Attachment 3

PRELIMINARY SOIL AND GROUNDWATER INVESTIGATION REPORT

Vicinity of the Above-Ground Diesel Fuel Storage Tank at the Compost Production Area Main Wastewater Treatment Plant

East Bay Municipal Utility District
Oakland, California

Alisto Project No. 10-203

October 1994

PRELIMINARY SOIL AND GROUNDWATER INVESTIGATION REPORT

Vicinity of the Above-Ground Diesel Fuel Storage Tank
at the
Compost Production Area
Main Wastewater Treatment Plant

East Bay Municipal Utility District
Oakland, California

Project No. 10-203-01-005

Prepared for:

East Bay Municipal Utility District
375 Eleventh Street
Oakland, California

Prepared by:

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October 21, 1994

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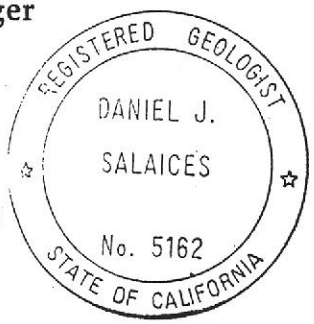

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1.0 INTRODUCTION

East Bay Municipal Utility District (EBMUD) retained Alisto Engineering Group to collect soil and groundwater samples at the EBMUD Main Wastewater Treatment Plant (WWTP), located at the end of Wake Avenue, 1/4 mile east of the Oakland Army Base, in Oakland, California. A site vicinity map and a site plan are shown in Figures 1 and 2.

1.1 Purpose and Scope of Work

This work was performed to assess the nature and extent of petroleum hydrocarbons in the subsurface soil and/or groundwater near a 1,000-gallon aboveground diesel storage tank.

The tasks performed during the investigation included the following:

- Drilled and logged eight exploratory soil borings and collected soil samples.
- Collected groundwater grab samples from two of the eight borings.
- Prepared this report presenting the field procedures and findings.

The above tasks and related field and sampling activities were performed in accordance with the requirements and guidelines of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), and the Alameda County Health Care Services Agency (ACHCSA).

1.2 Site Location and Description

The project site, is in the immediate vicinity of the above-ground diesel-fuel storage tank at the compost production area of the Main WWTP. Figure 2 shows the layout of the site including the locations of the tank and soil borings.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

The site is in Oakland, California, to the east of San Francisco Bay. Oakland is situated in the Coastal Range geomorphic province, characterized by northwesterly-trending mountains and valleys. San Francisco Bay occupies a Pliocene structural depression that has been flooded several times by Pleistocene glacial cycles. The San Francisco Bay Area is underlain by Late Pliocene-Early Pleistocene alluvial sediment. The upper 500 feet of this coarse, poorly-sorted sediment is derived mainly from the Sacramento-San Joaquin drainage system. The recent sediment load in this system has been greatly increased by hydraulic mining and farming. Bay mud, the youngest deposit in San Francisco Bay, is a soft, unconsolidated sediment generally consisting of 90 percent clay and silt-size detritus and is prevalent in the area (Ben M. Page, 1966).

The Main WWTP is situated on land reclaimed with hydraulic fill. The upper sub-aqueous silty clay is covered with hydraulic fill used in land reclamation that generally consisted of sandy material. The plant is approximately 10 feet above mean sea level.

The topography is relatively flat, although the surrounding area slopes gently to the west, toward San Francisco Bay. The general groundwater gradient direction is assumed to be to the west.

3.0 FIELD METHODS

The procedures and methods used during field activities are described in the following sections:

3.1 Drilling and Sampling

On March 2, 1994, eight exploratory borings were drilled at the site using a hand auger. The borings were drilled to depths ranging from 1.5 to 9.5 feet below grade. The depths at which samples were collected are presented in Table 1. To minimize the potential for cross-contamination, drilling equipment was decontaminated before and after each use.

During drilling, soil samples were collected beginning at grade and terminating at the total depth of the borings. The samples were collected using a soil core sampler lined with stainless steel tubes. A hammer attachment was used to drive the sampler into undisturbed soil. The sampler was washed using a phosphate-free detergent and rinsed with tap water before and after each use.

A stainless steel tube was removed from the soil sampler for chemical analysis. The sample was retained within the stainless steel tube, and both ends were immediately covered with Teflon sheeting and polyurethane caps. The caps were sealed with tape and labeled with the following information: Alisto Engineering project number, boring number, sample depth interval, sampler's initials, and date of collection. The sample was immediately placed in a cooler containing block ice. Possession of the samples was documented from the field to the EBMUD state-certified analytical laboratory using a chain of custody form.

Soil samples and, when appropriate, drill cuttings were described using the Unified Soils Classification System, and field estimates of soil type, color, moisture, density, consistency, and field readings using a photo-ionization detector were noted on the boring logs. The logs were reviewed by a registered geologist and are presented in Appendix A. Each borehole was backfilled with a neat cement grout to the surface after completion of sampling. A hydrogeologic cross section prepared using boring logs generated during this investigation is shown in Figure 3.

3.2 Qualitative Shallow Groundwater Survey

Soil Borings TW-3 and TW-4 were drilled to approximately 9.5 feet below grade. Groundwater was first encountered at approximately 7.5 feet below grade. A clean, 2-inch-diameter, Schedule 40, polyvinyl chloride (PVC) casing with 0.010-inch slots was inserted into Soil Borings TW-3 and TW-4 to approximately 2 feet below the first groundwater encountered (9.5 feet below grade). Before collecting a groundwater sample, the groundwater was monitored for separate-phase product or sheen.

The groundwater sample was collected using a disposable bailer, and carefully transferred into laboratory-supplied containers. Nitrile gloves were worn at all times during groundwater purging and sampling. The samples were labeled with boring number, site identification, date and time of collection, and sampler's initials, and transported in an iced cooler to the EBMUD state-certified laboratory following proper preservation and chain of custody protocol. After sample collection, the PVC casing was removed before backfilling the borehole to grade with neat cement. A photograph from the location of the field activities is presented in Appendix B.

