



PORT OF OAKLAND

April 23, 2002

Mr. Barney Chan
Hazardous Materials Specialist
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

2019

APR 25 2002

**SUBJECT: 801 Maritime Street, UST Site
Oakland, California
STID #3780**

Dear Mr. Chan:

Please find enclosed a report titled, *First Quarter 2002 Groundwater Monitoring Report, 801 Maritime Street, Oakland, California*, prepared on the behalf of the Port of Oakland (Port) by Harding ESE, and dated April 15, 2002.

Should you have any questions about the enclosed report or the site in general, please contact me at 627-1373 or by e-mail at jprall@portoakland.com.

Sincerely,

John Prall, R.G.
Associate Environmental Scientist

Enclosure

CC: Jeff Jones



Harding ESE, Inc.
600 Grand Avenue
Suite 300
Oakland, CA 94610
Telephone: 510/451-1001
Fax: 510/451-3165
Home Page: www.mactec.com

EMC
RPT
702A1106

April 15, 2002

54821.2

Mr. John Prall
Associate Environmental Scientist
Port of Oakland
530 Water Street
Oakland, California 94607

First Quarter 2002 Groundwater Monitoring Report
801 Maritime Street
Oakland, California

Dear Mr. Prall:

Harding ESE, Inc. (Harding ESE), has prepared this Groundwater Monitoring and Sampling Report on behalf of the Port of Oakland for the groundwater monitoring and sampling performed on March 13, 2002 at the 801 Maritime Street site in Oakland, California. A site location map is shown on Plate 1.

The scope of work included collecting a groundwater sample from MW-1 and testing the groundwater sample for Total Petroleum Hydrocarbons as gasoline (TPH-g) and diesel (TPH-d), benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl t-butyl ether (MTBE), and total dissolved solids (TDS).

Monitoring well MW-1 is located in the vicinity of three former underground storage tanks (USTs) removed from the site in February 1989. The USTs included two 10,000-gallon tanks (CF-06 and CF-35) and one 20,000-gallon tank (CF-07).

GROUNDWATER SAMPLING

Harding ESE performed the monitoring and sampling on March 13, 2002. Prior to purging and sampling the monitoring well, Harding ESE measured the depth to groundwater below the top of the well casing with an electric water level indicator. After measuring the depth to water, Harding ESE purged the well using a PVC bailer. Conductivity, pH, and temperature were monitored periodically during purging. Harding ESE collected the groundwater samples after removing a minimum of three well-casing volumes of water and when the conductivity, pH, and temperature measurements had stabilized. The depths to groundwater and field parameter measurements were recorded on a Groundwater Sampling Form. The purge water was stored in the product recovery tank at the nearby 2277 7th Street facility.

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Mr. John Prall
Associate Environmental Scientist
Port of Oakland
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Harding ESE collected groundwater samples from the monitoring well using a disposable bailer and then transferred the groundwater into laboratory-provided containers. Sample containers were labeled with the sample number, date and time of collection, and sampler's initials, then placed in an insulated cooler with ice. The samples were delivered under chain-of-custody protocol to STL San Francisco, a California certified analytical laboratory.

MONITORING WELL GROUNDWATER LEVEL

Depth to water data is summarized in Table 1. The top of casing elevation was re-surveyed after the retrofitting activities in April 2001. The groundwater elevation was 6.66 in March 2002, similar to the measured groundwater elevation in October 2001.

LABORATORY ANALYSIS GROUNDWATER SAMPLES

STL San Francisco performed the chemical analyses of the groundwater samples using the following analytical methods:

- Total petroleum hydrocarbons as gasoline (TPHg) in accordance with EPA Method 8015 modified.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl t-butyl ether (MTBE) in accordance with EPA Method 8020B.
- TPH as diesel (TPHd) in accordance with EPA Method 8015 modified following a silica-gel cleanup procedure.
- Total dissolved solids (TDS) by EPA method 160.1.

The laboratory results for the groundwater sample are summarized in Table 2, and are shown on Plate 2. Copies of the laboratory results, chromatograms, and chain-of-custody are provided in Appendix A.

