

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**FUTURE PORT FIELD SUPPORT  
SERVICES COMPLEX  
2225 & 2277 SEVENTH STREET  
PORT OF OAKLAND**

**OAKLAND, CALIFORNIA**

3 of 3

**VOLUME II - APPENDIX B**

**IRIS ENVIRONMENTAL**

June 2002

# IRIS ENVIRONMENTAL

1615 Broadway, Suite 1003  
 Oakland, CA 94612  
 (510) 834-4747  
 (510) 834-4199 (fax)

**2002-04-0014**

## CHAIN-OF-CUSTODY

Date: 3/28/02 Page 6 of 6

Samplers (signature):

*GL*

Sample ID      Date      Time      Matrix      Preserv.

MFC-23-1.5-2.0	3/28	800	Soil	N/A
MFC-23-5.5-6.0		805		
MFC-23-8.0-8.5		810		
MFC-25-1.0-1.5-DUP		1040		
MFC-25-4.5-5.0		1100		
MFC-43-1.5-2.0		1341		
MFC-43-4.5-5.0		1330		
MFC-45-1.5-2.0		1252		
MFC-45-4.5-5.0		1254		

Analyses Required												Number of Containers
VOC, 8240	SVOCs 8270	TOTAL METALS CAMEL IF	Cr 6 7196A	TPH-GT 8017	BTEX 8020	TEPH * 8015	Organic Lead/LUFT					
		X	X	X	X	X						1
X	Composite	X	X	X	X	X						1
X	Composite	X	X	X	X	X						1
	X	X	X	X	X	X						1
X	X	X	X	X	X	X						1
X	Composite	X	X	X	X	X						1
X	Composite	X	X	X	X	X						1
X	Composite	X	X	X	X	X						1

Project Information  
 Project Name: 7th St.  
 Project Number: 01-201-A  
 Contact: Chris Agre  
 E-mail: @irisen.com

Sample Receipt  
 # of Containers: \_\_\_\_\_  
 Head space: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Conforms to Record: \_\_\_\_\_

Relinquished By:  
*GL* 1750  
 (Signature)  
 EMILY COEWIN  
 (Name)  
 IRIS ENVIRONMENTAL  
 (Company)

Received By:  
*W.A. Mostwin*  
 (Signature)  
 MOSTWIN A.  
 (Name)  
 World C.  
 (Company)

Report: Routine Level 2 Level 3 Level 4 Electronic  
 1AT      5-Day      24      48      72      Other:

Special Instructions/Comments:  
 \* TEPIH = D, MO, Jet-A, K, w/ silica gel cleanup

Relinquished By:  
*W.A. Mostwin*  
 (Signature)  
 MOSTWIN A.  
 (Name)  
 World Council  
 (Company)

Received By:  
*D. Harrington*  
 (Signature)  
 D Harrington 1920  
 (Name)  
 STL-SF 3/28/02  
 (Company)

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## CHAIN-OF-CUSTODY

Date: 3/28/02 Page 5 of 6

# 2002-04-0014

Samplers (signature):

Sample ID	Date	Time	Matrix	Preserv.	Analyses Required										Number of Containers							
					VOCs 8260	SVOCs 8270	TOTAL METALS CAM 17	Cr 7196A	TPH-S 5015/ BTEX 8028	TEPH # 8015	Organic Lead CuFT											
1/ MFC-36-1.5-2.0	3/28	1350	SOIL	N/A		SR	X	X	X	X												1
2/ MFC-36-1.5-2.0 DUP		1350				X	X	X	X	X												1
3/ MFC-36-4.5-5.0		1400			X	SR	X	X	X	X												1
4/ MFC-21-1.5-2.0		930				SR	X	X	X	X												1
5/ MFC-21-1.5-2.0-DUP		930				X	X	X	X	X												1
6/ MFC-21-4.5-5.0		935			X	COMPO	X	X	X	X												1
7/ MFC-21-8.0-8.5		940			X	COMPO	X	X	X	X												1
8/ MFC-22-1.5-2.0		850				COMPOSITE	X	X	X	X												1
9/ MFC-22-4.5-5.0		855			X	COMPOSITE	X	X	X	X												1
10/ MFC-22-7.5-8.0		905			X	COMPOSITE	X	X	X	X												1

Project Information  
 Project Name: 7th ST.  
 Project Number: 01-201-A  
 Contact: Chris Arge.  
 E-mail: @irisenv.com

Sample Receipt  
 # of Containers  
 Head space  
 Temperature  
 Conforms to Record

Relinquished By:  
  
 (Signature) EMILY COWAN  
 (Name) IRIS ENVIRONMENTAL  
 (Company)

Received By:  
  
 (Signature) World C.  
 (Name) World C.  
 (Company)

Report: Routine Level 2 Level 3 Level 4 Electronic  
 TAT: 5-Day 24 48 72 Other: 7-DAY

Special Instructions/Comments:  
 \* TEPH = D, MO, jet-A, k w/ silica gel cleanup  
 o = composite these as are for 8270 ONLY  
 + = composite these as are for 8270 ONLY

Relinquished By:  
  
 (Signature) World C.  
 (Name) World C.  
 (Company)

Received By:  
  
 (Signature) D Harrington  
 (Name) D Harrington 1920  
 (Company) STL-SF 3/28/02

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## CHAIN-OF-CUSTODY

Date: 03/28/02 Page 4 of 8

**2002-04-0014**

Samplers (signature):

*SL*

Sample ID      Date      Time      Matrix      Preserv.

EB-032802	03/28	1540	AQ	Various
MFC-4-GW	03/28	-	AQ	Various
MFC-7-GW	↓	-	AQ	Various
MFC-28-GW	03/27	1530	AQ	HCE
MFC-34-GW	03/28/02	-	AQ	HCE

Analyses Required												Number of Containers
VOCs	SVOCs	TOTAL METALS CML7	Cr 6 617 6A	TPH 6015 BTEX 6020	TEPH 6015	Organic Lead						
X		X	X	X	X	X						10
X		X	X	X	X							7
	X			X	X							2
X				X	X							6
X				X	X							8

Project Information  
Project Name: 7<sup>th</sup> ST.  
Project Number: 01-201-A  
Contact: Chris Abuz.  
E-mail: @irisenv.com

Sample Receipt  
# of Containers: \_\_\_\_\_  
Head space: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Conforms to Record: \_\_\_\_\_

Relinquished By:  
*SL* 1750  
(Signature)  
EMILY COEWIN  
(Name)  
IRIS ENVIRONMENTAL  
(Company)

Received By:  
*Ch Amburge*  
(Signature)  
MEDIA A.  
(Name)  
World C.  
(Company)

Report: Routine Level 2 Level 3 Level 4 Electronic  
TAT: 5-Day 24 48 72 Other: 7-DAY

Special Instructions/Comments:  
FOR MFC-7-GW TEPH=mo, jet-A, k w/ Si gel damp,  
FOR ALL OTHERS TEPH=d, mo, jet-A, k w/ Si gel damp.

Relinquished By:  
*Ch Amburge*  
(Signature)  
MEDIA A.  
(Name)  
World C.  
(Company)

Received By:  
*D. Harrington*  
(Signature)  
D. Harrington 1920  
(Name)  
STL-SF 3/28/02  
(Company)



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## CHAIN-OF-CUSTODY

Date 03/28/02 Page 3 of 6

**2002-04-0014**

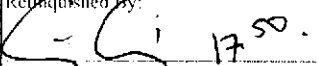
Samplers (signature):




Sample ID	Date	Time	Matrix	Preserv.	Analyses Required										Number of Containers					
					VOCs 8260	TPH 8015	Fixed Gases *	METHANE												
MFC-23-4.0	03/28	10 <sup>55</sup>	SOIL GAS	-19	X	X	X	X												2
MFC-41-4.0		09 <sup>35</sup>		-29.5 -5.9	X	X	X	X												2
MFC-38-4.0		09 <sup>55</sup>		-28 -19	X	X	X	X												2
MFC-36-4.0		08 <sup>55</sup>		-28 -3.5	X	X	X	X												2
MFC-29-4.0		08 <sup>40</sup>		-28.8 -11.5	X	X	X	X												2
MFC-45-4.0		09 <sup>15</sup>		-21.5 -18	X	X	X	X												2
MFC-28-4.0		08 <sup>30</sup>		-26 -5	X	X	X	X												2

Project Information:  
 Project Name: 01-201-A  
 Project Number: 7th St.  
 Contact: Chris Algee  
 E-mail: @irisenv.com

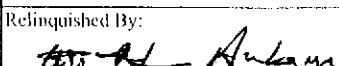
Sample Receipt:  
 # of Containers: \_\_\_\_\_  
 Head space: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Conforms to Record: \_\_\_\_\_

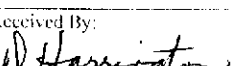
Relinquished By:  
  
 (Signature) EMILY CORWIN  
 (Name) IRIS ENVIRONMENTAL  
 (Company) IRIS ENVIRONMENTAL

Received By:  
  
 (Signature) MIKE W A  
 (Name) WORLD C.  
 (Company) WORLD C.

Report: Routine Level 2 Level 3 Level 4 Electronic  
 IAT: 5-Day 24 48 72 Other: 7-DAY

Special Instructions/Comments:  
 \*FIXED GASES = O<sub>2</sub>, CO, CO<sub>2</sub>, N + METHANE BY D1946  
 → SMA CANISTERS WILL FOLLOW 03/29

Relinquished By:  
  
 (Signature) MIKE W A  
 (Name) WORLD C.  
 (Company) WORLD C.

Received By:  
  
 (Signature) D. Harrington 1920  
 (Name) STE-SF 3/28/02  
 (Company) WORLD C.

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**CHAIN-OF-CUSTODY**

Date: 03/28/02 Page 2 of 5

**2002-04-0014**

Samplers (signature): *SG*

Sample ID	Date	Time	Matrix	Preserv.
MFC-13-GW	03/28	8:45	AQ	VARIOUS
MFC-12-GW	03/28	13:00	AQ	VARIOUS
MFC-27-GW	03/28	10:30	AQ	—
TB032802B	03/28	16:15	AQ	HCE
MFC-23-GW	03/28	14:40	AQ	VARIOUS
MFC-3-GW	03/28	14:00	AQ	VARIOUS
MFC-31-GW	03/28	13:45	AQ	—
MFC-45-GW	03/28	14:30	AQ	—
MFC-36-GW	03/28	15:00	AQ	—
MFC-21-GW	03/28	16:10	AQ	HCE

Analyses Required												Number of Containers
VOCs	SVOCs	TOXIC METALS	Cr 6	7196A	TPHs/BTEX	0209/0210	0209/0210	TEPH	0210	0210	0210	
X						X	X	X				7
X						X	X	X				7
								X				1
X						X	X					3
X						X	X	X				7
X						X	X	X				7
	X							X	X			3
								X	X			1
X						X	X	X				8
X								X	X			3

Project Information		Sample Receipt	
Project Name: 2nd ST	Project Number: 01-201-A	# of Containers:	Head space:
Contact: Chris Arby	E-mail: @irisenv.com	Temperature:	Conforms to Record:
Report: <u>Routine</u> Level 2 Level 3 Level 4 Electronic		TAT: 5-Day 24 48 72 Other: 7 DAY	

Relinquished By: <i>SG</i> 1750 (Signature) EMILY CORWIN (Name) IRIS ENVIRONMENTAL (Company)	Received By: <i>Uf Arby</i> (Signature) MESH IN A. (Name) World C. (Company)
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Special Instructions/Comments:  
 FOR MFC-27-GW, MFC-45-GW, MFC-31-GW TEPH = mo, jet-A, k w/ silica gel clean-up for ALL OTHER TEPH = d, mo, jet-A, k w/ silica gel clean-up.

Relinquished By: <i>Uf Arby</i> (Signature) MESH IN A. (Name) World C. (Company)	Received By: <i>D Harrington</i> (Signature) D Harrington 1920 (Name) STL-SF 3/29/02 (Company)
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LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E2D040334      Work Order #...: EXMAD1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D090000-549      EXMAD1AD-LCSD  
 Prep Date.....: 04/09/02      Analysis Date...: 04/09/02  
 Prep Batch #...: 2099549      Analysis Time...: 09:58  
 Dilution Factor: 1      Instrument ID...: GC6  
 Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	10.0	10.8	ppm(v/v)	108		EPA-19 TO-3
	10.0	10.7	ppm(v/v)	107	0.68	EPA-19 TO-3

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2D040334      Work Order #...: EXMAD1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D090000-549      EXMAD1AD-LCSD  
 Prep Date.....: 04/09/02      Analysis Date...: 04/09/02  
 Prep Batch #...: 2099549      Analysis Time...: 09:58  
 Dilution Factor: 1      Instrument ID...: GC6  
 Analyst ID.....: 358011

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
TPH (as Gasoline)	108	(85 - 125)			EPA-19 TO-3
	107	(85 - 125)	0.68	(0-20)	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Boild print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E2D040334      Work Order #...: EXW2M1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D150000-296      EXW2M1AD-LCSD  
 Prep Date.....: 04/12/02      Analysis Date...: 04/12/02  
 Prep Batch #...: 2105296      Analysis Time...: 10:31  
 Dilution Factor: 1      Instrument ID...: GC1  
 Analyst ID.....: 101605

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Carbon dioxide	1.00	1.07	% (v/v)	107		ASTM D1946
	1.00	1.06	% (v/v)	106	0.97	ASTM D1946
Methane	0.0500	0.0543	% (v/v)	109		ASTM D1946
	0.0500	0.0540	% (v/v)	108	0.57	ASTM D1946

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2D040334      Work Order #...: EXW2M1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D150000-296      EXW2M1AD-LCSD  
 Prep Date.....: 04/12/02      Analysis Date...: 04/12/02  
 Prep Batch #...: 2105296      Analysis Time...: 10:31  
 Dilution Factor: 1      Instrument ID...: GC1  
 Analyst ID.....: 101605

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Carbon dioxide	107	(75 - 125)			ASTM D1946
	106	(75 - 125)	0.97	(0-20)	ASTM D1946
Methane	109	(60 - 120)			ASTM D1946
	108	(60 - 120)	0.57	(0-20)	ASTM D1946

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



METHOD BLANK REPORT

GC Volatiles

Client Lot #....: E2D040334      Work Order #....: EXMAD1AA      Matrix.....: AIR  
MB Lot-Sample #: M2D090000-549  
Analysis Date...: 04/09/02      Prep Date.....: 04/09/02      Analysis Time...: 12:17  
Dilution Factor: 1      Prep Batch #....: 2099549      Instrument ID...: GC6  
Analyst ID.....: 358011

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
TPH (as Gasoline)	ND	1.0	ppm (v/v)	EPA-19 TO-3

