	18 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	230 MG/KG		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-086	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.90 MG/KG	U	
ALP03	PH	PH	7.68	J	h
S25-SB34-4	PERCENT MOISTURE	PERCENT MOISTURE	44.7 %MST		
4.00 - 4.50					
122-S25-087	AROMATIC VOLATILES	BENZENE	0.84 UG/KG	U	
ALP03		ETHYLBENZENE	0.84 UG/KG	U	
S25-SB34-7		METHYL-T-BUTYL ETHER (MTBE)	42 UG/KG	U	
6.50 - 7.00		TOLUENE	0.84 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	560 UG/KG	U	
		ACENAPHTHYLENE	560 UG/KG	U	
		ANTHRACENE	560 UG/KG	U	
		BENZO(A)ANTHRACENE	61 UG/KG	J	g
		BENZO(A)PYRENE	140 UG/KG	J	g
		BENZO(B)FLUORANTHENE	160 UG/KG	J	g
		BENZO(G,H,I)PERYLENE	81 UG/KG	J	g
		BENZO(K)FLUORANTHENE	220 UG/KG	J	g
		CHRYSENE	69 UG/KG	J	g
		DIBENZ(A,H)ANTHRACENE	560 UG/KG	U	
		FLUORANTHENE	130 UG/KG	J	g
		FLUORENE	560 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	60 UG/KG	J	g
		NAPHTHALENE	560 UG/KG	U	
		PHENANTHRENE	560 UG/KG	U	
		PYRENE	320 UG/KG	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	17 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	35 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.84 MG/KG	U	
	PH	PH	8.72	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	40.7 %MST		
122-S25-088	AROMATIC VOLATILES	BENZENE	0.87 UG/KG	U	
ALP03		ETHYLBENZENE	0.87 UG/KG	U	
S25-SB34-10		METHYL-T-BUTYL ETHER (MTBE)	44 UG/KG	U	
9.50 - 10.00		TOLUENE	0.87 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG	J	g
	CLP SVOA	2-METHYLNAPHTHALENE	4.4 UG/KG	R	h
		ACENAPHTHENE	4.4 UG/KG	R	h
		ACENAPHTHYLENE	4.4 UG/KG	R	h
		ANTHRACENE	4.4 UG/KG	R	h
		BENZ(A)ANTHRACENE	4.4 UG/KG	R	h
		BENZO(A)PYRENE	20 UG/KG	J	e,h
		BENZO(B)FLUORANTHENE	31 UG/KG	J	e,h
		BENZO(G,H,I)PERYLENE	8.4 UG/KG	J	e,h
		BENZO(K)FLUORANTHENE	4.4 UG/KG	R	h
		CHRYSENE	4.4 UG/KG	R	h
		DIBENZ(A,H)ANTHRACENE	4.4 UG/KG	R	h
		FLUORANTHENE	19 UG/KG	J	h
		FLUORENE	4.4 UG/KG	R	h
		INDENO(1,2,3-CD)PYRENE	6.9 UG/KG	J	e,h
		NAPHTHALENE	4.4 UG/KG	R	h
		PHENANTHRENE	8.0 UG/KG	J	h
		PYRENE	39 UG/KG	J	h
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	9 MG/KG	J	g
		MOTOR OIL RANGE ORGANICS	65 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.87 MG/KG	U	
	PH	PH	6.80	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	42.6 %MST		

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 3

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

SOIL

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-089	CLP SVOA	ACENAPHTHENE	36 UG/KG	U	
ALP05		ACENAPHTHYLENE	25 UG/KG		
S25-SB35-1		ANTHRACENE	36 UG/KG	U	
0.50 - 1.00		BENZO(A)ANTHRACENE	86 UG/KG		
		BENZO(A)PYRENE	110 UG/KG		
		BENZO(B)FLUORANTHENE	150 UG/KG		
		BENZO(G,H,I)PERYLENE	75 UG/KG		
		BENZO(K)FLUORANTHENE	49 UG/KG		
		CHRYSENE	88 UG/KG		
		DIBENZ(A,H)ANTHRACENE	36 UG/KG	U	
		FLUORANTHENE	200 UG/KG		
		FLUORENE	36 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	60 UG/KG		
		NAPHTHALENE	36 UG/KG	U	
		PHENANTHRENE	130 UG/KG		
		PYRENE	250 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	11 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	70 MG/KG	J	y
	PH	PH	6.61	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	7.7 %MST		
122-S25-090	AROMATIC VOLATILES	BENZENE	0.78 UG/KG	U	
ALP05		ETHYLBENZENE	0.78 UG/KG	U	
S25-SB35-7		METHYL-T-BUTYL ETHER (MTBE)	39 UG/KG	U	
6.50 - 7.00		TOLUENE	0.78 UG/KG	U	
		XYLENE (TOTAL)	2 UG/KG		
	CLP SVOA	ACENAPHTHENE	51 UG/KG	U	
		ACENAPHTHYLENE	30 UG/KG	J	g
		ANTHRACENE	30 UG/KG	J	g
		BENZO(A)ANTHRACENE	290 UG/KG		
		BENZO(A)PYRENE	900 UG/KG		
		BENZO(B)FLUORANTHENE	900 UG/KG		
		BENZO(G,H,I)PERYLENE	390 UG/KG		
		BENZO(K)FLUORANTHENE	240 UG/KG		
		CHRYSENE	310 UG/KG		
		DIBENZ(A,H)ANTHRACENE	49 UG/KG	J	g
		FLUORANTHENE	580 UG/KG		
		FLUORENE	51 UG/KG	U	
		INDENO(1,2,3-CD)PYRENE	380 UG/KG		
		NAPHTHALENE	56 UG/KG		
		PHENANTHRENE	86 UG/KG		
		PYRENE	1300 UG/KG		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	16 MG/KG	U	
		MOTOR OIL RANGE ORGANICS	120 MG/KG	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.78 MG/KG	U	
	PH	PH	8.21	J	h
	PERCENT MOISTURE	PERCENT MOISTURE	35.9 %MST		

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 4

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ALAMEDA CTO 122
SITE 25
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-091	CLP VOA	1,1,1-TRICHLOROETHANE	2 UG/L	U	
ALP06		1,1,2,2-TETRACHLOROETHANE	2 UG/L	U	
S25-SB01-HP		1,1,2-TRICHLOROETHANE	2 UG/L	U	
8.00 - 10.00		1,1-DICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHENE	2 UG/L	U	
		1,2-DICHLOROETHANE	0.5 UG/L	U	
		1,2-DICHLOROETHENE (TOTAL)	2 UG/L	U	
		1,2-DICHLOROPROPANE	2 UG/L	U	
		2-BUTANONE	2 UG/L	UJ	b
		2-HEXANONE	2 UG/L	UJ	f
		4-METHYL-2-PENTANONE	2 UG/L	U	
		ACETONE	4 UG/L	UJ	b
		BENZENE	0.5 UG/L	J	
		BROMODICHLOROMETHANE	2 UG/L	U	
		BROMOFORM	2 UG/L	U	
		BROMOMETHANE	2 UG/L	U	
		CARBON DISULFIDE	2 UG/L		
		CARBON TETRACHLORIDE	0.5 UG/L	UJ	f
		CHLOROBENZENE	2 UG/L	U	
		CHLOROETHANE	2 UG/L	U	
		CHLOROFORM	2 UG/L	U	
		CHLOROMETHANE	2 UG/L	UJ	f
		CIS-1,3-DICHLOROPROPENE	2 UG/L	U	
		DIBROMOCHLOROMETHANE	2 UG/L	U	
		ETHYLBENZENE	0.8 UG/L	J	g
		METHYLENE CHLORIDE	2 UG/L	U	
		STYRENE	2 UG/L	U	
		TETRACHLOROETHENE	2 UG/L	U	
		TOLUENE	2 UG/L	U	
		TRANS-1,3-DICHLOROPROPENE	0.5 UG/L	U	
		TRICHLOROETHENE	2 UG/L	U	
		VINYL CHLORIDE	0.5 UG/L	U	
		XYLENE (TOTAL)	2 UG/L	U	
	CLP SVOA	ACENAPHTHENE	1 UG/L	J	g
		ACENAPHTHYLENE	6 UG/L		
		ANTHRACENE	3 UG/L	J	g
		BENZO(A)ANTHRACENE	1 UG/L	J	g
		BENZO(A)PYRENE	2 UG/L	J	g
		BENZO(B)FLUORANTHENE	1 UG/L	J	g
		BENZO(G,H,I)PERYLENE	1 UG/L	J	g
		BENZO(K)FLUORANTHENE	5 UG/L	U	
		CHRYSENE	2 UG/L	J	g
		DIBENZ(A,H)ANTHRACENE	5 UG/L	U	
		FLUORANTHENE	11 UG/L		
		FLUORENE	5 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	0.7 UG/L	J	g
		NAPHTHALENE	5 UG/L	U	
		PHENANTHRENE	0.9 UG/L	J	g
		PYRENE	10 UG/L		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.44 MG/L	J	y
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-092	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
ALP06		ETHYLBENZENE	0.5 UG/L	U	
S25-SB04-HP		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
8.00 - 10.00		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	ACENAPHTHENE	5 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-092	CLP SVOA	ACENAPHTHYLENE	5 UG/L	U	
ALP06		ANTHRACENE	5 UG/L	U	
S25-SB04-HP		BENZO(A)ANTHRACENE	5 UG/L	U	
8.00 - 10.00		BENZO(A)PYRENE	5 UG/L	U	
		BENZO(B)FLUORANTHENE	5 UG/L	U	
		BENZO(G,H,I)PERYLENE	5 UG/L	U	
		BENZO(K)FLUORANTHENE	5 UG/L	U	
		CHRYSENE	5 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	5 UG/L	U	
		FLUORANTHENE	5 UG/L	U	
		FLUORENE	5 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	5 UG/L	U	
		NAPHTHALENE	5 UG/L	U	
		PHENANTHRENE	5 UG/L	U	
		PYRENE	5 UG/L	U	
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	U	
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-093	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
ALP06		ETHYLBENZENE	0.5 UG/L	U	
S25-SB10-HP		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
8.00 - 10.00		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	ACENAPHTHENE	5 UG/L	U	
		ACENAPHTHYLENE	5 UG/L	U	
		ANTHRACENE	5 UG/L	U	
		BENZO(A)ANTHRACENE	5 UG/L	U	
		BENZO(A)PYRENE	5 UG/L	U	
		BENZO(B)FLUORANTHENE	5 UG/L	U	
		BENZO(G,H,I)PERYLENE	5 UG/L	U	
		BENZO(K)FLUORANTHENE	5 UG/L	U	
		CHRYSENE	5 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	5 UG/L	U	
		FLUORANTHENE	5 UG/L	U	
		FLUORENE	5 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	5 UG/L	U	
		NAPHTHALENE	5 UG/L	U	
		PHENANTHRENE	5 UG/L	U	
		PYRENE	5 UG/L	U	
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	U	
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-094	CLP VOA	1,1,1-TRICHLOROETHANE	2 UG/L	U	
ALP06		1,1,2,2-TETRACHLOROETHANE	2 UG/L	U	
S25-SB14-HP		1,1,2-TRICHLOROETHANE	2 UG/L	U	
8.00 - 10.00		1,1-DICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHENE	2 UG/L	U	
		1,2-DICHLOROETHANE	0.5 UG/L	U	
		1,2-DICHLOROETHENE (TOTAL)	2 UG/L	U	
		1,2-DICHLOROPROPANE	2 UG/L	U	
		2-BUTANONE	2 UG/L	U	
		2-HEXANONE	2 UG/L	UJ	f
		4-METHYL-2-PENTANONE	2 UG/L	U	
		ACETONE	3 UG/L	UJ	b
		BENZENE	0.5 UG/L	U	
		BROMODICHLOROMETHANE	2 UG/L	U	
		BROMOFORM	2 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-094	CLP VOA	BROMOMETHANE	2 UG/L	U	
ALP06		CARBON DISULFIDE	2 UG/L	U	
S25-SB14-HP		CARBON TETRACHLORIDE	0.5 UG/L	UJ	f
8.00 - 10.00		CHLOROBENZENE	2 UG/L	U	
		CHLOROETHANE	2 UG/L	U	
		CHLOROFORM	2 UG/L	U	
		CHLOROMETHANE	2 UG/L	UJ	f
		CIS-1,3-DICHLOROPROPENE	2 UG/L	U	
		DIBROMOCHLOROMETHANE	2 UG/L	U	
		ETHYLBENZENE	2 UG/L	U	
		METHYLENE CHLORIDE	2 UG/L	U	
		STYRENE	2 UG/L	U	
		TETRACHLOROETHENE	2 UG/L	U	
		TOLUENE	2 UG/L	U	
		TRANS-1,3-DICHLOROPROPENE	0.5 UG/L	U	
		TRICHLOROETHENE	2 UG/L	U	
		VINYL CHLORIDE	0.5 UG/L	U	
		XYLENE (TOTAL)	2 UG/L	U	
	CLP SVOA	ACENAPHTHENE	5 UG/L	U	
		ACENAPHTHYLENE	5 UG/L	U	
		ANTHRACENE	5 UG/L	U	
		BENZO(A)ANTHRACENE	5 UG/L	U	
		BENZO(A)PYRENE	5 UG/L	U	
		BENZO(B)FLUORANTHENE	5 UG/L	U	
		BENZO(G,H,I)PERYLENE	5 UG/L	U	
		BENZO(K)FLUORANTHENE	5 UG/L	U	
		CHRYSENE	5 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	5 UG/L	U	
		FLUORANTHENE	5 UG/L	U	
		FLUORENE	5 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	5 UG/L	U	
		NAPHTHALENE	5 UG/L	U	
		PHENANTHRENE	5 UG/L	U	
		PYRENE	5 UG/L	U	
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	U	
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-095	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
ALP06		ETHYLBENZENE	0.5 UG/L	U	
S25-SB16-HP		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
8.00 - 10.00		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	ACENAPHTHENE	1 UG/L	J	
		ACENAPHTHYLENE	5 UG/L	U	
		ANTHRACENE	5 UG/L	U	
		BENZO(A)ANTHRACENE	5 UG/L	U	
		BENZO(A)PYRENE	5 UG/L	U	
		BENZO(B)FLUORANTHENE	5 UG/L	U	
		BENZO(G,H,I)PERYLENE	5 UG/L	U	
		BENZO(K)FLUORANTHENE	5 UG/L	U	
		CHRYSENE	5 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	5 UG/L	U	
		FLUORANTHENE	0.5 UG/L	J	g
		FLUORENE	5 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	5 UG/L	U	
		NAPHTHALENE	5 UG/L	U	
		PHENANTHRENE	0.9 UG/L	J	g
		PYRENE	0.8 UG/L	J	g

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-095	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.08 MG/L	J	g,y
ALP06		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
S25-SB16-HP	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
8.00 - 10.00					
122-S25-096	AROMATIC VOLATILES	BENZENE	28.1 UG/L		
ALP08		ETHYLBENZENE	38.3 UG/L		
S25-SB22-HP		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
7:50 - 9.50		TOLUENE	1.9 UG/L		
		XYLENE (TOTAL)	10 UG/L		
	CLP SVOA	1,2,4-TRICHLOROBENZENE	40 UG/L	U	
		1,2-DICHLOROBENZENE	40 UG/L	U	
		1,3-DICHLOROBENZENE	40 UG/L	U	
		1,4-DICHLOROBENZENE	40 UG/L	U	
		2,4,5-TRICHLOROPHENOL	100 UG/L	U	
		2,4,6-TRICHLOROPHENOL	40 UG/L	U	
		2,4-DICHLOROPHENOL	40 UG/L	U	
		2,4-DIMETHYLPHENOL	40 UG/L	U	
		2,4-DINITROPHENOL	100 UG/L	R	f
		2,4-DINITROTOLUENE	40 UG/L	UJ	f
		2,6-DINITROTOLUENE	40 UG/L	UJ	f
		2-CHLORONAPHTHALENE	40 UG/L	U	
		2-CHLOROPHENOL	40 UG/L	U	
		2-METHYLNAPHTHALENE	54 UG/L		
		2-METHYLPHENOL	40 UG/L	U	
		2-NITROANILINE	100 UG/L	U	
		2-NITROPHENOL	40 UG/L	UJ	f
		3,3'-DICHLOROBENZIDINE	40 UG/L	UJ	f
		3-NITROANILINE	100 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	100 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	40 UG/L	U	
		4-CHLORO-3-METHYLPHENOL	40 UG/L	U	
		4-CHLOROANILINE	40 UG/L	UJ	f
		4-CHLOROPHENYL-PHENYLETHER	40 UG/L	U	
		4-METHYLPHENOL	40 UG/L	U	
		4-NITROANILINE	100 UG/L	U	
		4-NITROPHENOL	100 UG/L	U	
		ACENAPHTHENE	270 UG/L		
		ACENAPHTHYLENE	40 UG/L	U	
		ANTHRACENE	22 UG/L	J	g
		BENZO(A)ANTHRACENE	9 UG/L	J	g
		BENZO(A)PYRENE	12 UG/L	J	g
		BENZO(B)FLUORANTHENE	8 UG/L	J	g
		BENZO(G,H,I)PERYLENE	40 UG/L	U	
		BENZO(K)FLUORANTHENE	40 UG/L	U	
		BIS(2-CHLOROETHOXY)METHANE	40 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	40 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	40 UG/L	UJ	f
		BIS(2-ETHYLHEXYL)PHTHALATE	40 UG/L	U	
		BUTYLBENZYLPHTHALATE	40 UG/L	U	
		CARBAZOLE	280 UG/L	J	f
		CHRYSENE	14 UG/L	J	g
		DI-N-BUTYLPHTHALATE	40 UG/L	U	
		DI-N-OCTYLPHTHALATE	40 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	40 UG/L	U	
		DIBENZOFURAN	40 UG/L	U	
		DIETHYLPHTHALATE	40 UG/L	U	
		DIMETHYLPHTHALATE	40 UG/L	U	
		FLUORANTHENE	48 UG/L	UJ	b