4.0 ANALYTICAL METHODS

Soil and groundwater samples were analyzed by EBMUD analytical laboratory, Oakland, California, using standard test methods of the EPA and the California Department of Health Services. The official laboratory reports and chain of custody records are included in Appendix C. The following analytical methods were used to analyze the samples:

- Total petroleum hydrocarbons as gasoline (TPH-G) using EPA Methods 5030/8015
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Methods 5030/8020
- Total petroleum hydrocarbons as diesel (TPH-D) using EPA Methods 5030/8015

The results of the laboratory analysis are summarized in Tables 1 and 2.

5.0 DISCUSSION OF FINDINGS

The following are the findings of field activities performed during this preliminary soil and groundwater sampling investigation (See Figure 2 for boring locations):

- A sheen was observed on the water that accumulated in the base rock underlying the asphalt pavement before Soil Borings TW-1 and TW-2 were drilled.
- Soils beneath the site consisted of approximately 2 feet of base rock underlain by silty sand and sand to the total depth of the borings. Silty clay was encountered from approximately 6.5 to 8.5 feet below grade in Soil Borings TW-3 and TW-4.
- Groundwater was encountered at approximately 7.5 feet below grade during drilling.
- Analysis of the soil samples did not detect TPH-G above the reported detection limit of 1 part per million (ppm) except for 1.5 ppm TPH-G in Boring TW-1 at 1 foot below grade. Benzene was detected in soil samples collected from Borings TW-1 through TW-6 at concentrations ranging from 0.039 to 0.050 ppm. The laboratory detection limit for benzene in soil is 0.005 ppm.

- Analysis of soil samples collected from Borings TW-1 through TW-7 detected TPH-D at concentrations ranging from 3.7 to 360 ppm. The laboratory detection limit for TPH-D is 2.5 ppm. Only 2 samples had TPH-D concentrations greater than 50 ppm (TW-4-0 and TW-7-1).

- Analysis of the soil samples did not detect 1,2-dichlorobenzene, 1,3-dichlorobenzene, or 1,4-dichlorobenzene, above reported detection limits of 0.005 ppm.

- Chlorobenzene was detected above the reported detection limit of 0.005 in only one of the borings at a concentration of 0.012 ppm in Boring TW-1 at 1 foot below grade.

- Analysis of grab groundwater samples collected from TW-3 and TW-4 did not detect TPH-G; BTEX; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; or chlorobenzene above the reported detection limits of 0.2 parts per billion (ppb) for aromatic compounds and 40 ppb for TPH-G. However, TPH-D was detected in samples collected from TW-3 and TW-4 at concentrations of 220 and 200 ppb. The reported laboratory detection limit for TPH-D in groundwater was 40 ppb.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Total petroleum hydrocarbons, predominantly of the diesel range, were detected in the subsurface soil and groundwater near the aboveground diesel storage tank at the Main WWTP. At this time, further investigation or remediation is not recommended or warranted based on the following:

- Concentrations of petroleum hydrocarbons detected in the soil and groundwater do not appear to be an imminent threat to public health and the environment.

- The Main WWTP and the immediate surrounding properties have historically been or projected to continually be designated for industrial use.

- The shallow first groundwater at the site does not appear to be suitable or has not been designated as a primary drinking water source.

Maximum contaminant levels (MCLs) for drinking water or action levels for soil and groundwater remediation have not been established for TPH-D and TPH-G. Benzene, for which the primary MCL is 1 ppb, has typically been considered the key parameter in developing cleanup goals for groundwater impacted by petroleum hydrocarbons. For soil, local implementing agencies and RWQCB through their guidance document "The Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" have not required further action or groundwater investigation if total petroleum hydrocarbon concentration in the soil is less than 100 ppm.

During tank relocation and construction of the 115 kV substation, a limited amount of impacted soil should be excavated at least within the top 2 feet of the ground surface in the immediate vicinity of the aboveground diesel storage tank. Excavation should be conducted to the extent that residual concentration of TPH-D in the soil does not exceed 100 ppm based

on analysis of soil confirmation samples. Qualified personnel need to be onsite to observe the excavation and collect confirmation soil samples for analysis. Sample analysis would be limited to TPH-D as the chemical of concern. Based on the requirements of disposal facilities and results of this investigation, the excavated soil can be properly disposed of at an approved Class II or III designated facility.

REFERENCES

California State Department of Health Services, Office of Drinking Water, 1990, Summary of california Drinking Water Standards, October 24, 1990.

Page, Ben M., 1966. Geology of the Coastal Ranges of California. In Geology of Northern California. California Division of Mines and Geology, Bulletin 190, pp. 255-276.

California Regional Water Quality Control Board, Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, August 10, 1990.

TABLE 1 - SUMMARY OF RESULTS OF SOIL SAMPLING
EAST BAY MUNICIPAL UTILITY DISTRICT
MAIN WASTEWATER TREATMENT PLANT
OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-203

BORING ID	SAMPLE DEPTH (Feet)	DATE OF SAMPLING	TPH-G (ppm)	TPH-D (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	CHLORO-BENZENE (ppm)	1,2-DICHLORO-BENZENE (ppm)	1,3-DICHLORO-BENZENE (ppm)	1,4-DICHLORO-BENZENE (ppm)	LAB
TW-1	1.0	03/02/94	1.5	4.7	0.044	0.022	ND<0.005	0.020	0.012	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-1	2.5	03/02/94	ND<1.0	ND<2.5	0.040	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-1	5.0	03/02/94	ND<1.0	16.0	0.042	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-2	2.0	03/02/94	ND<1.0	4.4	0.044	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-2	5.0	03/02/94	ND<1.0	ND<2.5	0.042	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-3	0.0	03/02/94	ND<1.0	32.0	0.046	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-3	2.5	03/02/94	ND<1.0	5.9	0.040	ND<0.005	ND<0.005	0.016	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-3	5.0	03/02/94	ND<1.0	6.9	0.042	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-3	7.0	03/02/94	ND<1.0	26.0	0.039	ND<0.005	ND<0.005	0.016	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-4	0.0	03/02/94	ND<1.0	360.0	0.048	ND<0.005	0.023	0.064	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-4	2.5	03/02/94	ND<1.0	3.7	0.050	ND<0.005	ND<0.005	0.017	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-4	5.0	03/02/94	ND<1.0	ND<2.5	0.045	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-5	1.5	03/02/94	ND<1.0	11.0	0.042	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-6	1.5	03/02/94	ND<1.0	5.1	0.048	0.014	ND<0.005	0.019	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD
TW-7	1.0	03/02/94	ND<1.0	74.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	EBMUD