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2D040334      Work Order #...: EXW2M1AA      Matrix.....: AIR  
MB Lot-Sample #: M2D150000-296      Prep Date.....: 04/12/02      Analysis Time...: 11:10  
Analysis Date...: 04/12/02      Prep Batch #...: 2105296      Instrument ID...: GC1  
Dilution Factor: 1  
Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Carbon dioxide	ND	0.010	% (v/v)	ASTM D1946
Oxygen	ND	0.10	% (v/v)	ASTM D1946
Nitrogen	ND	1.0	% (v/v)	ASTM D1946
Methane	ND	0.00020	% (v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	% (v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# QC DATA ASSOCIATION SUMMARY

E2D040334

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	
002	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	
003	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	
004	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	
005	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	
006	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	
007	AIR AIR	ASTM D1946 EPA-19 TO-3		2105296 2099549	

STL SAN FRANCISCO

Client Sample ID: MFC-28-4.0

GC Volatiles

Lot-Sample #....: E2D040334-007    Work Order #....: EXE001AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 08:30    Date Received...: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date...: 04/09/02  
Prep Batch #....: 2099549    Analysis Time...: 17:40  
Dilution Factor: 2.09  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	13	2.1	ppm(v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-28-4.0

GC Volatiles

Lot-Sample #....: E2D040334-007    Work Order #....: EXE001AC    Matrix.....: AIR  
Date Sampled....: 03/28/02 08:30    Date Received..: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date..: 04/12/02  
Prep Batch #....: 2105296    Analysis Time..: 17:10  
Dilution Factor: 2.09  
Analyst ID.....: 101605    Instrument ID..: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Carbon dioxide	1.6	0.021	% (v/v)
Oxygen	3.0	0.21	% (v/v)
Nitrogen	39	2.1	% (v/v)
Methane	56	0.00042	% (v/v)
Carbon monoxide	ND	0.0021	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-45-4.0

GC Volatiles

Lot-Sample #...: E2D040334-006    Work Order #...: EXE0W1AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 09:15    Date Received...: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date...: 04/09/02  
Prep Batch #...: 2099549    Analysis Time...: 16:50  
Dilution Factor: 3.39  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	6.9	3.4	ppm(v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-45-4.0

GC Volatiles

Lot-Sample #...: E2D040334-006    Work Order #...: EXE0W1AC    Matrix.....: AIR  
Date Sampled...: 03/28/02 09:15    Date Received...: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date...: 04/12/02  
Prep Batch #...: 2105296    Analysis Time...: 15:44  
Dilution Factor: 3.39  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	0.19	0.034	% (v/v)
Oxygen	20	0.34	% (v/v)
Nitrogen	84	3.4	% (v/v)
Methane	0.077	0.00068	% (v/v)
Carbon monoxide	ND	0.0034	% (v/v)



STL SAN FRANCISCO

Client Sample ID: MFC-29-4.0

GC Volatiles

Lot-Sample #...: E2D040334-005    Work Order #...: EXE0V1AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 08:40    Date Received...: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date...: 04/09/02  
Prep Batch #...: 2099549    Analysis Time...: 17:15  
Dilution Factor: 2.89  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	78	2.9	ppm (v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-29-4.0

GC Volatiles

Lot-Sample #...: E2D040334-005    Work Order #...: EXE0V1AC    Matrix.....: AIR  
Date Sampled...: 03/28/02 08:40    Date Received...: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date...: 04/12/02  
Prep Batch #...: 2105296    Analysis Time...: 16:45  
Dilution Factor: 2.89  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	0.87	0.029	% (v/v)
Oxygen	3.3	0.29	% (v/v)
Nitrogen	17	2.9	% (v/v)
Methane	78	0.00058	% (v/v)
Carbon monoxide	ND	0.0029	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-36-4.0

GC Volatiles

Lot-Sample #...: E2D040334-004    Work Order #...: EXE0T1AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 08:55    Date Received..: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date..: 04/09/02  
Prep Batch #...: 2099549    Analysis Time...: 18:04  
Dilution Factor: 1.92  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	85	1.9	ppm (v/v)

NOTE(S) :

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-36-4.0

GC Volatiles

Lot-Sample #....: E2D040334-004    Work Order #....: EXE0T1AC    Matrix.....: AIR  
Date Sampled....: 03/28/02 08:55    Date Received...: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date...: 04/12/02  
Prep Batch #....: 2105296    Analysis Time...: 16:26  
Dilution Factor: 1.92  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	8.0	0.019	% (v/v)
Oxygen	1.5	0.19	% (v/v)
Nitrogen	91	1.9	% (v/v)
Methane	1.9	0.00038	% (v/v)
Carbon monoxide	ND	0.0019	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-38-4.0

GC Volatiles

Lot-Sample #...: E2D040334-003    Work Order #...: EXE0R1AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 09:55    Date Received...: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date...: 04/09/02  
Prep Batch #...: 2099549    Analysis Time...: 16:26  
Dilution Factor: 1.81  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	1.8	ppm(v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-38-4.0

GC Volatiles

Lot-Sample #...: E2D040334-003    Work Order #...: EXE0R1AC    Matrix.....: AIR  
Date Sampled...: 03/28/02 09:55    Date Received...: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date...: 04/12/02  
Prep Batch #...: 2105296    Analysis Time...: 16:06  
Dilution Factor: 1.81  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	0.083	0.018	% (v/v)
Oxygen	22	0.18	% (v/v)
Nitrogen	80	1.8	% (v/v)
Methane	0.17	0.00036	% (v/v)
Carbon monoxide	ND	0.0018	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-41-4.0

GC Volatiles

Lot-Sample #...: E2D040334-002    Work Order #...: EXE0P1AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 09:35    Date Received...: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date...: 04/09/02  
Prep Batch #...: 2099549    Analysis Time...: 16:03  
Dilution Factor: 2.08  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	2.1	ppm(v/v)



STL SAN FRANCISCO

Client Sample ID: MFC-41-4.0

GC Volatiles

Lot-Sample #...: E2D040334-002    Work Order #...: EXE0P1AC    Matrix.....: AIR  
Date Sampled...: 03/28/02 09:35    Date Received...: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date...: 04/12/02  
Prep Batch #...: 2105296    Analysis Time...: 14:33  
Dilution Factor: 2.08  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	2.7	0.021	% (v/v)
Oxygen	19	0.21	% (v/v)
Nitrogen	81	2.1	% (v/v)
Methane	ND	0.00042	% (v/v)
Carbon monoxide	ND	0.0021	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-23-4.0

GC Volatiles

Lot-Sample #...: E2D040334-001    Work Order #...: EXEON1AD    Matrix.....: AIR  
Date Sampled...: 03/28/02 10:35    Date Received...: 04/03/02  
Prep Date.....: 04/09/02    Analysis Date...: 04/09/02  
Prep Batch #...: 2099549    Analysis Time...: 15:39  
Dilution Factor: 2.7  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	2.7	ppm(v/v)

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Client Sample ID: MPC-23-4.0

GC Volatiles

Lot-Sample #...: E2D040334-001    Work Order #...: EXE0N1AC    Matrix.....: AIR  
Date Sampled...: 03/28/02 10:35    Date Received...: 04/03/02  
Prep Date.....: 04/12/02    Analysis Date...: 04/12/02  
Prep Batch #...: 2105296    Analysis Time...: 11:31  
Dilution Factor: 2.7  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Carbon dioxide	0.039	0.027	% (v/v)
Oxygen	22	0.27	% (v/v)
Nitrogen	80	2.7	% (v/v)
Methane	0.0013	0.00054	% (v/v)
Carbon monoxide	ND	0.0027	% (v/v)

## SAMPLE SUMMARY

E2D040334

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EXE0N	001	MFC-23-4.0	03/28/02	10:35
EXE0P	002	MFC-41-4.0	03/28/02	09:35
EXE0R	003	MFC-38-4.0	03/28/02	09:55
EXE0T	004	MFC-36-4.0	03/28/02	08:55
EXE0V	005	MFC-29-4.0	03/28/02	08:40
EXE0W	006	MFC-45-4.0	03/28/02	09:15
EXE00	007	MFC-28-4.0	03/28/02	08:30

### NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# ANALYTICAL METHODS SUMMARY

E2D040334

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Fixed Gases	ASTM D1946
TPH by TO-3	EPA-19 TO-3

## References:

- ASTM      Annual Book Of ASTM Standards.
- EPA-19    "Compendium of Methods for the Determination of Toxic  
Organic Compounds in Ambient Air", EPA/600/4-89/017,  
January 1988

## EXECUTIVE SUMMARY - Detection Highlights

E2D040334

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MFC-28-4.0 03/28/02 08:30 007				
Carbon dioxide	1.6	0.021	% (v/v)	ASTM D1946
Oxygen	3.0	0.21	% (v/v)	ASTM D1946
Nitrogen	39	2.1	% (v/v)	ASTM D1946
Methane	56	0.00042	% (v/v)	ASTM D1946
TPH (as Gasoline)	13	2.1	ppm(v/v)	EPA-19 TO-3

## EXECUTIVE SUMMARY - Detection Highlights

E2D040334

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
<b>MFC-23-4.0 03/28/02 10:35 001</b>				
Carbon dioxide	0.039	0.027	% (v/v)	ASTM D1946
Oxygen	22	0.27	% (v/v)	ASTM D1946
Nitrogen	80	2.7	% (v/v)	ASTM D1946
Methane	0.0013	0.00054	% (v/v)	ASTM D1946
<b>MFC-41-4.0 03/28/02 09:35 002</b>				
Carbon dioxide	2.7	0.021	% (v/v)	ASTM D1946
Oxygen	19	0.21	% (v/v)	ASTM D1946
Nitrogen	81	2.1	% (v/v)	ASTM D1946
<b>MFC-38-4.0 03/28/02 09:55 003</b>				
Carbon dioxide	0.083	0.018	% (v/v)	ASTM D1946
Oxygen	22	0.18	% (v/v)	ASTM D1946
Nitrogen	80	1.8	% (v/v)	ASTM D1946
Methane	0.17	0.00036	% (v/v)	ASTM D1946
<b>MFC-36-4.0 03/28/02 08:55 004</b>				
Carbon dioxide	8.0	0.019	% (v/v)	ASTM D1946
Oxygen	1.5	0.19	% (v/v)	ASTM D1946
Nitrogen	91	1.9	% (v/v)	ASTM D1946
Methane	1.9	0.00038	% (v/v)	ASTM D1946
TPH (as Gasoline)	85	1.9	ppm(v/v)	EPA-19 TO-3
<b>MFC-29-4.0 03/28/02 08:40 005</b>				
Carbon dioxide	0.87	0.029	% (v/v)	ASTM D1946
Oxygen	3.3	0.29	% (v/v)	ASTM D1946
Nitrogen	17	2.9	% (v/v)	ASTM D1946
Methane	78	0.00058	% (v/v)	ASTM D1946
TPH (as Gasoline)	78	2.9	ppm(v/v)	EPA-19 TO-3
<b>MFC-45-4.0 03/28/02 09:15 006</b>				
Carbon dioxide	0.19	0.034	% (v/v)	ASTM D1946
Oxygen	20	0.34	% (v/v)	ASTM D1946
Nitrogen	84	3.4	% (v/v)	ASTM D1946
Methane	0.077	0.00068	% (v/v)	ASTM D1946
TPH (as Gasoline)	6.9	3.4	ppm(v/v)	EPA-19 TO-3

(Continued on next page)



## ANALYTICAL REPORT

PROJECT NO. 01-201-A

Port of Oakland

Lot #: E2D040334

Tod Granicher

STL San Francisco

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara  
Project Manager

April 18, 2002

TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

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www.chromalab.com

CA DHS ELAP#1094

**QC Sample Notes**

Laboratory Control Spike Duplicate ( Lab# 2002/04/05-05.10-003 )  
or = Percent recovery outside of control limit.

**Analysis Flags**

rl  
Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp  
Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd  
Surrogate recovery not reportable due to required dilution.

**Analyte Flags**

sl  
Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M

Prep Method: 3550/8015M

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CA DHS ELAP#1094

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-02.10</b>
Sample ID: <b>MFC-22-7.5-8.0 &gt;&gt; MS</b>		Lab ID: 2002-04-0014-043
MS: 2002/04/05-02.10-004	Extracted: 04/05/2002 10:02	Analyzed: 04/08/2002 19:47
		Dilution: 1
MSD: 2002/04/05-02.10-005	Extracted: 04/05/2002 10:02	Analyzed: 04/08/2002 20:24
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Diesel	30.1	29.2	1.06	41.5	41.2	70.0	68.3	2.5	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	15.9	16.4		20.0	20.0	79.6	81.8		60-130	0		

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

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**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/08-04.10**  
 LCS: 2002/04/08-04.10-002 Extracted: 04/08/2002 13:11 Analyzed: 04/09/2002 08:26  
 LCSD: 2002/04/08-04.10-003 Extracted: 04/08/2002 13:11 Analyzed: 04/09/2002 09:06

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Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	1020	1030	1250	1250	81.6	82.4	1.0	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	19.3	18.5	20.0	20.0	96.4	92.5		60-130	0		

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

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Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/04/05-05.10  
 LCS: 2002/04/05-05.10-002 Extracted: 04/05/2002 15:20 Analyzed: 04/08/2002 11:14  
 LCSD: 2002/04/05-05.10-003 Extracted: 04/05/2002 15:20 Analyzed: 04/08/2002 14:11

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	785	682	1250	1250	62.8	54.6	14.0	60-130	25		,or
<b>Surrogate(s)</b>											
o-Terphenyl	15.9	15.7	20.0	20.0	79.5	78.6		60-130	0		

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-02.10**  
 LCS: 2002/04/05-02.10-002 Extracted: 04/05/2002 10:02 Analyzed: 04/08/2002 06:11  
 LCSD: 2002/04/05-02.10-003 Extracted: 04/05/2002 10:02 Analyzed: 04/08/2002 06:48

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	26.7	32.5	41.7	41.7	64.0	77.9	19.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	17.1	17.2	20.0	20.0	85.4	86.1		60-130	0		

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/04/05-01.10**  
 LCS: 2002/04/05-01.10-002 Extracted: 04/05/2002 08:33 Analyzed: 04/08/2002 09:17  
 LCSD: 2002/04/05-01.10-003 Extracted: 04/05/2002 08:33 Analyzed: 04/08/2002 09:54

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	844	837	1250	1250	67.5	67.0	0.7	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	15.8	16.5	20.0	20.0	79.0	82.3		60-130	0		











Submission #: 2002-04-0014

**SEVERN  
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SERVICES**

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-45-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-052
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 12:54	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/09/2002 06:02	
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 06:02	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 06:02	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 06:02	
<b>Surrogate(s)</b>						
o-Terphenyl	85.7	60-130	%	1.00	04/09/2002 06:02	

Submission #: 2002-04-0014

SEVERN

TRENT

SERVICES

TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-45-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-051
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 12:52	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	6.2	1.0	mg/Kg	1.00	04/08/2002 02:16	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 02:16	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 02:16	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 02:16	
<b>Surrogate(s)</b>						
o-Terphenyl	90.4	60-130	%	1.00	04/08/2002 02:16	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-43-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-050
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 13:30	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/08/2002 11:00	
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 11:00	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 11:00	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 11:00	
<b>Surrogate(s)</b>						
o-Terphenyl	76.4	60-130	%	1.00	04/08/2002 11:00	