FINDINGS

The results of the March 13, 2002 groundwater monitoring and sampling of MW-1 are summarized below:

- TPHg was detected at a concentration of 110 µg/L.
- TPHd was not detected above the reporting limit of 50 µg/L.
- Benzene, toluene, ethylbenzene, and xylenes were detected at concentrations of 8.5 µg/L, 4.2 µg/L, 1.3 µg/L, and 7.3 µg/L, respectively.

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Associate Environmental Scientist
Port of Oakland
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- MTBE was not detected above the reporting limit of 5.0 µg/L.
- TDS was reported at a concentration of 1,100 mg/L.

CLOSURE

We trust that this provides the information required at this time. If you have any questions or need additional information, please contact Trish Eliasson at (510) 451-1001

Yours very truly,

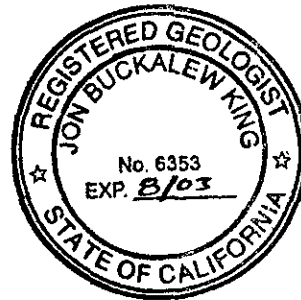
HARDING ESE, INC.



Trish A. Eliasson
Senior Staff Engineer



Buck King, RG, CHG
Senior Project Hydrogeologist



TAE/BK:lv/P:wpdata/54821/038072R.doc

Attachments: Table 1 – Groundwater Elevations
Table 2 – Summary of Laboratory Results
Plate 1 – Site Location Map
Plate 2 – Laboratory Results, March 13, 2002
Appendix A - Laboratory Reports

TABLES

**Table 1. Groundwater Elevations
801 Maritime Street
Oakland, California**

Monitoring Well ID	Date of Monitoring	Top of Casing Elevation (feet)	Measured Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)
MW-1	7/10/1996 ¹	13.81 ²	7.36	-	6.45 (3.25)
	12/27/1996 ⁴	(10.61) ²	7.55	-	6.26 (3.06)
	3/25/1997 ⁴	(10.61) ²	7.31	-	6.50 (3.30)
	6/23/1997 ⁴	(10.61) ²	7.55	-	6.26 (3.06)
	9/30/1997 ⁴	13.55 ³	7.46	-	6.09
	12/31/1997 ⁴	13.55	7.17	-	6.38
	4/17/01	14.18 ⁵	7.59	-	6.59
	7/26/01	14.18 ⁶	7.65	-	6.53
	10/21/01	14.18	7.71	-	6.47
	3/13/02	14.18	7.52	-	6.66

Notes:

- 1 Data from Table 2, Summary of Results of Groundwater Sampling, Port of Oakland Tanks CF-06, CF-07, and CF-35, 801 Maritime Street, Oakland, California, dated August 7, 1996, by Alisto Engineering Group.
- 2 Elevation data corrected relative to Port of Oakland datum: elevation data in parentheses referenced to mean sea level.
- 3 Top of casing cut and resurveyed on September 30, 1997 relative to Port of Oakland datum.
- 4 Data from Table 2, Summary of Laboratory Results, 801 Maritime Street, Oakland, California, dated March 3, 1998 by Innovative Technical Solutions, Inc.
- 5 Top of casing elevation changed due to retrofitting activities on April 17, 2001.
- 6 Elevation remeasured in 2001 after retrofitting activities on April 17, 2001. Relative to Port of Oakland datum.