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-096	CLP SVOA	FLUORENE	52 UG/L		
ALP08		HEXACHLOROBENZENE	40 UG/L	U	
S25-SB22-HP		HEXACHLOROBUTADIENE	40 UG/L	U	
7.50 - 9.50		HEXACHLOROCYCLOPENTADIENE	40 UG/L	U	
		HEXACHLOROETHANE	40 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	40 UG/L	U	
		ISOPHORONE	40 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	40 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	40 UG/L	U	
		NAPHTHALENE	10 UG/L	J	g
		NITROBENZENE	40 UG/L	U	
		PENTACHLOROPHENOL	100 UG/L	U	
		PHENANTHRENE	150 UG/L		
		PHENOL	40 UG/L	U	
		PYRENE	48 UG/L	UJ	b
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	4.71 MG/L	J	y
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.21 MG/L		
122-S25-097	CLP VOA	1,1,1-TRICHLOROETHANE	2 UG/L	U	
ALP08		1,1,2,2-TETRACHLOROETHANE	2 UG/L	U	
S25-SB30-HP DUP		1,1,2-TRICHLOROETHANE	2 UG/L	U	
7.50 - 9.50		1,1-DICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHENE	2 UG/L	U	
		1,2-DICHLOROETHANE	0.5 UG/L	U	
		1,2-DICHLOROETHENE (TOTAL)	2 UG/L	U	
		1,2-DICHLOROPROPANE	2 UG/L	U	
		2-BUTANONE	2 UG/L	U	
		2-HEXANONE	2 UG/L	UJ	f
		4-METHYL-2-PENTANONE	2 UG/L	U	
		ACETONE	2 UG/L	UJ	b
		BENZENE	0.5 UG/L	U	
		BROMODICHLOROMETHANE	2 UG/L	U	
		BROMOFORM	2 UG/L	U	
		BROMOMETHANE	2 UG/L	U	
		CARBON DISULFIDE	2 UG/L	U	
		CARBON TETRACHLORIDE	0.5 UG/L	UJ	f
		CHLOROBENZENE	2 UG/L	U	
		CHLOROETHANE	2 UG/L	U	
		CHLOROFORM	2 UG/L	U	
		CHLOROMETHANE	2 UG/L	U	
		CIS-1,3-DICHLOROPROPENE	2 UG/L	U	
		DIBROMOCHLOROMETHANE	2 UG/L	UJ	f
		ETHYLBENZENE	2 UG/L	U	
		METHYLENE CHLORIDE	2 UG/L	U	
		STYRENE	2 UG/L	U	
		TETRACHLOROETHENE	2 UG/L	U	
		TOLUENE	2 UG/L	U	
		TRANS-1,3-DICHLOROPROPENE	0.5 UG/L	U	
		TRICHLOROETHENE	2 UG/L	U	
		VINYL CHLORIDE	0.5 UG/L	U	
		XYLENE (TOTAL)	2 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	1 UG/L	U	
		1,2-DICHLOROBENZENE	1 UG/L	U	
		1,3-DICHLOROBENZENE	1 UG/L	U	
		1,4-DICHLOROBENZENE	1 UG/L	U	
		2,4,5-TRICHLOROPHENOL	3 UG/L	U	
		2,4,6-TRICHLOROPHENOL	1 UG/L	U	
		2,4-DICHLOROPHENOL	1 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-097	CLP SVOA	2,4-DIMETHYLPHENOL	1 UG/L	UJ	f
ALP08		2,4-DINITROPHENOL	3 UG/L	R	f
S25-SB30-HP DUP		2,4-DINITROTOLUENE	1 UG/L	U	
7.50 - 9.50		2,6-DINITROTOLUENE	1 UG/L	U	
		2-CHLORONAPHTHALENE	1 UG/L	U	
		2-CHLOROPHENOL	1 UG/L	U	
		2-METHYLNAPHTHALENE	1 UG/L	U	
		2-METHYLPHENOL	1 UG/L	U	
		2-NITROANILINE	3 UG/L	U	
		2-NITROPHENOL	1 UG/L	U	
		3,3'-DICHLOROBENZIDINE	1 UG/L	UJ	f
		3-NITROANILINE	3 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	3 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	1 UG/L	U	
		4-CHLORO-3-METHYLPHENOL	1 UG/L	U	
		4-CHLOROANILINE	1 UG/L	UJ	f
		4-CHLOROPHENYL-PHENYLETHER	1 UG/L	U	
		4-METHYLPHENOL	1 UG/L	U	
		4-NITROANILINE	3 UG/L	U	
		4-NITROPHENOL	3 UG/L	U	
		ACENAPHTHENE	0.5 UG/L	J	g
		ACENAPHTHYLENE	1 UG/L	U	
		ANTHRACENE	1 UG/L	U	
		BENZO(A)ANTHRACENE	1 UG/L	U	
		BENZO(A)PYRENE	1 UG/L	U	
		BENZO(B)FLUORANTHENE	1 UG/L	U	
		BENZO(G,H,I)PERYLENE	1 UG/L	U	
		BENZO(K)FLUORANTHENE	1 UG/L	U	
		BIS(2-CHLOROETHOXY)METHANE	1 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	1 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	1 UG/L	U	
		BIS(2-ETHYLHEXYL)PHTHALATE	1 UG/L	UJ	b
		BUTYLBENZYLPHTHALATE	1 UG/L	UJ	b
		CARBAZOLE	1 UG/L	UJ	f
		CHRYSENE	1 UG/L	U	
		DI-N-BUTYLPHTHALATE	1 UG/L	U	
		DI-N-OCTYLPHTHALATE	1 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	1 UG/L	U	
		DIBENZOFURAN	1 UG/L	U	
		DIETHYLPHTHALATE	1 UG/L	U	
		DIMETHYLPHTHALATE	1 UG/L	U	
		FLUORANTHENE	1 UG/L	UJ	b
		FLUORENE	1 UG/L	U	
		HEXACHLOROBENZENE	1 UG/L	U	
		HEXACHLOROBUTADIENE	1 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	1 UG/L	U	
		HEXACHLOROETHANE	1 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	1 UG/L	U	
		ISOPHORONE	1 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	1 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	1 UG/L	U	
		NAPHTHALENE	1 UG/L	U	
		NITROBENZENE	1 UG/L	U	
		PENTACHLOROPHENOL	3 UG/L	U	
		PHENANTHRENE	3 UG/L	UJ	b
		PHENOL	1 UG/L	U	
		PYRENE	1 UG/L	UJ	b
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.06 MG/L	UJ	b
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-097 ALP08 S25-SB30-HP DUP 7.50 - 9.50	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-098 ALP08 S25-SB24-HP 7.50 - 9.50	CLP VOA	1,1,1-TRICHLOROETHANE	2 UG/L	U	
		1,1,2,2-TETRACHLOROETHANE	2 UG/L	U	
		1,1,2-TRICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHENE	2 UG/L	U	
		1,2-DICHLOROETHANE	0.5 UG/L	U	
		1,2-DICHLOROETHENE (TOTAL)	2 UG/L	U	
		1,2-DICHLOROPROPANE	2 UG/L	U	
		2-BUTANONE	2 UG/L	U	
		2-HEXANONE	2 UG/L	UJ	f
		4-METHYL-2-PENTANONE	2 UG/L	U	
		ACETONE	2 UG/L	UJ	b
		BENZENE	0.5 UG/L	U	
		BROMODICHLOROMETHANE	2 UG/L	U	
		BROMOFORM	2 UG/L	U	
		BROMOMETHANE	2 UG/L	U	
		CARBON DISULFIDE	2 UG/L	U	
		CARBON TETRACHLORIDE	0.5 UG/L	UJ	f
		CHLOROBENZENE	2 UG/L	U	
		CHLOROETHANE	2 UG/L	U	
		CHLOROFORM	2 UG/L	U	
		CHLOROMETHANE	2 UG/L	U	
		CIS-1,3-DICHLOROPROPENE	2 UG/L	U	
		DIBROMOCHLOROMETHANE	2 UG/L	UJ	f
		ETHYLBENZENE	2 UG/L	U	
		METHYLENE CHLORIDE	2 UG/L	U	
		STYRENE	2 UG/L	U	
		TETRACHLOROETHENE	2 UG/L	U	
		TOLUENE	2 UG/L	U	
		TRANS-1,3-DICHLOROPROPENE	0.5 UG/L	U	
		TRICHLOROETHENE	2 UG/L	U	
		VINYL CHLORIDE	0.5 UG/L	U	
		XYLENE (TOTAL)	2 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	1 UG/L	U	
		1,2-DICHLOROBENZENE	1 UG/L	U	
		1,3-DICHLOROBENZENE	1 UG/L	U	
		1,4-DICHLOROBENZENE	1 UG/L	U	
		2,4,5-TRICHLOROPHENOL	3 UG/L	U	
		2,4,6-TRICHLOROPHENOL	1 UG/L	U	
		2,4-DICHLOROPHENOL	0.2 UG/L	J	g
		2,4-DIMETHYLPHENOL	1 UG/L	UJ	f
		2,4-DINITROPHENOL	3 UG/L	R	f
		2,4-DINITROTOLUENE	1 UG/L	U	
		2,6-DINITROTOLUENE	1 UG/L	U	
		2-CHLORONAPHTHALENE	1 UG/L	U	
		2-CHLOROPHENOL	1 UG/L	U	
		2-METHYLNAPHTHALENE	1 UG/L	U	
		2-METHYLPHENOL	1 UG/L	U	
		2-NITROANILINE	3 UG/L	U	
		2-NITROPHENOL	1 UG/L	U	
		3,3'-DICHLOROBENZIDINE	1 UG/L	UJ	f
		3-NITROANILINE	3 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	3 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	1 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-098	CLP SVOA	4-CHLORO-3-METHYLPHENOL	1 UG/L	U	
ALP08		4-CHLOROANILINE	1 UG/L	U	
S25-SB24-HP		4-CHLOROPHENYL-PHENYLETHER	1 UG/L	U	
7.50 - 9.50		4-METHYLPHENOL	1 UG/L	U	
		4-NITROANILINE	3 UG/L	U	
		4-NITROPHENOL	3 UG/L	U	
		ACENAPHTHENE	2 UG/L		
		ACENAPHTHYLENE	0.3 UG/L	J	g
		ANTHRACENE	0.6 UG/L	J	g
		BENZO(A)ANTHRACENE	0.3 UG/L	J	g
		BENZO(A)PYRENE	0.3 UG/L	J	g
		BENZO(B)FLUORANTHENE	0.4 UG/L	J	g
		BENZO(G,H,I)PERYLENE	0.3 UG/L	J	g
		BENZO(K)FLUORANTHENE	1 UG/L	U	
		BIS(2-CHLOROETHOXY)METHANE	1 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	1 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	1 UG/L	U	
		BIS(2-ETHYLHEXYL)PHTHALATE	1 UG/L	UJ	b
		BUTYLBENZYLPHTHALATE	1 UG/L	UJ	b
		CARBAZOLE	0.2 UG/L	J	f,g
		CHRYSENE	0.3 UG/L	J	g
		DI-N-BUTYLPHTHALATE	1 UG/L	UJ	b
		DI-N-OCTYLPHTHALATE	1 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	1 UG/L	U	
		DIBENZOFURAN	1 UG/L	U	
		DIETHYLPHTHALATE	1 UG/L	UJ	b
		DIMETHYLPHTHALATE	1 UG/L	U	
		FLUORANTHENE	2 UG/L	UJ	b
		FLUORENE	0.7 UG/L	J	g
		HEXACHLOROBENZENE	1 UG/L	U	
		HEXACHLOROBUTADIENE	1 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	1 UG/L	U	
		HEXACHLOROETHANE	1 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	1 UG/L	U	
		ISOPHORONE	1 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	1 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	1 UG/L	U	
		NAPHTHALENE	0.7 UG/L	J	g
		NITROBENZENE	1 UG/L	U	
		PENTACHLOROPHENOL	3 UG/L	U	
		PHENANTHRENE	3 UG/L		
		PHENOL	1 UG/L	U	
		PYRENE	3 UG/L		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	U	
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-099	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
ALP08		ETHYLBENZENE	0.5 UG/L	U	
S25-SB28-HP		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
7.50 - 9.50		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	8 UG/L	U	
		1,2-DICHLOROBENZENE	8 UG/L	U	
		1,3-DICHLOROBENZENE	8 UG/L	U	
		1,4-DICHLOROBENZENE	8 UG/L	U	
		2,4,5-TRICHLOROPHENOL	20 UG/L	U	
		2,4,6-TRICHLOROPHENOL	8 UG/L	U	
		2,4-DICHLOROPHENOL	8 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-099	CLP SVOA	2,4-DIMETHYLPHENOL	8 UG/L	U	
ALP08		2,4-DINITROPHENOL	20 UG/L	R	f
S25-SB28-HP		2,4-DINITROTOLUENE	8 UG/L	UJ	f
7.50 - 9.50		2,6-DINITROTOLUENE	8 UG/L	UJ	f
		2-CHLORONAPHTHALENE	8 UG/L	U	
		2-CHLOROPHENOL	8 UG/L	U	
		2-METHYLNAPHTHALENE	8 UG/L	U	
		2-METHYLPHENOL	8 UG/L	U	
		2-NITROANILINE	20 UG/L	U	
		2-NITROPHENOL	8 UG/L	UJ	f
		3,3'-DICHLOROBENZIDINE	8 UG/L	UJ	f
		3-NITROANILINE	20 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	20 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	8 UG/L	U	
		4-CHLORO-3-METHYLPHENOL	8 UG/L	U	
		4-CHLOROANILINE	8 UG/L	UJ	f
		4-CHLOROPHENYL-PHENYLETHER	8 UG/L	U	
		4-METHYLPHENOL	8 UG/L	U	
		4-NITROANILINE	20 UG/L	U	
		4-NITROPHENOL	20 UG/L	U	
		ACENAPHTHENE	5 UG/L	J	g
		ACENAPHTHYLENE	5 UG/L	J	g
		ANTHRACENE	2 UG/L	J	g
		BENZO(A)ANTHRACENE	5 UG/L	J	g
		BENZO(A)PYRENE	7 UG/L	J	g
		BENZO(B)FLUORANTHENE	5 UG/L	J	g
		BENZO(G,H,I)PERYLENE	4 UG/L	J	g
		BENZO(K)FLUORANTHENE	3 UG/L	J	g
		BIS(2-CHLOROETHOXY)METHANE	8 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	8 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	8 UG/L	UJ	f
		BIS(2-ETHYLHEXYL)PHTHALATE	8 UG/L	U	
		BUTYLBENZYLPHTHALATE	8 UG/L	UJ	b
		CARBAZOLE	8 UG/L	UJ	f
		CHRYSENE	7 UG/L	J	g
		DI-N-BUTYLPHTHALATE	8 UG/L	U	
		DI-N-OCTYLPHTHALATE	8 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	8 UG/L	U	
		DIBENZOFURAN	8 UG/L	U	
		DIETHYLPHTHALATE	8 UG/L	U	
		DIMETHYLPHTHALATE	8 UG/L	U	
		FLUORANTHENE	43 UG/L		
		FLUORENE	8 UG/L	U	
		HEXACHLOROBENZENE	8 UG/L	U	
		HEXACHLOROBUTADIENE	8 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	8 UG/L	U	
		HEXACHLOROETHANE	8 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	3 UG/L	J	g
		ISOPHORONE	8 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	8 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	8 UG/L	U	
		NAPHTHALENE	4 UG/L	J	g
		NITROBENZENE	8 UG/L	U	
		PENTACHLOROPHENOL	20 UG/L	U	
		PHENANTHRENE	8 UG/L	UJ	b
		PHENOL	8 UG/L	U	
		PYRENE	41 UG/L		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	UJ	b
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-099 ALP08 S25-SB28-HP 7.50 - 9.50	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-100 ALP08 S25-SB30-HP 7.50 - 9.50	CLP VOA	1,1,1-TRICHLOROETHANE	2 UG/L	U	
		1,1,2,2-TETRACHLOROETHANE	2 UG/L	U	
		1,1,2-TRICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHANE	2 UG/L	U	
		1,1-DICHLOROETHENE	2 UG/L	U	
		1,2-DICHLOROETHANE	0.5 UG/L	U	
		1,2-DICHLOROETHENE (TOTAL)	2 UG/L	U	
		1,2-DICHLOROPROPANE	2 UG/L	U	
		2-BUTANONE	2 UG/L	U	
		2-HEXANONE	2 UG/L	UJ	f
		4-METHYL-2-PENTANONE	2 UG/L	U	
		ACETONE	2 UG/L	UJ	b
		BENZENE	0.5 UG/L	U	
		BROMODICHLOROMETHANE	2 UG/L	U	
		BROMOFORM	2 UG/L	U	
		BROMOMETHANE	2 UG/L	U	
		CARBON DISULFIDE	2 UG/L	U	
		CARBON TETRACHLORIDE	0.5 UG/L	UJ	f
		CHLOROBENZENE	2 UG/L	U	
		CHLOROETHANE	2 UG/L	U	
		CHLOROFORM	2 UG/L	U	
		CHLOROMETHANE	2 UG/L	U	
		CIS-1,3-DICHLOROPROPENE	2 UG/L	U	
		DIBROMOCHLOROMETHANE	2 UG/L	UJ	f
		ETHYLBENZENE	2 UG/L	U	
		METHYLENE CHLORIDE	2 UG/L	UJ	b
		STYRENE	2 UG/L	U	
		TETRACHLOROETHENE	2 UG/L	U	
		TOLUENE	2 UG/L	U	
		TRANS-1,3-DICHLOROPROPENE	0.5 UG/L	U	
		TRICHLOROETHENE	2 UG/L	U	
		VINYL CHLORIDE	0.5 UG/L	U	
		XYLENE (TOTAL)	2 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	1 UG/L	U	
		1,2-DICHLOROBENZENE	1 UG/L	U	
		1,3-DICHLOROBENZENE	1 UG/L	U	
		1,4-DICHLOROBENZENE	0.2 UG/L	J	g
		2,4,5-TRICHLOROPHENOL	3 UG/L	U	
		2,4,6-TRICHLOROPHENOL	1 UG/L	U	
		2,4-DICHLOROPHENOL	0.2 UG/L	J	g
		2,4-DIMETHYLPHENOL	1 UG/L	UJ	f
		2,4-DINITROPHENOL	3 UG/L	R	f
		2,4-DINITROTOLUENE	1 UG/L	U	
		2,6-DINITROTOLUENE	1 UG/L	U	
		2-CHLORONAPHTHALENE	1 UG/L	U	
		2-CHLOROPHENOL	1 UG/L	U	
		2-METHYLNAPHTHALENE	1 UG/L	U	
		2-METHYLPHENOL	1 UG/L	U	
		2-NITROANILINE	3 UG/L	U	
		2-NITROPHENOL	1 UG/L	U	
		3,3'-DICHLOROBENZIDINE	1 UG/L	UJ	f
		3-NITROANILINE	3 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	3 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	1 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-100 ALP08 S25-SB30-HP 7.50 - 9.50	CLP SVOA	4-CHLORO-3-METHYLPHENOL	1 UG/L	U	
		4-CHLOROANILINE	1 UG/L	U	
		4-CHLOROPHENYL-PHENYLETHER	1 UG/L	U	
		4-METHYLPHENOL	1 UG/L	U	
		4-NITROANILINE	3 UG/L	U	
		4-NITROPHENOL	3 UG/L	U	
		ACENAPHTHENE	4 UG/L		
		ACENAPHTHYLENE	0.2 UG/L	J	g
		ANTHRACENE	0.8 UG/L	J	g
		BENZO(A)ANTHRACENE	0.4 UG/L	J	g
		BENZO(A)PYRENE	0.7 UG/L	J	g
		BENZO(B)FLUORANTHENE	0.9 UG/L	J	g
		BENZO(G,H,I)PERYLENE	0.7 UG/L	J	g
		BENZO(K)FLUORANTHENE	1 UG/L		
		BIS(2-CHLOROETHOXY)METHANE	1 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	1 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	1 UG/L	U	
		BIS(2-ETHYLHEXYL)PHTHALATE	1 UG/L	UJ	b
		BUTYLBENZYLPHTHALATE	1 UG/L	UJ	b
		CARBAZOLE	0.3 UG/L	J	f,g
		CHRYSENE	0.4 UG/L	J	g
		DI-N-BUTYLPHTHALATE	1 UG/L	UJ	b
		DI-N-OCTYLPHTHALATE	1 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	1 UG/L	U	
		DIBENZOFURAN	1 UG/L	U	
		DIETHYLPHTHALATE	1 UG/L	U	
		DIMETHYLPHTHALATE	1 UG/L	U	
		FLUORANTHENE	3 UG/L		
		FLUORENE	0.7 UG/L	J	g
		HEXACHLOROBENZENE	1 UG/L	U	
		HEXACHLOROBUTADIENE	1 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	1 UG/L	U	
		HEXACHLOROETHANE	1 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	0.5 UG/L	J	g
		ISOPHORONE	1 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	1 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	1 UG/L	U	
		NAPHTHALENE	0.3 UG/L	J	g
		NITROBENZENE	1 UG/L	U	
		PENTACHLOROPHENOL	3 UG/L	U	
		PHENANTHRENE	2 UG/L		
		PHENOL	1 UG/L	U	
		PYRENE	3 UG/L		
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.09 MG/L	UJ	b
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-101 ALP08 S25-SB34-HP 10.00 - 12.00	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
		ETHYLBENZENE	0.5 UG/L	U	
		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	1 UG/L	U	
		1,2-DICHLOROBENZENE	1 UG/L	U	
		1,3-DICHLOROBENZENE	1 UG/L	U	
		1,4-DICHLOROBENZENE	1 UG/L	U	
		2,4,5-TRICHLOROPHENOL	3 UG/L	U	
		2,4,6-TRICHLOROPHENOL	1 UG/L	U	
		2,4-DICHLOROPHENOL	1 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-101	CLP SVOA	2,4-DIMETHYLPHENOL	1 UG/L	UJ	f
ALP08		2,4-DINITROPHENOL	3 UG/L	R	f
S25-SB34-HP		2,4-DINITROTOLUENE	1 UG/L	U	
10.00 - 12.00		2,6-DINITROTOLUENE	1 UG/L	U	
		2-CHLORONAPHTHALENE	1 UG/L	U	
		2-CHLOROPHENOL	1 UG/L	U	
		2-METHYLNAPHTHALENE	1 UG/L	U	
		2-METHYLPHENOL	1 UG/L	U	
		2-NITROANILINE	3 UG/L	U	
		2-NITROPHENOL	1 UG/L	U	
		3,3'-DICHLOROBENZIDINE	1 UG/L	UJ	f
		3-NITROANILINE	3 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	3 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	1 UG/L	U	
		4-CHLORO-3-METHYLPHENOL	1 UG/L	U	
		4-CHLOROANILINE	1 UG/L	U	
		4-CHLOROPHENYL-PHENYLETHER	1 UG/L	U	
		4-METHYLPHENOL	1 UG/L	U	
		4-NITROANILINE	3 UG/L	U	
		4-NITROPHENOL	3 UG/L	U	
		ACENAPHTHENE	1 UG/L	U	
		ACENAPHTHYLENE	1 UG/L	U	
		ANTHRACENE	1 UG/L	U	
		BENZO(A)ANTHRACENE	1 UG/L	U	
		BENZO(A)PYRENE	1 UG/L	U	
		BENZO(B)FLUORANTHENE	1 UG/L	U	
		BENZO(G,H,I)PERYLENE	1 UG/L	U	
		BENZO(K)FLUORANTHENE	1 UG/L	U	
		BIS(2-CHLOROETHOXY)METHANE	1 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	1 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	1 UG/L	U	
		BIS(2-ETHYLHEXYL)PHTHALATE	1 UG/L	UJ	b
		BUTYLBENZYLPHTHALATE	1 UG/L	UJ	b
		CARBAZOLE	1 UG/L	UJ	f
		CHRYSENE	1 UG/L	U	
		DI-N-BUTYLPHTHALATE	1 UG/L	U	
		DI-N-OCTYLPHTHALATE	1 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	1 UG/L	U	
		DIBENZOFURAN	1 UG/L	U	
		DIETHYLPHTHALATE	1 UG/L	U	
		DIMETHYLPHTHALATE	1 UG/L	U	
		FLUORANTHENE	1 UG/L	U	
		FLUORENE	1 UG/L	U	
		HEXACHLOROBENZENE	1 UG/L	U	
		HEXACHLOROBUTADIENE	1 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	1 UG/L	U	
		HEXACHLOROETHANE	1 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	1 UG/L	U	
		ISOPHORONE	1 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	1 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	1 UG/L	U	
		NAPHTHALENE	1 UG/L	U	
		NITROBENZENE	1 UG/L	U	
		PENTACHLOROPHENOL	3 UG/L	U	
		PHENANTHRENE	1 UG/L	U	
		PHENOL	1 UG/L	U	
		PYRENE	1 UG/L	UJ	b
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.05 MG/L	UJ	b
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-101 ALP08 S25-SB34-HP 10.00 - 12.00	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-102 ALP04 S25-ER-1 0.00 - 0.00	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
		ETHYLBENZENE	0.5 UG/L	U	
		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	10 UG/L	U	
	CLP SVOA	ACENAPHTHENE	10 UG/L	U	
		ACENAPHTHYLENE	10 UG/L	U	
		ANTHRACENE	10 UG/L	U	
		BENZO(A)ANTHRACENE	10 UG/L	U	
		BENZO(A)PYRENE	10 UG/L	U	
		BENZO(B)FLUORANTHENE	10 UG/L	U	
		BENZO(G,H,I)PERYLENE	10 UG/L	U	
		BENZO(K)FLUORANTHENE	10 UG/L	U	
		CHRYSENE	10 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	10 UG/L	U	
		FLUORANTHENE	10 UG/L	U	
		FLUORENE	10 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	10 UG/L	U	
		NAPHTHALENE	10 UG/L	U	
		PHENANTHRENE	10 UG/L	U	
		PYRENE	10 UG/L	U	
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	U	
		MOTOR OIL RANGE ORGANICS	0.2 MG/L	J	y
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-103 ALP08 S25-ER-2 0.00 - 0.00	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
		ETHYLBENZENE	0.5 UG/L	U	
		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	1 UG/L	U	
		1,2-DICHLOROBENZENE	1 UG/L	U	
		1,3-DICHLOROBENZENE	1 UG/L	U	
		1,4-DICHLOROBENZENE	1 UG/L	U	
		2,4,5-TRICHLOROPHENOL	3 UG/L	U	
		2,4,6-TRICHLOROPHENOL	1 UG/L	U	
		2,4-DICHLOROPHENOL	1 UG/L	U	
		2,4-DIMETHYLPHENOL	1 UG/L	UJ	f
		2,4-DINITROPHENOL	3 UG/L	R	f
		2,4-DINITROTOLUENE	1 UG/L	U	
		2,6-DINITROTOLUENE	1 UG/L	U	
		2-CHLORONAPHTHALENE	1 UG/L	U	
		2-CHLOROPHENOL	1 UG/L	U	
		2-METHYLNAPHTHALENE	1 UG/L	U	
		2-METHYLPHENOL	1 UG/L	U	
		2-NITROANILINE	3 UG/L	U	
		2-NITROPHENOL	1 UG/L	U	
		3,3'-DICHLOROBENZIDINE	1 UG/L	UJ	f
		3-NITROANILINE	3 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	3 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	1 UG/L	U	
		4-CHLORO-3-METHYLPHENOL	1 UG/L	U	
		4-CHLOROANILINE	1 UG/L	U	
		4-CHLOROPHENYL-PHENYLETHER	1 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments : a - Surrogate recovery problem; b - Blank contamination problems; c - Matrix spike recovery problems; d - Duplicate (precision) problems; e - Internal standard problems; f - Calibration problems; g - Quantification below reporting limit; h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

WATER

Sample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-103	CLP SVOA	4-METHYLPHENOL	1 UG/L	U	
ALP08		4-NITROANILINE	3 UG/L	U	
S25-ER-2		4-NITROPHENOL	3 UG/L	U	
0.00 - 0.00		ACENAPHTHENE	1 UG/L	U	
		ACENAPHTHYLENE	1 UG/L	U	
		ANTHRACENE	1 UG/L	U	
		BENZO(A)ANTHRACENE	1 UG/L	U	
		BENZO(A)PYRENE	1 UG/L	U	
		BENZO(B)FLUORANTHENE	1 UG/L	U	
		BENZO(G,H,I)PERYLENE	1 UG/L	U	
		BENZO(K)FLUORANTHENE	1 UG/L	U	
		BIS(2-CHLOROETHOXY)METHANE	1 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	1 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	1 UG/L	U	
		BIS(2-ETHYLHEXYL)PHTHALATE	1 UG/L	U	
		BUTYLBENZYLPHTHALATE	1 UG/L	U	
		CARBAZOLE	1 UG/L	UJ	f
		CHRYSENE	1 UG/L	U	
		DI-N-BUTYLPHTHALATE	1 UG/L	U	
		DI-N-OCTYLPHTHALATE	1 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	1 UG/L	U	
		DIBENZOFURAN	1 UG/L	U	
		DIETHYLPHTHALATE	1 UG/L	U	
		DIMETHYLPHTHALATE	1 UG/L	U	
		FLUORANTHENE	1 UG/L	U	
		FLUORENE	1 UG/L	U	
		HEXACHLOROBENZENE	1 UG/L	U	
		HEXACHLOROBUTADIENE	1 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	1 UG/L	U	
		HEXACHLOROETHANE	1 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	1 UG/L	U	
		ISOPHORONE	1 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	1 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	1 UG/L	U	
		NAPHTHALENE	1 UG/L	U	
		NITROBENZENE	1 UG/L	U	
		PENTACHLOROPHENOL	3 UG/L	U	
		PHENANTHRENE	1 UG/L	U	
		PHENOL	1 UG/L	U	
		PYRENE	1 UG/L	U	
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.05 MG/L	J	g,z
		MOTOR OIL RANGE ORGANICS	0.09 MG/L	J	g,z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	
122-S25-104	AROMATIC VOLATILES	BENZENE	0.5 UG/L	U	
ALP08		ETHYLBENZENE	0.5 UG/L	U	
S25-ER-3		METHYL-T-BUTYL ETHER (MTBE)	5 UG/L	U	
0.00 - 0.00		TOLUENE	0.5 UG/L	U	
		XYLENE (TOTAL)	1 UG/L	U	
	CLP SVOA	1,2,4-TRICHLOROBENZENE	1 UG/L	U	
		1,2-DICHLOROBENZENE	1 UG/L	U	
		1,3-DICHLOROBENZENE	1 UG/L	U	
		1,4-DICHLOROBENZENE	1 UG/L	U	
		2,4,5-TRICHLOROPHENOL	3 UG/L	U	
		2,4,6-TRICHLOROPHENOL	1 UG/L	U	
		2,4-DICHLOROPHENOL	1 UG/L	U	
		2,4-DIMETHYLPHENOL	1 UG/L	UJ	f
		2,4-DINITROPHENOL	3 UG/L	R	f
		2,4-DINITROTOLUENE	1 UG/L	U	

Validity (Qual) : J - Estimated concentration; UJ - Non-detected estimated; U - Non-detected; R - Rejected; NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

