LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

95 JAN 12 PM 2:49

January 9, 1995 LF 1649.36

Ms. Susan Hugo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502

Subject: Results of the Excavation of Soil Along the Southern Portion of Area C at the East Baybridge Center Project, Emeryville and Oakland, California

Dear Ms. Hugo:

Enclosed are the analytical results of confirmation soil samples collected after excavation of petroleum hydrocarbon-affected soil along the southern portion of Area C at the East Baybridge Center Project in Emeryville and Oakland, California ("the Site"; Figure 1). In response to a request from Catellus Development Corporation ("Catellus"), excavation was conducted on September 9, and October 24 and 25, 1994.

Background

An oil-like substance was observed in soil in the Yerba Buena Street right-of-way during grading activities in early August 1994. Railroad ties were also present in this area. To further evaluate the substance, seven test pits were excavated at the locations illustrated on Figure 2. Details regarding the results of these test pits were presented in a letter to the Alameda County Health Care Services Agency (ACHA) dated August 17, 1994. Results of soil samples collected from these test pits indicated additional soil excavation was warranted at one location, as illustrated on Figure 2.

Excavation

To address the oil-affected soil in the vicinity of the test pits, approximately 300 cubic yards of soil containing concentrations of total oil and grease in excess of 1,000 parts per million (ppm) and total petroleum hydrocarbons as diesel (TPHd) in excess of 100 ppm were excavated in this area of the Site on September 9, and October 24, 1994. On October 25, 1994, the excavated soil was transported to the REMCO facility in Richmond, California, for thermal treatment and recycling for use as structural backfill material.

1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500
Fax (510) 652-2246

Other offices in Irvine, CA; Sacramento/Roseville, CA; Tallahassee, FL; Honolulu, HI

Excavation on September 9, 1994

Approximately 125 cubic yards of affected soil was excavated from the Site on September 9, 1994. The dimensions of the excavation were approximately 11 feet in the north/south direction by 21 feet in the east/west direction by 9 feet deep.

Confirmation samples were collected from the sidewalls and base of this excavation. Those samples were analyzed by American Environmental Network for TPHd using EPA Method 3550 and total oil and grease (TOG) using EPA Method 5520CEF. Analytical results of these samples are summarized in Table 1 and laboratory reports are included as an attachment to this letter.

Results of these samples indicated additional excavation was warranted in this area. As presented in Table 1, TPHd and TOG were present above the site cleanup levels of 100 parts per million (ppm) and 1,000 ppm, respectively at the northern, southern, and eastern portions and at the base of this excavation. Concentrations in the sample collected from the western side of the excavation were below site cleanup criteria. The area of the excavation was limited by the presence of a telephone pole to the east, a fiber optic line and storm drain to the north, and the property boundary to the south.

Excavation on October 24, 1994

Following the completion of some construction activities at the Site and the relocation of the telephone pole, approximately 175 cubic yards of additional soil was excavated on October 24, and 25, 1994. The dimensions of this excavation were approximately 7 feet in the north/south direction by 53 feet in the east/west direction by 9 feet deep. This excavation was also limited by the fiber optic line and storm drain to the north and the property boundary to the south.

One soil sample was collected from the base of the excavation for every 20 linear feet (a total of 3 soil samples). The samples were analyzed for TPHd and TOG. Results of those samples indicated that soil containing chemical concentrations in excess of the site cleanup levels for TPHd (100 ppm) and oil (1,000 ppm) had been removed. Table 1 summarizes the analytical results for soil samples, and laboratory certificates are attached to this letter.

On the basis of the sampling results and the location of the property line and underground utilities, no further excavation work is planned in this area of the Site. If you have any questions please call me or Jenifer Beatty.