**Table 2. Summary of Laboratory Results
801 Maritime Street
Oakland, California**

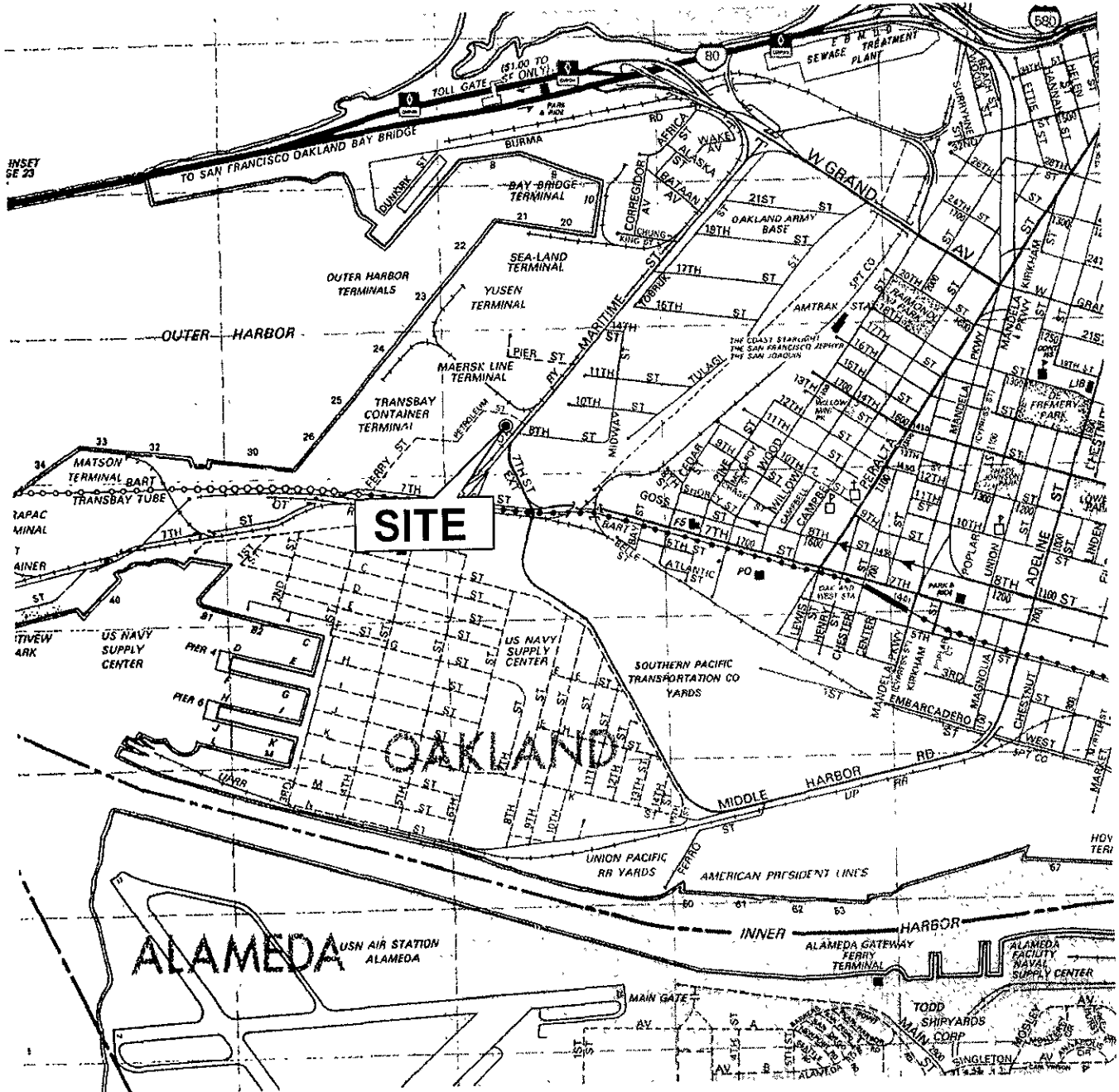
Monitoring Well ID	Date of Sampling	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPHd (µg/L)	TDS (mg/L)
MW-1	7/10/1996 ¹	180	27	14	5.4	23	-	7,100	-
	12/27/1996 ²	180	30	15	5.8	26	-	670	-
	3/25/1997 ²	180	21	11	4	17	-	19	1,840
	6/23/1997 ²	170	20	11	4.1	18	-	3,000	1,320
	9/30/1997 ^{2,3}	190	35	17	5.2	22	-	830	2,020
	12/31/1997 ^{2,3}	130	26	14	4.3	18	-	<48	1,880
	4/17/01	160	11	6.2	2.6	6.8 (m,p-) 4.4 (o-)	ND(2.0)	59 ⁴	1,860
	7/26/01	130	17	8.7	3.2	8.7 (m,p-) 5.5 (o-)	ND(2.0)	ND(50)	1,880
	12/21/01	160	14	6.9	2.6	7.3 (m,p-) 4.2 (o-)	ND(2.0)	ND(100)	1,860
	3/13/02	110	8.5	4.2	1.3	7.3	ND(5.0)	ND(50)	1,100