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ppm	Parts per million
ND	Not detected above reported detection limit
EBMUD	East Bay Municipal Utility District Main Wastewater Treatment Plant Laboratory

E:\010-203\SOIL.WQ1

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
EAST BAY MUNICIPAL UTILITY DISTRICT
MAIN WASTEWATER TREATMENT PLANT
OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-203

SAMPLE ID		DATE OF SAMPLING	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	CHLORO-BENZENE (ppb)	1,2-DICHLORO-BENZENE (ppb)	1,3-DICHLORO-BENZENE (ppb)	1,4-DICHLORO-BENZENE (ppb)	LAB
TW-3	(a)	03/02/94	ND<40	220	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	EBMUD
TW-4	(a)	03/02/94	ND<40	200	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	EBMUD
TP	(b)	03/02/94	ND<40	---	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	EBMUD
MCL			---	---	---	1	---	680	1750	---	---	---	5	---

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ppb	Parts per billion
ND	Not detected above reported detection limit
---	Not analyzed
EBMUD	East Bay Municipal Utility District Main Wastewater Treatment Plant Laboratory
MCL	Maximum Contaminant Level

NOTES:

(a) Groundwater samples are grab samples.

(b) Trip blank.

E:\0\10-203\GW.WQ1

SOURCE:
USGS MAP, OAKLAND WEST QUADRANGLE, CALIFORNIA, 7.5 MINUTE SERIES. 1959. PHOTOREVISED 1980.

N

0 1000' 2000'