Sincerely,

Ron Goloubow
Senior Project Geologist

Enclosures (laboratory reports)

cc: Mr. Sumadhu Arigala, RWQCB

Table 1
Soil-Quality Results
Confirmation Samples from the Excavation at the
Yerba Buena Street Right-of-Way
East Baybridge Center, Emeryville, California
(results in parts per million)

Sample Identification	Sample Depth (feet)	TPHd (1)	TRPH (2)	TPHo (3)
Samples from Excavation of September 9, 1994				
Sidewall north	9	530	1,700	not analyzed
Sidewall south	8	400	2,100	not analyzed
Sidewall west	9	<1	<10	not analyzed
Sidewall east	9	510	2,000	not analyzed
Base east	9	430	1,700	not analyzed
Base west	9	460	1,700	not analyzed
Samples from Excavation of October 24, 1994				
Base 15' east	9	4	60	20
Base 35' east	9	1	80	30
Base 55' east	9	<1	<10	<5

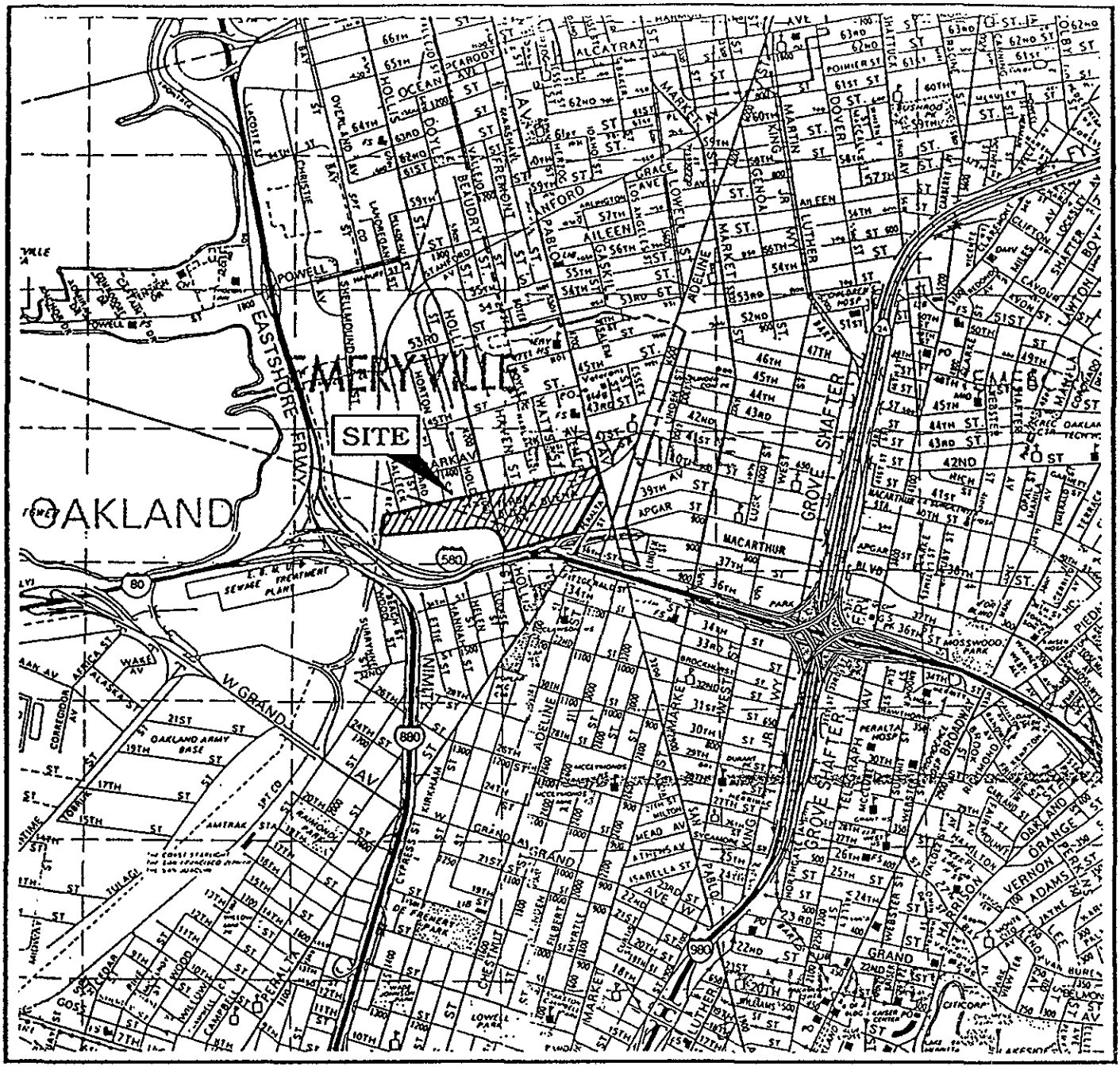
Data entered by REG/15-Dec-94. Data proofed by ____/QA/QC by ____

Notes:

(1) TPHd denotes total petroleum hydrocarbons as diesel, analyzed using EPA Method 3550 GC-FID.