Notes

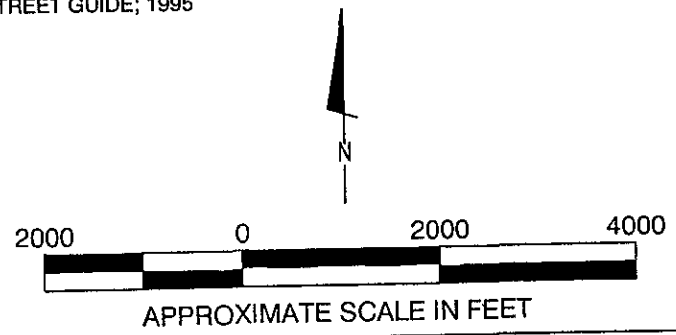
- TPHg = Total petroleum hydrocarbons (TPH) as gasoline
- MTBE= Methyl t-butyl ether
- TPHd = TPH as diesel
- TDS = Total dissolved solids
- ND= Not Detected above reporting limit shown in parentheses.
- (m,p-) = m,p-Xylenes
- (o-) = o-Xylenes

- 1 Data from Table 2, Summary of Results of Groundwater Sampling, Port of Oakland Tanks CF-06, CF-07, and CF-35. 801 Maritime Street, Oakland, California, dated August 7, 1996, by Alisto Engineering Group.
- 2 Data from Table 2, Summary of Laboratory Results, 801 Maritime Street, Oakland, California, dated March 3, 1998 by Innovative
- 3 Laboratory results represent the highest concentrations reported for either the sample or field duplicate sample (QC-1).
- 4 Results exhibit fuel pattern not resembling standard