Submission #: 2002-04-0014

SEVERN

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TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-43-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-049
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 13:41	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	1.0	mg/Kg	1.00	04/09/2002 02:56	ndp
Motor Oil	320	50	mg/Kg	1.00	04/09/2002 02:56	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 02:56	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 02:56	
<b>Surrogate(s)</b>						
o-Terphenyl	87.0	60-130	%	1.00	04/09/2002 02:56	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-25-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-048
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 11:00	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	9.9	1.0	mg/Kg	1.00	04/09/2002 02:16	ndp
Motor Oil	59	50	mg/Kg	1.00	04/09/2002 02:16	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 02:16	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 02:16	
<b>Surrogate(s)</b>						
o-Terphenyl	80.9	60-130	%	1.00	04/09/2002 02:16	



Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-25-1.0-1.5-DUP</b>	Lab Sample ID: 2002-04-0014-047
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 10:40	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	69	1.0	mg/Kg	1.00	04/09/2002 02:56	ndp
Motor Oil	290	50	mg/Kg	1.00	04/09/2002 02:56	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 02:56	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 02:56	
<b>Surrogate(s)</b>						
o-Terphenyl	94.3	60-130	%	1.00	04/09/2002 02:56	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-23-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-046
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 08:10	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/09/2002 10:25	
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 10:25	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 10:25	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 10:25	
<b>Surrogate(s)</b>						
o-Terphenyl	78.6	60-130	%	1.00	04/09/2002 10:25	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-23-5.5-6.0</b>	Lab Sample ID: 2002-04-0014-045
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 08:05	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4.2	1.0	mg/Kg	1.00	04/09/2002 00:57	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 00:57	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 00:57	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 00:57	
<b>Surrogate(s)</b>						
o-Terphenyl	68.3	60-130	%	1.00	04/09/2002 00:57	

TEPH w/ Silica Gel Clean-up

**Iris Environmental**  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-23-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-044
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 08:00	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	17	1.0	mg/Kg	1.00	04/09/2002 11:05	ndp
Motor Oil	89	50	mg/Kg	1.00	04/09/2002 11:05	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 11:05	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 11:05	
<b>Surrogate(s)</b>						
o-Terphenyl	80.6	60-130	%	1.00	04/09/2002 11:05	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-22-7.5-8.0</b>	Lab Sample ID: 2002-04-0014-043
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 09:05	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.1	1.0	mg/Kg	1.00	04/09/2002 08:26	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 08:26	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 08:26	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 08:26	
<b>Surrogate(s)</b>						
o-Terphenyl	85.1	60-130	%	1.00	04/09/2002 08:26	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-22-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-042
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/09/2002 00:17	
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 00:17	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 00:17	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 00:17	
<b>Surrogate(s)</b>						
o-Terphenyl	81.7	60-130	%	1.00	04/09/2002 00:17	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: MFC-22-1.5-2.0	Lab Sample ID: 2002-04-0014-041
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 08:50	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/08/2002 21:37	
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 21:37	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 21:37	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 21:37	
<b>Surrogate(s)</b>						
o-Terphenyl	68.3	60-130	%	1.00	04/08/2002 21:37	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-21-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-040
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 09:40	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/08/2002 20:58	
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 20:58	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 20:58	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 20:58	
<b>Surrogate(s)</b>						
o-Terphenyl	68.6	60-130	%	1.00	04/08/2002 20:58	



Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-21-4.5-5.0	Lab Sample ID: 2002-04-0014-039
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/08/2002 22:17	
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 22:17	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 22:17	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 22:17	
<b>Surrogate(s)</b>						
o-Terphenyl	75.5	60-130	%	1.00	04/08/2002 22:17	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-21-1.5-2.0-DUP	Lab Sample ID: 2002-04-0014-038
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4.2	1.0	mg/Kg	1.00	04/09/2002 01:36	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 01:36	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 01:36	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 01:36	
<b>Surrogate(s)</b>						
o-Terphenyl	81.0	60-130	%	1.00	04/09/2002 01:36	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-21-1.5-2.0	Lab Sample ID: 2002-04-0014-037
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	7.9	1.0	mg/Kg	1.00	04/09/2002 07:54	ndp
Motor Oil	58	50	mg/Kg	1.00	04/09/2002 07:54	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 07:54	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 07:54	
<b>Surrogate(s)</b>						
o-Terphenyl	79.9	60-130	%	1.00	04/09/2002 07:54	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-36-4.5-5.0	Lab Sample ID: 2002-04-0014-036
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	10	mg/Kg	10.00	04/09/2002 11:00	ndp
Motor Oil	900	500	mg/Kg	10.00	04/09/2002 11:00	
Kerosene	ND	10	mg/Kg	10.00	04/09/2002 11:00	
Jet A	ND	10	mg/Kg	10.00	04/09/2002 11:00	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	10.00	04/09/2002 11:00	sd

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-36-1.5-2.0 DUP</b>	Lab Sample ID: 2002-04-0014-035
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.6	1.0	mg/Kg	1.00	04/09/2002 01:36	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 01:36	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 01:36	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 01:36	
<b>Surrogate(s)</b>						
o-Terphenyl	82.3	60-130	%	1.00	04/09/2002 01:36	

Submission #: 2002-04-0014

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TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-36-1.5-2.0	Lab Sample ID: 2002-04-0014-034
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:02
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	7.6	1.0	mg/Kg	1.00	04/09/2002 06:39	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 06:39	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 06:39	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 06:39	
<b>Surrogate(s)</b>						
o-Terphenyl	91.5	60-130	%	1.00	04/09/2002 06:39	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-34-GW</b>	Lab Sample ID: 2002-04-0014-033
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:20
Sampled: 03/28/2002	QC-Batch: 2002/04/05-05.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	100	ug/L	2.00	04/09/2002 06:39	
Motor Oil	ND	1000	ug/L	2.00	04/09/2002 06:39	
Kerosene	ND	100	ug/L	2.00	04/09/2002 06:39	
Jet A	ND	100	ug/L	2.00	04/09/2002 06:39	
<b>Surrogate(s)</b>						
o-Terphenyl	73.2	60-130	%	2.00	04/09/2002 06:39	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-7-GW</b>	Lab Sample ID: 2002-04-0014-031
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:20
Sampled: 03/28/2002	QC-Batch: 2002/04/05-05.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	260	240	ug/L	4.76	04/08/2002 09:41	ndp
Motor Oil	ND	2400	ug/L	4.76	04/08/2002 09:41	
Kerosene	ND	240	ug/L	4.76	04/08/2002 09:41	
Jet A	ND	240	ug/L	4.76	04/08/2002 09:41	
<b>Surrogate(s)</b>						
o-Terphenyl	74.8	60-130	%	4.76	04/08/2002 09:41	



Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-4-GW</b>	Lab Sample ID: 2002-04-0014-030
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:20
Sampled: 03/28/2002	QC-Batch: 2002/04/05-05.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	380	170	ug/L	3.33	04/08/2002 09:01	ndp
Motor Oil	ND	1700	ug/L	3.33	04/08/2002 09:01	
Kerosene	ND	170	ug/L	3.33	04/08/2002 09:01	
Jet A	ND	170	ug/L	3.33	04/08/2002 09:01	
<b>Surrogate(s)</b>						
o-Terphenyl	78.0	60-130	%	3.33	04/08/2002 09:01	

Submission #: 2002-04-0014

**SEVERN  
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TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>EB-032802</b>	Lab Sample ID: 2002-04-0014-029
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:20
Sampled: 03/28/2002 15:40	QC-Batch: 2002/04/05-05.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	56	ug/L	1.12	04/09/2002 06:02	
Motor Oil	ND	560	ug/L	1.12	04/09/2002 06:02	
Kerosene	ND	56	ug/L	1.12	04/09/2002 06:02	
Jet A	ND	56	ug/L	1.12	04/09/2002 06:02	
<b>Surrogate(s)</b>						
o-Terphenyl	78.1	60-130	%	1.12	04/09/2002 06:02	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-36-GW</b>	Lab Sample ID: 2002-04-0014-020
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 13:11
Sampled: 03/28/2002 15:00	QC-Batch: 2002/04/08-04.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	81	50	ug/L	1.00	04/09/2002 10:23	ndp
Motor Oil	ND	500	ug/L	1.00	04/09/2002 10:23	
Kerosene	ND	50	ug/L	1.00	04/09/2002 10:23	
Jet A	ND	50	ug/L	1.00	04/09/2002 10:23	
<b>Surrogate(s)</b>						
o-Terphenyl	71.1	60-130	%	1.00	04/09/2002 10:23	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-45-GW</b>	Lab Sample ID: 2002-04-0014-019
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:20
Sampled: 03/28/2002 14:30	QC-Batch: 2002/04/05-05.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	63	ug/L	1.25	04/08/2002 10:20	
Motor Oil	ND	630	ug/L	1.25	04/08/2002 10:20	
Kerosene	ND	63	ug/L	1.25	04/08/2002 10:20	
Jet A	ND	63	ug/L	1.25	04/08/2002 10:20	
<b>Surrogate(s)</b>						
o-Terphenyl	83.3	60-130	%	1.25	04/08/2002 10:20	

Submission #: 2002-04-0014

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TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-31-GW</b>	Lab Sample ID: 2002-04-0014-018
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:20
Sampled: 03/28/2002 13:45	QC-Batch: 2002/04/05-05.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	600000	50	ug/L	200.00	04/09/2002 09:08	ndp
Motor Oil	ND	100000	ug/L	200.00	04/09/2002 09:08	
Kerosene	ND	10000	ug/L	200.00	04/09/2002 09:08	
Jet A	ND	10000	ug/L	200.00	04/09/2002 09:08	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	200.00	04/09/2002 09:08	sd

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-3-GW</b>	Lab Sample ID: 2002-04-0014-017
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/05-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	70	ug/L	1.41	04/09/2002 09:06	
Motor Oil	ND	700	ug/L	1.41	04/09/2002 09:06	
Kerosene	ND	70	ug/L	1.41	04/09/2002 09:06	
Jet A	ND	70	ug/L	1.41	04/09/2002 09:06	
<b>Surrogate(s)</b>						
o-Terphenyl	85.3	60-130	%	1.41	04/09/2002 09:06	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-23-GW</b>	Lab Sample ID: 2002-04-0014-016
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 14:40	QC-Batch: 2002/04/05-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2002 20:18	
Motor Oil	ND	500	ug/L	1.00	04/08/2002 20:18	
Kerosene	ND	50	ug/L	1.00	04/08/2002 20:18	
Jet A	ND	50	ug/L	1.00	04/08/2002 20:18	
<b>Surrogate(s)</b>						
o-Terphenyl	75.7	60-130	%	1.00	04/08/2002 20:18	

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Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-27-GW</b>	Lab Sample ID: 2002-04-0014-014
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 10:30	QC-Batch: 2002/04/05-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	70	ug/L	1.41	04/08/2002 22:57	
Motor Oil	ND	700	ug/L	1.41	04/08/2002 22:57	
Kerosene	ND	70	ug/L	1.41	04/08/2002 22:57	
Jet A	ND	70	ug/L	1.41	04/08/2002 22:57	
<b>Surrogate(s)</b>						
o-Terphenyl	75.4	60-130	%	1.41	04/08/2002 22:57	



Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

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Test Method: 8015M  
Prep Method: 3550/8015M  
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CA DHS ELAP#1094

Sample ID: <b>MFC-2-GW</b>	Lab Sample ID: 2002-04-0014-013
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 13:10	QC-Batch: 2002/04/05-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2002 22:17	
Motor Oil	ND	500	ug/L	1.00	04/08/2002 22:17	
Kerosene	ND	50	ug/L	1.00	04/08/2002 22:17	
Jet A	ND	50	ug/L	1.00	04/08/2002 22:17	
<b>Surrogate(s)</b>						
o-Terphenyl	70.6	60-130	%	1.00	04/08/2002 22:17	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-13-GW</b>	Lab Sample ID: 2002-04-0014-012
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 08:45	QC-Batch: 2002/04/05-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	69	50	ug/L	1.00	04/09/2002 00:57	ndp
Motor Oil	510	500	ug/L	1.00	04/09/2002 00:57	
Kerosene	ND	50	ug/L	1.00	04/09/2002 00:57	
Jet A	ND	50	ug/L	1.00	04/09/2002 00:57	
<b>Surrogate(s)</b>						
o-Terphenyl	54.5	60-130	%	1.00	04/09/2002 00:57	sl

Submission #: 2002-04-0014



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Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-25-GW	Lab Sample ID: 2002-04-0014-011
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 12:20	QC-Batch: 2002/04/05-01.10
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	190	50	ug/L	1.00	04/08/2002 14:19	ndp
Motor Oil	1800	500	ug/L	1.00	04/08/2002 14:19	
Kerosene	ND	50	ug/L	1.00	04/08/2002 14:19	
Jet A	ND	50	ug/L	1.00	04/08/2002 14:19	
<b>Surrogate(s)</b>						
o-Terphenyl	50.3	60-130	%	1.00	04/08/2002 14:19	sl

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Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-11-GW</b>	Lab Sample ID: 2002-04-0014-010
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 11:55	QC-Batch: 2002/04/05-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	61	ug/L	1.22	04/09/2002 09:08	ndp
Motor Oil	1600	610	ug/L	1.22	04/09/2002 09:08	
Kerosene	ND	61	ug/L	1.22	04/09/2002 09:08	
Jet A	ND	61	ug/L	1.22	04/09/2002 09:08	
<b>Surrogate(s)</b>						
o-Terphenyl	65.6	60-130	%	1.22	04/09/2002 09:08	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

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Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-GW</b>	Lab Sample ID: 2002-04-0014-009
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 12:45	QC-Batch: 2002/04/05-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2002 21:37	
Motor Oil	ND	500	ug/L	1.00	04/08/2002 21:37	
Kerosene	ND	50	ug/L	1.00	04/08/2002 21:37	
Jet A	ND	50	ug/L	1.00	04/08/2002 21:37	
<b>Surrogate(s)</b>						
o-Terphenyl	72.6	60-130	%	1.00	04/08/2002 21:37	

Submission #: 2002-04-0014

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TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-12-GW</b>	Lab Sample ID: 2002-04-0014-008
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/05-01.10
Matrix: Water	
Sample/Analysis Flag: ri ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	9300	72	ug/L	1.45	04/08/2002 23:37	ndp
Motor Oil	990	720	ug/L	1.45	04/08/2002 23:37	
Kerosene	ND	72	ug/L	1.45	04/08/2002 23:37	
Jet A	ND	72	ug/L	1.45	04/08/2002 23:37	
<b>Surrogate(s)</b>						
o-Terphenyl	86.6	60-130	%	1.45	04/08/2002 23:37	

Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-26-GW</b>	Lab Sample ID: 2002-04-0014-007
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/28/2002 15:30	QC-Batch: 2002/04/05-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/09/2002 07:54	
Motor Oil	600	500	ug/L	1.00	04/09/2002 07:54	
Kerosene	ND	50	ug/L	1.00	04/09/2002 07:54	
Jet A	ND	50	ug/L	1.00	04/09/2002 07:54	
<b>Surrogate(s)</b>						
o-Terphenyl	66.7	60-130	%	1.00	04/09/2002 07:54	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-39-GW</b>	Lab Sample ID: 2002-04-0014-004
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/27/2002	QC-Batch: 2002/04/05-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	63	ug/L	1.27	04/08/2002 20:18	
Motor Oil	ND	630	ug/L	1.27	04/08/2002 20:18	
Kerosene	ND	63	ug/L	1.27	04/08/2002 20:18	
Jet A	ND	63	ug/L	1.27	04/08/2002 20:18	
<b>Surrogate(s)</b>						
o-Terphenyl	72.9	60-130	%	1.27	04/08/2002 20:18	



Submission #: 2002-04-0014



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>EB-032702</b>	Lab Sample ID: 2002-04-0014-001
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 08:33
Sampled: 03/27/2002 17:20	QC-Batch: 2002/04/05-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	58	ug/L	1.16	04/08/2002 20:58	
Motor Oil	ND	580	ug/L	1.16	04/08/2002 20:58	
Kerosene	ND	58	ug/L	1.16	04/08/2002 20:58	
Jet A	ND	58	ug/L	1.16	04/08/2002 20:58	
<b>Surrogate(s)</b>						
o-Terphenyl	76.7	60-130	%	1.16	04/08/2002 20:58	

## TEPH w/ Silica Gel Clean-up

Iris Environmental

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Attn: Chris Alger

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## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-032702	Water	03/27/2002 17:20	1
MFC-39-GW	Water	03/27/2002	4
MFC-26-GW	Water	03/28/2002 15:30	7
MFC-12-GW	Water	03/28/2002 09:15	8
MFC-1-GW	Water	03/28/2002 12:45	9
MFC-11-GW	Water	03/28/2002 11:55	10
MFC-25-GW	Water	03/28/2002 12:20	11
MFC-13-GW	Water	03/28/2002 08:45	12
MFC-2-GW	Water	03/28/2002 13:10	13
MFC-27-GW	Water	03/28/2002 10:30	14
MFC-23-GW	Water	03/28/2002 14:40	16
MFC-3-GW	Water	03/28/2002 14:00	17
MFC-31-GW	Water	03/28/2002 13:45	18
MFC-45-GW	Water	03/28/2002 14:30	19
MFC-36-GW	Water	03/28/2002 15:00	20
EB-032802	Water	03/28/2002 15:40	29
MFC-4-GW	Water	03/28/2002	30
MFC-7-GW	Water	03/28/2002	31
MFC-34-GW	Water	03/28/2002	33
MFC-36-1.5-2.0	Soil	03/28/2002 13:50	34
MFC-36-1.5-2.0 DUP	Soil	03/28/2002 13:50	35
MFC-36-4.5-5.0	Soil	03/28/2002 14:00	36
MFC-21-1.5-2.0	Soil	03/28/2002 09:30	37
MFC-21-1.5-2.0-DUP	Soil	03/28/2002 09:30	38
MFC-21-4.5-5.0	Soil	03/28/2002 09:35	39
MFC-21-8.0-8.5	Soil	03/28/2002 09:40	40
MFC-22-1.5-2.0	Soil	03/28/2002 08:50	41
MFC-22-4.5-5.0	Soil	03/28/2002 08:55	42
MFC-22-7.5-8.0	Soil	03/28/2002 09:05	43
MFC-23-1.5-2.0	Soil	03/28/2002 08:00	44
MFC-23-5.5-6.0	Soil	03/28/2002 08:05	45
MFC-23-8.0-8.5	Soil	03/28/2002 08:10	46
MFC-25-1.0-1.5-DUP	Soil	03/28/2002 10:40	47
MFC-25-4.5-5.0	Soil	03/28/2002 11:00	48
MFC-43-1.5-2.0	Soil	03/28/2002 13:41	49
MFC-43-4.5-5.0	Soil	03/28/2002 13:30	50
MFC-45-1.5-2.0	Soil	03/28/2002 12:52	51
MFC-45-4.5-5.0	Soil	03/28/2002 12:54	52

Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/09-01.03**  
 LCS: 2002/04/09-01.03-004 Extracted: 04/09/2002 10:14 Analyzed: 04/09/2002 10:14  
 LCSD: 2002/04/09-01.03-005 Extracted: 04/09/2002 10:44 Analyzed: 04/09/2002 10:44

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.481	0.462	0.500	0.500	96.2	92.4	4.0	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	364	346	500	500	72.8	69.2		58-124			

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/09-01.03**  
 LCS: 2002/04/09-01.03-002 Extracted: 04/09/2002 09:12 Analyzed: 04/09/2002 09:12  
 LCSD: 2002/04/09-01.03-003 Extracted: 04/09/2002 09:43 Analyzed: 04/09/2002 09:43

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.101	0.0967	0.1000	0.1000	101.0	96.7	4.4	77-123	35		
Toluene	0.0977	0.0931	0.1000	0.1000	97.7	93.1	4.8	78-122	35		
Ethyl benzene	0.0950	0.0920	0.1000	0.1000	95.0	92.0	3.2	70-130	35		
Xylene(s)	0.284	0.279	0.300	0.300	94.7	93.0	1.8	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	441	427	500	500	88.2	85.4		53-125			

Submission #: 2002-04-0014

Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/09-01.01**  
LCS: 2002/04/09-01.01-006 Extracted: 04/09/2002 09:59 Analyzed: 04/09/2002 09:59  
LCSD: 2002/04/09-01.01-007 Extracted: 04/09/2002 10:29 Analyzed: 04/09/2002 10:29

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.507	0.482	0.500	0.500	101.4	96.4	5.1	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	433	413	500	500	86.6	82.6		58-124			

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/09-01.01**  
 LCS: 2002/04/09-01.01-004 Extracted: 04/09/2002 08:59 Analyzed: 04/09/2002 08:59  
 LCSD: 2002/04/09-01.01-005 Extracted: 04/09/2002 09:29 Analyzed: 04/09/2002 09:29

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0931	0.0960	0.1000	0.1000	93.1	96.0	3.1	77-123	35		
Toluene	0.0975	0.0996	0.1000	0.1000	97.5	99.6	2.1	78-122	35		
Ethyl benzene	0.0943	0.0977	0.1000	0.1000	94.3	97.7	3.5	70-130	35		
Xylene(s)	0.288	0.298	0.300	0.300	96.0	99.3	3.4	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	495	497	500	500	99.0	99.4		53-125			

Gas/BTEX by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.01**  
 LCS: 2002/04/08-01.01-008 Extracted: 04/08/2002 08:17 Analyzed: 04/08/2002 08:17  
 LCSD: 2002/04/08-01.01-005 Extracted: 04/08/2002 08:47 Analyzed: 04/08/2002 08:47

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0970	0.0980	0.1000	0.1000	97.0	98.0	1.0	77-123	35		
Toluene	0.101	0.102	0.1000	0.1000	101.0	102.0	1.0	78-122	35		
Ethyl benzene	0.0984	0.0984	0.1000	0.1000	98.4	98.4	0.0	70-130	35		
Xylene(s)	0.297	0.303	0.300	0.300	99.0	101.0	2.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	570	588	500	500	114.0	117.6		53-125	0		

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.01  
LCS: 2002/04/08-01.01-006 Extracted: 04/08/2002 09:17 Analyzed: 04/08/2002 09:17  
LCSD: 2002/04/08-01.01-007 Extracted: 04/08/2002 09:47 Analyzed: 04/08/2002 09:47

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.525	0.529	0.500	0.500	105.0	105.8	0.8	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	517	517	500	500	103.4	103.4		58-124			









Submission #: 2002-04-0014

Gas/BTEX by 8015M/8021

**SEVERN  
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SERVICES**

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-45-1.5-2.0	Lab Sample ID: 2002-04-0014-051
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 11:58
Sampled: 03/28/2002 12:52	QC-Batch: 2002/04/09-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 11:58	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:58	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:58	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 11:58	
<b>Surrogate(s)</b>						
Trifluorotoluene	102.7	53-125	%	1.00	04/09/2002 11:58	
4-Bromofluorobenzene-FID	75.8	58-124	%	1.00	04/09/2002 11:58	

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-43-1.5-2.0	Lab Sample ID: 2002-04-0014-049
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 11:27
Sampled: 03/28/2002 13:41	QC-Batch: 2002/04/09-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 11:27	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:27	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:27	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:27	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 11:27	
<b>Surrogate(s)</b>						
Trifluorotoluene	87.0	53-125	%	1.00	04/09/2002 11:27	
4-Bromofluorobenzene-FID	66.5	58-124	%	1.00	04/09/2002 11:27	

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-25-1.0-1.5-DUP	Lab Sample ID: 2002-04-0014-047
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 22:51
Sampled: 03/28/2002 10:40	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 22:51	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 22:51	
Toluene	ND	0.0050	mg/Kg	1.00	04/08/2002 22:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 22:51	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/08/2002 22:51	
<b>Surrogate(s)</b>						
Trifluorotoluene	74.3	53-125	%	1.00	04/08/2002 22:51	
4-Bromofluorobenzene-FID	68.6	58-124	%	1.00	04/08/2002 22:51	

Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-23-1.5-2.0	Lab Sample ID: 2002-04-0014-044
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 11:38
Sampled: 03/28/2002 08:00	QC-Batch: 2002/04/09-01.01
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 11:38	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:38	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:38	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 11:38	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 11:38	
<b>Surrogate(s)</b>						
Trifluorotoluene	94.0	53-125	%	1.00	04/09/2002 11:38	
4-Bromofluorobenzene-FID	82.0	58-124	%	1.00	04/09/2002 11:38	

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-22-1.5-2.0	Lab Sample ID: 2002-04-0014-041
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 23:51
Sampled: 03/28/2002 08:50	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 23:51	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 23:51	
Toluene	ND	0.0050	mg/Kg	1.00	04/08/2002 23:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 23:51	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/08/2002 23:51	
<b>Surrogate(s)</b>						
Tnfluorotoluene	84.0	53-125	%	1.00	04/08/2002 23:51	
4-Bromofluorobenzene-FID	79.9	58-124	%	1.00	04/08/2002 23:51	



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: <b>MFC-21-1.5-2.0-DUP</b>	Lab Sample ID: 2002-04-0014-038
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 13:38
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/09-01.01
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 13:38	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 13:38	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 13:38	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 13:38	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 13:38	
<b>Surrogate(s)</b>						
Trifluorotoluene	86.5	53-125	%	1.00	04/09/2002 13:38	
4-Bromofluorobenzene-FID	78.0	58-124	%	1.00	04/09/2002 13:38	

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-21-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-037
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 13:08
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/09-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 13:08	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 13:08	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 13:08	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 13:08	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 13:08	
<b>Surrogate(s)</b>						
Trifluorotoluene	87.7	53-125	%	1.00	04/09/2002 13:08	
4-Bromofluorobenzene-FID	75.0	58-124	%	1.00	04/09/2002 13:08	

Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: <b>MFC-36-1.5-2.0 DUP</b>	Lab Sample ID: 2002-04-0014-035
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 12:38
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/09-01.01
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 12:38	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 12:38	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 12:38	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 12:38	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 12:38	
<b>Surrogate(s)</b>						
Trifluorotoluene	94.0	53-125	%	1.00	04/09/2002 12:38	
4-Bromofluorobenzene-FID	87.4	58-124	%	1.00	04/09/2002 12:38	

Submission #: 2002-04-0014



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-36-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-034
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 12:08
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/09-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 12:08	
Benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 12:08	
Toluene	ND	0.0050	mg/Kg	1.00	04/09/2002 12:08	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/09/2002 12:08	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/09/2002 12:08	
<b>Surrogate(s)</b>						
Trifluorotoluene	81.9	53-125	%	1.00	04/09/2002 12:08	
4-Bromofluorobenzene-FID	73.6	58-124	%	1.00	04/09/2002 12:08	

<b>Iris Environmental</b>	✉ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A	Project: 7th St.
SitePort of Oakland	

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
MFC-36-1.5-2.0	Soil	03/28/2002 13:50	34
MFC-36-1.5-2.0 DUP	Soil	03/28/2002 13:50	35
MFC-21-1.5-2.0	Soil	03/28/2002 09:30	37
MFC-21-1.5-2.0-DUP	Soil	03/28/2002 09:30	38
MFC-22-1.5-2.0	Soil	03/28/2002 08:50	41
MFC-23-1.5-2.0	Soil	03/28/2002 08:00	44
MFC-25-1.0-1.5-DUP	Soil	03/28/2002 10:40	47
MFC-43-1.5-2.0	Soil	03/28/2002 13:41	49
MFC-45-1.5-2.0	Soil	03/28/2002 12:52	51

Submission #: 2002-04-0014



Hexavalent Chromium

**Legend & Notes**

Test Method: 7196A

Prep Method: 7196A water  
7196A soil

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**Notes**

CA DHS ELAP#1094

EB032702 - Laboratory received this sample after the recommended hold time had expired. Recommended hold time is 24 hours for this analysis.