Table 4

ALAMEDA CTO 122
SITE 25 (Continued)
ANALYTICAL SUMMARY RESULT FOR ALL ANALYTES

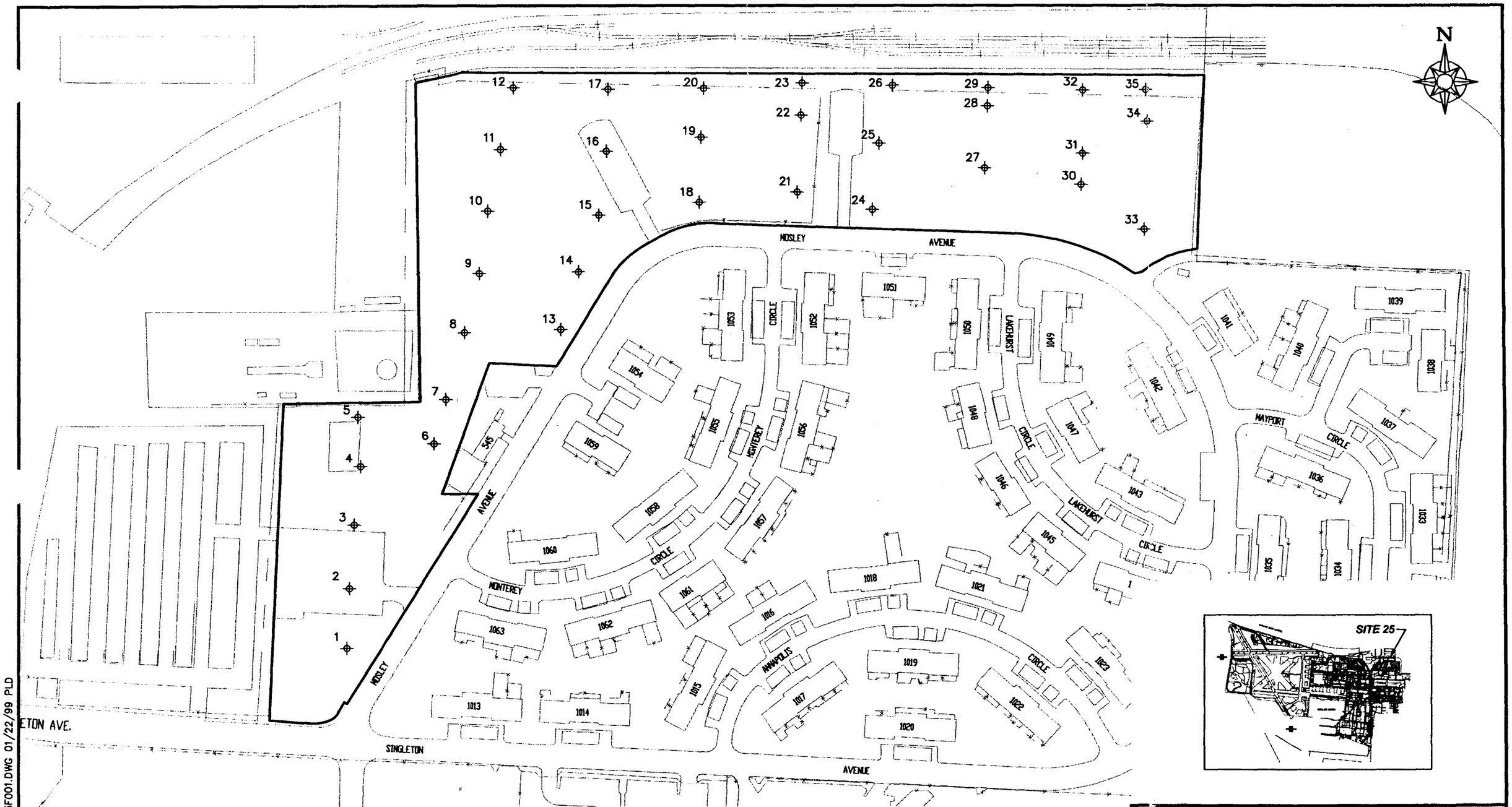
WATER

ample No./SDG No. Field ID/Depth (ft)	Analytical Method	Constituents	Concentration	Qual	Com
122-S25-104	CLP SVOA	2,6-DINITROTOLUENE	1 UG/L	U	
ALP08		2-CHLORONAPHTHALENE	1 UG/L	U	
S25-ER-3		2-CHLOROPHENOL	1 UG/L	U	
0.00 - 0.00		2-METHYLNAPHTHALENE	1 UG/L	U	
		2-METHYLPHENOL	1 UG/L	U	
		2-NITROANILINE	3 UG/L	U	
		2-NITROPHENOL	1 UG/L	U	
		3,3'-DICHLOROBENZIDINE	1 UG/L	UJ	f
		3-NITROANILINE	3 UG/L	U	
		4,6-DINITRO-2-METHYLPHENOL	3 UG/L	UJ	f
		4-BROMOPHENYL-PHENYLETHER	1 UG/L	U	
		4-CHLORO-3-METHYLPHENOL	1 UG/L	U	
		4-CHLOROANILINE	1 UG/L	U	
		4-CHLOROPHENYL-PHENYLETHER	1 UG/L	U	
		4-METHYLPHENOL	1 UG/L	U	
		4-NITROANILINE	3 UG/L	U	
		4-NITROPHENOL	3 UG/L	U	
		ACENAPHTHENE	1 UG/L	U	
		ACENAPHTHYLENE	1 UG/L	U	
		ANTHRACENE	1 UG/L	U	
		BENZO(A)ANTHRACENE	1 UG/L	U	
		BENZO(A)PYRENE	1 UG/L	U	
		BENZO(B)FLUORANTHENE	1 UG/L	U	
		BENZO(G,H,I)PERYLENE	1 UG/L	U	
		BENZO(K)FLUORANTHENE	1 UG/L	U	
		BIS(2-CHLOROETHOXY)METHANE	1 UG/L	U	
		BIS(2-CHLOROETHYL)ETHER	1 UG/L	U	
		BIS(2-CHLOROISOPROPYL)ETHER	1 UG/L	U	
		BIS(2-ETHYLHEXYL)PHTHALATE	1 UG/L	UJ	b
		BUTYLBENZYLPHTHALATE	1 UG/L	UJ	b
		CARBAZOLE	1 UG/L	UJ	f
		CHRYSENE	1 UG/L	U	
		DI-N-BUTYLPHTHALATE	1 UG/L	UJ	b
		DI-N-OCTYLPHTHALATE	1 UG/L	U	
		DIBENZ(A,H)ANTHRACENE	1 UG/L	U	
		DIBENZOFURAN	1 UG/L	U	
		DIETHYLPHTHALATE	1 UG/L	U	
		DIMETHYLPHTHALATE	1 UG/L	U	
		FLUORANTHENE	0.4 UG/L	J	g
		FLUORENE	1 UG/L	U	
		HEXACHLOROBENZENE	1 UG/L	U	
		HEXACHLOROBUTADIENE	1 UG/L	U	
		HEXACHLOROCYCLOPENTADIENE	1 UG/L	U	
		HEXACHLOROETHANE	1 UG/L	U	
		INDENO(1,2,3-CD)PYRENE	1 UG/L	U	
		ISOPHORONE	1 UG/L	U	
		N-NITROSO-DI-N-PROPYLAMINE	1 UG/L	U	
		N-NITROSODIPHENYLAMINE (1)	1 UG/L	U	
		NAPHTHALENE	1 UG/L	U	
		NITROBENZENE	1 UG/L	U	
		PENTACHLOROPHENOL	3 UG/L	U	
		PHENANTHRENE	0.2 UG/L	J	g
		PHENOL	1 UG/L	U	
		PYRENE	0.4 UG/L	J	g
	TPH EXTRACTABLES (DIESEL)	DIESEL RANGE ORGANICS	0.1 MG/L	U	
		MOTOR OIL RANGE ORGANICS	0.1 MG/L	J	z
	TPH PURGEABLES (GASOLINE)	GASOLINE RANGE ORGANICS	0.05 MG/L	U	

Validity (Qual) : J - Estimated concentration
UJ - Non-detected estimated
U - Non-detected
R - Rejected
NA - Not analyzed

Applicable Comments :
a - Surrogate recovery problem
b - Blank contamination problems
c - Matrix spike recovery problems
d - Duplicate (precision) problems
e - Internal standard problems
f - Calibration problems
g - Quantification below reporting limit
h - Other problems, refer to data validation narrative

FIGURES



LEGEND

12 SAMPLING LOCATIONS

BOUNDARY OF IR SITE 25

0 150
SCALE IN FEET

FIGURE 1

ALAMEDA POINT - IR SITE 25
SITE PLAN WITH
SAMPLE LOCATIONS

G:/20C 'TE 25/SITE25F001.DWG 01/22/99 PLD

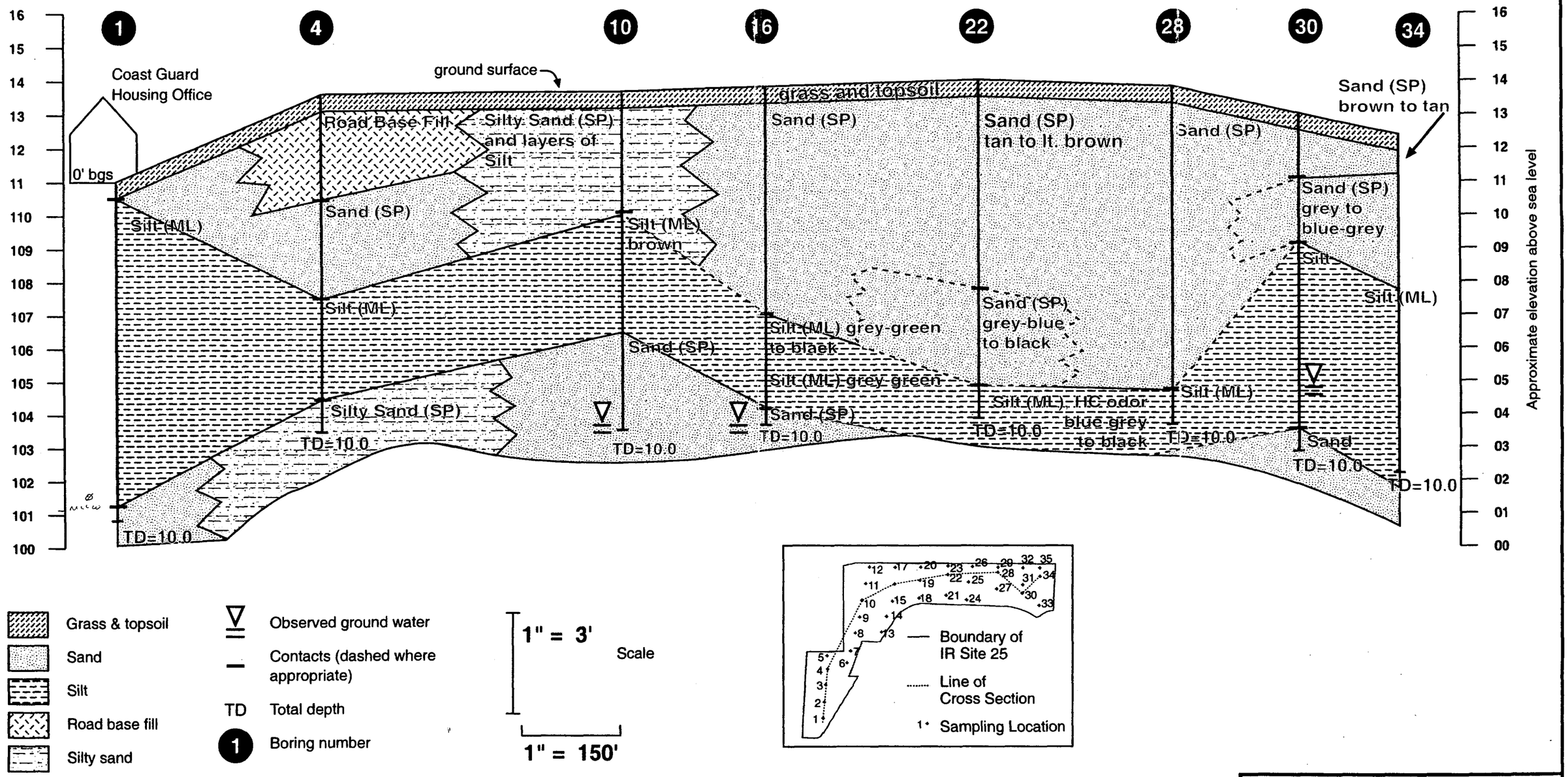


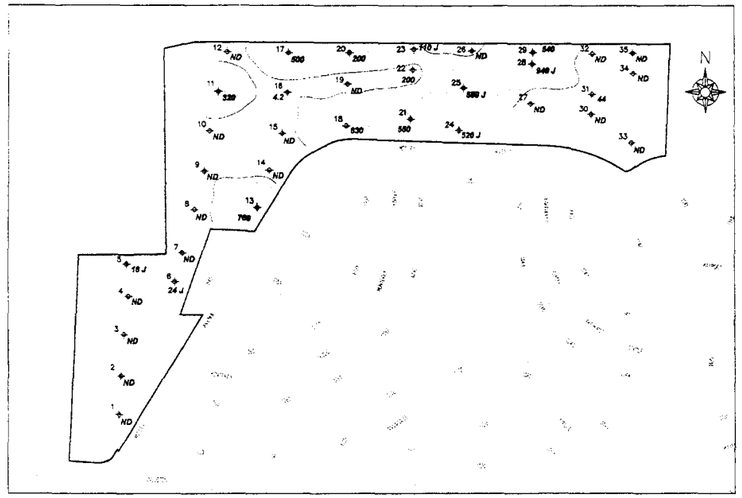
Figure 2: Geologic Cross Section of Site 25, Alameda Point

FIGURE 2

Geologic Cross Section of Site 25, Alameda Point

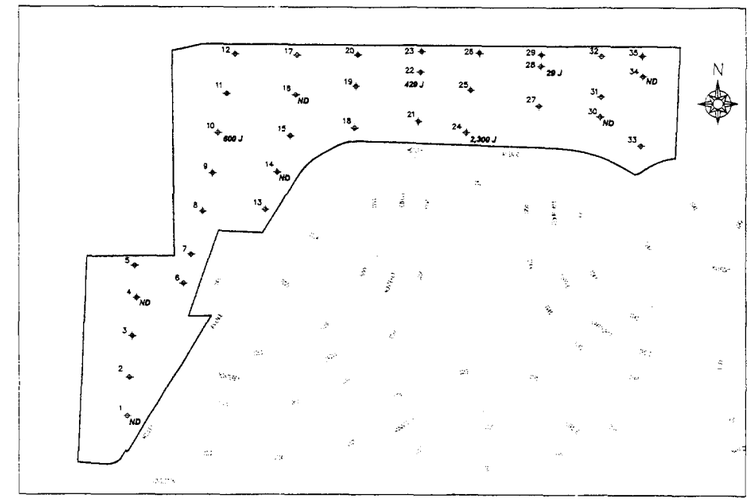
p:/prod/200-74 Alameda\rp2_site25.fh7\1/29/99\SS

SITE 25 - ACENAPHTHENE



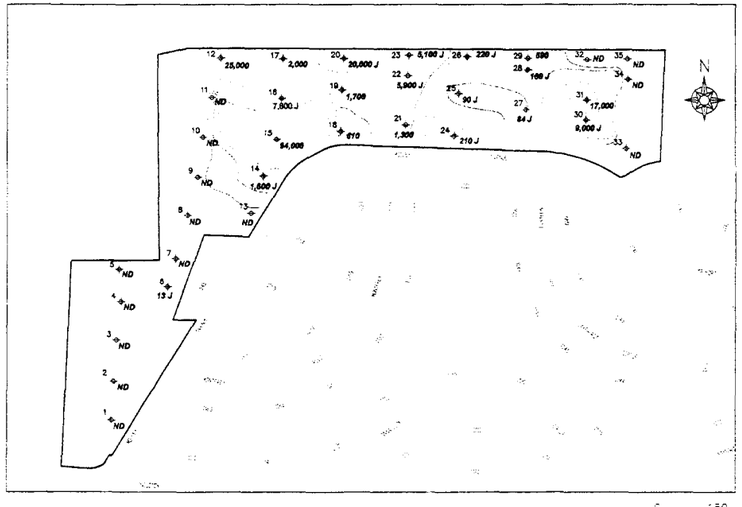
ACENAPHTHENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



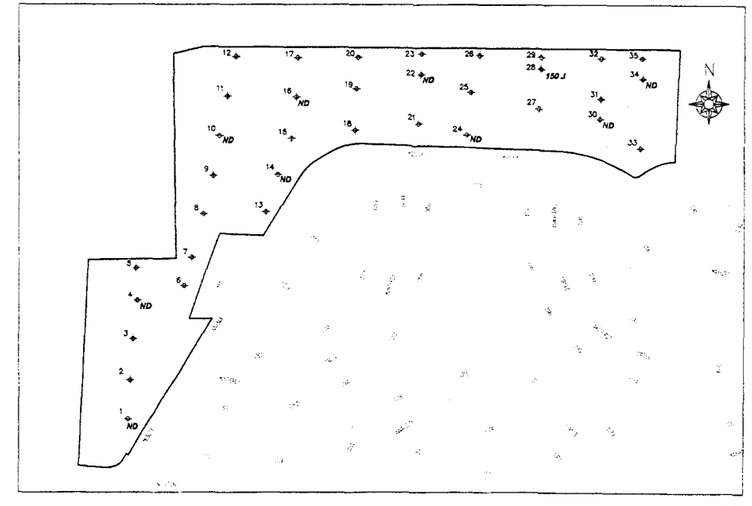
ACENAPHTHENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



ACENAPHTHENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



ACENAPHTHENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

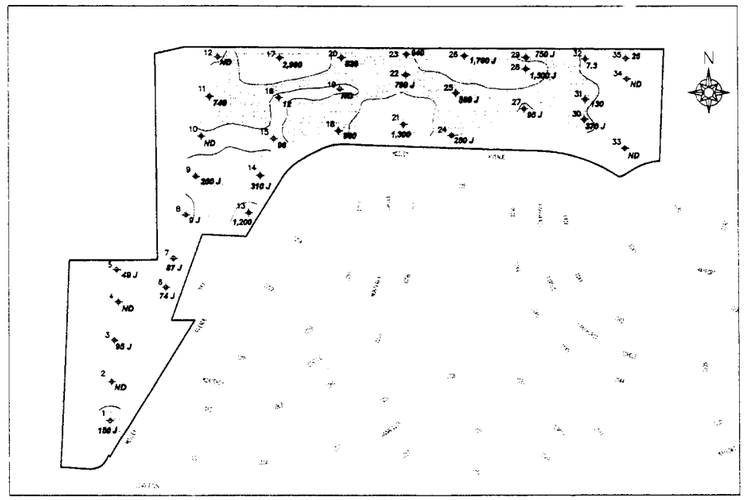
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 2,600,000 µg/Kg.

FIGURE 3

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
ACENAPHTHENE

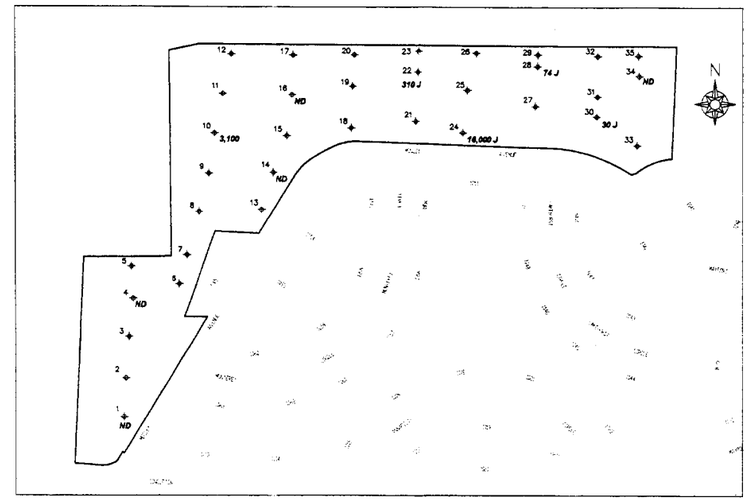
G:\200-74\SITE 25\ACENAPTHENE.DWG 1/14/98 PLO

SITE 25 - ACENAPHTHYLENE



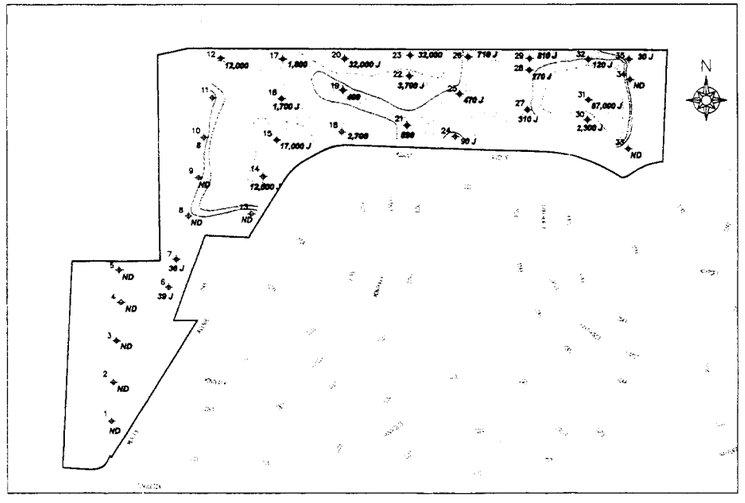
ACENAPHTHYLENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



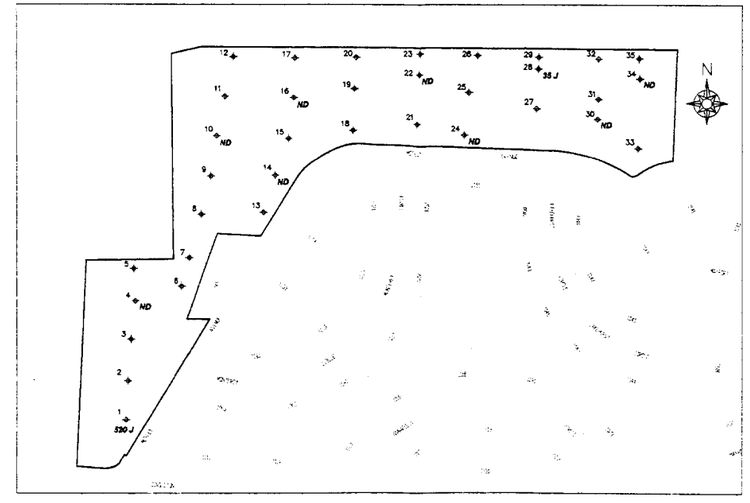
ACENAPHTHYLENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



ACENAPHTHYLENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



ACENAPHTHYLENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

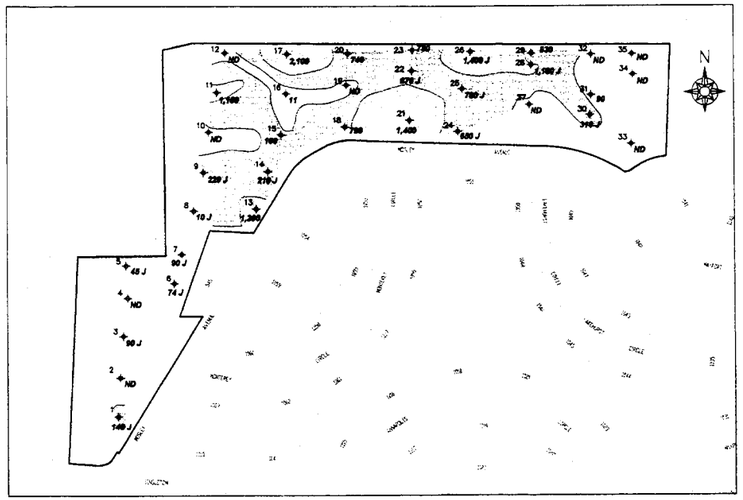
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL NOT AVAILABLE.

FIGURE 4

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
ACENAPHTHYLENE

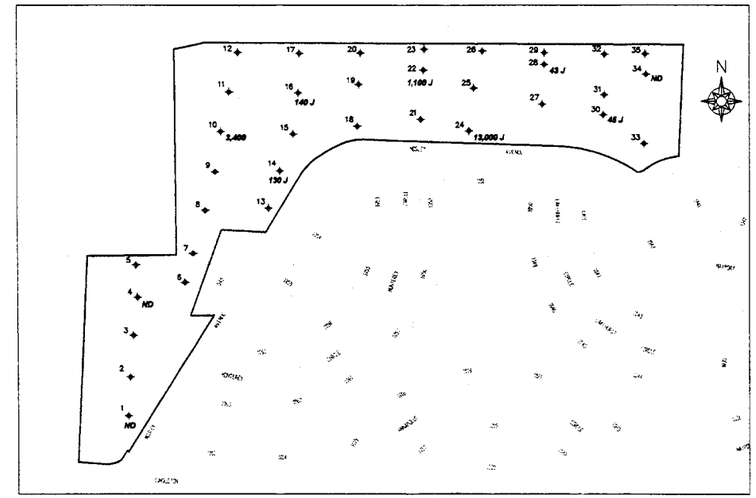
G:\200-74\SITE 25\ACENAPHTHYLENE.DWG 1/14/98 PLO

SITE 25 - ANTHRACENE



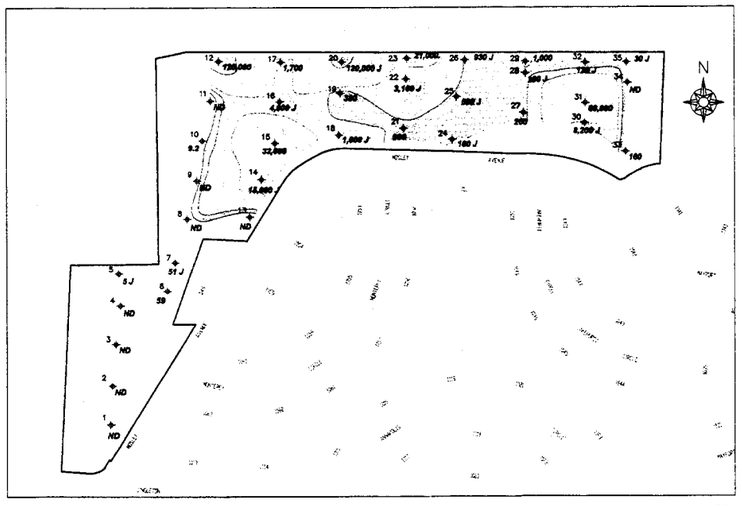
ANTHRACENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



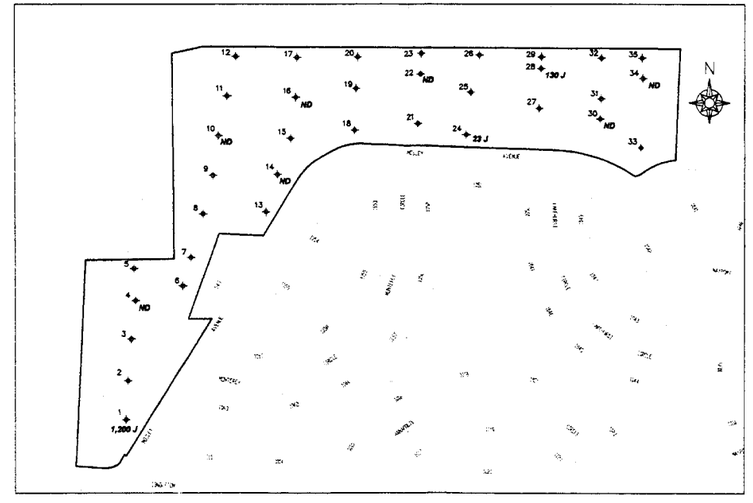
ANTHRACENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



ANTHRACENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



ANTHRACENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

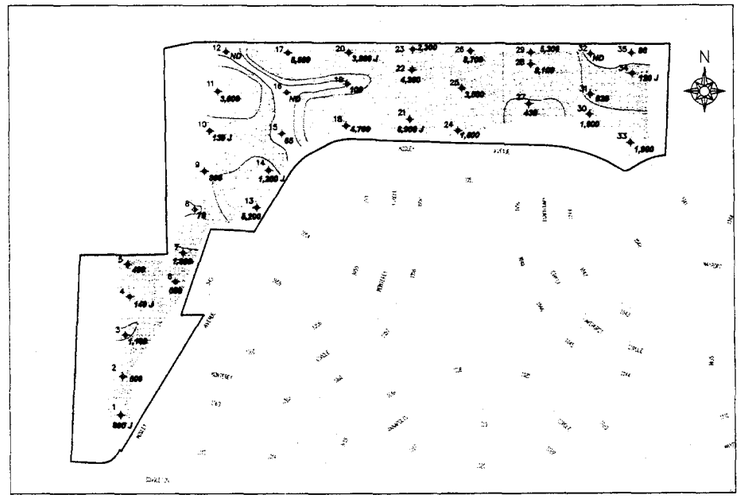
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 14,000,000 µg/Kg.