(2) TRPH denotes total recoverable petroleum hydrocarbons, analyzed using EPA Method 5520CEF.

(3) TPHo denotes total petroleum hydrocarbons as oil, analyzed using EPA Method 3550 GC-FID.



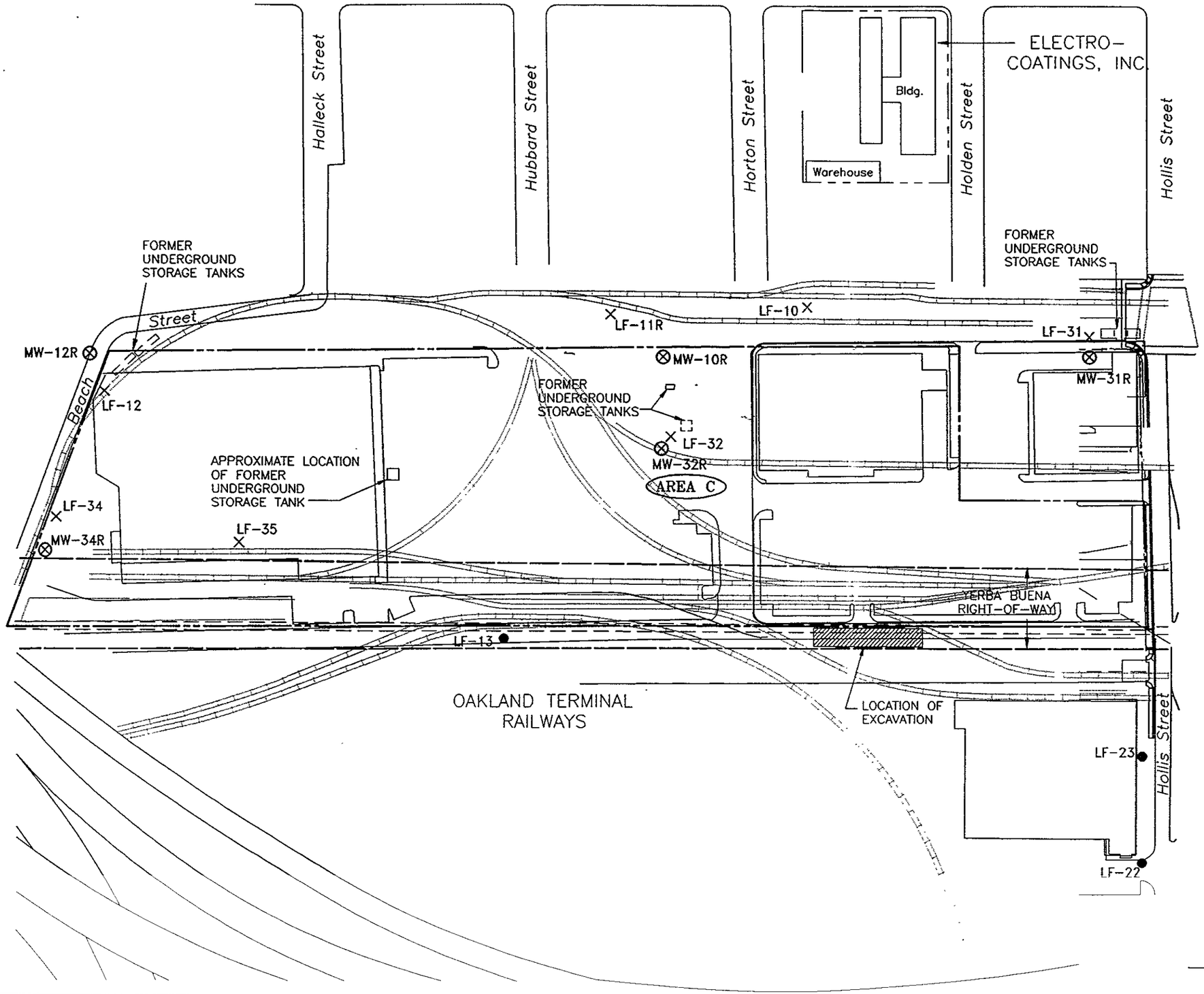
MAP SOURCE:
Alameda & Contra Costa Counties,
Thomas Bros. map, 1990 Edition