Submission #: 2002-04-0014



Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/05-01.31  
LCS: 2002/04/05-01.31-002    Extracted: 04/05/2002 10:30    Analyzed: 04/05/2002 10:35  
LCSD: 2002/04/05-01.31-003    Extracted: 04/05/2002 10:30    Analyzed: 04/05/2002 10:35

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chromium (Hexavalent)	1.90	1.90	2.00	2.00	95.0	95.0	0.0	80-120	20		

Submission #: 2002-04-0014



Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A water

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**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/29-01.31**  
LCS: 2002/03/29-01.31-002 Extracted: 03/29/2002 09:00 Analyzed: 03/29/2002 09:05  
LCSD: 2002/03/29-01.31-003 Extracted: 03/29/2002 09:00 Analyzed: 03/29/2002 09:05

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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
Chromium (Hexavalent)	0.200	0.200	0.200	0.200	100.0	100.0	0.0	80-120	20		





Submission #: 2002-04-0014



Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A  
water

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<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/03/29-01.31</b>
MB: 2002/03/29-01.31-001		Date Extracted: 03/29/2002 09:00

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Chromium (Hexavalent)	ND	0.01	mg/L	03/29/2002 09:05	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-45-4.5-5.0	Lab Sample ID: 2002-04-0014-052
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 12:54	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-45-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-051
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 12:52	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID: <b>MFC-43-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-050
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 13:30	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-43-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-049
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 13:41	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-25-4.5-5.0	Lab Sample ID: 2002-04-0014-048
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 11:00	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014

**SEVERN  
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SERVICES**

Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-25-1.0-1.5-DUP</b>	Lab Sample ID: 2002-04-0014-047
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 10:40	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	



Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Sample ID: MFC-23-8.0-8.5	Lab Sample ID: 2002-04-0014-046
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 08:10	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Pleasanton, CA 94566

Sample ID: <b>MFC-23-5.5-6.0</b>	Lab Sample ID: 2002-04-0014-045
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 08:05	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Sample ID: MFC-23-1.5-2.0	Lab Sample ID: 2002-04-0014-044
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 08:00	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014

SEVERN

TRENT

SERVICES

Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A water  
7196A soil

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Sample ID: MFC-22-7.5-8.0	Lab Sample ID: 2002-04-0014-043
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 09:05	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Sample ID: MFC-22-4.5-5.0	Lab Sample ID: 2002-04-0014-042
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Sample ID: <b>MFC-22-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-041
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 08:50	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Pleasanton, CA 94566

Sample ID: MFC-21-8.0-8.5	Lab Sample ID: 2002-04-0014-040
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 09:40	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Sample ID: <b>MFC-21-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-039
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	



Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Sample ID: MFC-21-1.5-2.0-DUP	Lab Sample ID: 2002-04-0014-038
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014

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Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Pleasanton, CA 94566

Sample ID: <b>MFC-21-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-037
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-36-4.5-5.0	Lab Sample ID: 2002-04-0014-036
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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Pleasanton, CA 94566

Sample ID: <b>MFC-36-1.5-2.0 DUP</b>	Lab Sample ID: 2002-04-0014-035
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-36-1.5-2.0	Lab Sample ID: 2002-04-0014-034
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 10:30
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/05/2002 10:35	

Submission #: 2002-04-0014

**SEVERN**  
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Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A water  
7196A soil

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Sample ID: <b>EB-032802</b>	Lab Sample ID: 2002-04-0014-029
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 03/29/2002 09:00
Sampled: 03/28/2002 15:40	QC-Batch: 2002/03/29-01.31
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.010	mg/L	1.00	03/29/2002 09:05	

Submission #: 2002-04-0014



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A water  
7196A soil

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CA DHS ELAP#1094

Sample ID: <b>EB-032702</b>	Lab Sample ID: 2002-04-0014-001
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 03/29/2002 09:00
Sampled: 03/27/2002 17:20	QC-Batch: 2002/03/29-01.31
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.010	mg/L	1.00	03/29/2002 09:05	

Hexavalent Chromium

<b>Iris Environmental</b>	✉ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A SitePort of Oakland	Project: 7th St.

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-032702	Water	03/27/2002 17:20	1
EB-032802	Water	03/28/2002 15:40	29
MFC-36-1.5-2.0	Soil	03/28/2002 13:50	34
MFC-36-1.5-2.0 DUP	Soil	03/28/2002 13:50	35
MFC-36-4.5-5.0	Soil	03/28/2002 14:00	36
MFC-21-1.5-2.0	Soil	03/28/2002 09:30	37
MFC-21-1.5-2.0-DUP	Soil	03/28/2002 09:30	38
MFC-21-4.5-5.0	Soil	03/28/2002 09:35	39
MFC-21-8.0-8.5	Soil	03/28/2002 09:40	40
MFC-22-1.5-2.0	Soil	03/28/2002 08:50	41
MFC-22-4.5-5.0	Soil	03/28/2002 08:55	42
MFC-22-7.5-8.0	Soil	03/28/2002 09:05	43
MFC-23-1.5-2.0	Soil	03/28/2002 08:00	44
MFC-23-5.5-6.0	Soil	03/28/2002 08:05	45
MFC-23-8.0-8.5	Soil	03/28/2002 08:10	46
MFC-25-1.0-1.5-DUP	Soil	03/28/2002 10:40	47
MFC-25-4.5-5.0	Soil	03/28/2002 11:00	48
MFC-43-1.5-2.0	Soil	03/28/2002 13:41	49
MFC-43-4.5-5.0	Soil	03/28/2002 13:30	50
MFC-45-1.5-2.0	Soil	03/28/2002 12:52	51
MFC-45-4.5-5.0	Soil	03/28/2002 12:54	52



Submission #: 2002-04-0014



Gasoline

Legend & Notes

Test Method: 8015M

Prep Method: 5030  
5035

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Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

CA DHS ELAP#1094

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/09-01.01**  
 LCS: 2002/04/09-01.01-006 Extracted: 04/09/2002 09:59 Analyzed: 04/09/2002 09:59  
 LCSD: 2002/04/09-01.01-007 Extracted: 04/09/2002 10:29 Analyzed: 04/09/2002 10:29

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <i>Surrogate(s)</i>	0.507	0.482	0.500	0.500	101.4	96.4	5.1	75-125	35		
4-Bromofluorobenzene	433	413	500	500	86.6	82.6		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.03**  
 LCS: 2002/04/08-01.03-006 Extracted: 04/08/2002 09:21 Analyzed: 04/08/2002 09:21  
 LCSD: 2002/04/08-01.03-007 Extracted: 04/08/2002 09:52 Analyzed: 04/08/2002 09:52

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.470	0.480	0.500	0.500	94.0	96.0	2.1	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	396	408	500	500	79.2	81.6		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/08-01.01**  
 LCS: 2002/04/08-01.01-006 Extracted: 04/08/2002 09:17 Analyzed: 04/08/2002 09:17  
 LCSD: 2002/04/08-01.01-007 Extracted: 04/08/2002 09:47 Analyzed: 04/08/2002 09:47

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.525	0.529	0.500	0.500	105.0	105.8	0.8	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	517	517	500	500	103.4	103.4		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5030

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/04/04-01.05**  
 LCS: 2002/04/04-01.05-002    Extracted: 04/04/2002 07:25    Analyzed: 04/04/2002 07:25  
 LCSD: 2002/04/04-01.05-003    Extracted: 04/04/2002 07:57    Analyzed: 04/04/2002 07:57

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD [%]	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recover	RPD	LCS	LCSD
Gasoline	517	514	500	500	103.4	102.8	0.6	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	477	490	500	500	95.4	98.0		50-150			

Gasoline

Batch QC report

Test Method: 8015M

Prep Method: 5030

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**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/03-01.05**  
 LCS: 2002/04/03-01.05-002 Extracted: 04/03/2002 07:17 Analyzed: 04/03/2002 07:17  
 LCSD: 2002/04/03-01.05-003 Extracted: 04/03/2002 07:49 Analyzed: 04/03/2002 07:49

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Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits (%)		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	518	513	500	500	103.6	102.6	1.0	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	465	481	500	500	93.0	96.2		50-150			









Submission #: 2002-04-0014

SEVERN

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Gasoline

Batch QC report

Test Method: 8015M

Prep Method: 5030

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Method Blank

Water

QC Batch # 2002/04/04-01.05

MB: 2002/04/04-01.05-004

Date Extracted: 04/04/2002 08:29

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/04/2002 08:29	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	84.6	50-150	%	04/04/2002 08:29	



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-45-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-052
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 00:36
Sampled: 03/28/2002 12:54	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 00:36	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	71.6	58-124	%	1.00	04/09/2002 00:36	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-43-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-050
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 23:35
Sampled: 03/28/2002 13:30	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 23:35	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	76.8	58-124	%	1.00	04/08/2002 23:35	

Submission #: 2002-04-0014

Gasoline

SEVERN

TRENT

SERVICES

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 5030  
5035

STL San Francisco  
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Sample ID: MFC-25-4.5-5.0	Lab Sample ID: 2002-04-0014-048
Project: 01-201-A 7th St	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 23:21
Sampled: 03/28/2002 11:00	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 23:21	
<i>Surrogate(s)</i>						
Trifluorotoluene-FID	64.0	53-125	%	1.00	04/08/2002 23:21	



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: MFC-23-8.0-8.5	Lab Sample ID: 2002-04-0014-046
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 22:21
Sampled: 03/28/2002 08:10	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 22:21	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	58.7	58-124	%	1.00	04/08/2002 22:21	

Submission #: 2002-04-0014

Gasoline



Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-23-5.5-6.0</b>	Lab Sample ID: 2002-04-0014-045
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 21:51
Sampled: 03/28/2002 08:05	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 21:51	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	70.4	58-124	%	1.00	04/08/2002 21:51	





Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-22-7.5-8.0</b>	Lab Sample ID: 2002-04-0014-043
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 21:21
Sampled: 03/28/2002 09:05	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 21:21	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	63.6	58-124	%	1.00	04/08/2002 21:21	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-22-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-042
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 11:08
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/09-01.01
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/09/2002 11:08	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	71.6	58-124	%	1.00	04/09/2002 11:08	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

STL San Francisco  
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Sample ID: <b>MFC-21-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-040
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 20:31
Sampled: 03/28/2002 09:40	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 20:31	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	72.6	58-124	%	1.00	04/08/2002 20:31	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-21-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-039
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 20:01
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 20:01	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	79.9	58-124	%	1.00	04/08/2002 20:01	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: MFC-36-4.5-5.0	Lab Sample ID: 2002-04-0014-036
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 18:28
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 18:28	
<i>Surrogate(s)</i>						
Trifluorotoluene-FID	73.9	53-125	%	1.00	04/08/2002 18:28	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-34-GW</b>	Lab Sample ID: 2002-04-0014-033
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 16:50
Sampled: 03/28/2002	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 16:50	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	74.5	50-150	%	1.00	04/04/2002 16:50	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

STL San Francisco  
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Sample ID: <b>MFC-28-GW</b>	Lab Sample ID: 2002-04-0014-032
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 16:18
Sampled: 03/27/2002 15:30	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 16:18	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	80.6	50-150	%	1.00	04/04/2002 16:18	

Submission #: 2002-04-0014

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Gasoline

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 5030  
5035

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Sample ID: <b>MFC-4-GW</b>	Lab Sample ID: 2002-04-0014-030
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 15:46
Sampled: 03/28/2002	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	180	50	ug/L	1.00	04/04/2002 15:46	g
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	73.2	50-150	%	1.00	04/04/2002 15:46	



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>EB-032802</b>	Lab Sample ID: 2002-04-0014-029
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:25
Sampled: 03/28/2002 15:40	QC-Batch: 2002/04/04-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 14:25	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	73.8	50-150	%	1.00	04/04/2002 14:25	

Submission #: 2002-04-0014

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: MFC-36-GW	Lab Sample ID: 2002-04-0014-020
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 13:53
Sampled: 03/28/2002 15:00	QC-Batch: 2002/04/04-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	94	50	ug/L	1.00	04/04/2002 13:53	g
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	84.5	50-150	%	1.00	04/04/2002 13:53	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: MFC-3-GW	Lab Sample ID: 2002-04-0014-017
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 13:21
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/04-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 13:21	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	74.7	50-150	%	1.00	04/04/2002 13:21	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-23-GW</b>	Lab Sample ID: 2002-04-0014-016
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 12:49
Sampled: 03/28/2002 14:40	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 12:49	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	70.9	50-150	%	1.00	04/04/2002 12:49	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>TB032802B</b>	Lab Sample ID: 2002-04-0014-015
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 12:16
Sampled: 03/28/2002 16:15	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 12:16	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	75.8	50-150	%	1.00	04/04/2002 12:16	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-2-GW</b>	Lab Sample ID: 2002-04-0014-013
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 11:44
Sampled: 03/28/2002 13:10	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 11:44	
<b>Surrogate(s)</b> 4-Bromofluorobenzene-FID	76.9	50-150	%	1.00	04/04/2002 11:44	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-13-GW</b>	Lab Sample ID: 2002-04-0014-012
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 11:12
Sampled: 03/28/2002 08:45	QC-Batch: 2002/04/04-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 11:12	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	70.9	50-150	%	1.00	04/04/2002 11:12	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-1-GW</b>	Lab Sample ID: 2002-04-0014-009
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 10:40
Sampled: 03/28/2002 12:45	QC-Batch: 2002/04/04-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 10:40	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	76.7	50-150	%	1.00	04/04/2002 10:40	



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-12-GW</b>	Lab Sample ID: 2002-04-0014-008
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 10:01
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/04-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	680	500	ug/L	10.00	04/04/2002 10:01	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	67.5	50-150	%	10.00	04/04/2002 10:01	

Submission #: 2002-04-0014

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-26-GW</b>	Lab Sample ID: 2002-04-0014-007
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 00:34
Sampled: 03/28/2002 15:30	QC-Batch: 2002/04/03-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 00:34	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	67.1	50-150	%	1.00	04/04/2002 00:34	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>TB032802A</b>	Lab Sample ID: 2002-04-0014-005
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 00:02
Sampled: 03/28/2002 15:45	QC-Batch: 2002/04/03-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/04/2002 00:02	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	70.2	50-150	%	1.00	04/04/2002 00:02	

Submission #: 2002-04-0014

Gasoline



Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>TB032702C</b>	Lab Sample ID: 2002-04-0014-002
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/03/2002 23:29
Sampled: 03/27/2002 17:30	QC-Batch: 2002/04/03-01.05
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/03/2002 23:29	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	73.9	50-150	%	1.00	04/03/2002 23:29	

Submission #: 2002-04-0014



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>EB-032702</b>	Lab Sample ID: 2002-04-0014-001
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/03/2002 22:57
Sampled: 03/27/2002 17:20	QC-Batch: 2002/04/03-01.05
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/03/2002 22:57	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	80.6	50-150	%	1.00	04/03/2002 22:57	



Gasoline

<b>Iris Environmental</b>	✉ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A SitePort of Oakland	Project: 7th St.