FIGURE 5

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
ANTHRACENE

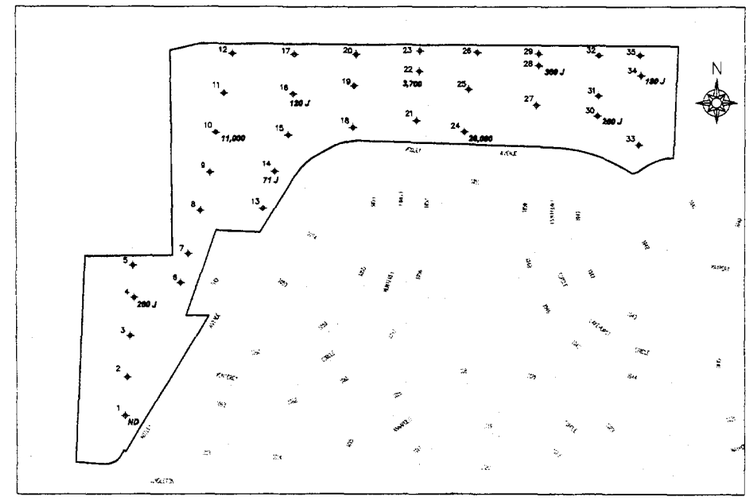
G:\200-74\SITE 25\ANTHRACENE.DWG 1/8/98 PLD

SITE 25 - BENZO(a)ANTHRACENE



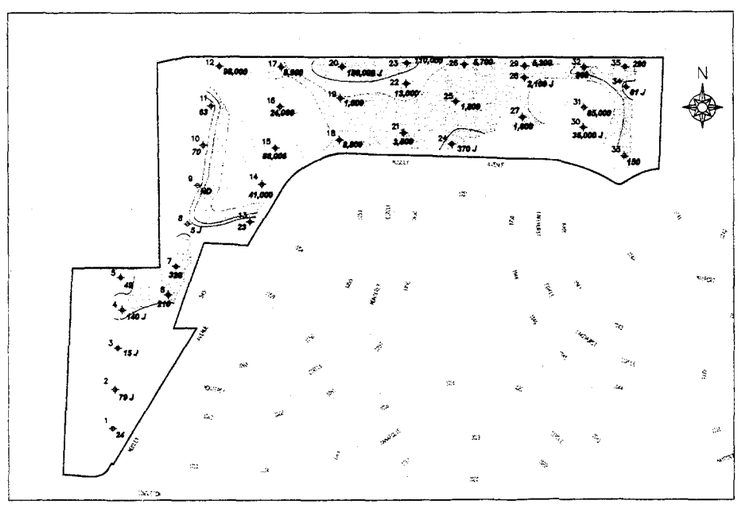
BENZO(a)ANTHRACENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



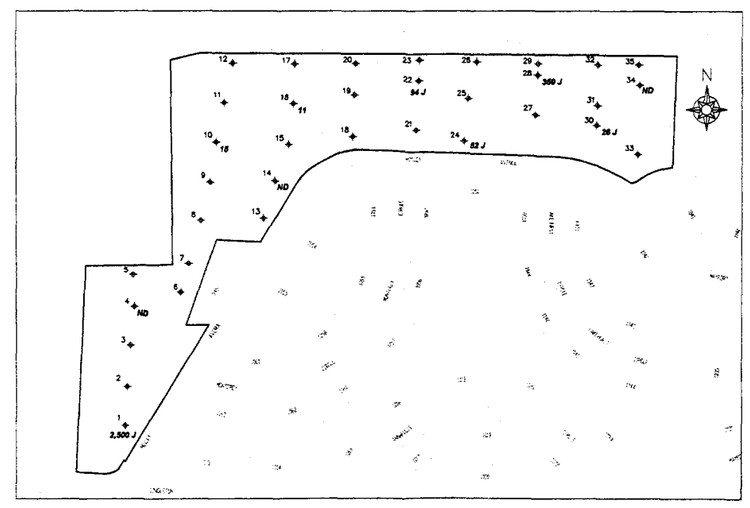
BENZO(a)ANTHRACENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



BENZO(a)ANTHRACENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



BENZO(a)ANTHRACENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

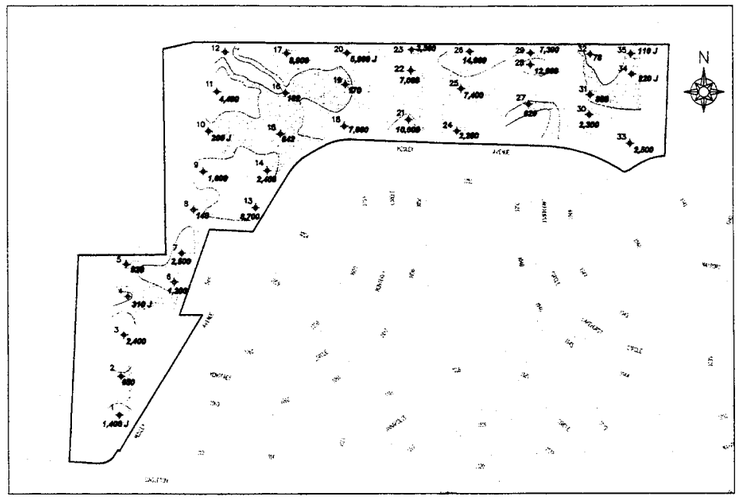
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 560 µg/Kg.

FIGURE 6

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
BENZO(a)ANTHRACENE

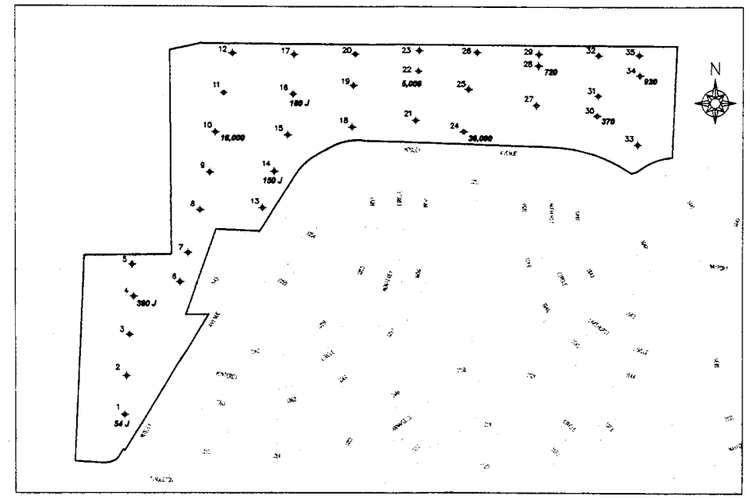
G:\200-74\SITE 25\BENZO_ANTHRACENE.DWG 1/8/98 PLD

SITE 25 - BENZO(a)PYRENE



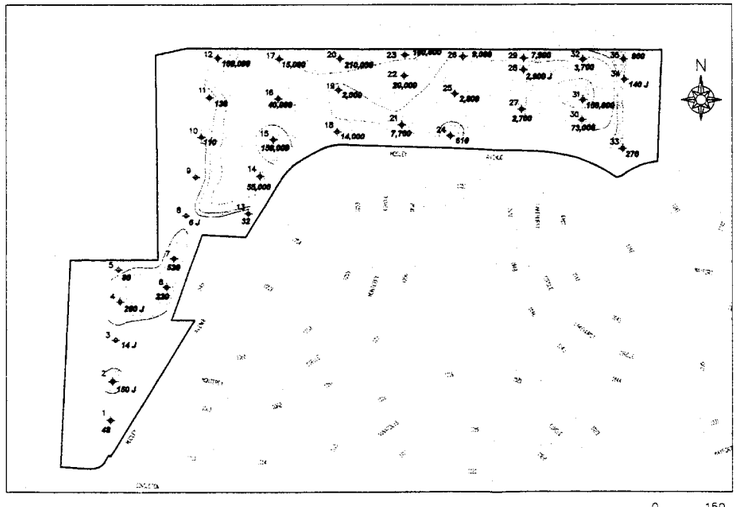
BENZO(a)PYRENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



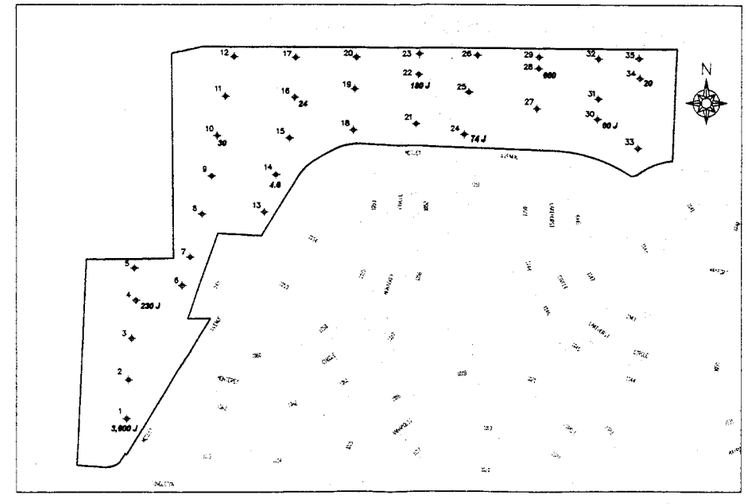
BENZO(a)PYRENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



BENZO(a)PYRENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



BENZO(a)PYRENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12 ✦	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

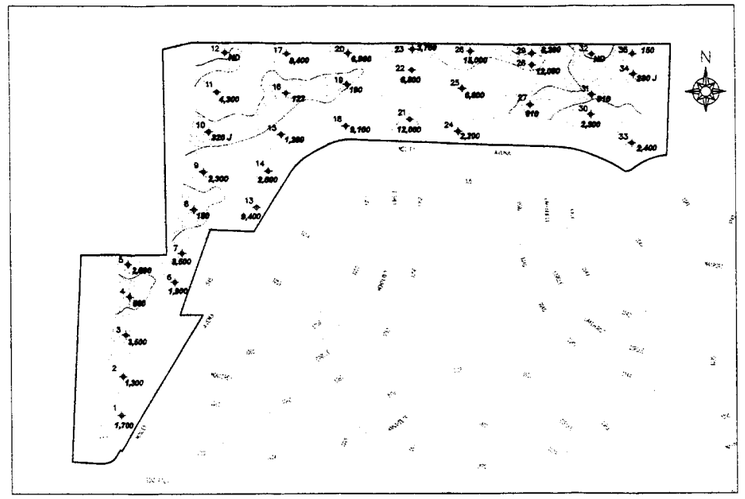
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 56 µg/Kg.

FIGURE 7

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
BENZO(a)PYRENE

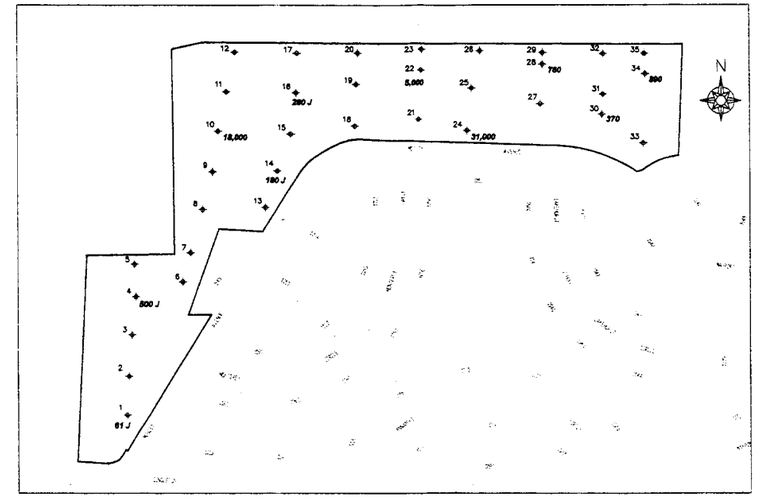
G:\200-74\SITE 25\BENZO_PYRENE.DWG 1/8/98 PLD

SITE 25 - BENZO(b)FLUORANTHENE



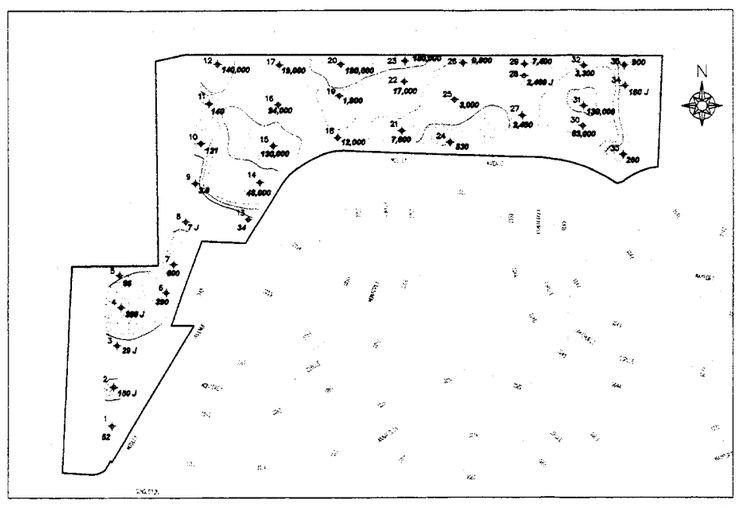
BENZO(b)FLUORANTHENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



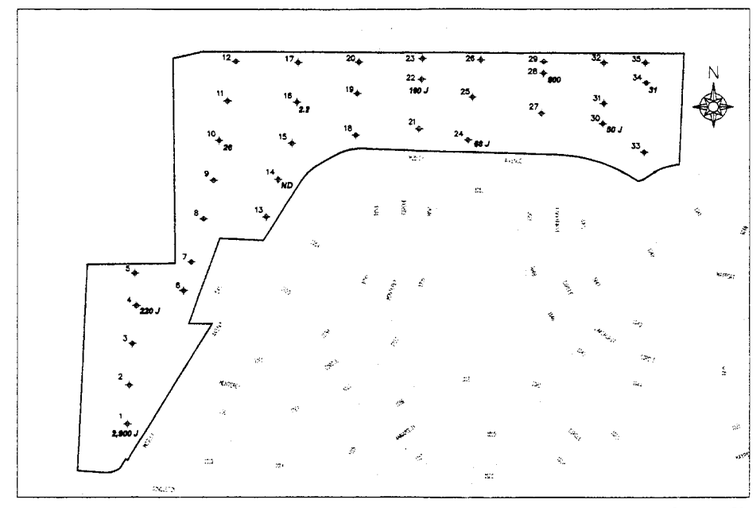
BENZO(b)FLUORANTHENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



BENZO(b)FLUORANTHENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



BENZO(b)FLUORANTHENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

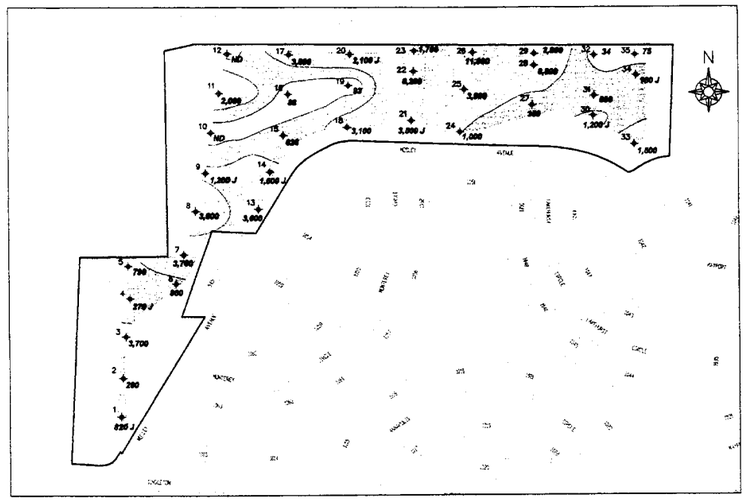
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 560 µg/Kg.

FIGURE 8

ALAMEDA POINT- IR SITE 25 DISTRIBUTION OF BENZO(b)FLUORANTHENE

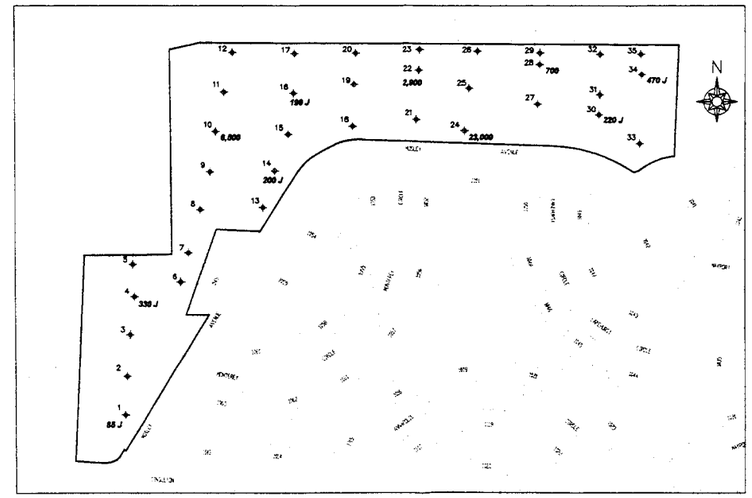
G:\200-74\SITE 25\BENZO(b)FLUORANTHRENE.DWG 1/13/98 PLD

SITE 25 - BENZO(g,h,i)PERYLENE



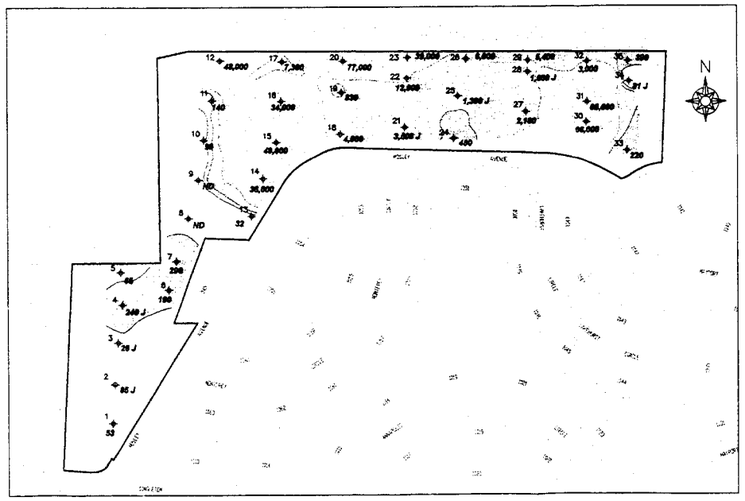
BENZO(g,h,i)PERYLENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



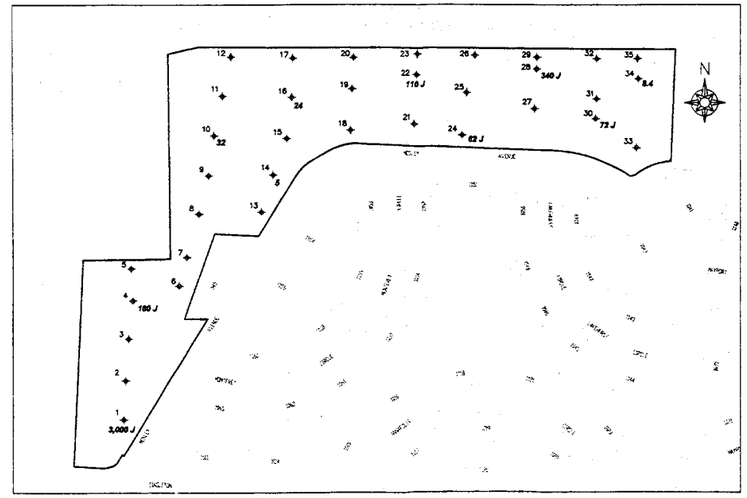
BENZO(g,h,i)PERYLENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



BENZO(g,h,i)PERYLENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



BENZO(g,h,i)PERYLENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

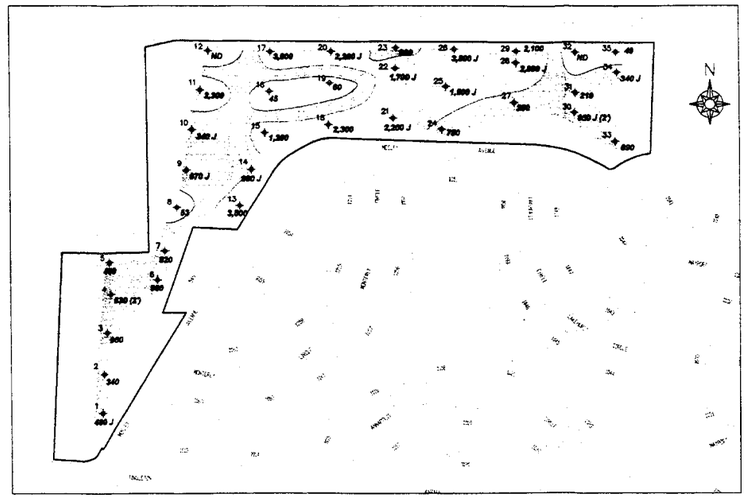
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL NOT AVAILABLE.

FIGURE 9

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
BENZO(g,h,i)PERYLENE

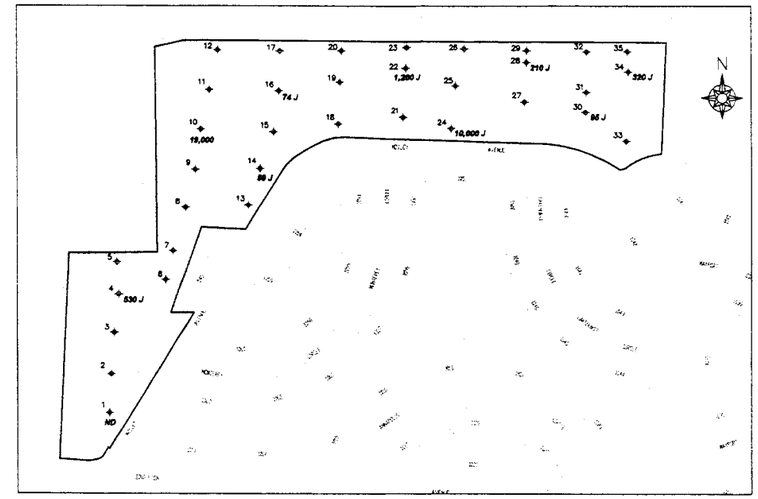
G:\200-74\SITE 25\BENZO(g,h,i)PYRELENE.DWG 1/13/98 PLD

SITE 25 - BENZO(k)FLUORANTHENE



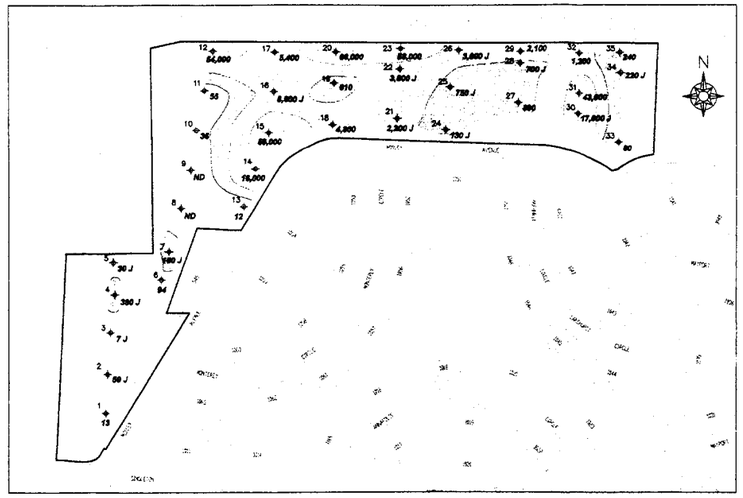
BENZO(k)FLUORANTHENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



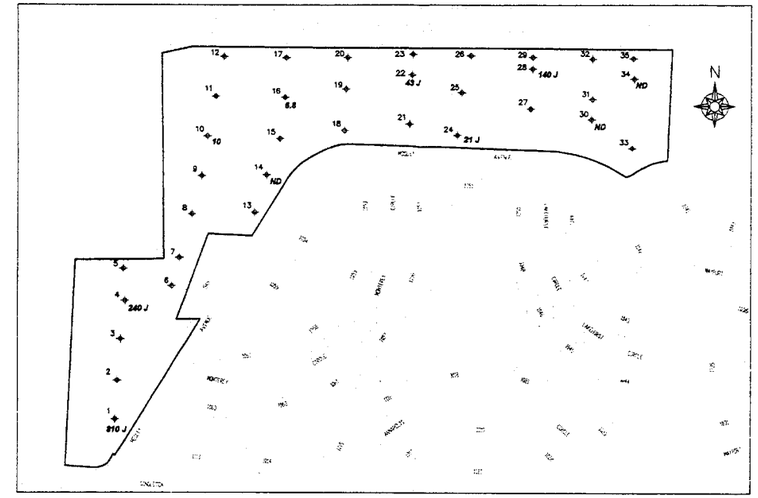
BENZO(k)FLUORANTHENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



BENZO(k)FLUORANTHENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



BENZO(k)FLUORANTHENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

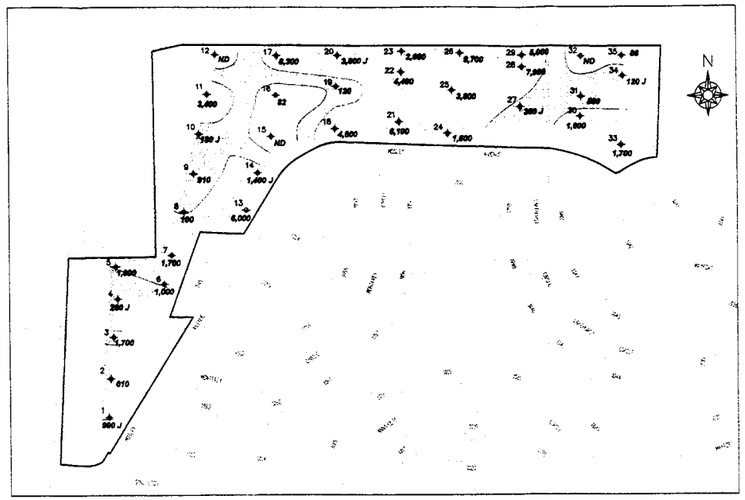
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 5,600 µg/Kg.