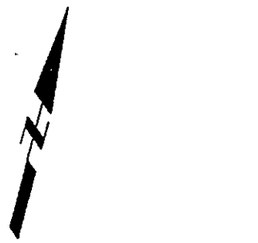
Figure 1 : SITE LOCATION MAP
YERBA BUENA PROJECT SITE

Project No. 1649

LEVINE • FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

1649ALS-SITEBK1-nyz





EXPLANATION

- ⊙ MONITORING WELL LOCATION
- ⊗ PROPOSED MONITORING WELL LOCATION
- × ABANDONED GROUND WATER MONITORING WELL
- APPROXIMATE PROPERTY LINE

REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE :
DESIGN
DRAWN .
CHECKED .

LEVINE•FRICKE
CHEMISTS, HYDROGEOLOGISTS & APPLIED SCIENTISTS
Emeryville, California

CATELLUS
DEVELOPMENT
CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure 2
SITE PLAN SHOWING LOCATIONS OF
GROUND–WATER MONITORING WELLS,
UNDERGROUND STORAGE TANKS, AND
EXCAVATION IN THE YERBA BUENA RIGHT–OF–WAY

Project No. 1649
Date DEC. 94
Sheet of

Drawing Code: C:\ACAD12\1649\STEP4.20 Emc, GM

LABORATORY CERTIFICATES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: RON GOLOUBOW
CLIENT PROJ. ID: 1649.36
CLIENT PROJ. NAME: EASTBAY BRIDGE
C.O.C. NUMBER: 013033

REPORT DATE: 11/06/94
DATE(S) SAMPLED: 10/25/94
DATE RECEIVED: 10/25/94
AEN WORK ORDER: 9410308

PROJECT SUMMARY:

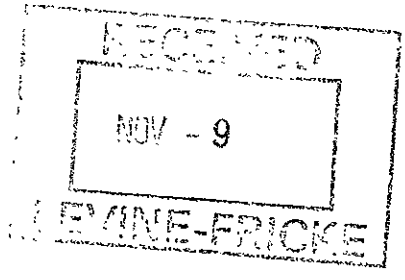
On October 25, 1994, this laboratory received 3 soil sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director



LEVINE-FRICKE

SAMPLE ID: 15' EAST
AEN LAB NO: 9410308-01
AEN WORK ORDER: 9410308
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 10/25/94
DATE RECEIVED: 10/25/94
REPORT DATE: 11/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	10/30/94
TPH as Diesel	GC-FID	4 *	1	mg/kg	11/03/94
TPH as Oil	GC-FID	20 *	5	mg/kg	11/03/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	11/01/94
Hydrocarbons (IR)	SM 5520CEF	60 *	10	mg/kg	11/02/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: 35' EAST
AEN LAB NO: 9410308-02
AEN WORK ORDER: 9410308
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 10/25/94
DATE RECEIVED: 10/25/94
REPORT DATE: 11/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	10/30/94
TPH as Diesel	GC-FID	1 *	1	mg/kg	11/03/94
TPH as Oil	GC-FID	30 *	5	mg/kg	11/03/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	11/01/94
Hydrocarbons (IR)	SM 5520CEF	80 *	10	mg/kg	11/02/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: 55' EAST
AEN LAB NO: 9410308-03
AEN WORK ORDER: 9410308
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 10/25/94
DATE RECEIVED: 10/25/94
REPORT DATE: 11/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	10/30/94
TPH as Diesel	GC-FID	ND	1	mg/kg	11/03/94
TPH as Oil	GC-FID	ND	5	mg/kg	11/03/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	11/01/94
Hydrocarbons (IR)	SM 5520CEF	ND	10	mg/kg	11/02/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9410308