PLATES



SOURCE: THOMAS BROTHERS ALAMEDA/CONTRA COSTA COUNTIES STREET GUIDE; 1995



Vicinity Map
 801 Maritime Street
 Oakland, California
 Port of Oakland

PLATE

1



DRAWN
 SS

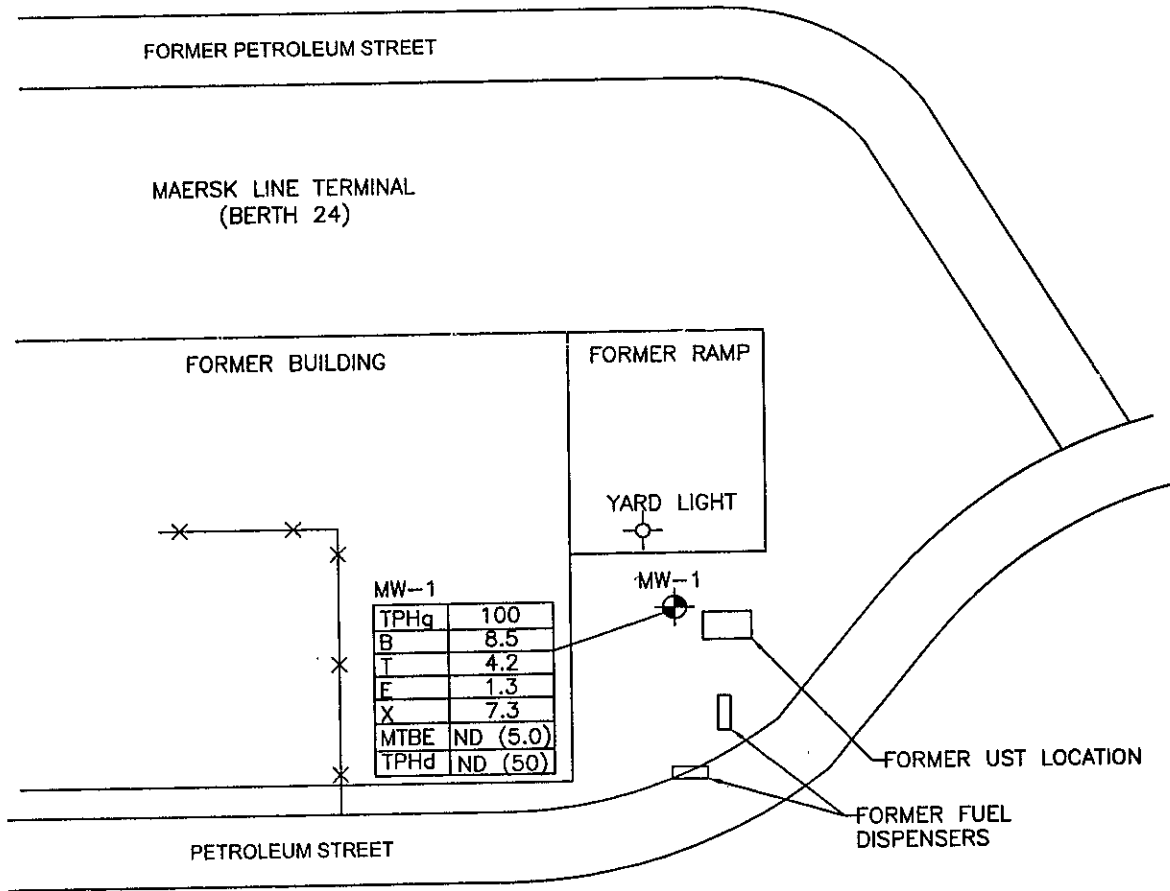
JOB NUMBER
 54821.2

APPROVED

DATE
 1/2002

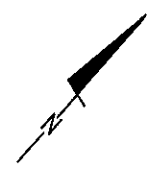
REVISED DATE

1.0
 0821000000
 200201221437



LEGEND

- MW-1 MONITORING WELL
- TPHg TPH AS GASOLINE (in µg/L)
- B BENZENE (in µg/L)
- T TOUENE (in µg/L)
- E ETHYLBENZENE (in µg/L)
- X XYLENES (in µg/L)
- MTBE METHYL T-BUYTL ETHER (in µg/L)
- TPHd TPH AS DIESEL (in µg/L)



APPROXIMATE SCALE IN FEET

Laboratory Results for Petroleum Hydrocarbons

March 13, 2002
 801 Maritime Street
 Oakland, California
 Port of Oakland

PLATE

2



DRAWN
SS

JOB NUMBER
54821.2

APPROVED

DATE
1/2002

REVISED DATE

54821006.DWG 1:1
20020327.1346

APPENDIX A
LABORATORY REPORT

Submission #: 2002-03-0265

Date: March 20, 2002



Harding ESE, Inc.

600 Grand Ave, Suite 300
Oakland, CA 94607

Attn: Trish Eliasson

Project: 54821.2
801 Maritime-P.O Berth 24

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Attached is our report for your samples received on Wednesday March 13, 2002
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
April 27, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: ssidhu@chromalab.com

Sincerely,

A handwritten signature in black ink that reads "Surinder Sidhu".

Surinder Sidhu
Project Manager

Submission #: 2002-03-0265

Gas/BTEX Compounds by 8015M/8021



Harding ESE, Inc.	☒ 600 Grand Ave, Suite 300 Oakland, CA 94607
Attn: Trish Eliasson	Phone: (510) 628-3240 Fax: (510) 451-3165
54821.2	Project: 801 Maritime-P.O Berth 24

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	03/13/2002 10:05	1

Gas/BTEX Compounds by 8015M/8021

Harding ESE, Inc.