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-032702	Water	03/27/2002 17:20	1
TB032702C	Water	03/27/2002 17:30	2
TB032802A	Water	03/28/2002 15:45	5
MFC-26-GW	Water	03/28/2002 15:30	7
MFC-12-GW	Water	03/28/2002 09:15	8
MFC-1-GW	Water	03/28/2002 12:45	9
MFC-13-GW	Water	03/28/2002 08:45	12
MFC-2-GW	Water	03/28/2002 13:10	13
TB032802B	Water	03/28/2002 16:15	15
MFC-23-GW	Water	03/28/2002 14:40	16
MFC-3-GW	Water	03/28/2002 14:00	17
MFC-36-GW	Water	03/28/2002 15:00	20
EB-032802	Water	03/28/2002 15:40	29
MFC-4-GW	Water	03/28/2002	30
MFC-28-GW	Water	03/27/2002 15:30	32
MFC-34-GW	Water	03/28/2002	33
MFC-36-4.5-5.0	Soil	03/28/2002 14:00	36
MFC-21-4.5-5.0	Soil	03/28/2002 09:35	39
MFC-21-8.0-8.5	Soil	03/28/2002 09:40	40
MFC-22-4.5-5.0	Soil	03/28/2002 08:55	42
MFC-22-7.5-8.0	Soil	03/28/2002 09:05	43
MFC-23-5.5-6.0	Soil	03/28/2002 08:05	45
MFC-23-8.0-8.5	Soil	03/28/2002 08:10	46
MFC-25-4.5-5.0	Soil	03/28/2002 11:00	48
MFC-43-4.5-5.0	Soil	03/28/2002 13:30	50
MFC-45-4.5-5.0	Soil	03/28/2002 12:54	52



CAM 17 Metals  
Batch QC report

Test Method: 7471A

Prep Method: 7471A

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/05-03.16**  
 LCS: 2002/04/05-03.16-133 Extracted: 04/05/2002 14:06 Analyzed: 04/08/2002 15:50  
 LCSD: 2002/04/05-03.16-134 Extracted: 04/05/2002 14:06 Analyzed: 04/08/2002 15:51

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS	LCSD
Mercury	0.497	0.500	0.500	0.500	99.4	100.0	0.6	85-115	20			

CAM 17 Metals  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-04.15**  
 LCS: 2002/04/05-04.15-036 Extracted: 04/05/2002 14:05 Analyzed: 04/08/2002 09:20  
 LCSD: 2002/04/05-04.15-037 Extracted: 04/05/2002 14:05 Analyzed: 04/08/2002 09:23

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Antimony	105	108	100.0	100.0	105.0	108.0	2.8	80-120	20		
Arsenic	107	108	100.0	100.0	107.0	108.0	0.9	80-120	20		
Barium	98.8	100	100.0	100.0	98.8	100.0	1.2	80-120	20		
Beryllium	101	102	100.0	100.0	101.0	102.0	1.0	80-120	20		
Cadmium	100	101	100.0	100.0	100.0	101.0	1.0	80-120	20		
Chromium	101	103	100.0	100.0	101.0	103.0	2.0	80-120	20		
Cobalt	97.5	98.8	100.0	100.0	97.5	98.8	1.3	80-120	20		
Copper	102	103	100.0	100.0	102.0	103.0	1.0	80-120	20		
Lead	98.3	99.8	100.0	100.0	98.3	99.8	1.5	80-120	20		
Molybdenum	102	104	100.0	100.0	102.0	104.0	1.9	80-120	20		
Nickel	97.5	98.8	100.0	100.0	97.5	98.8	1.3	80-120	20		
Selenium	97.5	98.5	100.0	100.0	97.5	98.5	1.0	80-120	20		
Silver	101	99.7	100.0	100.0	101.0	99.7	1.3	80-120	20		
Thallium	96.2	97.7	100.0	100.0	96.2	97.7	1.5	80-120	20		
Vanadium	105	106	100.0	100.0	105.0	106.0	0.9	80-120	20		
Zinc	100	101	100.0	100.0	100.0	101.0	1.0	80-120	20		



CAM 17 Metals  
Batch QC report

Test Method: 6010B

Prep Method: 3050B

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-02.15**  
 LCS: 2002/04/05-02.15-041 Extracted: 04/05/2002 06:37 Analyzed: 04/05/2002 10:06  
 LCSD: 2002/04/05-02.15-042 Extracted: 04/05/2002 06:37 Analyzed: 04/05/2002 10:09

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery			RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD	
Antimony	102	102	100.0	100.0	102.0	102.0	0.0	80-120	20			
Arsenic	103	102	100.0	100.0	103.0	102.0	1.0	80-120	20			
Barium	97.6	96.8	100.0	100.0	97.6	96.8	0.8	80-120	20			
Beryllium	99.9	98.8	100.0	100.0	99.9	98.8	1.1	80-120	20			
Cadmium	99.2	98.5	100.0	100.0	99.2	98.5	0.7	80-120	20			
Chromium	101	99.7	100.0	100.0	101.0	99.7	1.3	80-120	20			
Cobalt	95.7	95.0	100.0	100.0	95.7	95.0	0.7	80-120	20			
Copper	98.6	97.2	100.0	100.0	98.6	97.2	1.4	80-120	20			
Lead	97.6	96.6	100.0	100.0	97.6	96.6	1.0	80-120	20			
Molybdenum	101	99.9	100.0	100.0	101.0	99.9	1.1	80-120	20			
Nickel	96.5	95.8	100.0	100.0	96.5	95.8	0.7	80-120	20			
Selenium	94.2	93.0	100.0	100.0	94.2	93.0	1.3	80-120	20			
Silver	99.3	98.2	100.0	100.0	99.3	98.2	1.1	80-120	20			
Thallium	94.8	93.5	100.0	100.0	94.8	93.5	1.4	80-120	20			
Vanadium	103	102	100.0	100.0	103.0	102.0	1.0	80-120	20			
Zinc	101	100.0	100.0	100.0	101.0	100.0	1.0	80-120	20			

Submission #: 2002-04-0014



CAM 17 Metals  
Batch QC report

Test Method: 7471A

Prep Method: 7471A

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.16**  
LCS: 2002/04/05-01.16-012 Extracted: 04/05/2002 06:38 Analyzed: 04/05/2002 09:17  
LCSD: 2002/04/05-01.16-013 Extracted: 04/05/2002 06:38 Analyzed: 04/05/2002 09:18

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits (%)		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		(%)	Recover	RPD	LCS
Mercury	0.497	0.512	0.500	0.500	99.4	102.4	3.0	85-115	20		

Submission #: 2002-04-0014



CAM 17 Metals  
Batch QC report

Test Method: 7470A

Prep Method: 7470A

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Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/03-01.16  
LCS: 2002/04/03-01.16-043 Extracted: 04/03/2002 11:18 Analyzed: 04/03/2002 13:15  
LCSD: 2002/04/03-01.16-044 Extracted: 04/03/2002 11:18 Analyzed: 04/03/2002 13:16

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
Mercury	0.0217	0.0215	0.0200	0.0200	108.5	107.5	0.9	85-115	20		

CAM 17 Metals  
Batch QC report

Test Method: 6010B

Prep Method: 3010A

STL San Francisco  
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**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/03-02.15**  
 LCS: 2002/04/03-02.15-050 Extracted: 04/03/2002 05:38 Analyzed: 04/03/2002 10:07  
 LCSD: 2002/04/03-02.15-051 Extracted: 04/03/2002 05:38 Analyzed: 04/03/2002 10:11

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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
Antimony	0.481	0.486	0.500	0.500	96.2	97.2	1.0	80-120	20		
Arsenic	0.443	0.451	0.500	0.500	88.6	90.2	1.8	80-120	20		
Barium	0.488	0.496	0.500	0.500	97.6	99.2	1.6	80-120	20		
Beryllium	0.490	0.496	0.500	0.500	98.0	99.2	1.2	80-120	20		
Cadmium	0.503	0.510	0.500	0.500	100.6	102.0	1.4	80-120	20		
Chromium	0.497	0.505	0.500	0.500	99.4	101.0	1.6	80-120	20		
Cobalt	0.482	0.489	0.500	0.500	96.4	97.8	1.4	80-120	20		
Copper	0.487	0.495	0.500	0.500	97.4	99.0	1.6	80-120	20		
Lead	0.496	0.501	0.500	0.500	99.2	100.2	1.0	80-120	20		
Molybdenum	0.496	0.503	0.500	0.500	99.2	100.6	1.4	80-120	20		
Nickel	0.484	0.492	0.500	0.500	96.8	98.4	1.6	80-120	20		
Selenium	0.487	0.492	0.500	0.500	97.4	98.4	1.0	80-120	20		
Silver	0.490	0.497	0.500	0.500	98.0	99.4	1.4	80-120	20		
Thallium	0.498	0.504	0.500	0.500	99.6	100.8	1.2	80-120	20		
Vanadium	0.494	0.503	0.500	0.500	98.8	100.6	1.8	80-120	20		
Zinc	0.501	0.510	0.500	0.500	100.2	102.0	1.8	80-120	20		













Submission #: 2002-04-0014



CAM 17 Metals

Batch QC report

Test Method: 6010B

Prep Method: 3010A

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Method Blank

Water

QC Batch # 2002/04/03-02.15

MB: 2002/04/03-02.15-049

Date Extracted: 04/03/2002 05:38

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Antimony	ND	0.0050	mg/L	04/03/2002 10:02	
Arsenic	ND	0.0050	mg/L	04/03/2002 10:02	
Barium	ND	0.0050	mg/L	04/03/2002 10:02	
Beryllium	ND	0.0050	mg/L	04/03/2002 10:02	
Cadmium	ND	0.0020	mg/L	04/03/2002 10:02	
Chromium	ND	0.0050	mg/L	04/03/2002 10:02	
Cobalt	ND	0.0050	mg/L	04/03/2002 10:02	
Copper	ND	0.0050	mg/L	04/03/2002 10:02	
Lead	ND	0.0050	mg/L	04/03/2002 10:02	
Molybdenum	ND	0.0050	mg/L	04/03/2002 10:02	
Nickel	ND	0.0050	mg/L	04/03/2002 10:02	
Selenium	ND	0.0050	mg/L	04/03/2002 10:02	
Silver	ND	0.0050	mg/L	04/03/2002 10:02	
Thallium	ND	0.0050	mg/L	04/03/2002 10:02	
Vanadium	ND	0.0050	mg/L	04/03/2002 10:02	
Zinc	ND	0.010	mg/L	04/03/2002 10:02	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-45-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-052
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 12:54	QC-Batch: 2002/04/05-04.15 2002/04/05-03.16
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 10:53	
Arsenic	5.7	1.0	mg/Kg	1.00	04/08/2002 10:53	
Barium	2.4	1.0	mg/Kg	1.00	04/08/2002 10:53	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 10:53	
Cadmium	1.9	0.50	mg/Kg	1.00	04/08/2002 10:53	
Chromium	25	1.0	mg/Kg	1.00	04/08/2002 10:53	
Cobalt	13	1.0	mg/Kg	1.00	04/08/2002 10:53	
Copper	79	1.0	mg/Kg	1.00	04/08/2002 10:53	
Lead	2.5	1.0	mg/Kg	1.00	04/08/2002 10:53	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 10:53	
Nickel	21	1.0	mg/Kg	1.00	04/08/2002 10:53	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 10:53	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 10:53	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 10:53	
Vanadium	20	1.0	mg/Kg	1.00	04/08/2002 10:53	
Zinc	10	1.0	mg/Kg	1.00	04/08/2002 10:53	
Mercury	0.075	0.050	mg/Kg	1.00	04/08/2002 16:09	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-45-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-051
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 12:52	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 10:49	
Arsenic	2.4	1.0	mg/Kg	1.00	04/08/2002 10:49	
Barium	37	1.0	mg/Kg	1.00	04/08/2002 10:49	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 10:49	
Cadmium	1.4	0.50	mg/Kg	1.00	04/08/2002 10:49	
Chromium	18	1.0	mg/Kg	1.00	04/08/2002 10:49	
Cobalt	3.1	1.0	mg/Kg	1.00	04/08/2002 10:49	
Copper	9.4	1.0	mg/Kg	1.00	04/08/2002 10:49	
Lead	8.5	1.0	mg/Kg	1.00	04/08/2002 10:49	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 10:49	
Nickel	13	1.0	mg/Kg	1.00	04/08/2002 10:49	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 10:49	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 10:49	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 10:49	
Vanadium	20	1.0	mg/Kg	1.00	04/08/2002 10:49	
Zinc	210	1.0	mg/Kg	1.00	04/08/2002 10:49	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 16:08	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: MFC-43-4.5-5.0	Lab Sample ID: 2002-04-0014-050
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 13:30	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 10:45	
Arsenic	1.8	1.0	mg/Kg	1.00	04/08/2002 10:45	
Barium	26	1.0	mg/Kg	1.00	04/08/2002 10:45	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 10:45	
Cadmium	0.84	0.50	mg/Kg	1.00	04/08/2002 10:45	
Chromium	22	1.0	mg/Kg	1.00	04/08/2002 10:45	
Cobalt	2.4	1.0	mg/Kg	1.00	04/08/2002 10:45	
Copper	3.7	1.0	mg/Kg	1.00	04/08/2002 10:45	
Lead	1.6	1.0	mg/Kg	1.00	04/08/2002 10:45	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 10:45	
Nickel	13	1.0	mg/Kg	1.00	04/08/2002 10:45	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 10:45	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 10:45	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 10:45	
Vanadium	13	1.0	mg/Kg	1.00	04/08/2002 10:45	
Zinc	9.1	1.0	mg/Kg	1.00	04/08/2002 10:45	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 16:06	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

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Pleasanton, CA 94566

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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Sample ID: <b>MFC-43-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-049
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 13:41	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 10:41	
Arsenic	6.0	1.0	mg/Kg	1.00	04/08/2002 10:41	
Barium	37	1.0	mg/Kg	1.00	04/08/2002 10:41	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 10:41	
Cadmium	2.0	0.50	mg/Kg	1.00	04/08/2002 10:41	
Chromium	25	1.0	mg/Kg	1.00	04/08/2002 10:41	
Cobalt	6.7	1.0	mg/Kg	1.00	04/08/2002 10:41	
Copper	34	1.0	mg/Kg	1.00	04/08/2002 10:41	
Lead	36	1.0	mg/Kg	1.00	04/08/2002 10:41	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 10:41	
Nickel	23	1.0	mg/Kg	1.00	04/08/2002 10:41	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 10:41	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 10:41	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 10:41	
Vanadium	20	1.0	mg/Kg	1.00	04/08/2002 10:41	
Zinc	85	1.0	mg/Kg	1.00	04/08/2002 10:41	
Mercury	0.052	0.050	mg/Kg	1.00	04/08/2002 16:05	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-25-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-048
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 11:00	QC-Batch: 2002/04/05-04.15 2002/04/05-03.16
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 10:37	
Arsenic	4.2	1.0	mg/Kg	1.00	04/08/2002 10:37	
Barium	100	1.0	mg/Kg	1.00	04/08/2002 10:37	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 10:37	
Cadmium	2.3	0.50	mg/Kg	1.00	04/08/2002 10:37	
Chromium	50	1.0	mg/Kg	1.00	04/08/2002 10:37	
Cobalt	11	1.0	mg/Kg	1.00	04/08/2002 10:37	
Copper	19	1.0	mg/Kg	1.00	04/08/2002 10:37	
Lead	8.2	1.0	mg/Kg	1.00	04/08/2002 10:37	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 10:37	
Nickel	74	1.0	mg/Kg	1.00	04/08/2002 10:37	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 10:37	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 10:37	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 10:37	
Vanadium	26	1.0	mg/Kg	1.00	04/08/2002 10:37	
Zinc	29	1.0	mg/Kg	1.00	04/08/2002 10:37	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 16:04	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A  
  
Prep Method: 7470A  
7471A  
3010A  
3050B

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Sample ID: <b>MFC-25-1.0-1.5-DUP</b>	Lab Sample ID: 2002-04-0014-047
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 10:40	QC-Batch: 2002/04/05-04.15 2002/04/05-03.16
Matrix: Soil	