FIGURE 1

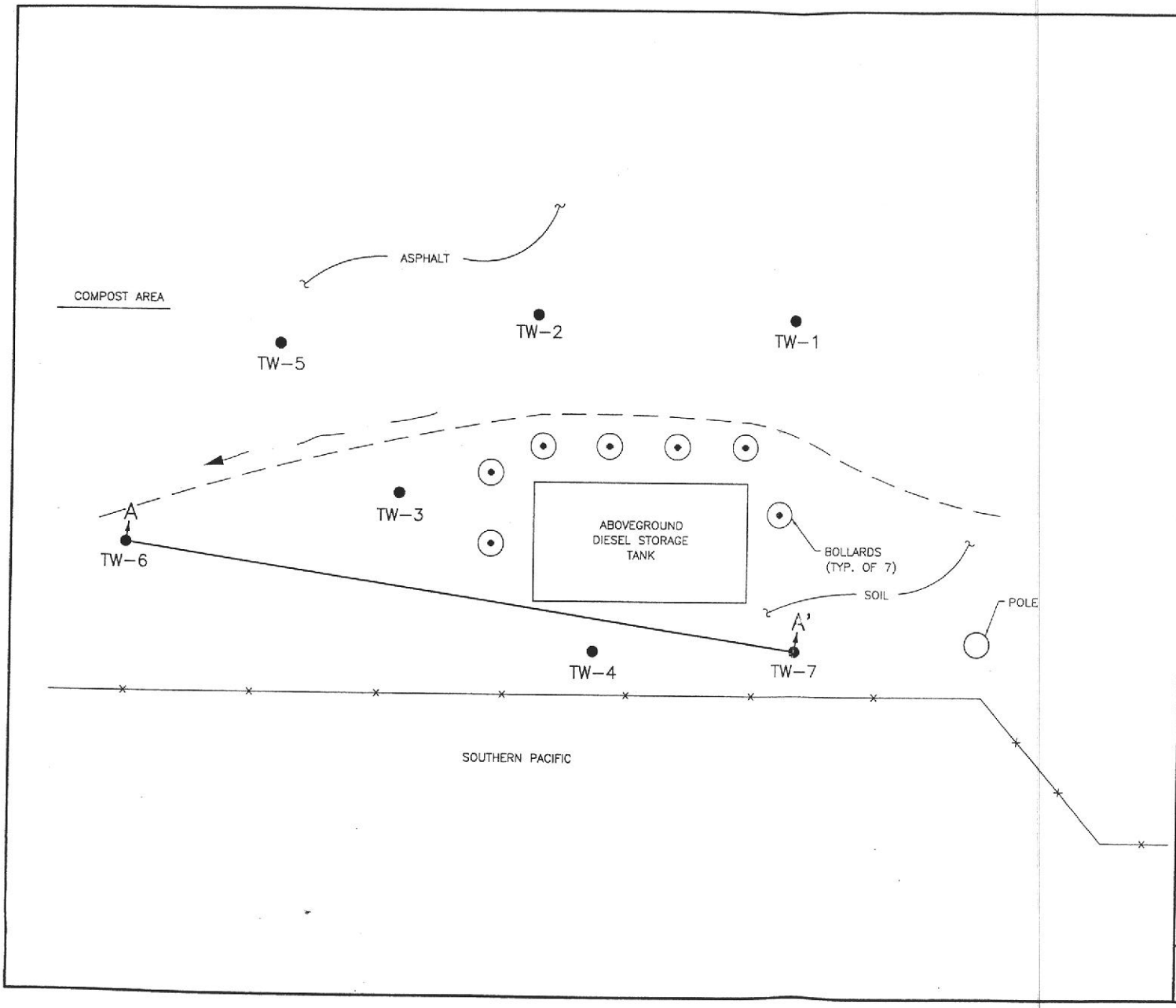
VICINITY MAP

EAST BAY MUNICIPAL UTILITY DISTRICT
MAIN WASTEWATER TREATMENT PLANT
OAKLAND, CALIFORNIA

PROJECT NO. 10-203

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10203--DWG 5-9-94 RKW 1-1



N

0 5 10

SCALE IN FEET

LEGEND

- SOIL BORING
- A–A' LINE OF HYDROGEOLOGIC CROSS SECTION

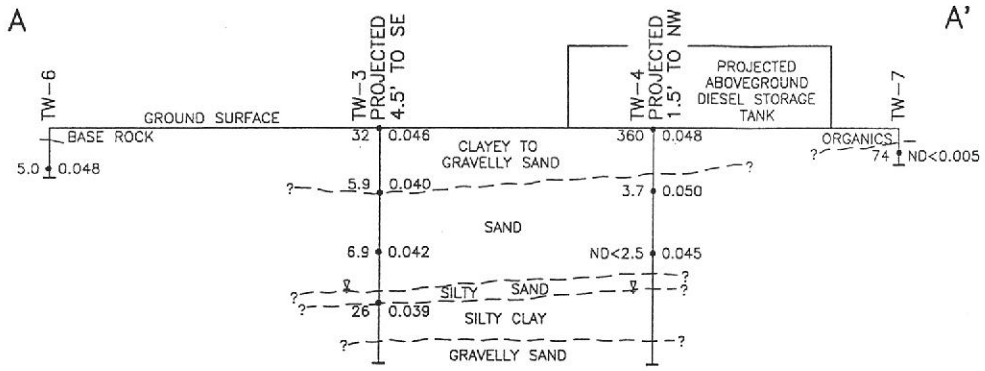
FIGURE 2

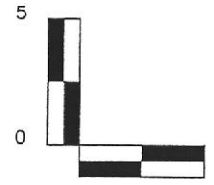
SITE PLAN

EAST BAY MUNICIPAL UTILITY DISTRICT
MAIN WASTEWATER TREATMENT PLANT
OAKLAND, CALIFORNIA

PROJECT NO. 10-203

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA





SCALE IN FEET

LEGEND

- SOIL BORING
- GEOLOGIC CONTACT
- 5.9 • SOIL SAMPLE AND TOTAL PETROLEUM HYDROCARBONS AS DIESEL CONCENTRATION IN PARTS PER MILLION
- • 0.040 SOIL SAMPLE AND BENZENE CONCENTRATION IN PARTS PER MILLION
- ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT
- GROUNDWATER ELEVATION DURING DRILLING

FIGURE 3

HYDROGEOLOGIC CROSS SECTIONS
A–A'

EAST BAY MUNICIPAL UTILITY DISTRICT
MAIN WASTEWATER TREATMENT PLANT
OAKLAND, CALIFORNIA

PROJECT NO. 10–203

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WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-1

SEE SITE PLAN

ALISTO PROJECT NO: 10-203-01 DATE DRILLED: 03/02/94
CLIENT: East Bay Municipal Utility District
LOCATION: Diesel Tank at Main WWTP, Oakland, California
DRILLING METHOD: Hand Auger (2.5")
DRILLING COMPANY: N/A CASING ELEVATION: N/A
LOGGED BY: Dan Salaices APPROVED BY: Dan Salaices

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Asphalt/concrete.
							Baserock: moist to wet with sheen.
N/A	9	Neat Cement	1	■		GC	clayey SAND/GRAVEL: dark gray, wet; fine- to medium-grained sand. Sample collected 1 – 1.5' (TW-1-1).
							Asphalt/concrete.
			2				Baserock.
						SP	SAND: tan, damp; medium-grained sand; minor fines.
			3	■			Sample collected 2.5 – 3' (TW-1-2.5).
			4				
			5	■			Same.
							Sample collected 5 – 5.5' (TW-1-5).
			6				Boring terminated at 5.5'.
			7				
			8				
			9				
			10				
			11				
			12				
			13				

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-2

SEE SITE PLAN

ALISTO PROJECT NO: *10-203-01* DATE DRILLED: *03/02/94*

CLIENT: *East Bay Municipal Utility District*

LOCATION: *Diesel Tank at Main WWTP, Oakland, California*

DRILLING METHOD: *Hand Auger (2.5")*

DRILLING COMPANY: *N/A* CASING ELEVATION: *N/A*

LOGGED BY: *Dan Salaices* APPROVED BY: *Dan Salaices*

BLOWS/6 IN.	PID VALUES	WELL DIAGRAN	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
N/A	22		1				Asphalt/concrete.
							Baserock: moist to wet with sheen.
							Asphalt/concrete.
							Baserock.
			2			SP	SAND: tan, damp to moist; medium-grained sand.
							Sample collected 2 - 2.5' (TW-2-2).
			3				
			4				
			5				Same.
							Sample collected 5 - 5.5' (TW-2-5).
			6				Boring terminated at 5.5'.
			7				
			8				
			9				
			10				
			11				
			12				
			13				

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-3

SEE SITE PLAN

ALISTO PROJECT NO: *10-203-01* DATE DRILLED: *03/02/94*

CLIENT: *East Bay Municipal Utility District*

LOCATION: *Diesel Tank at Main WWTP, Oakland, California*

DRILLING METHOD: *Hand Auger (2.5")*

DRILLING COMPANY: *N/A* CASING ELEVATION: *N/A*

LOGGED BY: *Ted Moise* APPROVED BY: *Dan Salaices*

BLOWS/6 IN.	PID VALUES	DEPTH feet	SOIL CLASS	GEOLOGIC DESCRIPTION
N/A	9	0–3	SC	clayey SAND: dark brown, damp; fine- to coarse-grained sand; minor rounded gravel to 1/2".
N/A	11	3–7	SP	SAND: tan, damp; medium-grained sand. Shell fragments @ 4.0' in cuttings.
N/A	9			Same: minor rounded gravel to 3/4".
N/A	10	7	SM	silty SAND: gray, very moist; very fine-grained sand; abundant silt.
		7–8	CL	silty CLAY: black, very moist to wet.
		8–9	SP	gravelly SAND: medium gray, wet; fine- to coarse-grained sand; fine gravel to approximately 20–40%.
		9.5		Boring terminated at 9.5'.