Test Method: 8015M
8021B

Attn: Trish Eliasson

Prep Method: 5030

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: MW-1	Lab Sample ID: 2002-03-0265-001
Project: 54821.2 801 Maritime-P.O Berth 24	Received: 03/13/2002 17:25
Sampled: 03/13/2002 10:05	Extracted: 03/18/2002 18:05
Matrix: Water	QC-Batch: 2002/03/18-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	03/18/2002 18:05	
Benzene	8.5	0.50	ug/L	1.00	03/18/2002 18:05	
Toluene	4.2	0.50	ug/L	1.00	03/18/2002 18:05	
Ethyl benzene	1.3	0.50	ug/L	1.00	03/18/2002 18:05	
Xylene(s)	7.3	0.50	ug/L	1.00	03/18/2002 18:05	
MTBE	ND	5.0	ug/L	1.00	03/18/2002 18:05	
<i>Surrogate(s)</i>						
Trifluorotoluene	72.0	58-124	%	1.00	03/18/2002 18:05	
4-Bromofluorobenzene-FID	73.2	50-150	%	1.00	03/18/2002 18:05	

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Method Blank	Water	QC Batch # 2002/03/18-01.02
MB: 2002/03/18-01.02-004		Date Extracted: 03/18/2002 08:53

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/18/2002 08:53	
Benzene	ND	0.5	ug/L	03/18/2002 08:53	
Toluene	ND	0.5	ug/L	03/18/2002 08:53	
Ethyl benzene	ND	0.5	ug/L	03/18/2002 08:53	
Xylene(s)	ND	0.5	ug/L	03/18/2002 08:53	
MTBE	ND	5.0	ug/L	03/18/2002 08:53	
Surrogate(s)					
Trifluorotoluene	94.8	58-124	%	03/18/2002 08:53	
4-Bromofluorobenzene-FID	100.7	50-150	%	03/18/2002 08:53	

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/18-01.02
 LCS: 2002/03/18-01.02-007 Extracted: 03/18/2002 10:28 Analyzed: 03/18/2002 10:28
 LCSD: 2002/03/18-01.02-008 Extracted: 03/18/2002 11:00 Analyzed: 03/18/2002 11:00

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	539	536	500	500	107.8	107.2	0.6	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	520	513	500	500	104.0	102.6		50-150			

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/18-01.02
 LCS: 2002/03/18-01.02-009 Extracted: 03/18/2002 09:25 Analyzed: 03/18/2002 09:25
 LCSD: 2002/03/18-01.02-006 Extracted: 03/18/2002 09:56 Analyzed: 03/18/2002 09:56

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits (%)		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	97.2	95.2	100.0	100.0	97.2	95.2	2.1	77-123	20		
Toluene	96.6	94.2	100.0	100.0	96.6	94.2	2.5	78-122	20		
Ethyl benzene	102	100	100.0	100.0	102.0	100.0	2.0	70-130	20		
Xylene(s)	299	294	300	300	99.7	98.0	1.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	464	446	500	500	92.8	89.2		58-124	0		

Submission #: 2002-03-0265



Total Dissolved Solids (TDS)

Harding ESE, Inc.	✉ 600 Grand Ave, Suite 300 Oakland, CA 94607
Attn: Trish Eliasson	Phone: (510) 628-3240 Fax: (510) 451-3165
54821.2	Project: 801 Maritime-P.O Berth 24

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	03/13/2002 10:05	1

Submission #: 2002-03-0265



Total Dissolved Solids (TDS)

Harding ESE, Inc.
Attn: Trish Eliasson

Test Method: 160.1
Prep Method: 160.1

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Sample ID: MW-1	Lab Sample ID: 2002-03-0265-001
Project: 54821.2 801 Maritime-P.O Berth 24	Received: 03/13/2002 17:25
Sampled: 03/13/2002 10:05	Extracted: 03/18/2002 10:53
Matrix: Water	QC-Batch: 2002/03/18-01.28

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	1100	10	mg/L	1.00	03/19/2002 10:16	

Submission #: 2002-03-0265



Total Dissolved Solids (TDS)

Batch QC report

Test Method: 160.1

Prep Method: 160.1

Method Blank	Water	QC Batch # 2002/03/18-01.28
MB: 2002/03/18-01.28-001		Date Extracted: 03/18/2002 10:53

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
TDS	ND	10	mg/L	03/19/2002 10:16	

Submission #: 2002-03-0265



Total Dissolved Solids (TDS)

Batch QC report

Test Method: 160.1

Prep Method: 160.1

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2002/03/18-01.28
LCS: 2002/03/18-01.28-002	Extracted: 03/18/2002 10:53	Analyzed: 03/19/2002 10:16
LCSD: 2002/03/18-01.28-003	Extracted: 03/18/2002 10:53	Analyzed: 03/19/2002 10:16