CLIENT PROJECT ID: 1649.36

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9410308
AEN LAB NO: 1030-BLANK
DATE EXTRACTED: 10/30/94
DATE ANALYZED: 11/02/94

Method Blank

	Result (mg/kg)	Reporting Limit (mg/kg)
Diesel	ND	1

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9410308
DATE EXTRACTED: 10/30/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
11/03/94	15' EAST	01	62
11/03/94	35' EAST	02	57
11/03/94	55' EAST	03	47
QC Limits:			45-120

DATE EXTRACTED: 10/30/94
DATE ANALYZED: 11/02/94
SAMPLE SPIKED: 9410291-07
INSTRUMENT: C

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	34	90	8	44-108	13

QUALITY CONTROL DATA

METHOD: SM 5520

AEN JOB NO: 9410308
DATE EXTRACTED: 11/01/94
DATE ANALYZED: 11/02/94
SAMPLE SPIKED: LCS
INSTRUMENT: IR
MATRIX: SOIL

Laboratory Control Sample

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits Percent Recovery
Oil	246	96	83-107

Method Blank Result

Lab Id.	Hydrocarbons (mg/kg)
110194-BLANK	ND
Reporting Limit	10

*** END OF REPORT ***

R-7,5-C

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

940308

Project No.: 1649.36	Field Logbook No.:	Date: 10/25/94	Serial No.: № 013033
Project Name: EASTBAY bridge	Project Location: Emeryville		
Sampler (Signature):			Samplers: Ron Goloubow

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	TPH-D	TPH-G	TOG		HOLD	RUSH	REMARKS
15'EAST	10/25		01A	1	Soil			X	X	X				Standard TAT
35'EAST			02A	1				X	X	X				
55'EAST			03A	1				X	X	X				Results to Ron G
														10/26/94 Per Ron G. 5520F IR

RELINQUISHED BY: (Signature)	DATE 10/25	TIME 15:30	RECEIVED BY: (Signature)	DATE 10/25/94	TIME 15:30
RELINQUISHED BY: (Signature)	DATE 10/25	TIME 16:30	RECEIVED BY: (Signature)	DATE 10-25-94	TIME 1630
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink) FORM NO. 86/COC/ARF

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: ROBERT ROAT
CLIENT PROJ. ID: 1649.36
CLIENT PROJ. NAME: YERBA BUENA
C.O.C. NUMBER: 12574

REPORT DATE: 09/27/94
DATE(S) SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
AEN WORK ORDER: 9409118

PROJECT SUMMARY:

On September 9, 1994, this laboratory received 6 soil sample(s).

Client requested samples be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

RECEIVED
OCT 10
LEVINE-FRICKE

LEVINE-FRICKE

SAMPLE ID: SW-N-9
AEN LAB NO: 9409118-01A
AEN WORK ORDER: 9409118
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
REPORT DATE: 09/27/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	09/16/94
TPH as Diesel	GC-FID	530 *	3	mg/kg	09/20/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	09/19/94
Hydrocarbons (IR)	SM 5520CEF	1,700 *	10	mg/kg	09/19/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: SW-S-8
AEN LAB NO: 9409118-02A
AEN WORK ORDER: 9409118
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
REPORT DATE: 09/27/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	09/16/94
TPH as Diesel	GC-FID	400 *	3	mg/kg	09/20/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	09/19/94
Hydrocarbons (IR)	SM 5520CEF	2,100 *	10	mg/kg	09/19/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: SW-W-9
AEN LAB NO: 9409118-03A
AEN WORK ORDER: 9409118
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
REPORT DATE: 09/27/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	09/16/94
TPH as Diesel	GC-FID	ND	1	mg/kg	09/19/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	09/19/94
Hydrocarbons (IR)	SM 5520CEF	ND	10	mg/kg	09/19/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: SW-E-9
AEN LAB NO: 9409118-04A
AEN WORK ORDER: 9409118
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
REPORT DATE: 09/27/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	09/16/94
TPH as Diesel	GC-FID	510 *	3	mg/kg	09/20/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	09/19/94
Hydrocarbons (IR)	SM 5520CEF	2,000 *	10	mg/kg	09/19/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: B-E
AEN LAB NO: 9409118-05A
AEN WORK ORDER: 9409118
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
REPORT DATE: 09/27/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	09/16/94
TPH as Diesel	GC-FID	430 *	3	mg/kg	09/20/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	09/19/94
Hydrocarbons (IR)	SM 5520CEF	1,700 *	10	mg/kg	09/19/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: B-W
AEN LAB NO: 9409118-06A
AEN WORK ORDER: 9409118
CLIENT PROJ. ID: 1649.36