WELL DIAGRAM: Neat Cement; ▽

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-4

SEE SITE PLAN

ALISTO PROJECT NO: *10-203-01* DATE DRILLED: *03/02/94*

CLIENT: *East Bay Municipal Utility District*

LOCATION: *Diesel Tank at Main WWTP, Oakland, California*

DRILLING METHOD: *Hand Auger (2.5")*

DRILLING COMPANY: *N/A* CASING ELEVATION: *N/A*

LOGGED BY: *Dan Salaices* *APPROVED BY: Dan Salaices*

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
N/A	14	Neat Cement	0			SP	Sample collected 0 - 0.5' (TW-4-0). gravelly SAND (fill): dark brown, damp; fine- to coarse-grained sand; rounded gravel to 1/2".
			1				
			2			SP	SAND/gravelly SAND (fill): tan, moist; glass fragments and shells present.
N/A	14		3				Sample collected 2.5 - 3.0' (TW-4-2.5).
			4				
			5				Sample collected 5 - 5.5' (TW-4-5).
N/A	13		6			SM	silty SAND: gray, very moist; very fine-grained sand; silt % may equal sand.
			7			CL	silty CLAY: dark olive/gray, wet.
			8				
			9			SP	gravelly SAND: medium gray, wet; fine- to coarse-grained sand; fine gravel to approximately 20-40%.
			10				Boring terminated at 9.5'.
			11				
			12				
			13				

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-5

SEE SITE PLAN

ALISTO PROJECT NO: *10-203-01* DATE DRILLED: *03/02/94*

CLIENT: *East Bay Municipal Utility District*

LOCATION: *Diesel Tank at Main WWTP, Oakland, California*

DRILLING METHOD: *Hand Auger (2.5")*

DRILLING COMPANY: *N/A* CASING ELEVATION: *N/A*

LOGGED BY: *Dan Salaices* APPROVED BY: *Dan Salaices*

BLOWS/6 IN.	PID VALUES	WELL DIAGRAN	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Asphalt/concrete.
							Baserock with sand, gravel, and fines.
N/A	13	*Neat Cement*	1	■		SP	SAND: tan, damp to moist; medium-grained sand; minor fines. Sample collected 1.5 – 2.0' (TW-5-1.5).
			2				Boring terminated at 2.0'.
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-6

SEE SITE PLAN

ALISTO PROJECT NO: *10-203-01* DATE DRILLED: *03/02/94*

CLIENT: *East Bay Municipal Utility District*

LOCATION: *Diesel Tank at Main WWTP, Oakland, California*

DRILLING METHOD: *Hand Auger (2.5")*

DRILLING COMPANY: *N/A* CASING ELEVATION: *N/A*

LOGGED BY: *Dan Salaices* APPROVED BY: *Dan Salaices*

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
		Neat Cement					Baserock.
			1			GC	clayey/sandy GRAVEL (fill): dark brown, moist; sand to approximately 40%; gravel to 1-4" to 50%.
			2				Sample collected 1.5-2.0' (TW-6-1.5).
							Boring terminated at 2.0'.
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING TW-7

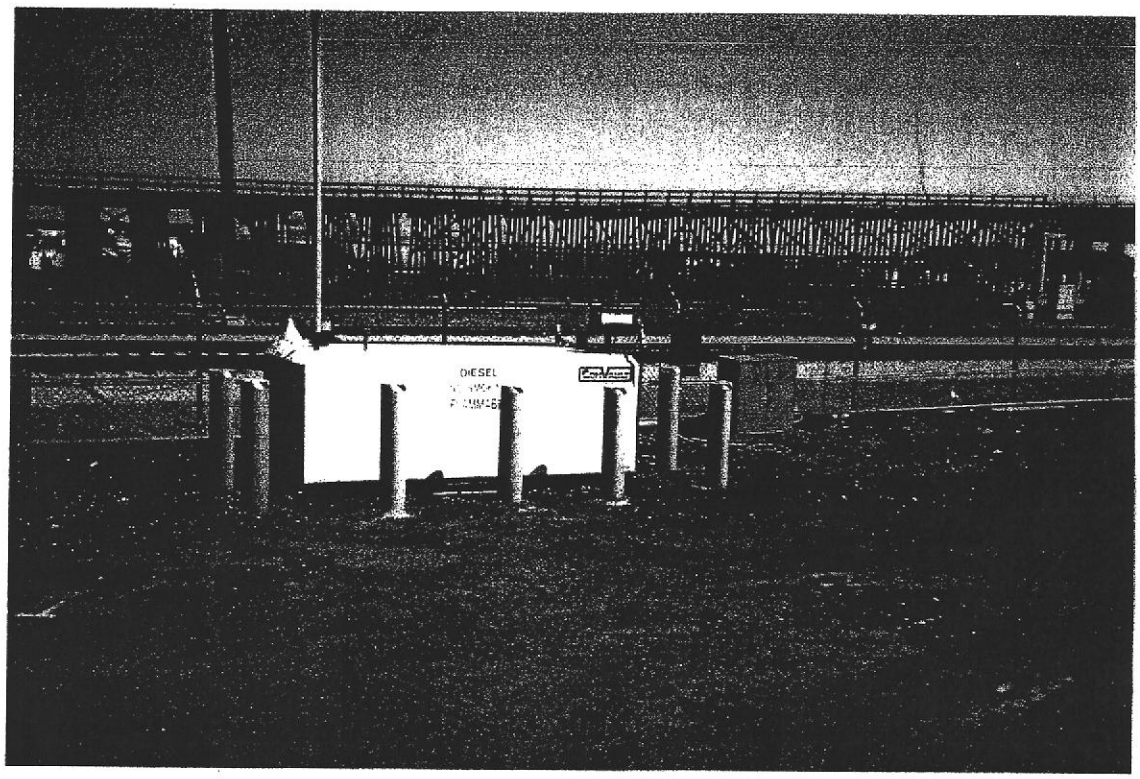
SEE SITE PLAN

ALISTO PROJECT NO: 10-203-01 DATE DRILLED: 03/02/94
CLIENT: East Bay Municipal Utility District
LOCATION: Diesel Tank at Main WWTP, Oakland, California
DRILLING METHOD: Hand Auger (2.5")
DRILLING COMPANY: N/A CASING ELEVATION: N/A
LOGGED BY: Dan Salaices APPROVED BY: Dan Salaices

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
		Neat Cement	1	■		SP	Organic matter. SAND: moderate yellow/brown, moist; fine- to medium-grained sand; gravel from 5-15%. Sample collected 1.0-1.5' (TW-7-1).
			2				Boring terminated at 1.5'.
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				

APPENDIX B

PHOTOGRAPH OF ACTIVITIES LOCATION



SOUTHEASTERN VIEW OF ABOVE GROUND DIESEL TANK AT EAST BAY MUNICIPAL UTILITY DISTRICT MAIN WWTP. SAMPLING LOCATIONS TW-1 AND TW-2 ARE IN FOREGROUND. SOUTHERN PACIFIC RAILROAD PROPERTY IN BACKGROUND.