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
TDS	1100	1070	1000	1000	110.0	107.0	2.8	80-120	20		

Submission #: 2002-03-0265



TEPH w/ Silica Gel Clean-up

Harding ESE, Inc.	☒ 600 Grand Ave, Suite 300 Oakland, CA 94607
Attn: Trish Eliasson	Phone: (510) 628-3240 Fax: (510) 451-3165
54821.2	Project: 801 Maritime-P.O Berth 24

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	03/13/2002 10:05	1

Submission #: 2002-03-0265



TEPH w/ Silica Gel Clean-up

Harding ESE, Inc.
Attn: Trish Eliasson

Test Method: 8015M
Prep Method: 3510/8015M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Sample ID: MW-1	Lab Sample ID: 2002-03-0265-001
Project: 54821.2 801 Maritime-P.O Berth 24	Received: 03/13/2002 17:25
Sampled: 03/13/2002 10:05	Extracted: 03/14/2002 07:19
Matrix: Water	QC-Batch: 2002/03/14-01.10

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	03/15/2002 21:57	
Surrogate(s) o-Terphenyl	86.1	60-130	%	1.00	03/15/2002 21:57	

Submission #: 2002-03-0265



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015
M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

Method Blank Water QC Batch # 2002/03/14-01.10
MB: 2002/03/14-01.10-001 Date Extracted: 03/14/2002 07:19

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/18/2002 13:50	
<i>Surrogate(s)</i> o-Terphenyl	95.3	60-130	%	03/18/2002 13:50	

Submission #: 2002-03-0265



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/14-01.10
 LCS: 2002/03/14-01.10-002 Extracted: 03/14/2002 07:19 Analyzed: 03/15/2002 19:57
 LCSD: 2002/03/14-01.10-003 Extracted: 03/14/2002 07:19 Analyzed: 03/15/2002 20:37

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	804	780	1250	1250	64.3	62.4	3.0	60-130	25		
Surrogate(s)											
o-Terphenyl	16.8	16.2	20.0	20.0	83.9	81.0		60-130	0		

CHAIN OF CUSTODY FORM

2002-03-0265

Samplers: Trish Eliasson
Delphine Micolet



600 Grand Ave, Suite 300
Oakland, CA 94610
(510) 451-1001

Job Number: 54821.2
Name/Location: 801 Maritime - P.O Berth 24
Project Manager: Trish Eliasson

Recorder: *[Signature]*
(Signature Required)

ANALYSIS REQUESTED										
Gasoline Range Organics 8015B										
Diesel Range Organics 8015B										
BTEX plus MTBE										
CCR Title 22 Metals (17)										
EPA 8021B										
EPA 8260B										
EPA 8270C										
TDS										

MATRIX			#CONTAINERS & PRESERV.				SAMPLE NUMBER				DATE				STATION DESCRIPTION	DEPTH
Water	Soil	Air	Unpres	H ₂ SO ₄	HNO ₃	HCL	YR	SEQ	YR	MO	DAY	TIME				
X			3			3		MW-1	02	03	13	1005				

ADDITIONAL INFORMATION									
SAMPLE NUMBER					TURNAROUND TIME/REMARKS				
YR	SEQ								
									TPH with silica gel cleanup
									Standard TAT

CHAIN OF CUSTODY RECORD			
Relinquished By (signature)	(Print Name)	(Company)	Date/Time
<i>[Signature]</i>	Trish Eliasson	Harding	3/13/02
<i>[Signature]</i>	B. Morrow	STL-SF	3/13/02 12:40
<i>[Signature]</i>	B. Morrow	STL-SF	3/13/02 12:45
Received By (signature)	(Print Name)	(Company)	Date/Time
Relinquished By (signature)	(Print Name)	(Company)	Date/Time
Received By (signature)	(Print Name)	(Company)	Date/Time
Relinquished By (signature)	(Print Name)	(Company)	Date/Time
<i>[Signature]</i>	N. Khamrounethy	STL-SF	3-13-02 17:25