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 10:33	
Arsenic	5.7	1.0	mg/Kg	1.00	04/08/2002 10:33	
Barium	45	1.0	mg/Kg	1.00	04/08/2002 10:33	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 10:33	
Cadmium	1.6	0.50	mg/Kg	1.00	04/08/2002 10:33	
Chromium	28	1.0	mg/Kg	1.00	04/08/2002 10:33	
Cobalt	5.4	1.0	mg/Kg	1.00	04/08/2002 10:33	
Copper	20	1.0	mg/Kg	1.00	04/08/2002 10:33	
Lead	30	1.0	mg/Kg	1.00	04/08/2002 10:33	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 10:33	
Nickel	26	1.0	mg/Kg	1.00	04/08/2002 10:33	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 10:33	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 10:33	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 10:33	
Vanadium	18	1.0	mg/Kg	1.00	04/08/2002 10:33	
Zinc	38	1.0	mg/Kg	1.00	04/08/2002 10:33	
Mercury	0.056	0.050	mg/Kg	1.00	04/08/2002 16:03	



CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: MFC-23-8.0-8.5	Lab Sample ID: 2002-04-0014-046
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 08:10	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 09:49	
Arsenic	3.0	1.0	mg/Kg	1.00	04/08/2002 09:49	
Barium	56	1.0	mg/Kg	1.00	04/08/2002 09:49	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 09:49	
Cadmium	1.2	0.50	mg/Kg	1.00	04/08/2002 09:49	
Chromium	24	1.0	mg/Kg	1.00	04/08/2002 09:49	
Cobalt	4.3	1.0	mg/Kg	1.00	04/08/2002 09:49	
Copper	7.5	1.0	mg/Kg	1.00	04/08/2002 09:49	
Lead	3.0	1.0	mg/Kg	1.00	04/08/2002 09:49	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 09:49	
Nickel	29	1.0	mg/Kg	1.00	04/08/2002 09:49	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 09:49	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 09:49	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 09:49	
Vanadium	18	1.0	mg/Kg	1.00	04/08/2002 09:49	
Zinc	15	1.0	mg/Kg	1.00	04/08/2002 09:49	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 15:59	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: MFC-23-5.5-6.0	Lab Sample ID: 2002-04-0014-045
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 08:05	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 09:45	
Arsenic	3.4	1.0	mg/Kg	1.00	04/08/2002 09:45	
Barium	52	1.0	mg/Kg	1.00	04/08/2002 09:45	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 09:45	
Cadmium	1.5	0.50	mg/Kg	1.00	04/08/2002 09:45	
Chromium	29	1.0	mg/Kg	1.00	04/08/2002 09:45	
Cobalt	6.1	1.0	mg/Kg	1.00	04/08/2002 09:45	
Copper	9.2	1.0	mg/Kg	1.00	04/08/2002 09:45	
Lead	2.3	1.0	mg/Kg	1.00	04/08/2002 09:45	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 09:45	
Nickel	43	1.0	mg/Kg	1.00	04/08/2002 09:45	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 09:45	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 09:45	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 09:45	
Vanadium	21	1.0	mg/Kg	1.00	04/08/2002 09:45	
Zinc	19	1.0	mg/Kg	1.00	04/08/2002 09:45	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 15:58	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

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Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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Sample ID: <b>MFC-23-1.5-2.0</b>	Lab Sample ID: 2002-04-0014-044
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 08:00	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 09:41	
Arsenic	5.0	1.0	mg/Kg	1.00	04/08/2002 09:41	
Barium	23	1.0	mg/Kg	1.00	04/08/2002 09:41	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 09:41	
Cadmium	2.0	0.50	mg/Kg	1.00	04/08/2002 09:41	
Chromium	23	1.0	mg/Kg	1.00	04/08/2002 09:41	
Cobalt	8.0	1.0	mg/Kg	1.00	04/08/2002 09:41	
Copper	32	1.0	mg/Kg	1.00	04/08/2002 09:41	
Lead	14	1.0	mg/Kg	1.00	04/08/2002 09:41	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 09:41	
Nickel	20	1.0	mg/Kg	1.00	04/08/2002 09:41	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 09:41	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 09:41	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 09:41	
Vanadium	19	1.0	mg/Kg	1.00	04/08/2002 09:41	
Zinc	46	1.0	mg/Kg	1.00	04/08/2002 09:41	
Mercury	0.071	0.050	mg/Kg	1.00	04/08/2002 15:57	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-22-7.5-8.0</b>	Lab Sample ID: 2002-04-0014-043
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 09:05	QC-Batch: 2002/04/05-03.16 2002/04/05-04.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 09:30	
Arsenic	2.8	1.0	mg/Kg	1.00	04/08/2002 09:30	
Barium	57	1.0	mg/Kg	1.00	04/08/2002 09:30	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 09:30	
Cadmium	1.6	0.50	mg/Kg	1.00	04/08/2002 09:30	
Chromium	36	1.0	mg/Kg	1.00	04/08/2002 09:30	
Cobalt	6.9	1.0	mg/Kg	1.00	04/08/2002 09:30	
Copper	9.2	1.0	mg/Kg	1.00	04/08/2002 09:30	
Lead	3.7	1.0	mg/Kg	1.00	04/08/2002 09:30	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 09:30	
Nickel	46	1.0	mg/Kg	1.00	04/08/2002 09:30	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 09:30	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 09:30	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 09:30	
Vanadium	21	1.0	mg/Kg	1.00	04/08/2002 09:30	
Zinc	21	1.0	mg/Kg	1.00	04/08/2002 09:30	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 15:53	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

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Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-22-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-042
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 14:05
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/05-04.15 2002/04/05-03.16
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/08/2002 09:27	
Arsenic	25	1.0	mg/Kg	1.00	04/08/2002 09:27	
Barium	100	1.0	mg/Kg	1.00	04/08/2002 09:27	
Beryllium	ND	0.50	mg/Kg	1.00	04/08/2002 09:27	
Cadmium	2.3	0.50	mg/Kg	1.00	04/08/2002 09:27	
Chromium	37	1.0	mg/Kg	1.00	04/08/2002 09:27	
Cobalt	8.8	1.0	mg/Kg	1.00	04/08/2002 09:27	
Copper	16	1.0	mg/Kg	1.00	04/08/2002 09:27	
Lead	6.6	1.0	mg/Kg	1.00	04/08/2002 09:27	
Molybdenum	ND	1.0	mg/Kg	1.00	04/08/2002 09:27	
Nickel	53	1.0	mg/Kg	1.00	04/08/2002 09:27	
Selenium	ND	2.0	mg/Kg	1.00	04/08/2002 09:27	
Silver	ND	1.0	mg/Kg	1.00	04/08/2002 09:27	
Thallium	ND	1.0	mg/Kg	1.00	04/08/2002 09:27	
Vanadium	21	1.0	mg/Kg	1.00	04/08/2002 09:27	
Zinc	39	1.0	mg/Kg	1.00	04/08/2002 09:27	
Mercury	ND	0.050	mg/Kg	1.00	04/08/2002 15:52	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

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1220 Quarry Lane  
Pleasanton, CA 94566

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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Sample ID: MFC-22-1.5-2.0	Lab Sample ID: 2002-04-0014-041
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 08:50	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 11:32	
Arsenic	3.0	1.0	mg/Kg	1.00	04/05/2002 11:32	
Barium	2.0	1.0	mg/Kg	1.00	04/05/2002 11:32	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 11:32	
Cadmium	1.1	0.50	mg/Kg	1.00	04/05/2002 11:32	
Chromium	7.6	1.0	mg/Kg	1.00	04/05/2002 11:32	
Cobalt	9.3	1.0	mg/Kg	1.00	04/05/2002 11:32	
Copper	46	1.0	mg/Kg	1.00	04/05/2002 11:32	
Lead	1.4	1.0	mg/Kg	1.00	04/05/2002 11:32	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 11:32	
Nickel	10	1.0	mg/Kg	1.00	04/05/2002 11:32	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 11:32	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 11:32	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 11:32	
Vanadium	20	1.0	mg/Kg	1.00	04/05/2002 11:32	
Zinc	7.8	1.0	mg/Kg	1.00	04/05/2002 11:32	
Mercury	ND	0.050	mg/Kg	1.00	04/05/2002 09:39	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: MFC-21-8.0-8.5	Lab Sample ID: 2002-04-0014-040
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 09:40	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 11:29	
Arsenic	2.8	1.0	mg/Kg	1.00	04/05/2002 11:29	
Barium	64	1.0	mg/Kg	1.00	04/05/2002 11:29	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 11:29	
Cadmium	1.8	0.50	mg/Kg	1.00	04/05/2002 11:29	
Chromium	32	1.0	mg/Kg	1.00	04/05/2002 11:29	
Cobalt	6.7	1.0	mg/Kg	1.00	04/05/2002 11:29	
Copper	8.0	1.0	mg/Kg	1.00	04/05/2002 11:29	
Lead	3.0	1.0	mg/Kg	1.00	04/05/2002 11:29	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 11:29	
Nickel	35	1.0	mg/Kg	1.00	04/05/2002 11:29	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 11:29	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 11:29	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 11:29	
Vanadium	22	1.0	mg/Kg	1.00	04/05/2002 11:29	
Zinc	23	1.0	mg/Kg	1.00	04/05/2002 11:29	
Mercury	ND	0.050	mg/Kg	1.00	04/05/2002 09:37	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-21-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-039
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 11:25	
Arsenic	9.0	1.0	mg/Kg	1.00	04/05/2002 11:25	
Barium	53	1.0	mg/Kg	1.00	04/05/2002 11:25	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 11:25	
Cadmium	1.6	0.50	mg/Kg	1.00	04/05/2002 11:25	
Chromium	32	1.0	mg/Kg	1.00	04/05/2002 11:25	
Cobalt	5.3	1.0	mg/Kg	1.00	04/05/2002 11:25	
Copper	6.5	1.0	mg/Kg	1.00	04/05/2002 11:25	
Lead	2.8	1.0	mg/Kg	1.00	04/05/2002 11:25	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 11:25	
Nickel	34	1.0	mg/Kg	1.00	04/05/2002 11:25	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 11:25	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 11:25	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 11:25	
Vanadium	21	1.0	mg/Kg	1.00	04/05/2002 11:25	
Zinc	20	1.0	mg/Kg	1.00	04/05/2002 11:25	
Mercury	ND	0.050	mg/Kg	1.00	04/05/2002 09:36	



CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-21-1.5-2.0-DUP</b>	Lab Sample ID: 2002-04-0014-038
Project: 01-201-A 7th St	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 11:08	
Arsenic	3.4	1.0	mg/Kg	1.00	04/05/2002 11:08	
Barium	42	1.0	mg/Kg	1.00	04/05/2002 11:08	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 11:08	
Cadmium	1.6	0.50	mg/Kg	1.00	04/05/2002 11:08	
Chromium	26	1.0	mg/Kg	1.00	04/05/2002 11:08	
Cobalt	5.1	1.0	mg/Kg	1.00	04/05/2002 11:08	
Copper	9.7	1.0	mg/Kg	1.00	04/05/2002 11:08	
Lead	14	1.0	mg/Kg	1.00	04/05/2002 11:08	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 11:08	
Nickel	27	1.0	mg/Kg	1.00	04/05/2002 11:08	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 11:08	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 11:08	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 11:08	
Vanadium	19	1.0	mg/Kg	1.00	04/05/2002 11:08	
Zinc	33	1.0	mg/Kg	1.00	04/05/2002 11:08	
Mercury	ND	0.050	mg/Kg	1.00	04/05/2002 09:35	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: MFC-21-1.5-2.0	Lab Sample ID: 2002-04-0014-037
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 11:03	
Arsenic	7.3	1.0	mg/Kg	1.00	04/05/2002 11:03	
Barium	38	1.0	mg/Kg	1.00	04/05/2002 11:03	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 11:03	
Cadmium	1.4	0.50	mg/Kg	1.00	04/05/2002 11:03	
Chromium	23	1.0	mg/Kg	1.00	04/05/2002 11:03	
Cobalt	4.3	1.0	mg/Kg	1.00	04/05/2002 11:03	
Copper	15	1.0	mg/Kg	1.00	04/05/2002 11:03	
Lead	19	1.0	mg/Kg	1.00	04/05/2002 11:03	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 11:03	
Nickel	24	1.0	mg/Kg	1.00	04/05/2002 11:03	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 11:03	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 11:03	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 11:03	
Vanadium	17	1.0	mg/Kg	1.00	04/05/2002 11:03	
Zinc	33	1.0	mg/Kg	1.00	04/05/2002 11:03	
Mercury	0.089	0.050	mg/Kg	1.00	04/05/2002 09:34	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-36-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-036
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 11:00	
Arsenic	22	1.0	mg/Kg	1.00	04/05/2002 11:00	
Barium	79	1.0	mg/Kg	1.00	04/05/2002 11:00	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 11:00	
Cadmium	2.4	0.50	mg/Kg	1.00	04/05/2002 11:00	
Chromium	24	1.0	mg/Kg	1.00	04/05/2002 11:00	
Cobalt	6.5	1.0	mg/Kg	1.00	04/05/2002 11:00	
Copper	37	1.0	mg/Kg	1.00	04/05/2002 11:00	
Lead	37	1.0	mg/Kg	1.00	04/05/2002 11:00	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 11:00	
Nickel	35	1.0	mg/Kg	1.00	04/05/2002 11:00	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 11:00	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 11:00	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 11:00	
Vanadium	22	1.0	mg/Kg	1.00	04/05/2002 11:00	
Zinc	36	1.0	mg/Kg	1.00	04/05/2002 11:00	
Mercury	0.076	0.050	mg/Kg	1.00	04/05/2002 09:33	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>MFC-36-1.5-2.0 DUP</b>	Lab Sample ID: 2002-04-0014-035
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 10:56	
Arsenic	6.5	1.0	mg/Kg	1.00	04/05/2002 10:56	
Barium	61	1.0	mg/Kg	1.00	04/05/2002 10:56	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 10:56	
Cadmium	2.0	0.50	mg/Kg	1.00	04/05/2002 10:56	
Chromium	35	1.0	mg/Kg	1.00	04/05/2002 10:56	
Cobalt	6.5	1.0	mg/Kg	1.00	04/05/2002 10:56	
Copper	11	1.0	mg/Kg	1.00	04/05/2002 10:56	
Lead	7.4	1.0	mg/Kg	1.00	04/05/2002 10:56	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 10:56	
Nickel	32	1.0	mg/Kg	1.00	04/05/2002 10:56	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 10:56	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 10:56	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 10:56	
Vanadium	25	1.0	mg/Kg	1.00	04/05/2002 10:56	
Zinc	28	1.0	mg/Kg	1.00	04/05/2002 10:56	
Mercury	0.092	0.050	mg/Kg	1.00	04/05/2002 09:31	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: MFC-36-1.5-2.0	Lab Sample ID: 2002-04-0014-034
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 06:37
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-01.16 2002/04/05-02.15
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/05/2002 10:52	
Arsenic	9.6	1.0	mg/Kg	1.00	04/05/2002 10:52	
Barium	51	1.0	mg/Kg	1.00	04/05/2002 10:52	
Beryllium	ND	0.50	mg/Kg	1.00	04/05/2002 10:52	
Cadmium	3.3	0.50	mg/Kg	1.00	04/05/2002 10:52	
Chromium	10	1.0	mg/Kg	1.00	04/05/2002 10:52	
Cobalt	4.6	1.0	mg/Kg	1.00	04/05/2002 10:52	
Copper	18	1.0	mg/Kg	1.00	04/05/2002 10:52	
Lead	28	1.0	mg/Kg	1.00	04/05/2002 10:52	
Molybdenum	ND	1.0	mg/Kg	1.00	04/05/2002 10:52	
Nickel	11	1.0	mg/Kg	1.00	04/05/2002 10:52	
Selenium	ND	2.0	mg/Kg	1.00	04/05/2002 10:52	
Silver	ND	1.0	mg/Kg	1.00	04/05/2002 10:52	
Thallium	ND	1.0	mg/Kg	1.00	04/05/2002 10:52	
Vanadium	25	1.0	mg/Kg	1.00	04/05/2002 10:52	
Zinc	62	1.0	mg/Kg	1.00	04/05/2002 10:52	
Mercury	ND	0.050	mg/Kg	1.00	04/05/2002 09:30	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>EB-032802</b>	Lab Sample ID: 2002-04-0014-029
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/03/2002 05:38
Sampled: 03/28/2002 15:40	QC-Batch: 2002/04/03-01.16 2002/04/03-02.15
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Arsenic	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Barium	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Beryllium	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Cadmium	ND	0.0020	mg/L	1.00	04/03/2002 11:05	
Chromium	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Cobalt	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Copper	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Lead	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Molybdenum	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Nickel	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Selenium	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Silver	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Thallium	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Vanadium	ND	0.0050	mg/L	1.00	04/03/2002 11:05	
Zinc	ND	0.010	mg/L	1.00	04/03/2002 11:05	
Mercury	ND	0.00020	mg/L	1.00	04/03/2002 13:25	