FIGURE 10

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
BENZO(k)FLUORANTHENE

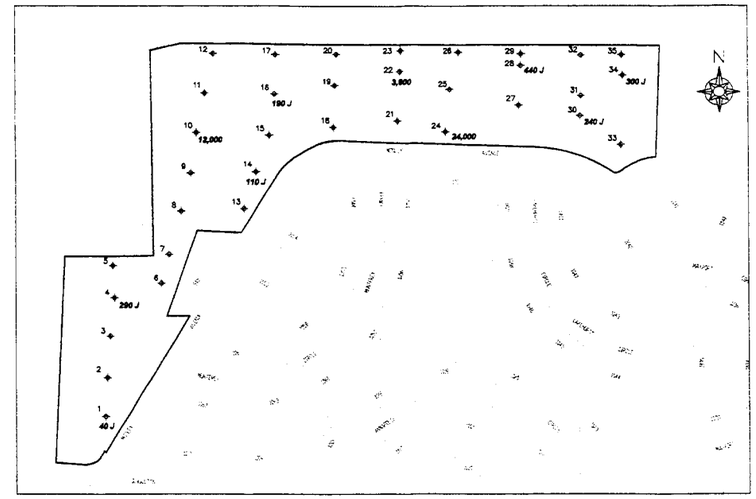
G:\200-74\SITE 25\benzofluoranthene.DWG 12/30/98 PLD

SITE 25 - CHRYSENE



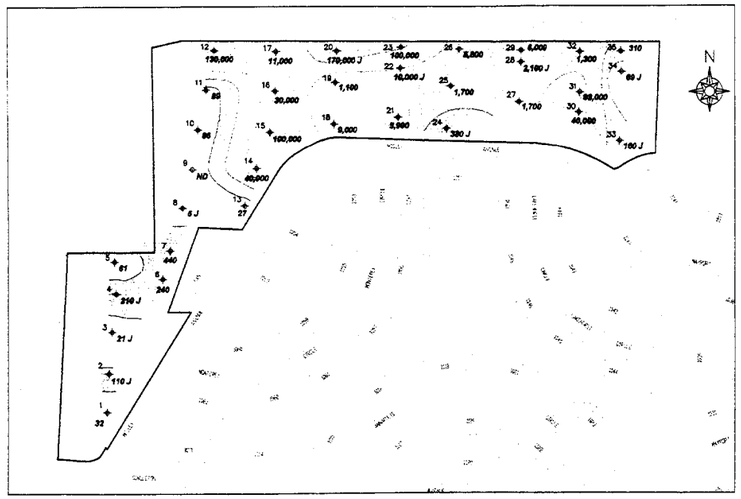
CHRYSENE DEPTH INTERVAL: 0.5 TO 2FEET BGS

0 150
SCALE IN FEET



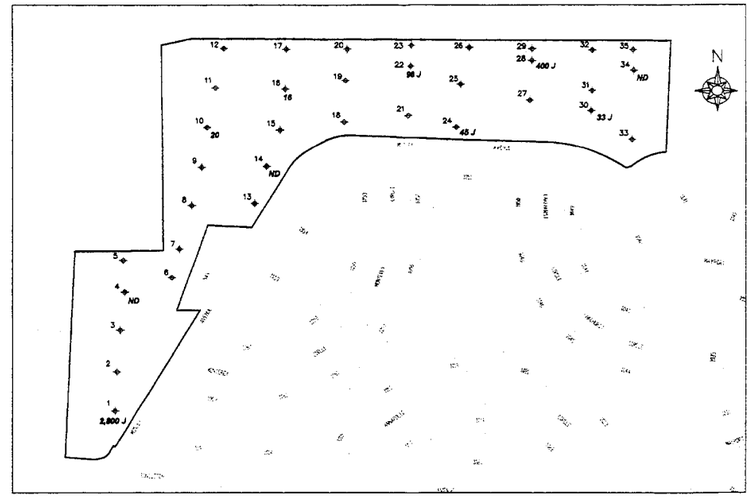
CHRYSENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



CHRYSENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



CHRYSENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

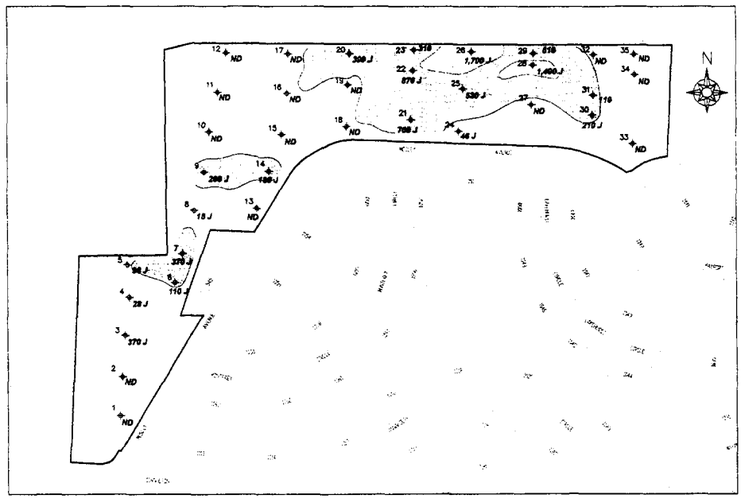
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL = 6,100 µg/Kg.

FIGURE 11

**ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
CHRYSENE**

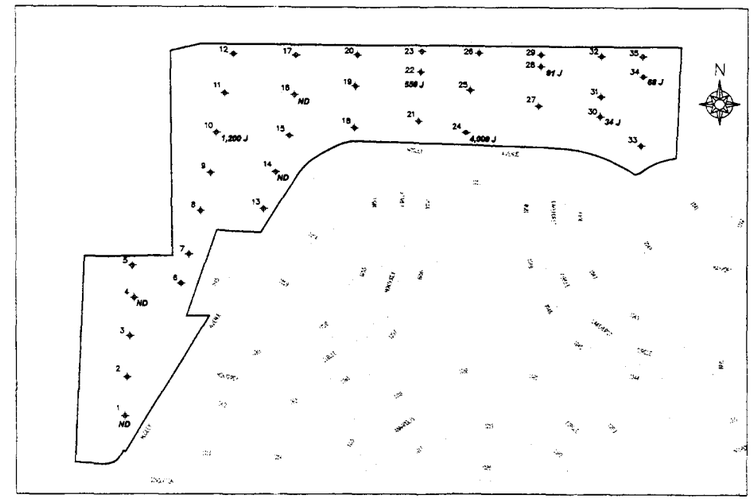
G:\200-74\SITE 25\PYRENE_TEST.DWG 12/30/98 PLD

SITE 25 - DIBENZ(a,h)ANTHRACENE



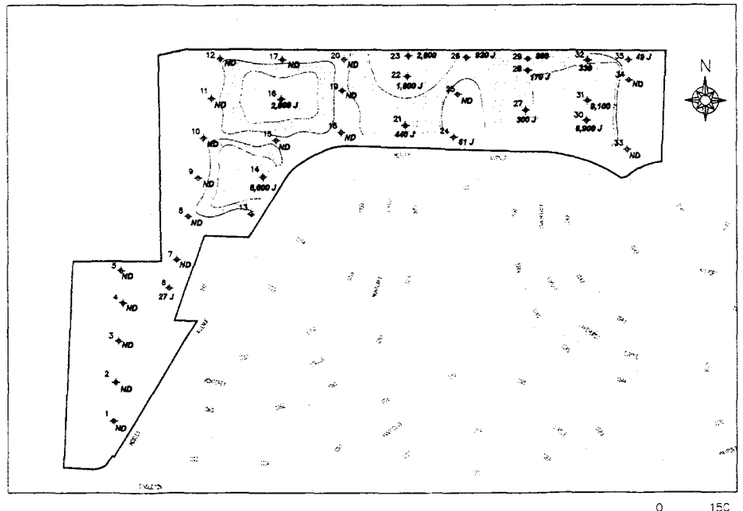
DIBENZ(a,h)ANTHRACENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



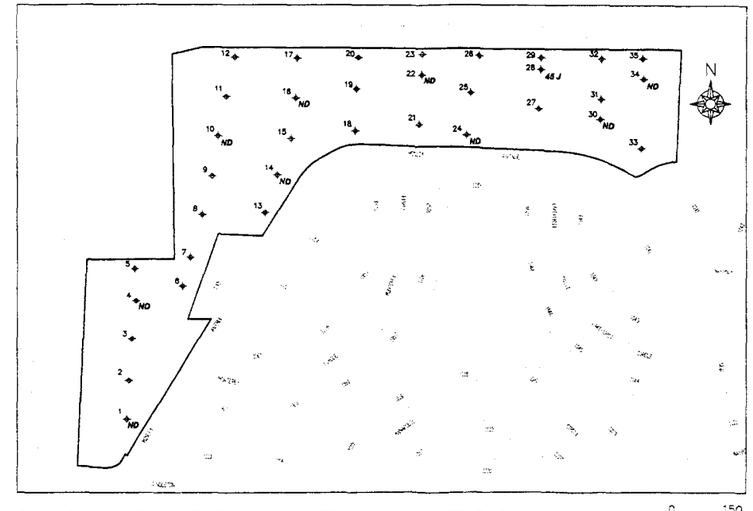
DIBENZ(a,h)ANTHRACENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



DIBENZ(a,h)ANTHRACENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



DIBENZ(a,h)ANTHRACENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE N FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

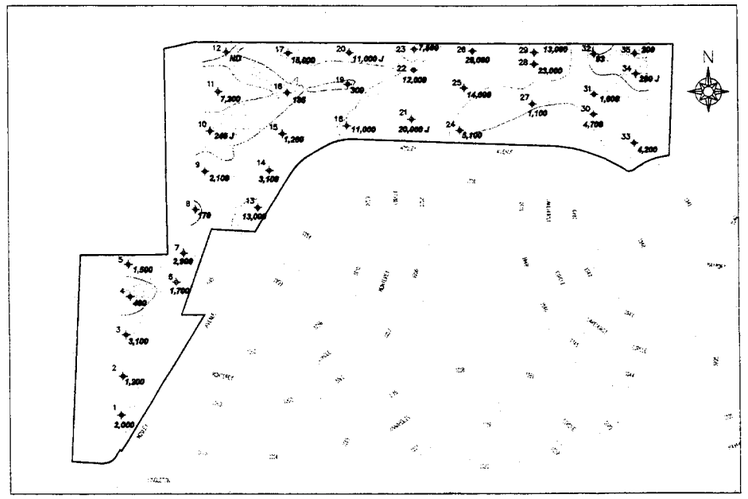
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL = 56 µg/Kg.

FIGURE 12

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
DIBENZ(a,h)ANTHRACENE

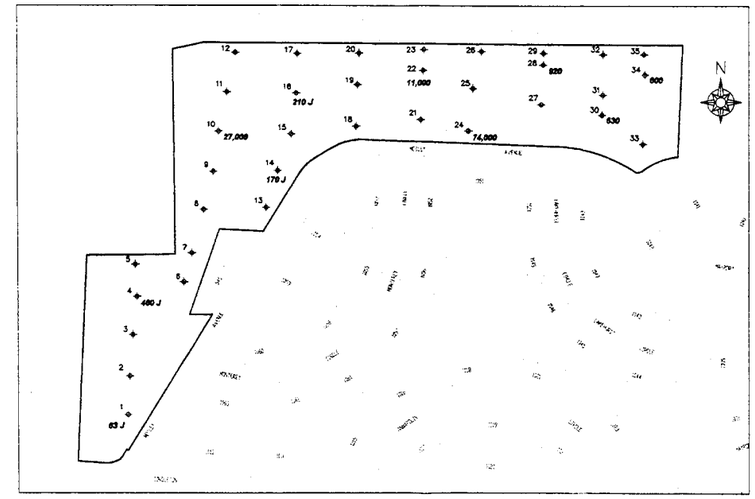
G:\200-74\SITE 25\DIBENZ(a,h)ANTHRACENE.DWG 1/8/98 PLD

SITE 25 - FLUORANTHENE



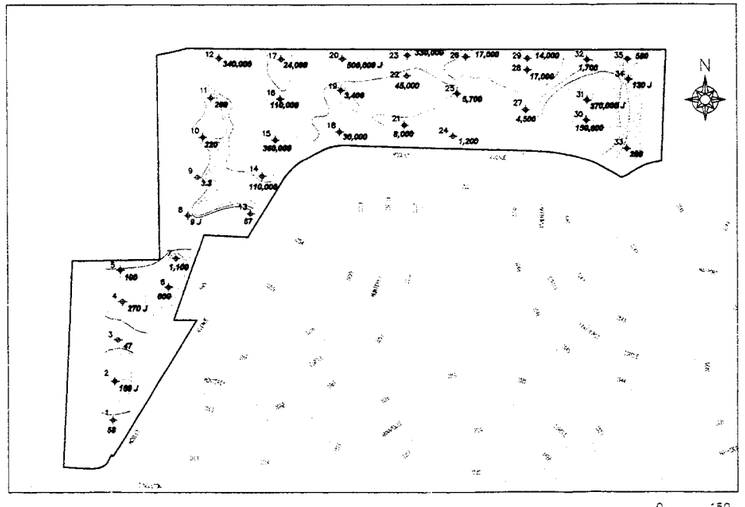
FLUORANTHENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



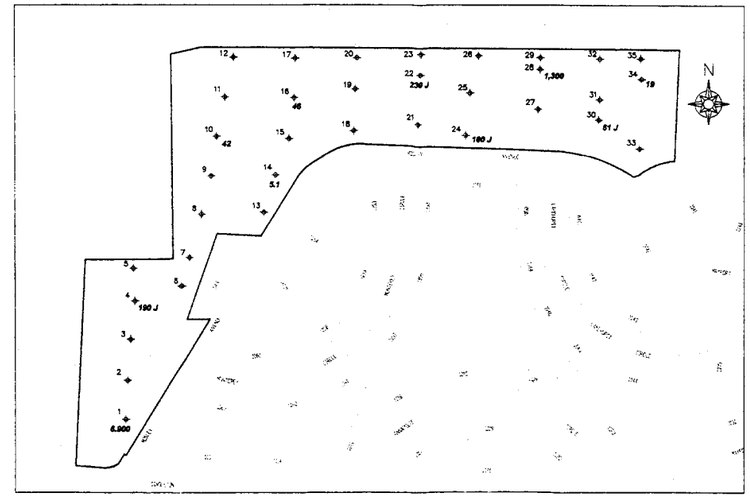
FLUORANTHENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



FLUORANTHENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



FLUORANTHENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

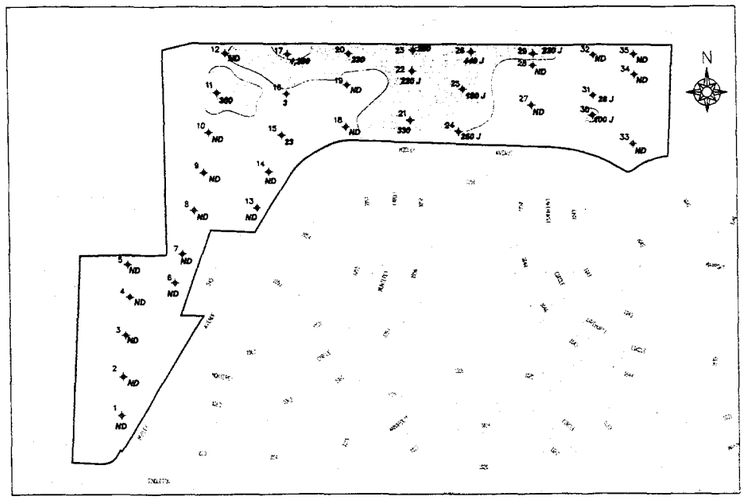
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 2,000,000 µg/Kg.

FIGURE 13

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF FLUORANTHENE

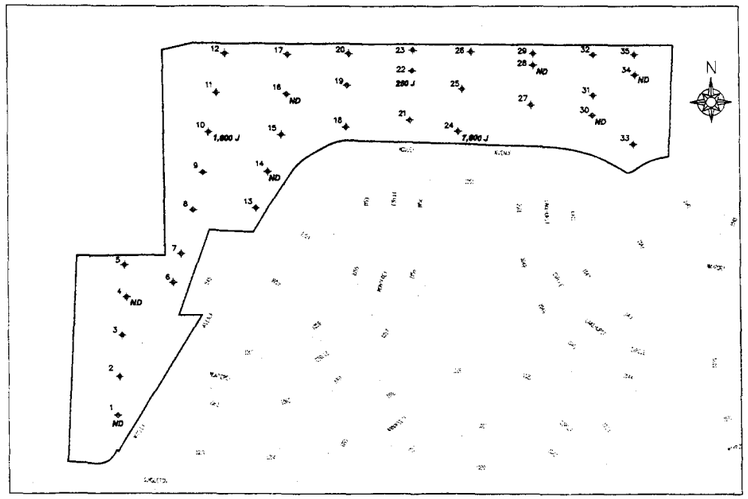
G:\200-74\SITE 25\FLUORANTHENE.DWG 1/13/98 PLD

SITE 25 - FLUORENE



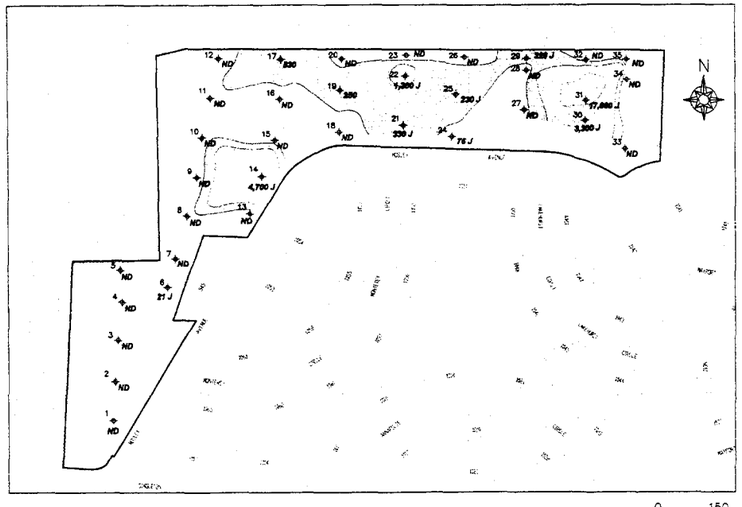
FLUORENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



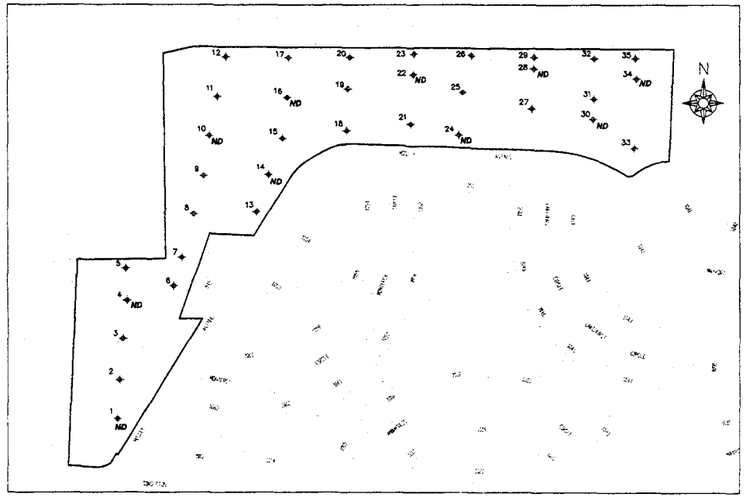
FLUORENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



FLUORENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



FLUORENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

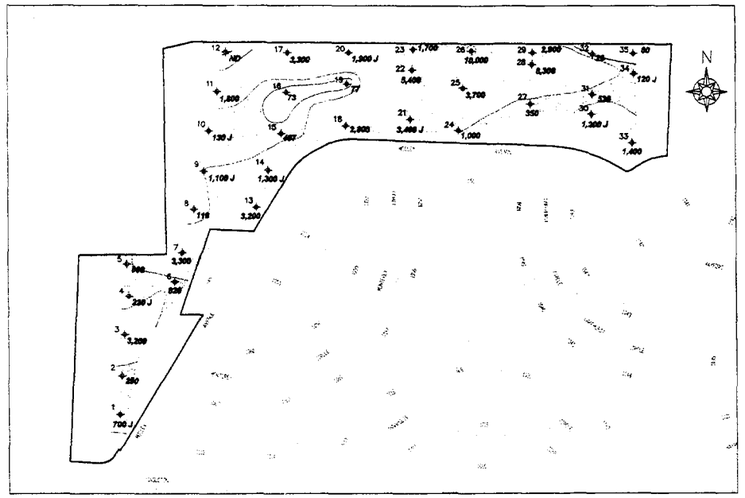
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL = 1,800,000 µg/Kg.

FIGURE 14

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
FLUORENE

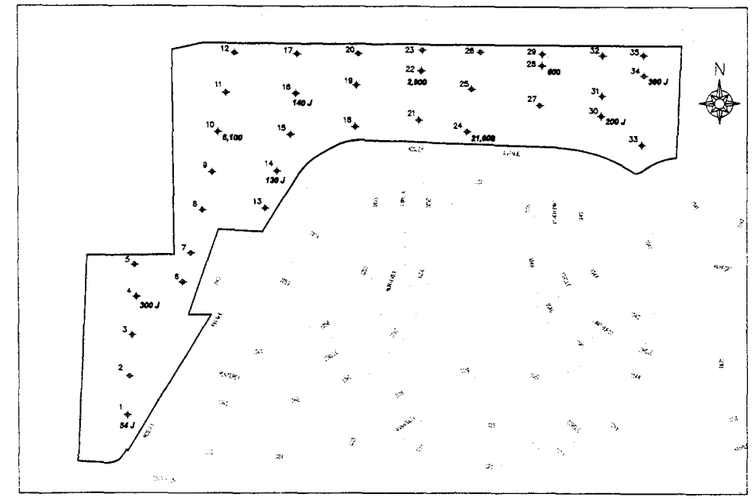
G:\200-74\SITE 25\FLUORENE.DWG 1/14/98 PLD

SITE 25 - INDENO (1,2,3-cd) PYRENE



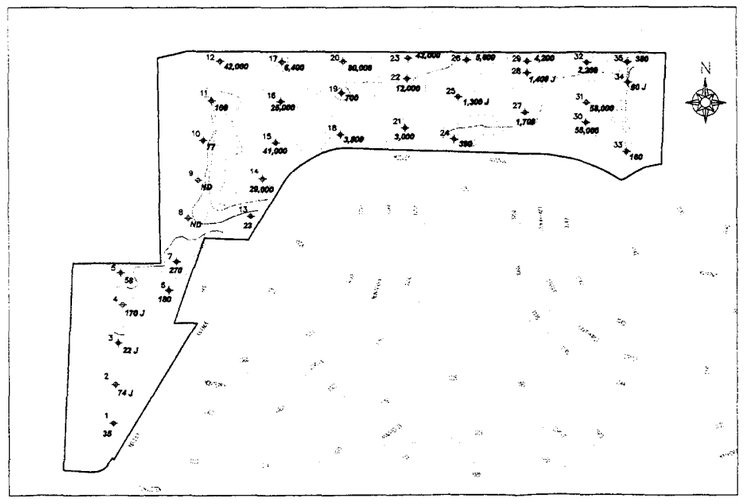
INDENO (1,2,3-cd) PYRENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



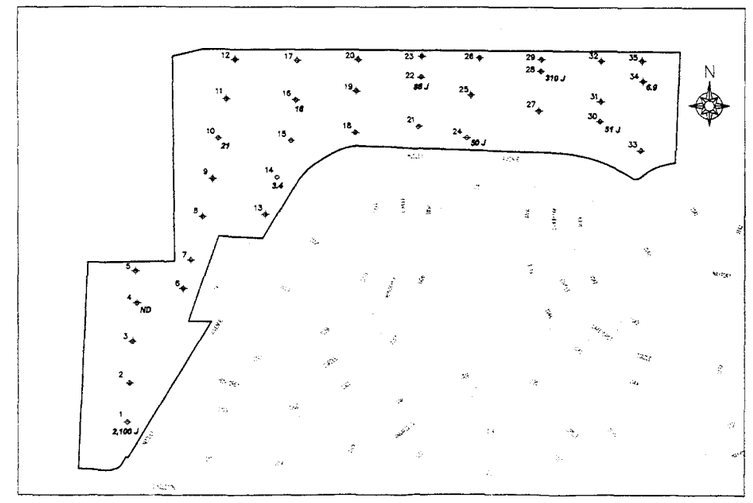
INDENO (1,2,3-cd) PYRENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



INDENO (1,2,3-cd) PYRENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



INDENO (1,2,3-cd) PYRENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

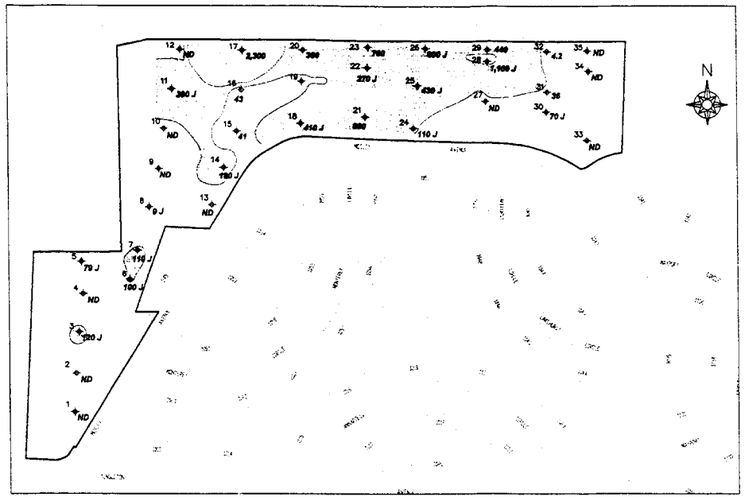
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL = 560 µg/Kg.