APPENDIX C

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS

FIELD PROCEDURES
FOR
CHAIN OF CUSTODY DOCUMENTATION

Samples collected were properly handled in accordance with the California Department of Health Services guidelines. Each sample was properly labeled in the field, and immediately stored in coolers and preserved with blue ice for transport to the EBMUD state-certified laboratory for analysis.

The official chain of custody record accompanied the samples, and included the site and sample identification, date and time of sample collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

EAST BAY
MUNICIPAL UTILITY DISTRICT

MICHAEL J. WALLIS
DIRECTOR OF WASTEWATER

Analytical Report
ELAP Certificate #1060
March 28, 1994

Compost Site Assessment
Support Services/Karl Yakich MS702

940302139	**MISC Non-routine Sampling Location G 0903 SOIL TW-1-1**				
940302139	**+602**	**BTEX**		**1.000000**	**DLF***
940302139	VO03	BENZENE		0.044000	mg/KgW
940302139	VO08	CHLOROBENZENE	~**	0.012000	mg/KgW
940302139	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302139	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302139	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302139	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302139	VO28	TOLUENE		0.022000	mg/KgW
940302139	VO47	XYLENES	~**	0.020000	mg/KgW
940302139	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF***
940302139	DIES	DIESEL		4.700000	mg/KgW
940302139	GAS	GASOLINE		1.500000	mg/KgW
940302140	**MISC Non-routine Sampling Location G 1325 SOIL TW-1-2.5**				
940302140	**+602**	**BTEX**		**1.000000**	**DLF***
940302140	VO03	BENZENE		0.040000	mg/KgW
940302140	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302140	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302140	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302140	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302140	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302140	VO28	TOLUENE	<	0.005000	mg/KgW
940302140	VO47	XYLENES	<	0.005000	mg/KgW
940302140	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF***
940302140	DIES	DIESEL	<	2.500000	mg/KgW
940302140	GAS	GASOLINE	<	1.000000	mg/KgW
940302141	**MISC Non-routine Sampling Location G 1417 SOIL TW-1-5**				
940302141	+602	BTEX		1.000000	DLF*
940302141	VO03	BENZENE		0.042000	mg/KgW
940302141	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302141	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302141	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302141	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302141	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302141	VO28	TOLUENE	<	0.005000	mg/KgW
940302141	VO47	XYLENES	<	0.005000	mg/KgW

P.O. BOX 24055 . OAKLAND . CA 94623-1055 . (510) 287-1405
BOARD OF DIRECTORS KATHERINE McKENNEY . STUART FLASHMAN . ANDREW COHEN
JOHN A. COLEMAN . JOHN M. GIOIA . NANCY J. NADEL . KENNETH H. SIMMONS

* Detection limit factor (dilution factor)
** Estimated

940302141	**+8015 TOTAL PETROLEUM HYDROCARBONS**			**1.000000**	**DLF***
940302141	DIES	DIESEL		16.000000	mg/KgW
940302141	GAS	GASOLINE	<	1.000000	mg/KgW
940302142	**MISC Non-routine Sampling Location G 1338 SOIL**			**TW-2-2**	
940302142	**+602**	**BTEX**		**1.000000**	**DLF***
940302142	VO03	BENZENE		0.044000	mg/KgW
940302142	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302142	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302142	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302142	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302142	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302142	VO28	TOLUENE	<	0.005000	mg/KgW
940302142	VO47	XYLENES	<	0.005000	mg/KgW
940302142	**+8015 TOTAL PETROLEUM HYDROCARBONS**			**1.000000**	**DLF***
940302142	DIES	DIESEL		4.400000	mg/KgW
940302142	GAS	GASOLINE	<	1.000000	mg/KgW
940302143	**MISC Non-routine Sampling Location G 1400 SOIL**			**TW-2-5**	
940302143	**+602**	**BTEX**		**1.000000**	**DLF***
940302143	VO03	BENZENE		0.042000	mg/KgW
940302143	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302143	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302143	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302143	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302143	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302143	VO28	TOLUENE	<	0.005000	mg/KgW
940302143	VO47	XYLENES	<	0.005000	mg/KgW
940302143	**+8015 TOTAL PETROLEUM HYDROCARBONS**			**1.000000**	**DLF***
940302143	DIES	DIESEL	<	2.500000	mg/KgW
940302143	GAS	GASOLINE	<	1.000000	mg/KgW
940302144	**MISC Non-routine Sampling Location G 0924 SOIL**			**TW-3-0**	
940302144	**+602**	**BTEX**		**1.000000**	**DLF***
940302144	VO03	BENZENE	~**	0.046000	mg/KgW
940302144	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302144	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302144	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302144	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW

* Detection limit factor (dilution factor)
** Estimated

940302144	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302144	VO28	TOLUENE	<	0.005000	mg/KgW
940302144	VO47	XYLENES	<	0.005000	mg/KgW
940302144	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF ***
940302144	DIES	DIESEL		32.000000	mg/KgW
940302144	GAS	GASOLINE	<	1.000000	mg/KgW
940302145	**MISC**	**Non-routine Sampling Location G 0946 SOIL**		**TW-3-2.5**	
940302145	**+602**	**BTEX**		**1.000000**	**DLF ***
940302145	VO03	BENZENE		0.040000	mg/KgW
940302145	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302145	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302145	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302145	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302145	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302145	VO28	TOLUENE	<	0.005000	mg/KgW
940302145	VO47	XYLENES	****	0.016000	mg/KgW
940302145	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF ***
940302145	DIES	DIESEL		5.900000	mg/KgW
940302145	GAS	GASOLINE	<	1.000000	mg/KgW
940302146	**MISC**	**Non-routine Sampling Location G 1009 SOIL**		**TW-3-5**	
940302146	**+602**	**BTEX**		**1.000000**	**DLF ***
940302146	VO03	BENZENE		0.042000	mg/KgW
940302146	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302146	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302146	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302146	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302146	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302146	VO28	TOLUENE	<	0.005000	mg/KgW
940302146	VO47	XYLENES	<	0.005000	mg/KgW
940302146	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF ***
940302146	DIES	DIESEL		6.900000	mg/KgW
940302146	GAS	GASOLINE	<	1.000000	mg/KgW
940302147	**MISC**	**Non-routine Sampling Location G 1021 SOIL**		**TW-3-7**	
940302147	**+602**	**BTEX**		**1.000000**	**DLF ***
940302147	VO03	BENZENE		0.039000	mg/KgW
940302147	VO08	CHLOROBENZENE	<	0.005000	mg/KgW