DATE SAMPLED: 09/09/94
DATE RECEIVED: 09/09/94
REPORT DATE: 09/27/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	09/16/94
TPH as Diesel	GC-FID	460 *	3	mg/kg	09/20/94
#Soil Extrn for HCs (IR)	SM 5520CEF	-		Extrn Date	09/19/94
Hydrocarbons (IR)	SM 5520CEF	1,700 *	10	mg/kg	09/19/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9409118

CLIENT PROJECT ID: 1649.34

Quality Control Summary

Surrogate recoveries for EPA 3550 GCFID analysis of samples SW-E-9 and B-W were outside of established limits due to matrix interference.

All other laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9409118
DATE EXTRACTED: 09/16/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 3550 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
09/20/94	SW-N-9	01	117
09/20/94	SW-S-8	02	118
09/19/94	SW-W-9	03	82
09/20/94	SW-E-9	04	122 #
09/20/94	B-E	05	113
09/20/94	B-W	06	123 #

#: Outside of established limits due to matrix interference.

Current QC Limits

Surrogate	Percent Recovery
n-Pentacosane	45-120

QUALITY CONTROL DATA

AEN JOB NO: 9409118
DATE EXTRACTED: 09/14/94
DATE ANALYZED: 09/16/94
SAMPLE SPIKED: LCS
INSTRUMENT: C
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 3550 GCFID

Analyte	Spike Added (mg/kg)	Average Percent Recovery	QC Limits Percent Recovery
Diesel	32.3	77	53-103

DATE EXTRACTED: 09/16/94
INSTRUMENT: C
MATRIX: SOIL

Method Blank Result
Method: EPA 3550 GCFID

Lab Id.	Extractable Hydrocarbons as Diesel (mg/kg)
091694-BLANK	ND
Reporting Limit	1

QUALITY CONTROL DATA

AEN JOB NO: 9409118
DATE EXTRACTED: 09/13/94
DATE ANALYZED: 09/13/94
SAMPLE SPIKED: 9408385-24
INSTRUMENT: IR
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: SM 5520

Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Oil	250	91	7	70-115	15

DATE EXTRACTED: 09/19/94
INSTRUMENT: IR
MATRIX: SOIL

Method Blank Result
Method: SM 5520

Lab Id.	Hydrocarbons (mg/kg)
091994-BLANK	ND
Reporting Limit	10

*** END OF REPORT ***

140711

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 1649.36	Field Logbook No.:	Date: 9.9.94	Serial No.: Nº 12574
Project Name: Yerba Buena	Project Location: EMERYVILLE		
Sampler (Signature) :			Samplers: SRP

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	5520(O+H)	8015			HOLD	RUSH	REMARKS
SW-N-9	9.9.94		01A	1	SOIL			✓	✓					
SW-S-8	|		02A		|		✓	✓					5520 for oil & grease
SW-W-9	|		03A		|		✓	✓					
SW-E-9	|		04A		|		✓	✓					8015 for TPHd
B-E	|		05A		|		✓	✓					
B-W	X		06A		↓			✓	✓					NORMAL TURN
														results to Bob Roat
														9/12 5520F for oil+grease — analyze all samples per Bob Roat (FAX) — DSH

RELINQUISHED BY: (Signature) Phillip Fletcher	DATE 9/9/94	TIME 16:45	RECEIVED BY: (Signature) Michael E McMillan	DATE 9/9/94	TIME 16:45
RELINQUISHED BY: (Signature) Michael E McMillan	DATE 9/9/94	TIME 12:40	RECEIVED BY: (Signature) Emily Hart	DATE 9/9/94	TIME 1240
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