FIGURE 15

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
INDENO (1,2,3 - cd) PYRENE

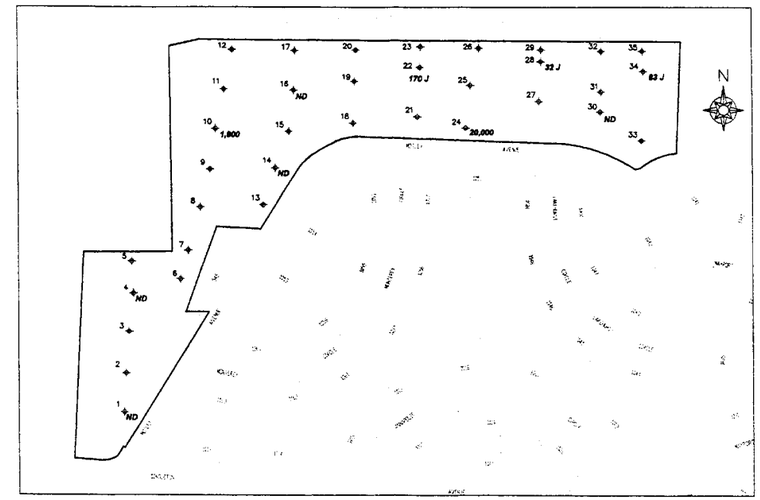
G:\200-74\SITE 25\INDENO_PYRENE_TEST.DWG 1/4/98 PLD

SITE 25 - NAPHTHALENE



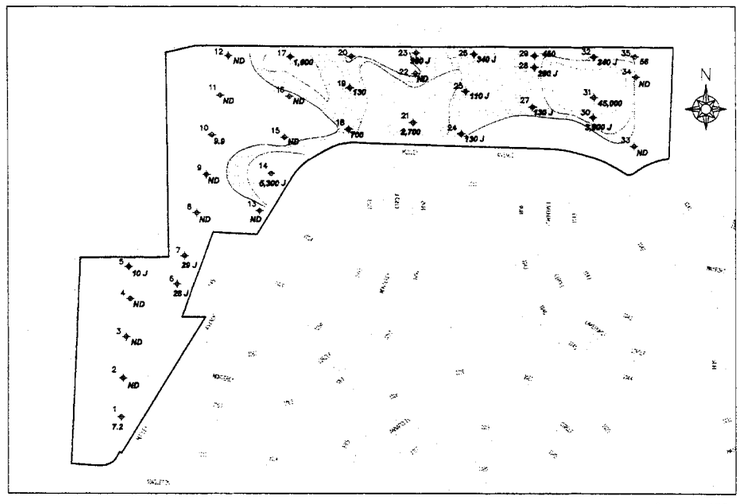
NAPHTHALENE DEPTH INTERVAL: 0.5 to 2 FEET BGS

0 150
SCALE IN FEET



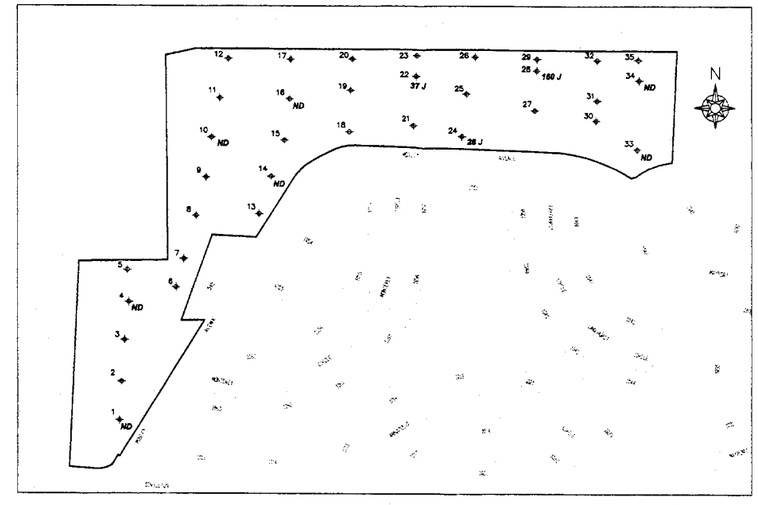
NAPHTHALENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



NAPHTHALENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



NAPHTHALENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

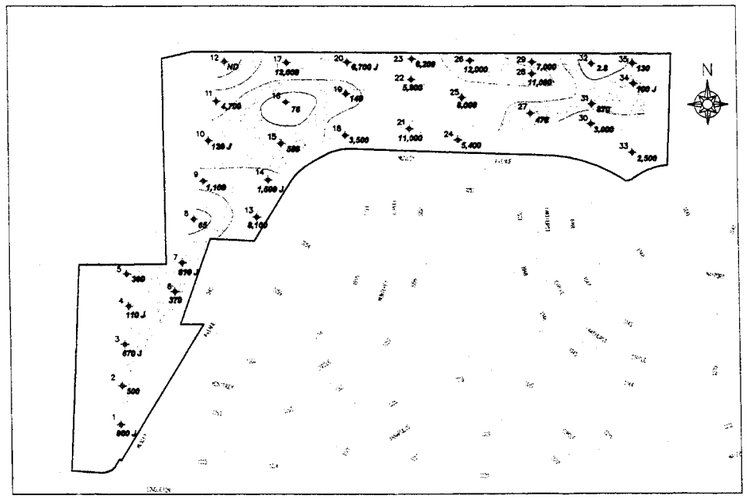
NOTE: EPA REGION IX RESIDENTIAL SOIL PRELIMINARY REMEDIATION GOAL = 55,000 µg/Kg.

FIGURE 16

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF NAPHTHALENE

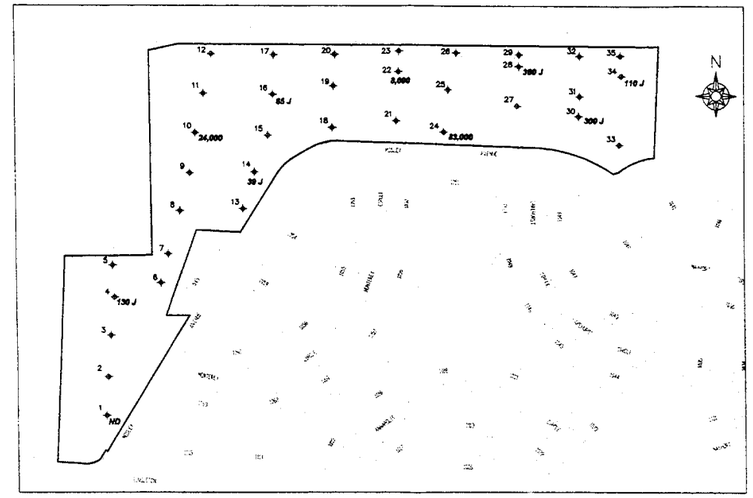
G:\200-74\SITE 25\PYRENE_TEST.DWG 12/30/98 PLD

SITE 25 - PHENANTHRENE



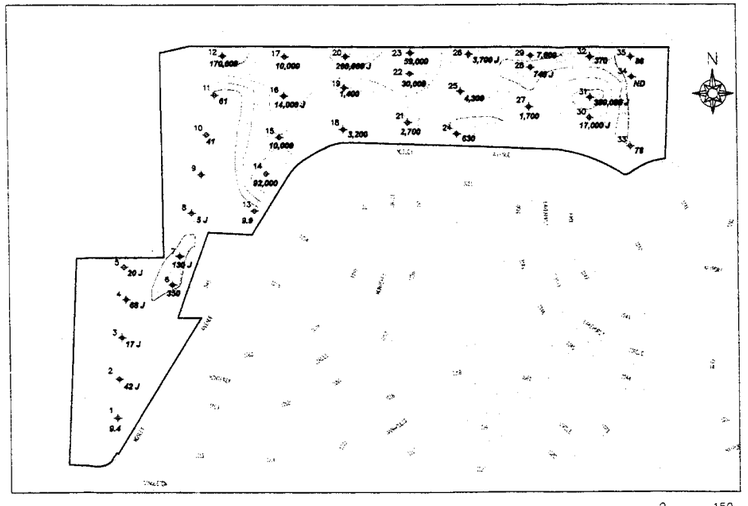
PHENANTRHRENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



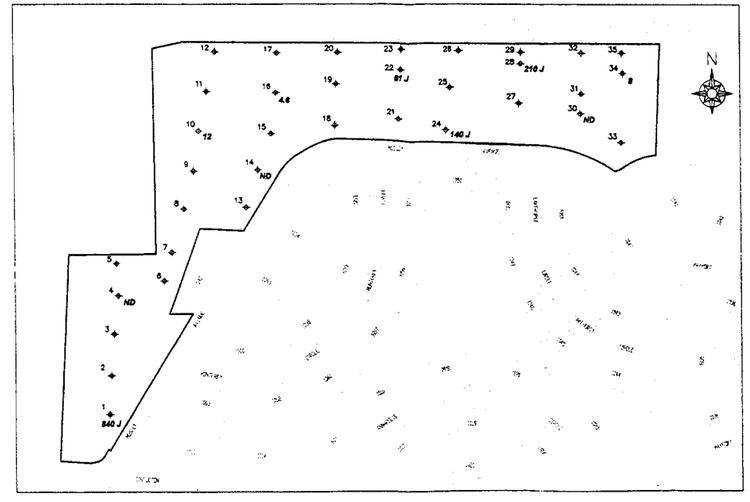
PHENANTHRENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



PHENANTRHRENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



PHENANTHRENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

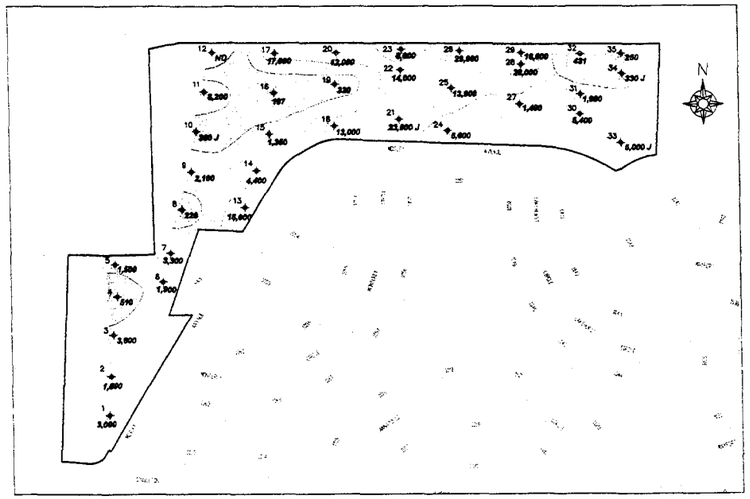
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL NOT AVAILABLE.

FIGURE 17

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
PHENANTHRENE

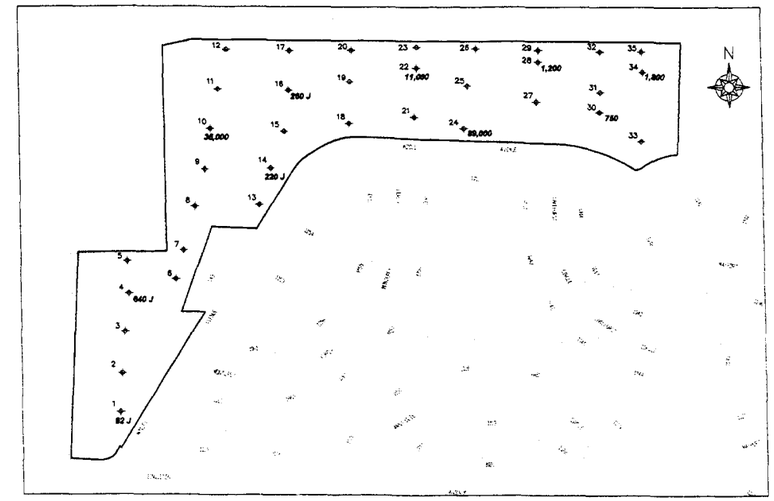
G:\200-74\SITE 25\phenanthrene.DWG 12/30/98 PLD

SITE 25 - PYRENE



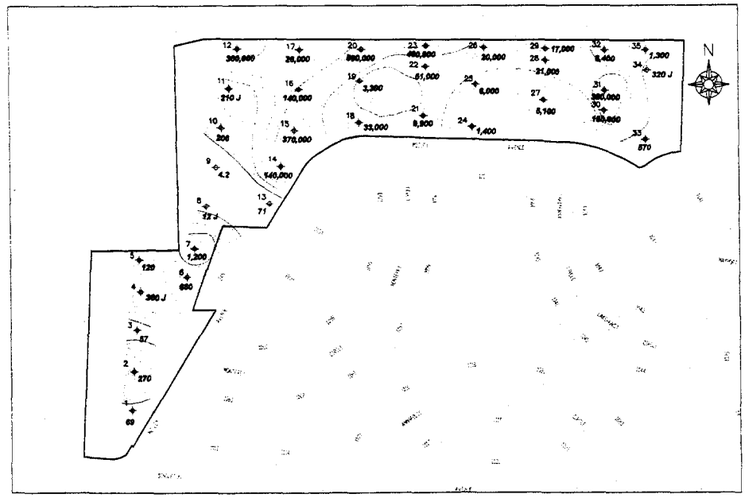
PYRENE DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



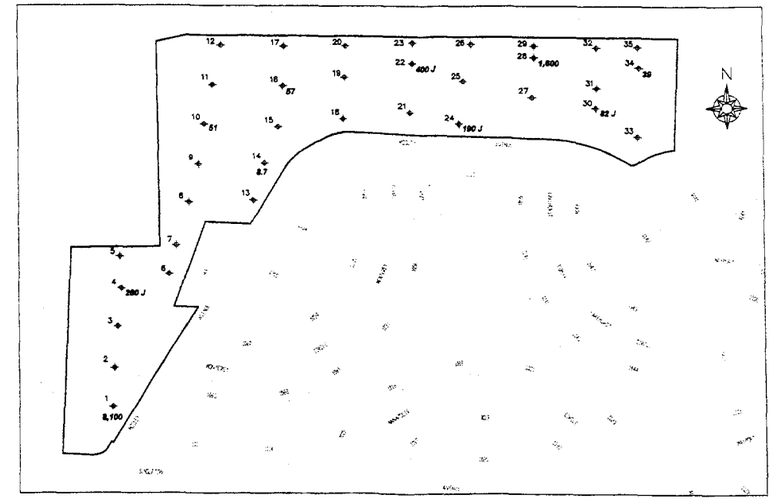
PYRENE DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



PYRENE DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



PYRENE DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS		>100,000 µg/Kg
	BOUNDARY OF IR SITE 25	BGS	BELOW GROUND SURFACE
	100 - 999 µg/Kg	ND	NOT DETECTED
	1,000 - 9,999 µg/Kg	J	ESTIMATED VALUE
	10,000 - 99,999 µg/Kg		

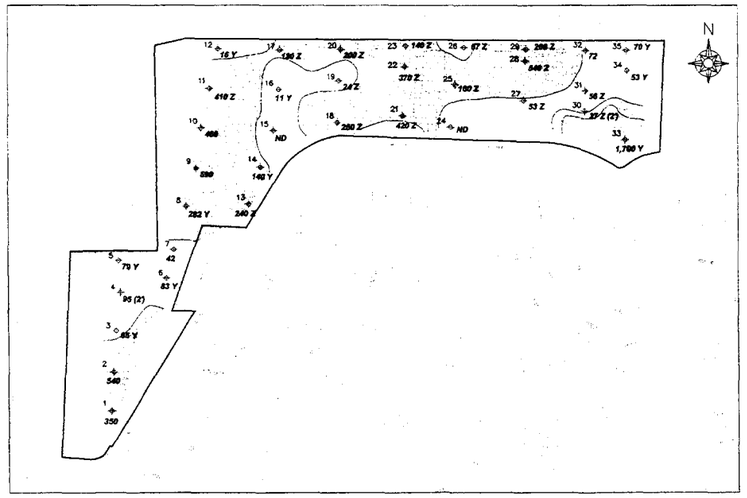
NOTE: EPA REGION IX RESIDENTIAL SOIL
PRELIMINARY REMEDIATION GOAL = 1,500,000 µg/Kg.

FIGURE 18

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
PYRENE

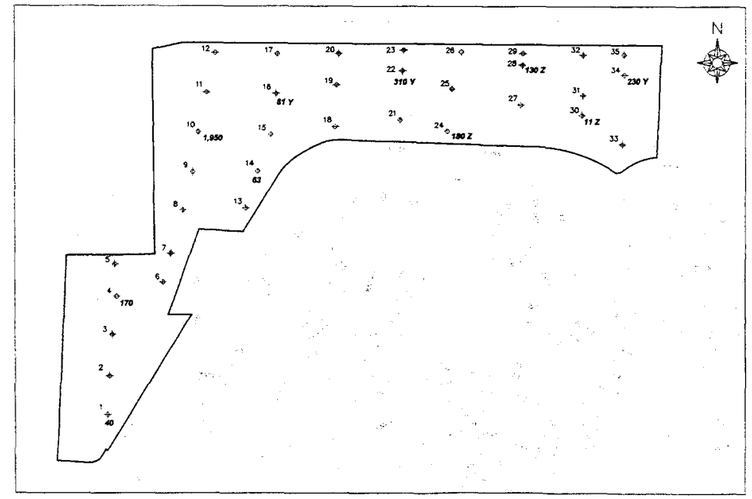
G:\200--74\SITE 25\pyrene.DWG 12/30/98 PLD

SITE 25 - MOTOR OIL RANGE ORGANICS



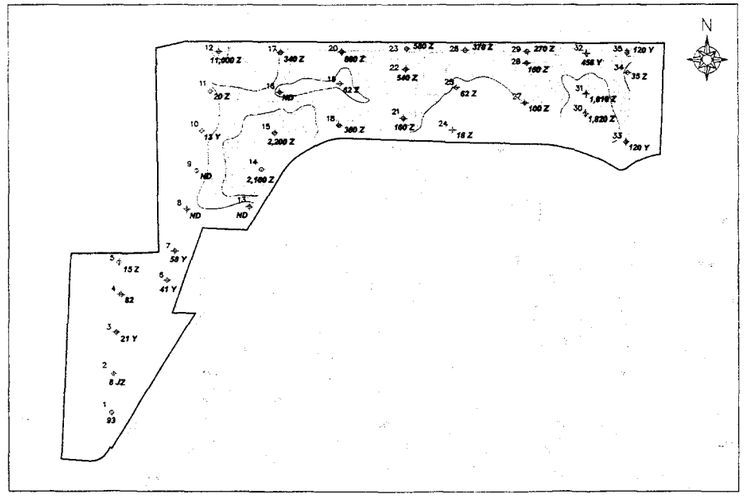
MOTOR OIL RANGE ORGANICS DEPTH INTERVAL: 0.5 TO 2 FEET BGS

0 150
SCALE IN FEET



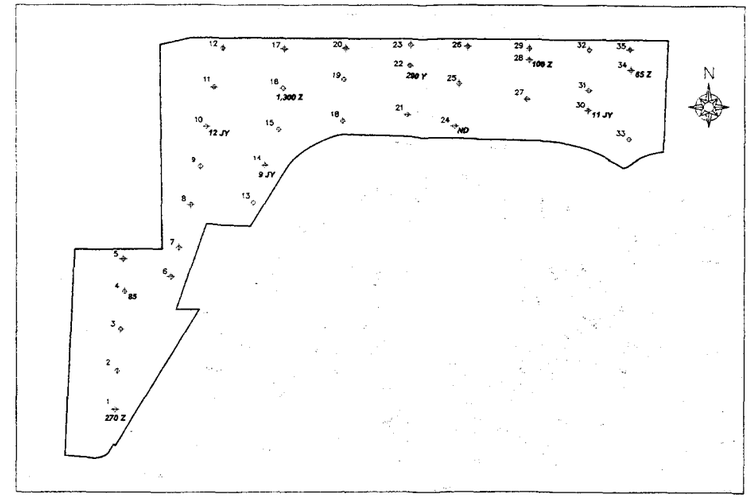
MOTOR OIL RANGE ORGANICS DEPTH INTERVAL: 4 FEET BGS

0 150
SCALE IN FEET



MOTOR OIL RANGE ORGANICS DEPTH INTERVAL: 7 FEET BGS

0 150
SCALE IN FEET



MOTOR OIL RANGE ORGANICS DEPTH INTERVAL: 10 FEET BGS

0 150
SCALE IN FEET

LEGEND

12	SAMPLING LOCATIONS	BGS	BELOW GROUND SURFACE
	BOUNDARY OF IR SITE 25	ND	NOT DETECTED
	100 - 999 mg/Kg	J	ESTIMATED VALUE
	1,000 - 9,999 mg/Kg	Y	OTHER FUEL HYDROCARBONS; NOT MOTOR OIL
	10,000 - 99,999 mg/Kg	Z	OTHER NON-FUEL HYDROCARBONS; NOT MOTOR OIL
	>100,000 mg/Kg		

FIGURE 19

ALAMEDA POINT - IR SITE 25
DISTRIBUTION OF
MOTOR OIL RANGE ORGANICS

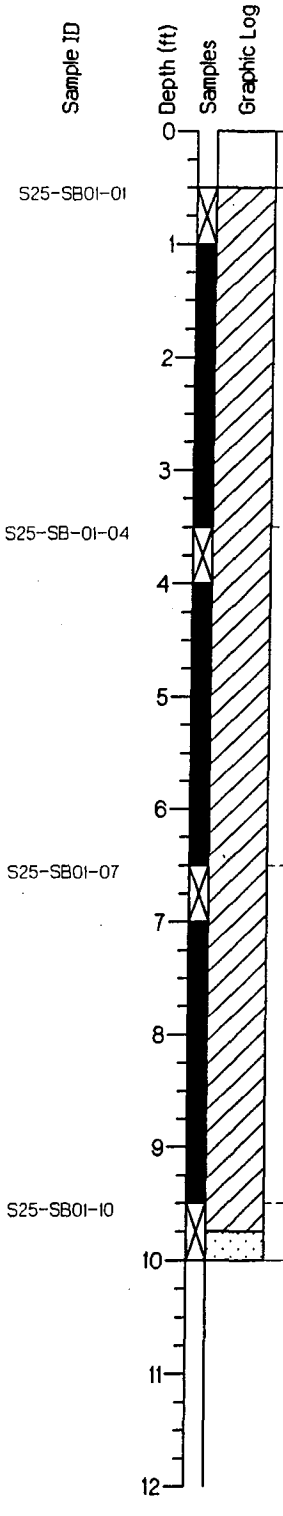
G:\200-7A\SITE 25\MOTOR_OIL_RANGE.DWG 1/4/99 PLD

APPENDIX A

LITHOLOGIC BORING LOGS

UGA Environmental Consulting Services

LOG OF BORING 01



Geologic Description

Grass and Topsoil

SILT (ML) Stiff to medium stiff; non-plastic. Brown to light-brown. Sand 10%. Organic matter 15%.

SILT (ML) Stiff, non-plastic, dry. Brown to light-brown silt. Minor sand.

SILT (ML) Non-plastic, medium stiff, dry to moist. Grey-green to tan/brown silt with clay.