* Detection limit factor (dilution factor)
** Estimated

940302147	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302147	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302147	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302147	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302147	VO28	TOLUENE	<	0.005000	mg/KgW
940302147	VO47	XYLENES	~ **	0.016000	mg/KgW
940302147	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF ***
940302147	DIES	DIESEL		26.000000	mg/KgW
940302147	GAS	GASOLINE	<	1.000000	mg/KgW
940302148	**MISC**	**Non-routine Sampling Location G 0931 SOIL**		**TW-4-0**	
940302148	**+602**	**BTEX**		**1.000000**	**DLF ***
940302148	VO03	BENZENE	~ **	0.048000	mg/KgW
940302148	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302148	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302148	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302148	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302148	VO24	ETHYL BENZENE	~ **	0.023000	mg/KgW
940302148	VO28	TOLUENE	<	0.005000	mg/KgW
940302148	VO47	XYLENES	~ **	0.064000	mg/KgW
940302148	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF ***
940302148	DIES	DIESEL		360.000000	mg/KgW
940302148	GAS	GASOLINE	<	1.000000	mg/KgW
940302149	**MISC**	**Non-routine Sampling Location G 1050 SOIL**		**TW-4-2.5**	
940302149	**+602**	**BTEX**		**1.000000**	**DLF ***
940302149	VO03	BENZENE		0.050000	mg/KgW
940302149	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302149	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302149	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302149	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302149	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302149	VO28	TOLUENE	<	0.005000	mg/KgW
940302149	VO47	XYLENES	~ **	0.017000	mg/KgW
940302149	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF ***
940302149	DIES	DIESEL		3.700000	mg/KgW
940302149	GAS	GASOLINE	<	1.000000	mg/KgW

* Detection limit factor (dilution factor)
** Estimated

940302150	**MISC Non-routine Sampling Location G 1120 SOIL**			**TW-4-5**	
940302150	**+602**	**BTEX**		**1.000000**	**DLF***
940302150	VO03	BENZENE		0.045000	mg/KgW
940302150	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302150	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302150	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302150	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302150	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302150	VO28	TOLUENE	<	0.005000	mg/KgW
940302150	VO47	XYLENES	<	0.005000	mg/KgW
940302150	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF***
940302150	DIES	DIESEL	<	2.500000	mg/KgW
940302150	GAS	GASOLINE	<	1.000000	mg/KgW
940302151	**MISC Non-routine Sampling Location G 1430 SOIL**			**TW-5-1.5**	
940302151	**+602**	**BTEX**		**1.000000**	**DLF***
940302151	VO03	BENZENE		0.042000	mg/KgW
940302151	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302151	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302151	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302151	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302151	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302151	VO28	TOLUENE	<	0.005000	mg/KgW
940302151	VO47	XYLENES	<	0.005000	mg/KgW
940302151	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF***
940302151	DIES	DIESEL		11.000000	mg/KgW
940302151	GAS	GASOLINE	<	1.000000	mg/KgW
940302152	**MISC Non-routine Sampling Location G 1500 SOIL**			**TW-6-1.5**	
940302152	**+602**	**BTEX**		**1.000000**	**DLF***
940302152	VO03	BENZENE		0.048000	mg/KgW
940302152	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302152	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302152	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302152	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302152	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302152	VO28	TOLUENE	~**	0.014000	mg/KgW
940302152	VO47	XYLENES	~**	0.019000	mg/KgW

* Detection limit factor (dilution factor)
** Estimated

940302152	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF***
940302152	DIES	DIESEL		5.100000	mg/KgW
940302152	GAS	GASOLINE	<	1.000000	mg/KgW
940302153	**MISC**	**Non-routine Sampling Location G 1510 SOIL TW-7-1**			
940302153	**+602**	**BTEX**		**1.000000**	**DLF***
940302153	VO03	BENZENE	<	0.005000	mg/KgW
940302153	VO08	CHLOROBENZENE	<	0.005000	mg/KgW
940302153	VO14	1,2-DICHLOROBENZENE	<	0.005000	mg/KgW
940302153	VO15	1,3-DICHLOROBENZENE	<	0.005000	mg/KgW
940302153	VO16	1,4-DICHLOROBENZENE	<	0.005000	mg/KgW
940302153	VO24	ETHYL BENZENE	<	0.005000	mg/KgW
940302153	VO28	TOLUENE	<	0.005000	mg/KgW
940302153	VO47	XYLENES	<	0.005000	mg/KgW
940302153	**+8015**	**TOTAL PETROLEUM HYDROCARBONS**		**1.000000**	**DLF***
940302153	DIES	DIESEL		74.000000	mg/KgW
940302153	GAS	GASOLINE	<	1.000000	mg/KgW
940302154	**MISC**	**Non-routine Sampling Location G 1449 WATER TW-4**			
940302154	**+602**	**EPA 602 - PURGEABLE AROMATICS**		**1.000000**	**DLF***
940302154	VO03	BENZENE	<	0.200000	ug/L
940302154	VO08	CHLOROBENZENE	<	0.200000	ug/L
940302154	VO14	1,2-DICHLOROBENZENE	<	0.200000	ug/L
940302154	VO15	1,3-DICHLOROBENZENE	<	0.200000	ug/L
940302154	VO16	1,4-DICHLOROBENZENE	<	0.200000	ug/L
940302154	VO24	ETHYLBENZENE	<	0.200000	ug/L
940302154	VO28	TOLUENE	<	0.200000	ug/L
940302154	VO47	XYLENES	<	0.200000	ug/L
940302154	**+8015**	**TOTAL HYDROCARBONS**		**1.000000**	**DLF***
940302154	DIES	DIESEL		200.000000	ug/L
940302154	GAS	GASOLINE	<	40.000000	ug/L
940302155	**MISC**	**Non-routine Sampling Location G 1353 WATER TW-3**			
940302155	**+602**	**EPA 602 - PURGEABLE AROMATICS**		**1.000000**	**DLF***
940302155	VO03	BENZENE	<	0.200000	ug/L
940302155	VO08	CHLOROBENZENE	<	0.200000	ug/L
940302155	VO14	1,2-DICHLOROBENZENE	<	0.200000	ug/L
940302155	VO15	1,3-DICHLOROBENZENE	<	0.200000	ug/L
940302155	VO16	1,4-DICHLOROBENZENE	<	0.200000	ug/L