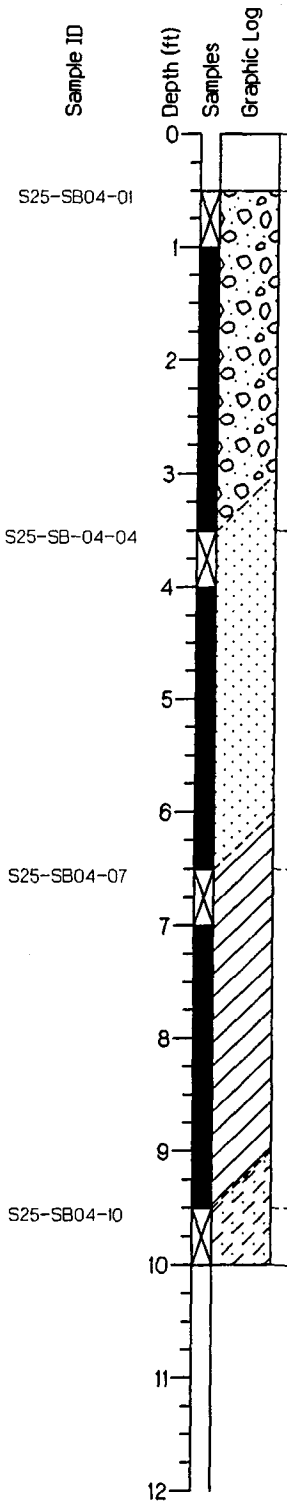
SAND (SP) Medium to fine sand. Loose , slight H2S odor.

Total Depth of boring = 10.0 feet.

Project Number: CTO 122	Date Drilled: 10/20/98	Figure
Project Name: Site 25 Remedial Investigation	GS Elevation: 110.91	
Project Task: Alameda Point	First Encountered Wet Soil: None Encountered	
Project Location: Alameda, California	Total Depth Of Borehole: 10.0 ft.	
Equipment: Direct Push 2.5 in. diameter		

UGA Environmental Consulting Services

LOG OF BORING 04



Geologic Description

Grass and Topsoil

Road base fill, sandy gravel with silt, angular.

SAND (SP) Loose, dry. Light-brown to tan sand, fine to medium. silt 10%. Organic matter <5%.

SILT (ML) Non-plastic, dry. Grey to light-grey silt. Organic matter <5%.

SILTY SAND (SP) Medium to fine sand, grey-green to grey-blue. Silt 25%.

Total Depth of boring = 10.0 feet.

Project Number	CTO 122	**Date Drilled**	10/20/98
Project Name	Site 25 Remedial Investigation	**GS Elevation**	113.85
Project Task	Alameda Point	**First Encountered Wet Soil**	None Encountered
Project Location	Alameda, California	**Total Depth Of Borehole**	10.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

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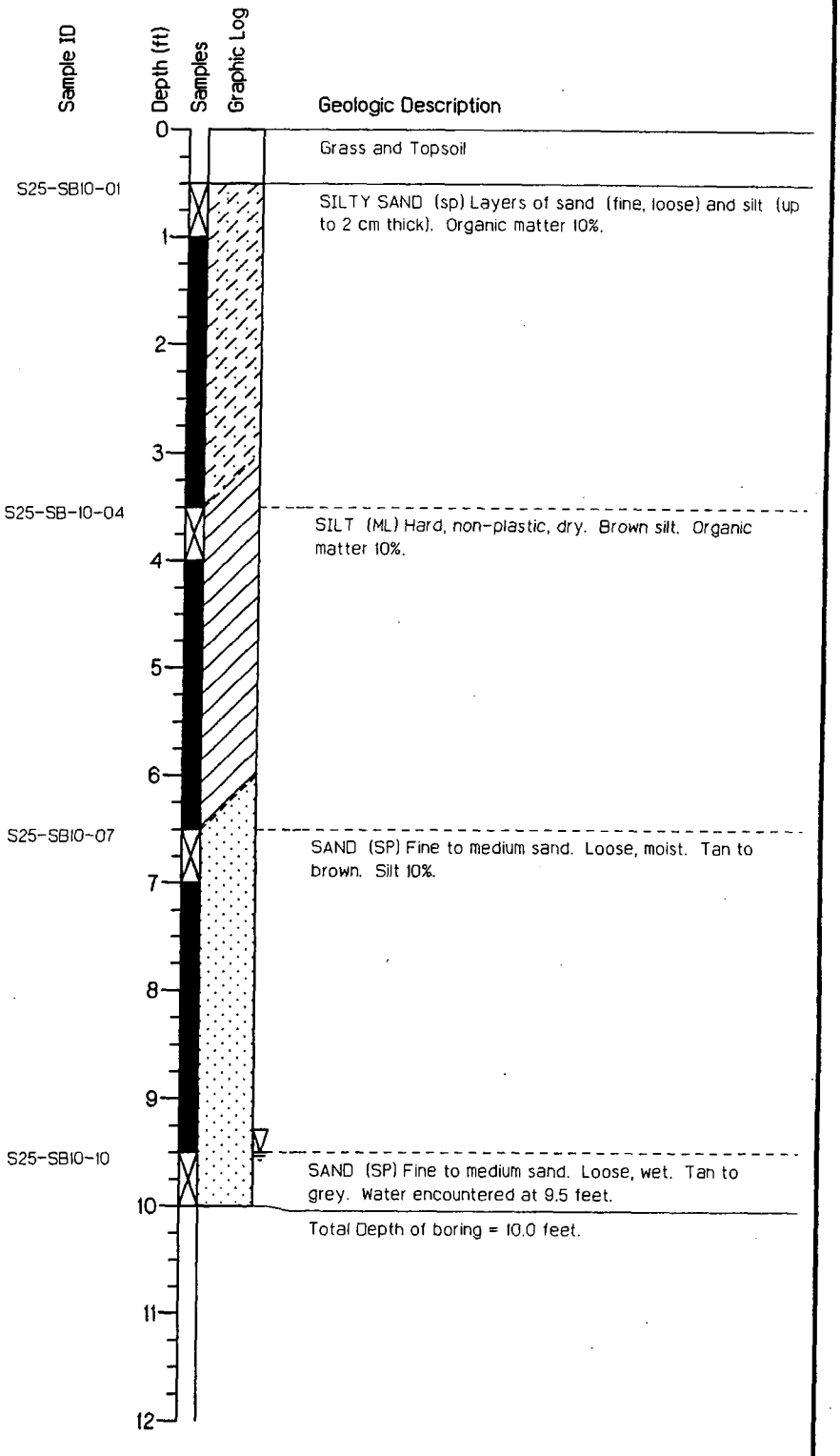
LOG OF BORING 10



Project Number CTO 122	Date Drilled 10/20/98	Figure
Project Name Site 25 Remedial Investigation	GS Elevation 113.69	
Project Task Alameda Point	First Encountered Wet Soil 9.5 ft.	
Project Location Alameda, California	Total Depth Of Borehole 10.0 ft.	
Equipment Direct Push 2.5 in. diameter		

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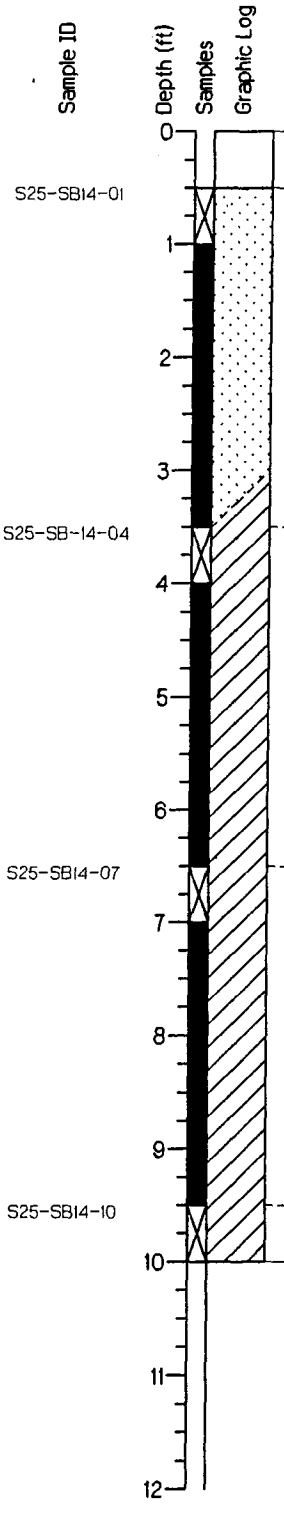
LOG OF BORING 14



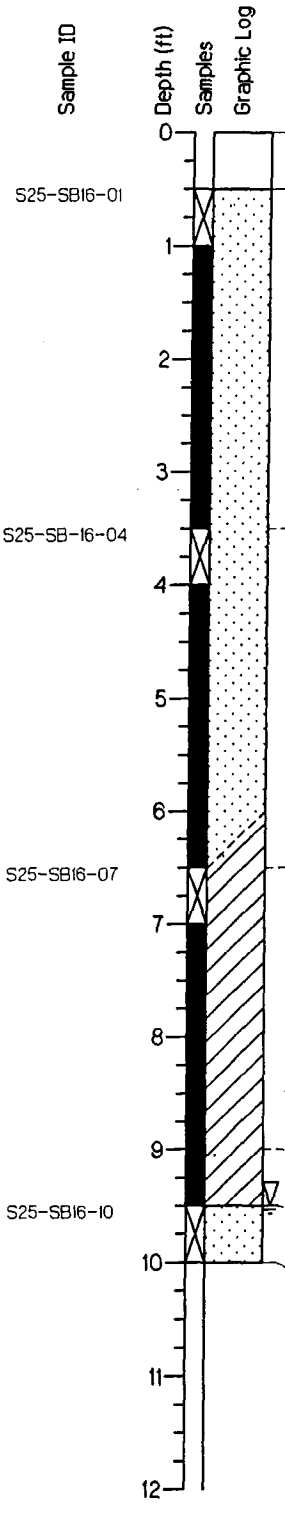
Geologic Description
Grass and Topsoil
SAND (SP) Fine sand, loose, dry. Tan to brown.
SILT (ML) Hard, dry. Brown to light-brown. Organic matter 10%.
SILT (ML) Low plasticity, moist. Grey-green silt, streaks of black.
SILT (ML) Low to non-plastic, wet. Grey-green silt.
Total Depth of boring = 10.0 feet.

Project Number	CTO 122	**Date Drilled**	10/20/98
Project Name	Site 25 Remedial Investigation	**GS Elevation**	113.61
Project Task	Alameda Point	**First Encountered Wet Soil**	None Encountered
Project Location	Alameda, California	**Total Depth Of Borehole**	10.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

UGA Environmental Consulting Services

LOG OF BORING 16



Geologic Description

Grass and Topsoil

SAND (SP) Fine sand. Tan to light-brown. Organic matter 15%. Layers of silt up to 3 cm. with organic matter to 40%.

SAND (SP) Loose. Tan to light-brown, rust colored staining. Organic matter 5%.

SILT (ML) Low plasticity, soft, HC odor, moist to wet. *Grey-green to black silt, with clay. Black smearing from* 7.5 to 9.0 feet.

SILT (ML) Low plasticity, soft, wet. Grey-green silt with clay (minor).

SAND (SP) Fine to medium, loose. Grey to blue sand. Groundwater level at sand.

Total Depth of boring = 10.0 feet.

Project Number CTO 122	Date Drilled 10/20/98	Figure
Project Name Site 25 Remedial Investigation	GS Elevation 113.49	
Project Task Alameda Point	First Encountered Wet Soil 9.5 ft.	
Project Location Alameda, California	Total Depth Of Borehole 10.0 ft.	
Equipment Direct Push 2.5 in. diameter		

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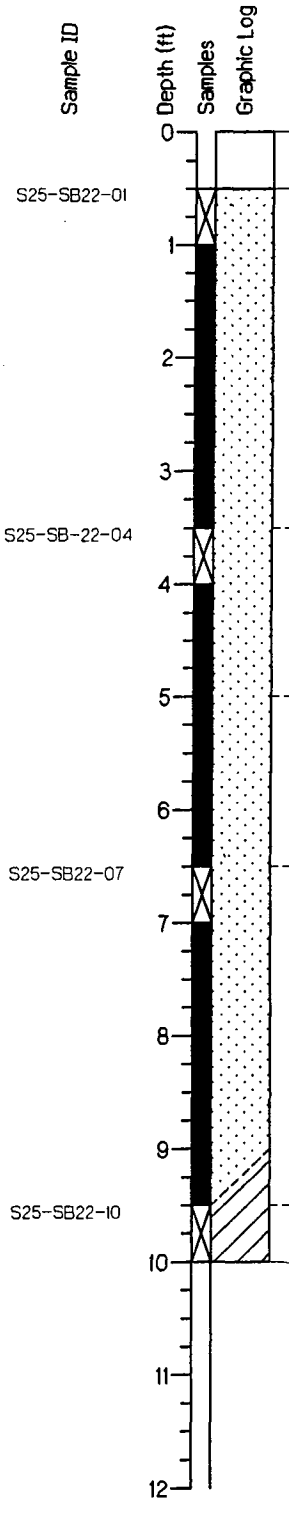
LOG OF BORING 22



Geologic Description

Grass and Topsoil

SAND (SP) Fine loose, tan to light-brown.

SAND (SP) Fine, loose. Tan to brown, rust colored staining.

SAND (SP) Tan to light brown as above.

SAND (SP) Fine sand (to medium). Grey-blue to black.

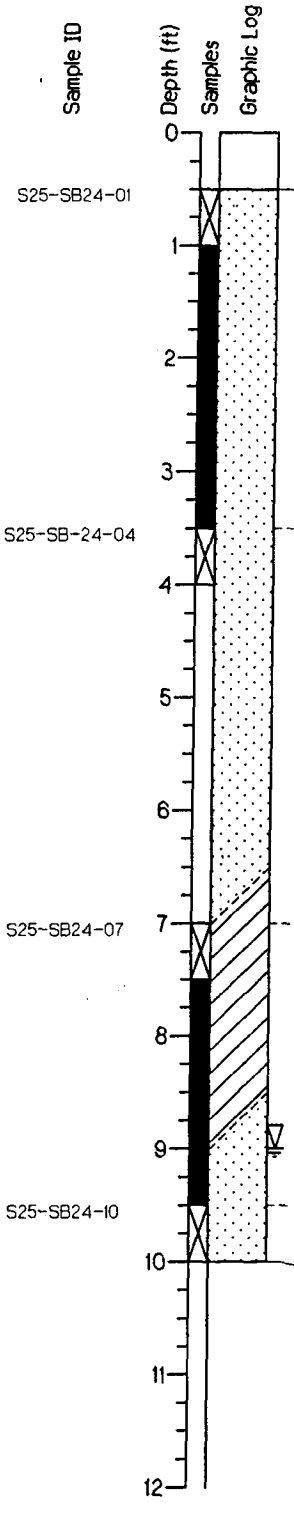
SILT (ML) Low plasticity; soft; HC odor. Blue-grey to black silt, with clay.

Total Depth of boring = 10.0 feet.

Project Number CTO 122	**Date Drilled** 10/20/98	**Figure**
Project Name Site 25 Remedial Investigation	**GS Elevation** 113.83 msl	
Project Task Alameda Point	**First Encountered Wet Soil** None Encountered	
Project Location Alameda, California	**Total Depth Of Borehole** 10.0 ft.	
Equipment Direct Push 2.5 in. diameter		

USA Environmental Consulting Services

LOG OF BORING 24



Geologic Description

SAND (SP) Fine sand. Loose, dry. Organic matter 15%. Interbedded with silt – dry, non-plastic, organic matter 10%. Both tan to light- brown.

SAND (SP) Fine to medium sand. Dry. Brown to light-brown rust colored staining <10%.

SILT (ML) Low plasticity, moist. Grey-green to blue-grey silt.

SAND (SP) Fine to medium sand. Loose, wet. Grey to blue-grey, with minor silt (<10%).

Total Depth of boring = 10.0 feet.

Project Number CTO 122	**Date Drilled** 10/20/98	Figure
Project Name Site 25 Remedial Investigation	**GS Elevation** 113.37 msl	
Project Task Alameda Point	**First Encountered Wet Soil** 9.0 ft.	
Project Location Alameda, California	**Total Depth Of Borehole** 10.0 ft.	
Equipment Direct Push 2.5 in. diameter		

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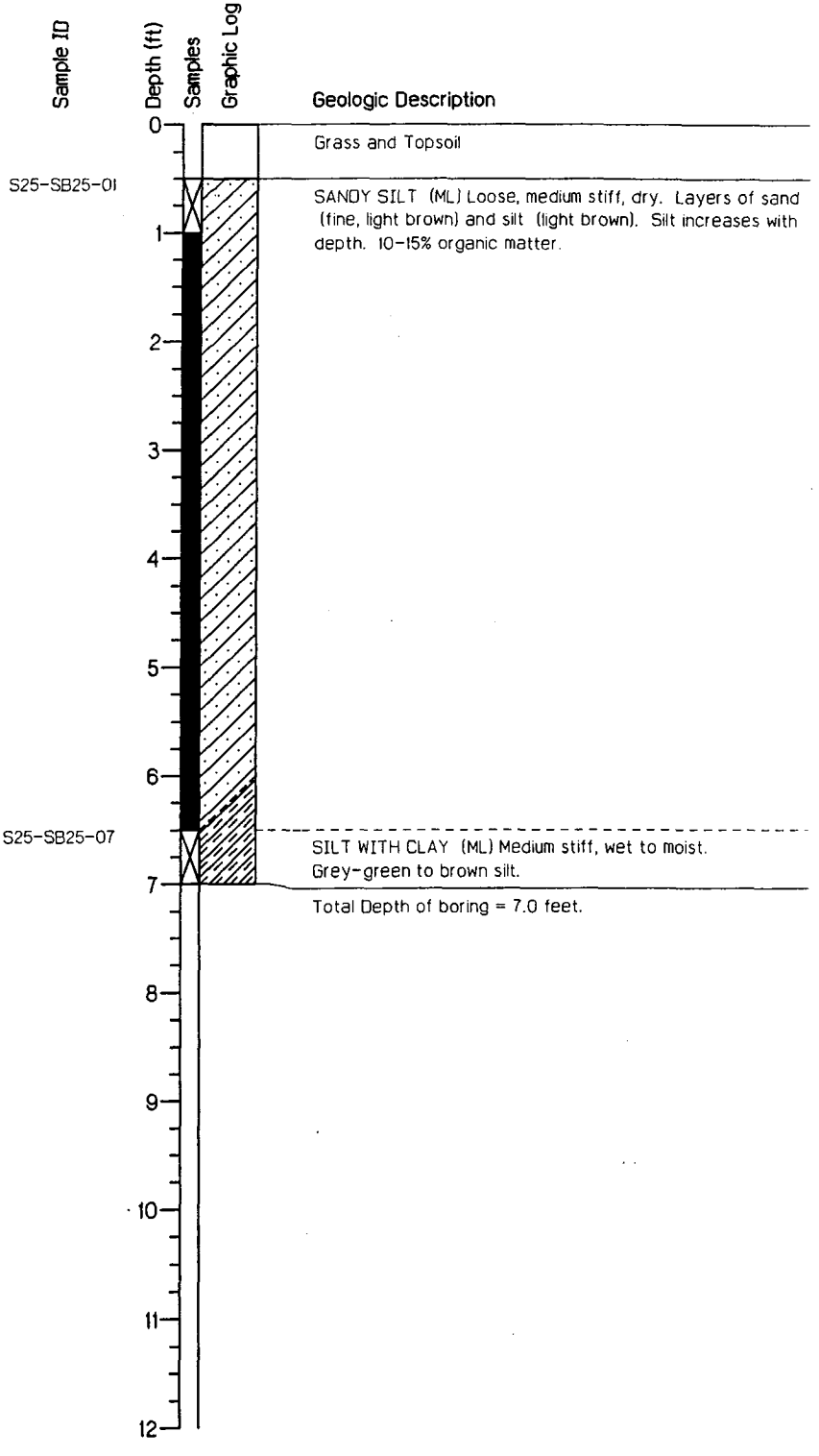
LOG OF BORING 25



Project Number	CTO 122	Date Drilled	10/20/98
Project Name	Site 25 Remedial Investigation	GS Elevation	113.53 msl
Project Task	Alameda Point	First Encountered Wet Soil	None Encountered
Project Location	Alameda, California	Total Depth Of Borehole	7.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

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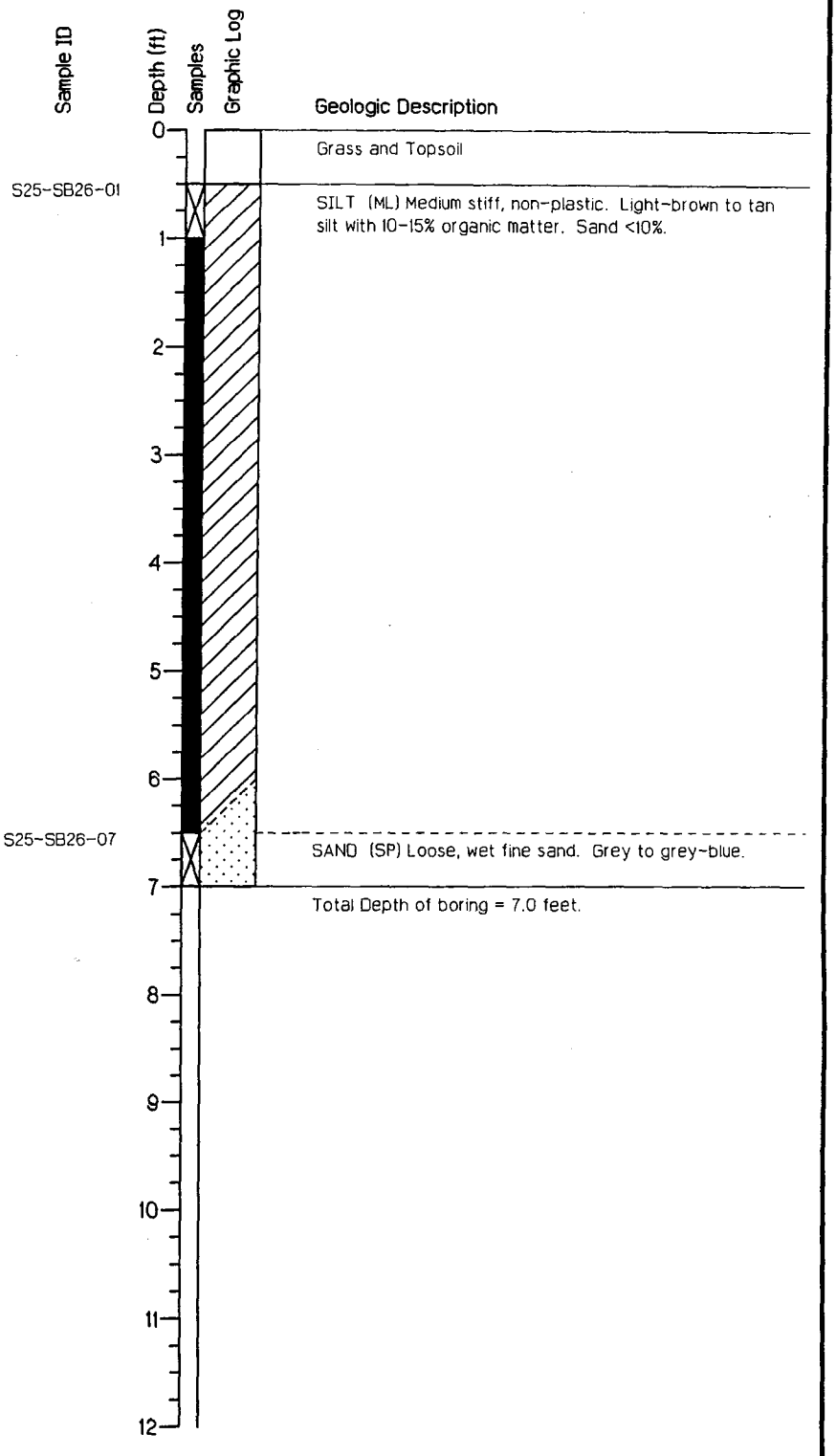
LOG OF BORING 26



Project Number	CTO 122	Date Drilled	10/20/98
Project Name	Site 25 Remedial Investigation	GS Elevation	113.34 msl
Project Task	Alameda Point	First Encountered Wet Soil	None Encountered
Project Location	Alameda, California	Total Depth Of Borehole	7.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

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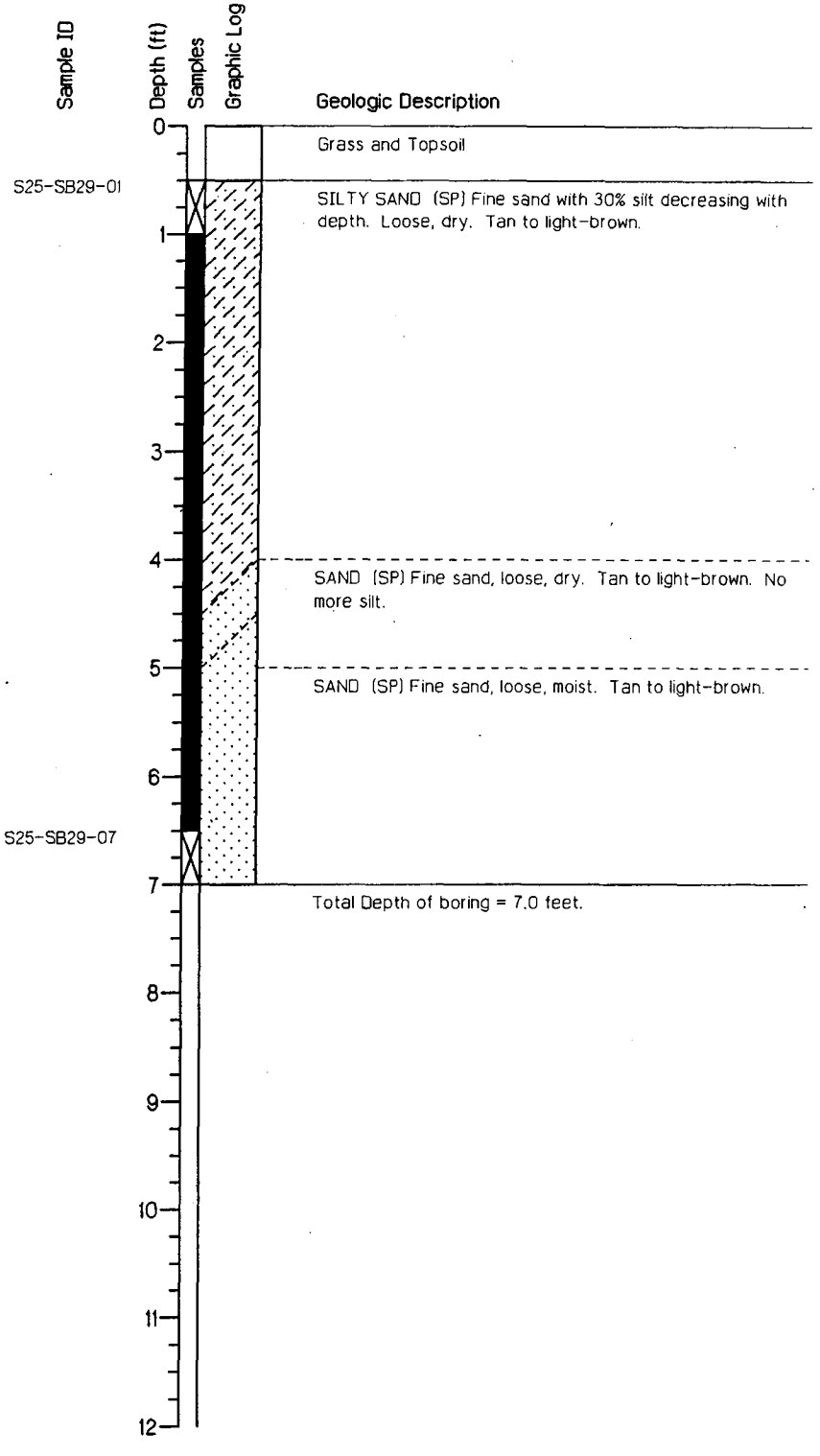
LOG OF BORING 28

Sample ID	Depth (ft)	Geologic Description
	0	Grass and Topsoil
S25-SB28-01	1	SAND (SP) Fine sand. Tan to light-brown. Rust colored staining, minor silt layers with organic matter 15%.
	2	
	3	
S25-SB-28-04	4	SAND (SP) Fine sand, loose. Light-brown sand. Rust colored staining.
	5	
	6	
S25-SB28-07	7	SAND (SP) Fine to medium sand. Loose and moist. With silt minor (<10%).
	8	
	9	
S25-SB28-10	10	SILT (ML) Low plasticity. Grey-green silt with clay.
	11	Total Depth of boring = 10.0 feet.
	12	

Project Number CTO 122	**Date Drilled** 10/20/98	Figure
Project Name Site 25 Remedial Investigation	**GS Elevation** 113.45 msl	
Project Task Alameda Point	**First Encountered Wet Soil** None Encountered	
Project Location Alameda, California	**Total Depth Of Borehole** 10.0 ft.	
Equipment Direct Push 2.5 in. diameter		

USA Environmental Consulting Services

LOG OF BORING 29

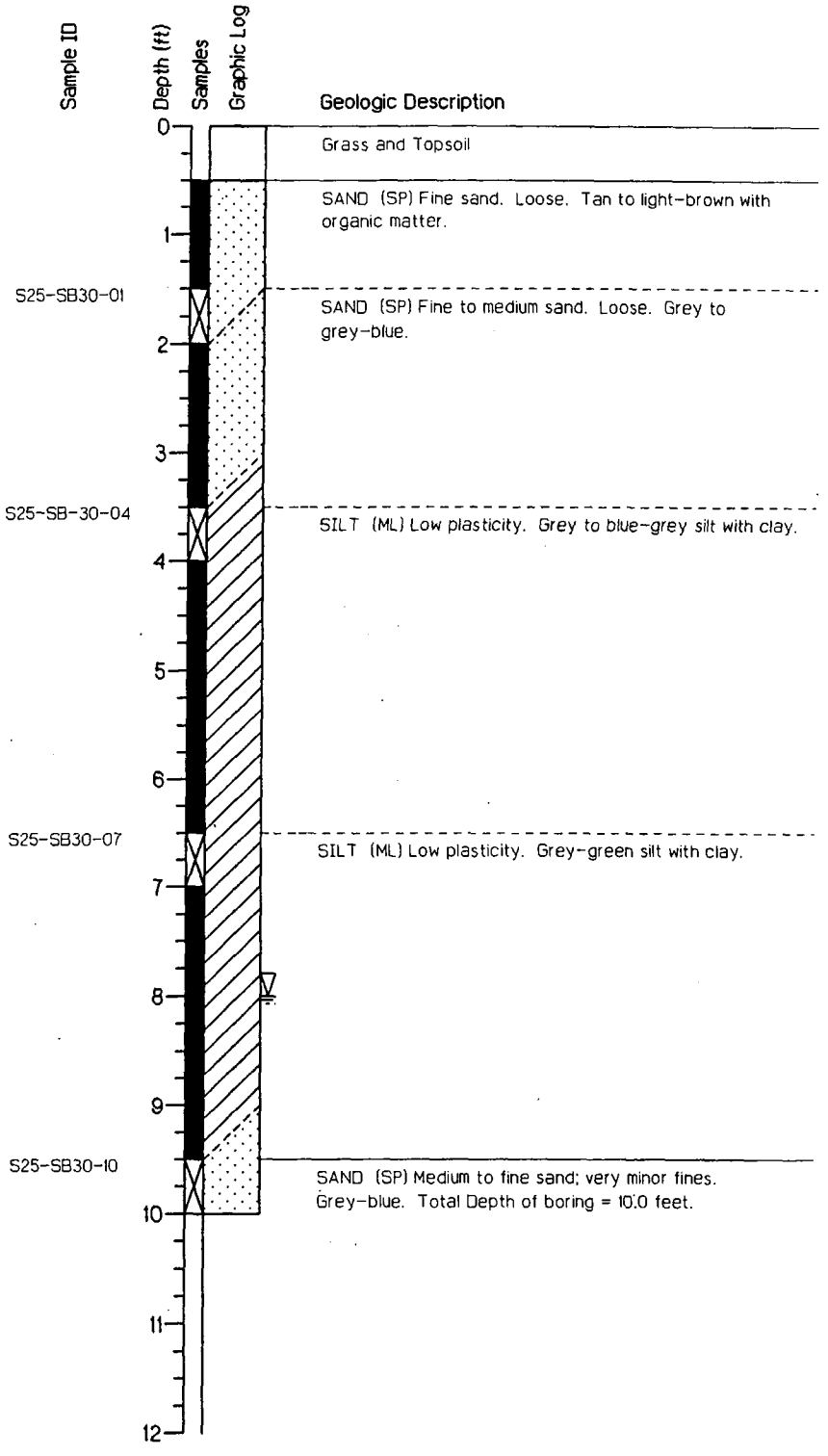


Project Number	CTO 122	**Date Drilled**	10/21/98
Project Name	Site 25 Remedial Investigation	**GS Elevation**	113.09 msl
Project Task	Alameda Point	**First Encountered Wet Soil**	None Encountered
Project Location	Alameda, California	**Total Depth Of Borehole**	7.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

USA Environmental Consulting Services

LOG OF BORING 30



Project Number CTO 122	Date Drilled 10/20/98	Figure
Project Name Site 25 Remedial Investigation	GS Elevation 112.95 msl	
Project Task Alameda Point	First Encountered Wet Soil 8.0 ft.	
Project Location Alameda, California	Total Depth Of Borehole 10.0 ft.	
Equipment Direct Push 2.5 in. diameter		

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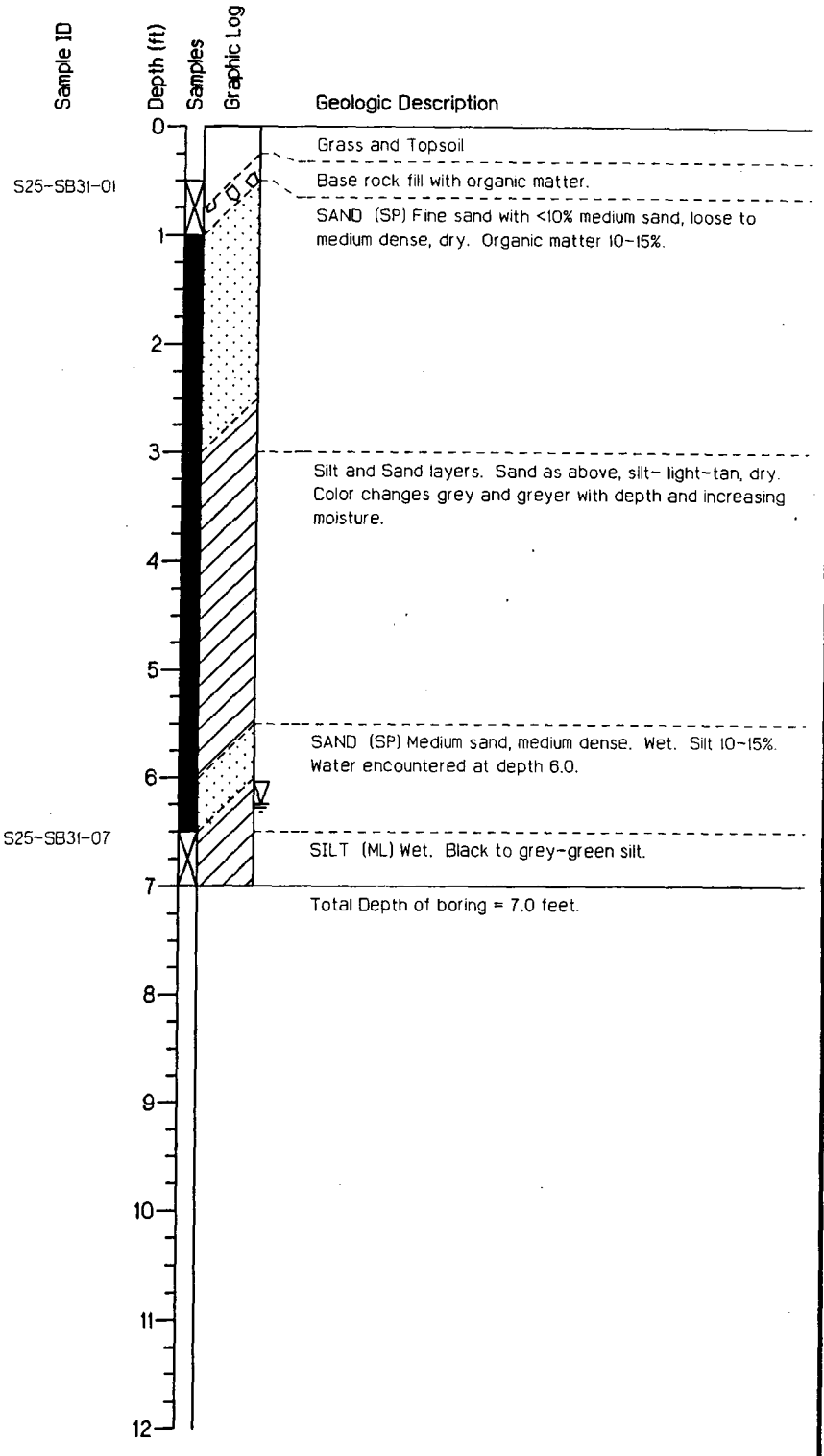
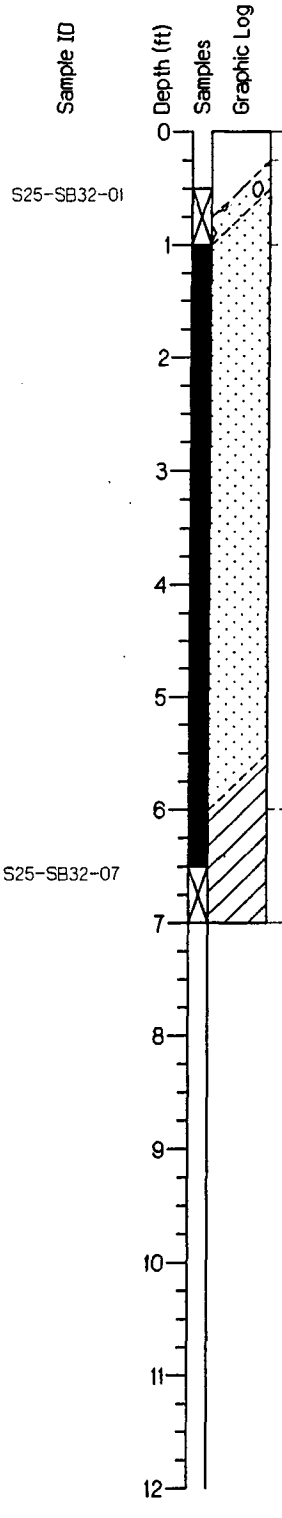
LOG OF BORING 31



Project Number CTO 122	Date Drilled 10/21/98	Figure
Project Name Site 25 Remedial Investigation	GS Elevation 113.29 msl	
Project Task Alameda Point	First Encountered Wet Soil 6.25 ft.	
Project Location Alameda, California	Total Depth Of Borehole 7.0 ft.	
Equipment Direct Push 2.5 in. diameter		

USA Environmental Consulting Services

LOG OF BORING 32



Geologic Description

Grass and Topsoil

Base rock fill – angular well graded gravel and sand. Dry.

SAND (SP) Fine to medium sand. Loose to medium dense, dry. *Tan to light-brown, rust color staining (2 cm thick).* Organic matter 10%. Alternating with silt – dark-brown to dark-grey silt with very minor clay, dry, stiff and friable. Rust colored staining in tissues shaped planar features (2-4 cm thick). Organic matter 10%.

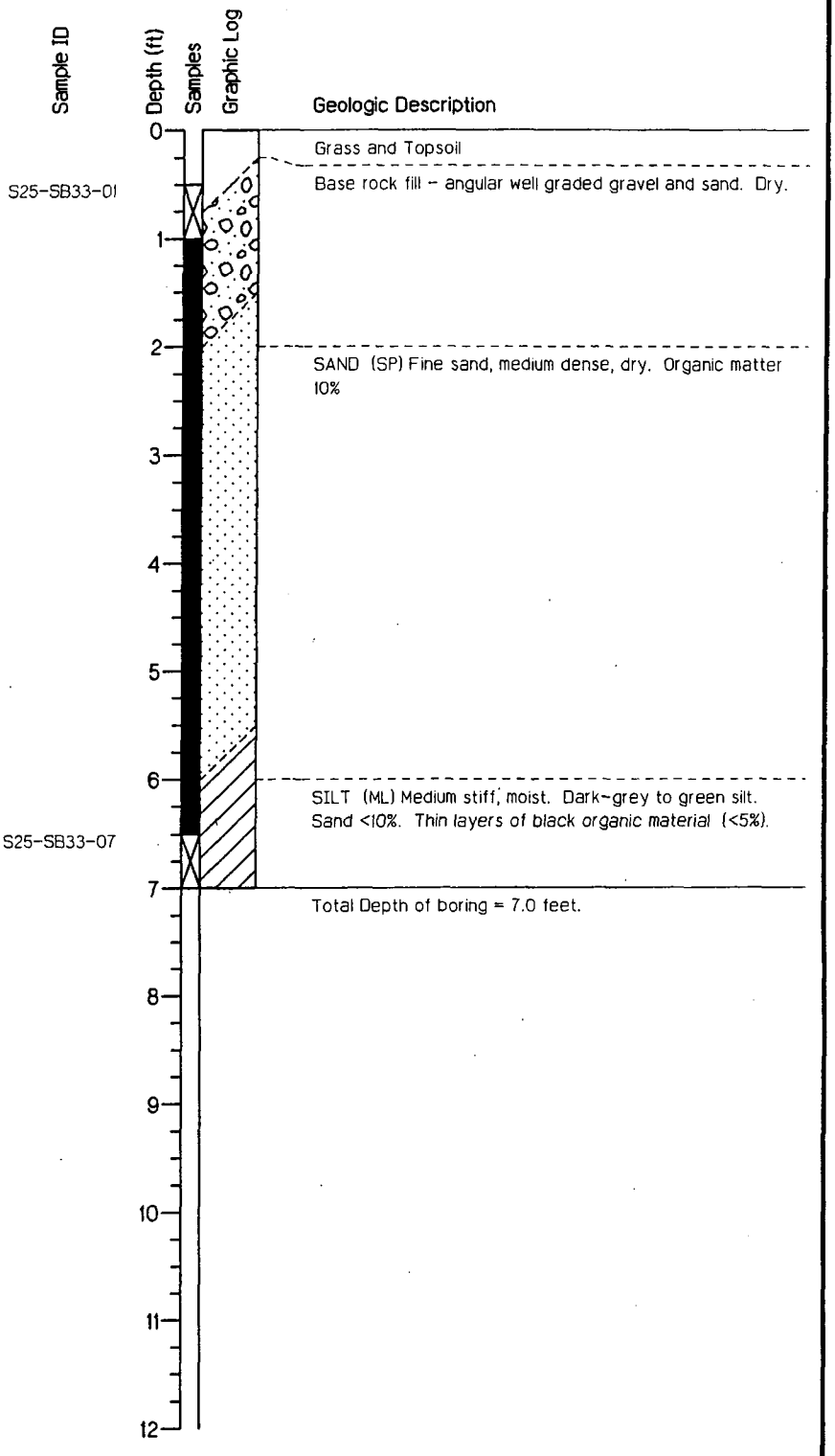
SILT (ML) Medium stiff, moist, low plasticity. Grey to *grey-green, minor organic matter.*

Total Depth of boring = 7.0 feet.

Project Number CTO 122	**Date Drilled** 10/21/98	**Figure**
Project Name Site 25 Remedial Investigation	**GS Elevation** 112.19 msl	
Project Task Alameda Point	**First Encountered Wet Soil** None Encountered	
Project Location Alameda, California	**Total Depth Of Borehole** 7.0 ft.	
Equipment Direct Push 2.5 in. diameter		

USA Environmental Consulting Services

LOG OF BORING 33

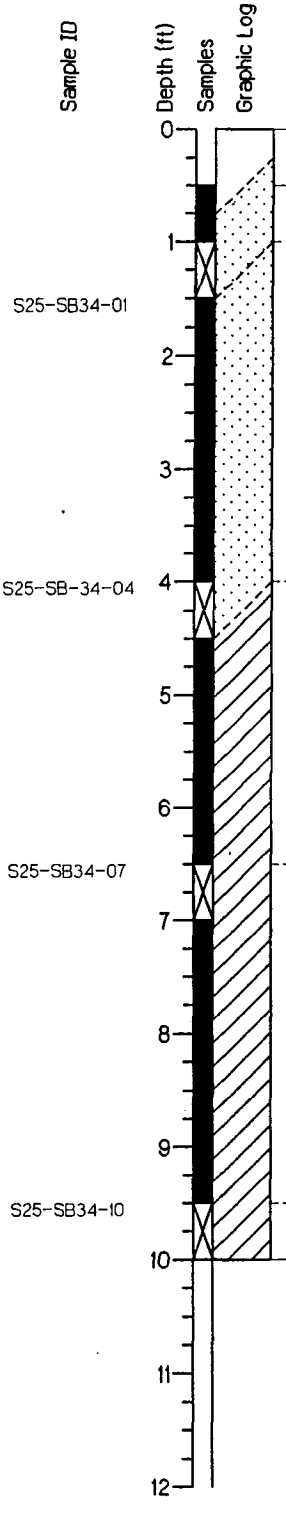


Project Number	CTO 122	**Date Drilled**	10/21/98
Project Name	Site 25 Remedial Investigation	**GS Elevation**	112.12 msl
Project Task	Alameda Point	**First Encountered Wet Soil**	None Encountered
Project Location	Alameda, California	**Total Depth Of Borehole**	7.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

U&A Environmental Consulting Services

LOG OF BORING 34



Geologic Description

Grass and Topsoil

SAND (SP) *Fine sand. Roots and organic matter.* Brown to tan.

SAND (SP) Fine to medium sand. Loose, moist. Grey to blue-grey.

SILT (ML) Low plasticity, moist to wet. Grey-green silt with clay; 5% biolorganic markings/traces.

SILT (ML) Low plasticity, wet. Grey-green/blue silt with clay.

SILT (ML) Low plasticity, wet. Grey-green silt with clay.

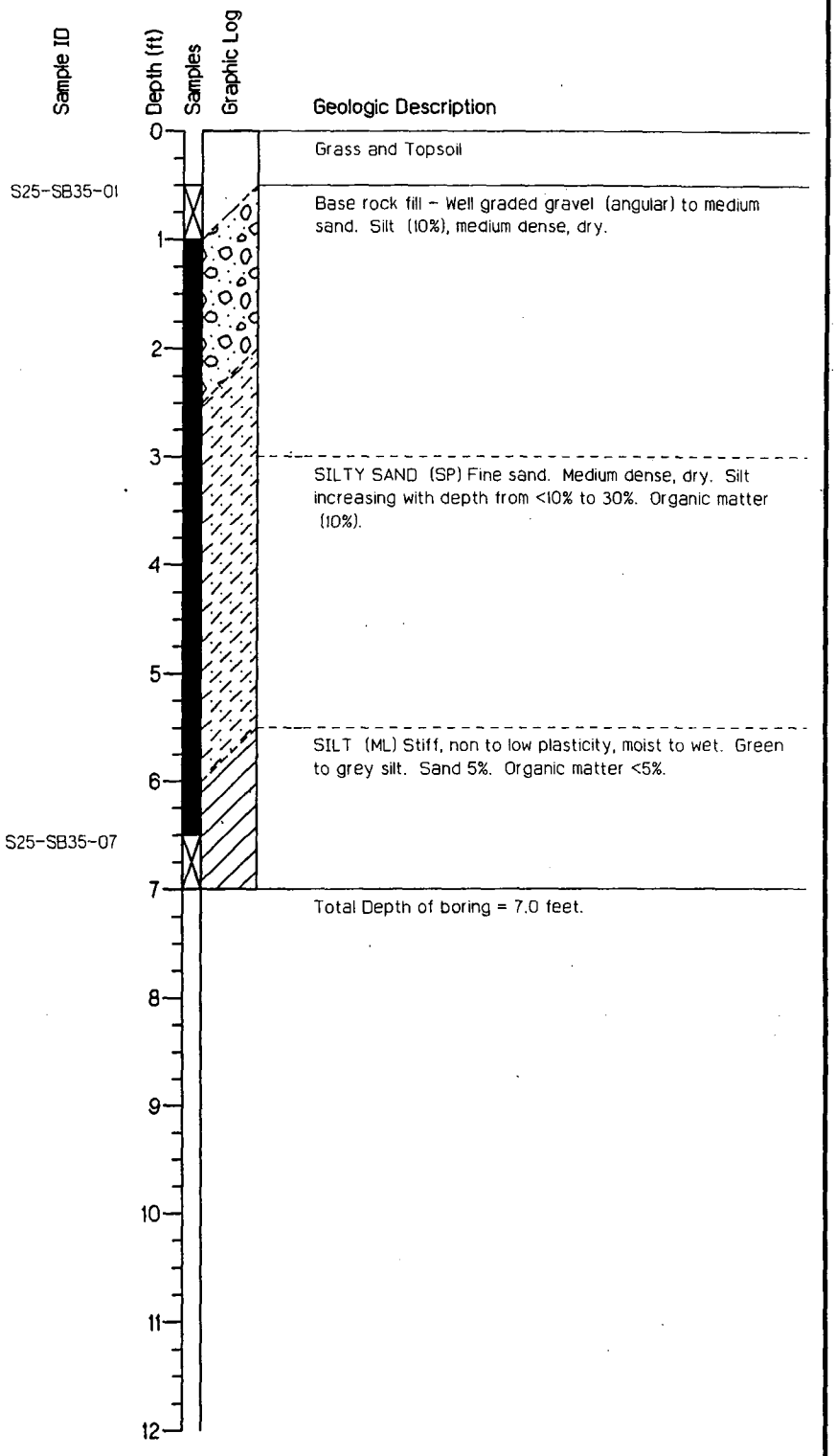
Total Depth of boring = 10.0 feet.

Project Number	CTO 122	**Date Drilled**	10/20/98
Project Name	Site 25 Remedial Investigation	**GS Elevation**	112.33 msl
Project Task	Alameda Point	**First Encountered Wet Soil**	None Encountered
Project Location	Alameda, California	**Total Depth Of Borehole**	10.0 ft.
Equipment	Direct Push 2.5 in. diameter		

Figure

U&A Environmental Consulting Services

LOG OF BORING 35



Project Number CTO 122	**Date Drilled** 10/21/98	Figure
Project Name Site 25 Remedial Investigation	**GS Elevation** 112.40 msl	
Project Task Alameda Point	**First Encountered Wet Soil** None Encountered	
Project Location Alameda, California	**Total Depth Of Borehole** 7.0 ft.	
Equipment Direct Push 2.5 in. diameter		