* Detection limit factor (dilution factor)
** Estimated

940302155	VO24	ETHYLBENZENE	<	0.200000	ug/L
940302155	VO28	TOLUENE	<	0.200000	ug/L
940302155	VO47	XYLENES	<	0.200000	ug/L
940302155	**+8015**	**TOTAL HYDROCARBONS**		**1.000000**	**DLF ***
940302155	DIES	DIESEL		220.000000	ug/L
940302155	GAS	GASOLINE	<	40.000000	ug/L
940302157	**TRIPQC**	**Trip Blank G 0000**			
940302157	+602	EPA 602 - PURGEABLE AROMATICS		1.000000	DLF *
940302157	VO03	BENZENE	<	0.200000	ug/L
940302157	VO08	CHLOROBENZENE	<	0.200000	ug/L
940302157	VO14	1,2-DICHLOROBENZENE	<	0.200000	ug/L
940302157	VO15	1,3-DICHLOROBENZENE	<	0.200000	ug/L
940302157	VO16	1,4-DICHLOROBENZENE	<	0.200000	ug/L
940302157	VO24	ETHYLBENZENE	<	0.200000	ug/L
940302157	VO28	TOLUENE	<	0.200000	ug/L
940302157	VO47	XYLENES	<	0.200000	ug/L
940302157	+8015	TOTAL HYDROCARBONS		1.000000	DLF *
940302157	GAS	GASOLINE	<	40.000000	ug/L

Reported by: Date:

3/28/94
William M. Bilgas
Manager Laboratory Services Division

Attachment: Copy of the Chain-of-Custody

FR:fr

* Detection limit factor (dilution factor)
** Estimated

NGPD

Send Results to Karl Yakich

375 Eleventh st, Oakland, CA 94607-4240

ALISTO ENGINEERING GROUP

CHAIN OF CUSTODY

Consultant's Name: Alisto Engineering Group

Page 1 of 2

Address: 1777 Oakland Blvd. Suite 200 Walnut Creek CA 94596

Project Contact: Dan Salaices

Consultant Project #: 10-203-01

Phone #: 510-295-1650 Fax #:

Sampled by (print): Dan Salaices/Ted Moise

Sampler's Signature: Dan Salaices

Shipment Method:

Site Location #:

Site Location: EBMUD Wastewater Treatment plant

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ Standard (10 day)

ANALYSIS REQUIRED (602 + 8015 for WQMS)

Sample Condition as Received: Temperature °C: ______ Cooler #: ______ Inbound Seal Yes No Outbound Seal Yes No

Sample Description	Collection Date/Time 3-2-94	Matrix Soil/Water	Prsv	# of Cont	~~PACE~~ Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	Oil & Grease SM 5520	HVOC 8010							UMS 8020 / Use #Fuel Scan			COMMENTS
TW-1-1	9:03a	Soil		1		X	X									L 380	1		940302-139
TW-1-2.5	1:25p	↓		1		↓	↓										2		140
TW-1-5	2:17p			1													3		141
TW-2-2	1:38p			1													4		142
TW-2-5	2:00p			1													5		143
TW-3-0	9:24a			1													6		144
TW-3-2.5	9:46a			1													7		145
TW-3-5	10:09a			1													8		146
TW-3-7	10:21a			1													9		147
TW-4-0	9:31a			1													10		148
TW-4-2.5	10:50			1													11		149
TW-4-5	11:20	↓				↓	↓										12		150

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Dan Salaices/Alisto	3-2-94	3:45p			
J Knyz KNIPE	3-2-94	1545	→		

Additional Comments:

SEND

Send Results to:
Karl Yakich

ALISTO ENGINEERING GROUP
CHAIN OF CUSTODY

copy

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Consultant's Name: Alisto Engineering Group
Address: 1777 Oakland Blvd Suite 200, Walnut Creek, CA 94596
Project Contact: Dan Salaices | Consultant Project #: 10-203-01 | Phone #: 510-295-1659 Fax #:
Sampled by (print): Dan Salaices, Ted Moise | Sampler's Signature: Daniel Salaices
Shipment Method: | Site Location #: | Site Location: EBMUD Wastewater Treatment Plant
TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ Standard (10 day)

ANALYSIS REQUIRED

Sample Condition as Received
Temperature ° C: ____
Cooler #: ____
Inbound Seal Yes No
Outbound Seal Yes No

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	~~PACE~~ Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	Oil & Grease SM 5520	HVOC 8010								COMMENTS
TW-5-1.5	2:30p	Soil		1		X	X								61380-13		940302-151
TW-6-1.5	3:00p	↓		1		X	X								14		152
TW-7-1	3:10p	↓		1		X	X								15		153
TW-4	2:49p	Water		3		X									16		VOAs 1 liter } 154
TW-4	2:40	↓		1			X								↓		
TW-3	1:53	↓		3		X									17		VOAs 1 liter } 155
TW-3	1:53	↓		1			X								↓		
JK TRIPQC				1			8020								18		~~156~~ 157

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Dan Salaices/Alisto	3-2-94	3:45p			
JK KNIPE	3-2-94	1545	→		

Additional Comments:

(OVER)