CAM 17 Metals

Iris Environmental

Test Method: 6010B  
7470A  
7471A

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Pleasanton, CA 94566

Attn: Chris Alger

Prep Method: 7470A  
7471A  
3010A  
3050B

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CA DHS ELAP#1094

Sample ID: <b>EB-032702</b>	Lab Sample ID: 2002-04-0014-001
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/03/2002 05:38
Sampled: 03/27/2002 17:20	QC-Batch: 2002/04/03-01.15 2002/04/03-02.15
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Arsenic	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Barium	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Beryllium	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Cadmium	ND	0.0020	mg/L	1.00	04/03/2002 11:00	
Chromium	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Cobalt	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Copper	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Lead	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Molybdenum	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Nickel	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Selenium	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Silver	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Thallium	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Vanadium	ND	0.0050	mg/L	1.00	04/03/2002 11:00	
Zinc	ND	0.010	mg/L	1.00	04/03/2002 11:00	
Mercury	ND	0.00020	mg/L	1.00	04/03/2002 13:23	

CAM 17 Metals

<b>Iris Environmental</b>	✉ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A SitePort of Oakland	Project: 7th St.

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-032702	Water	03/27/2002 17:20	1
EB-032802	Water	03/28/2002 15:40	29
MFC-36-1.5-2.0	Soil	03/28/2002 13:50	34
MFC-36-1.5-2.0 DUP	Soil	03/28/2002 13:50	35
MFC-36-4.5-5.0	Soil	03/28/2002 14:00	36
MFC-21-1.5-2.0	Soil	03/28/2002 09:30	37
MFC-21-1.5-2.0-DUP	Soil	03/28/2002 09:30	38
MFC-21-4.5-5.0	Soil	03/28/2002 09:35	39
MFC-21-8.0-8.5	Soil	03/28/2002 09:40	40
MFC-22-1.5-2.0	Soil	03/28/2002 08:50	41
MFC-22-4.5-5.0	Soil	03/28/2002 08:55	42
MFC-22-7.5-8.0	Soil	03/28/2002 09:05	43
MFC-23-1.5-2.0	Soil	03/28/2002 08:00	44
MFC-23-5.5-6.0	Soil	03/28/2002 08:05	45
MFC-23-8.0-8.5	Soil	03/28/2002 08:10	46
MFC-25-1.0-1.5-DUP	Soil	03/28/2002 10:40	47
MFC-25-4.5-5.0	Soil	03/28/2002 11:00	48
MFC-43-1.5-2.0	Soil	03/28/2002 13:41	49
MFC-43-4.5-5.0	Soil	03/28/2002 13:30	50
MFC-45-1.5-2.0	Soil	03/28/2002 12:52	51
MFC-45-4.5-5.0	Soil	03/28/2002 12:54	52





Semi-volatile analysis by GC/MS - EPA8270C

**Legend & Notes**

Test Method: 8270C

Prep Method: 3510C/8270C  
3550B/8270C

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CA DHS ELAP#2496

**Analysis Flags**

lrr

Reporting limits raised due to high level of non-target analyte materials.

**Analysis Flags**

rl

Reporting limits raised due to reduced sample size.

**Analysis Flags**

sdo

Surrogate(s) diluted out

Semi-volatile analysis by GC/MS - EPA8270C

Batch QC Report

Test Method: 8270C

Prep Method: 3550B/8270C

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CA DHS ELAP#2496

<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.11</b>
Sample ID: <b>MFC-45-1.5-5.0 &gt;&gt; MS</b>		Lab ID: 2002-04-0014-058
MS: 2002/04/05-01.11-002	Extracted: 04/05/2002 11:47	Analyzed: 04/05/2002 21:00
		Dilution: 1
MSD: 2002/04/05-01.11-003	Extracted: 04/05/2002 11:47	Analyzed: 04/05/2002 21:29
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp. Conc.		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Phenol	1.07	1.29	ND	1.98	1.99	54.0	64.8	18.2	20-90	35		
2-Chlorophenol	1.13	1.34	ND	1.98	1.99	57.1	67.3	16.4	27-123	35		
1,4-Dichlorobenze	0.510	0.620	ND	0.990	0.997	51.5	62.2	18.8	28-104	30		
N-Nitroso-di-n-pro	0.610	0.720	ND	0.990	0.997	61.6	72.2	15.8	25-114	39		
1,2,4-Trichloroben	0.560	0.720	ND	0.990	0.997	56.6	72.2	24.2	38-107	35		
4-Chloro-3-methyl	1.59	1.79	ND	1.98	1.99	80.3	89.9	11.3	26-103	33		
Acenaphthene	0.690	0.720	ND	0.990	0.997	69.7	72.2	3.5	49-102	30		
4-Nitrophenol	1.94	1.80	ND	1.98	1.99	98.0	90.5	8.0	17-109	35		
2,4-Dinitrotoluene	0.810	0.800	ND	0.990	0.997	81.8	80.2	2.0	39-139	38		
Pentachloropheno	1.60	1.63	ND	1.98	1.99	80.8	81.9	1.4	11-114	35		
Pyrene	0.820	0.870	ND	0.990	0.997	82.8	87.3	5.3	25-117	35		
<b>Surrogate(s)</b>												
Nitrobenzene-d5	9.53	13.6		25	25	38.1	54.4		23-120	0		
2-Fluorobiphenyl	15.2	16.9		25	25	60.8	67.6		30-115	0		
p-Terphenyl-d14	20.3	21.5		25	25	81.3	86.0		18-137	0		
2-Fluorophenol	22.2	27.4		50	50	44.4	54.7		25-121	0		
Phenol-d6	30.0	35.2		50	50	60.0	70.4		24-113	0		
2,4,6-Tribromophe	47.8	44.6		50	50	95.6	89.2		19-122	0		

Semi-volatile analysis by GC/MS - EPA8270C

**Batch QC report**

Test Method: 8270C

Prep Method: 3550B/8270C

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CA DHS ELAP#2496

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.11**  
 LCS: 2002/04/05-01.11-004 Extracted: 04/05/2002 11:47 Analyzed: 04/08/2002 12:55  
 LCSD: 2002/04/05-01.11-005 Extracted: 04/05/2002 11:47 Analyzed: 04/08/2002 13:24

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Phenol	1.33	1.35	1.99	1.99	66.8	67.8	1.5	20-90	35		
2-Chlorophenol	1.45	1.45	1.99	1.99	72.9	72.9	0.0	27-123	35		
1,4-Dichlorobenzene	0.710	0.700	0.994	0.997	71.4	70.2	1.7	28-104	30		
N-Nitroso-di-n-propyla	0.830	0.820	0.994	0.997	83.5	82.2	1.6	25-114	39		
1,2,4-Trichlorobenzene	0.740	0.700	0.994	0.997	74.4	70.2	5.8	38-107	35		
4-Chloro-3-methylphen	1.52	1.50	1.99	1.99	76.4	75.4	1.3	26-103	33		
Acenaphthene	0.720	0.740	0.994	0.997	72.4	74.2	2.5	49-102	30		
4-Nitrophenol	1.83	1.88	1.99	1.99	92.0	94.5	2.7	17-109	35		
2,4-Dinitrotoluene	0.910	0.880	0.994	0.997	91.5	88.3	3.6	39-139	38		
Pentachlorophenol	1.57	1.67	1.99	1.99	78.9	83.9	6.1	11-114	35		
Pyrene	0.760	0.820	0.994	0.997	76.5	82.2	7.2	25-117	35		
<b>Surrogate(s)</b>											
Nitrobenzene-d5	15.3	15.1	25	25	61.1	60.5		23-120	0		
2-Fluorobiphenyl	18.0	17.7	25	25	72.1	70.6		30-115	0		
p-Terphenyl-d14	18.8	20.0	25	25	75.2	79.9		18-137	0		
2-Fluorophenol	30.9	30.5	50	50	61.8	61.0		25-121	0		
Phenol-d6	38.0	37.3	50	50	76.0	74.5		24-113	0		
2,4,6-Tribromophenol	41.4	42.8	50	50	82.8	85.5		19-122	0		

Semi-volatile analysis by GC/MS - EPA8270C

Batch QC report

Test Method: 8270C

Prep Method: 3550B/8270C

STL San Francisco  
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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/04-02.11**  
 LCS: 2002/04/04-02.11-002 Extracted: 04/04/2002 14:46 Analyzed: 04/08/2002 11:57  
 LCSD: 2002/04/04-02.11-003 Extracted: 04/04/2002 14:46 Analyzed: 04/08/2002 12:26

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CA DHS ELAP#2496

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Phenol	1.51	1.40	1.99	2.00	75.9	70.0	8.1	20-90	35		
2-Chlorophenol	1.64	1.52	1.99	2.00	82.4	76.0	8.1	27-123	35		
1,4-Dichlorobenzene	0.740	0.730	0.995	0.999	74.4	73.1	1.8	28-104	30		
N-Nitroso-di-n-propyla	0.890	0.860	0.995	0.999	89.4	86.1	3.8	25-114	39		
1,2,4-Trichlorobenzene	0.790	0.770	0.995	0.999	79.4	77.1	2.9	38-107	35		
4-Chloro-3-methylphen	1.61	1.62	1.99	2.00	80.9	81.0	0.1	26-103	33		
Acenaphthene	0.800	0.840	0.995	0.999	80.4	84.1	4.5	49-102	30		
4-Nitrophenol	2.01	2.04	1.99	2.00	101.0	102.0	1.0	17-109	35		
2,4-Dinitrotoluene	0.930	0.940	0.995	0.999	93.5	94.1	0.6	39-139	38		
Pentachlorophenol	1.63	1.75	1.99	2.00	81.9	87.5	6.6	11-114	35		
Pyrene	0.870	0.860	0.995	0.999	87.4	86.1	1.5	25-117	35		
<b>Surrogate(s)</b>											
Nitrobenzene-d5	17.6	17.6	25	25	70.2	70.4		23-120	0		
2-Fluorobiphenyl	19.8	19.4	25	25	79.0	77.4		30-115	0		
p-Terphenyl-d14	21.5	21.3	25	25	85.8	85.0		18-137	0		
2-Fluorophenol	35.6	33.5	50	50	71.2	66.9		25-121	0		
Phenol-d6	42.7	40.7	50	50	85.5	81.4		24-113	0		
2,4,6-Tribromophenol	42.9	43.7	50	50	85.7	87.4		19-122	0		

Semi-volatile analysis by GC/MS - EPA8270C

Batch QC report

Test Method: 8270C

Prep Method: 3510C/8270C

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CA DHS ELAP#2496

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/02-01.11**  
 LCS: 2002/04/02-01.11-002 Extracted: 04/02/2002 07:31 Analyzed: 04/02/2002 14:27  
 LCSD: 2002/04/02-01.11-003 Extracted: 04/02/2002 07:31 Analyzed: 04/02/2002 14:55

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Phenol	15.9	16.1	60.0	60.0	26.5	26.8	1.1	12-89	35		
2-Chlorophenol	39.8	39.6	60.0	60.0	66.3	66.0	0.5	23-134	25		
1,4-Dichlorobenzene	14.2	14.3	30.0	30.0	47.3	47.7	0.8	36-97	30		
N-Nitroso-di-n-propyla	23.5	23.4	30.0	30.0	78.3	78.0	0.4	10-130	34		
1,2,4-Trichlorobenzene	14.0	15.1	30.0	30.0	46.7	50.3	7.4	44-142	35		
4-Chloro-3-methylphen	41.8	43.1	60.0	60.0	69.7	71.8	3.0	22-147	31		
Acenaphthene	18.8	20.8	30.0	30.0	62.7	69.3	10.0	56-118	30		
4-Nitrophenol	26.0	26.7	60.0	60.0	43.3	44.5	2.7	1-132	35		
2,4-Dinitrotoluene	24.4	25.4	30.0	30.0	81.3	84.7	4.1	39-139	35		
Pentachlorophenol	50.5	47.9	60.0	60.0	84.2	79.8	5.4	45-125	35		
Pyrene	20.6	21.3	30.0	30.0	68.7	71.0	3.3	52-115	35		
<b>Surrogate(s)</b>											
Nitrobenzene-d5	14.3	14.4	25	25	57.1	57.5		35-114			
2-Fluorobiphenyl	14.9	16.6	25	25	59.5	66.5		43-116			
p-Terphenyl-d14	18.9	18.2	25	25	75.7	72.9		33-141			
2-Fluorophenol	20.5	20.2	50	50	41.1	40.4		25-100			
Phenol-d6	15.0	15.4	50	50	30.0	30.7		10-110			
2,4,6-Tribromophenol	41.5	44.2	50	50	82.9	88.4		10-123			

Semi-volatile analysis by GC/MS - EPA8270C

Batch QC report

Test Method: 8270C

Prep Method: 3550B/8270C

Method Blank  
MB: 2002/04/05-01.11-001

Soil

QC Batch # 2002/04/05-01.11  
Date Extracted: 04/05/2002 11:47

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Fluorene	ND	0.067	mg/Kg	04/05/2002 16:39	
4-Nitroaniline	ND	0.33	mg/Kg	04/05/2002 16:39	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	04/05/2002 16:39	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	04/05/2002 16:39	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	04/05/2002 16:39	
Hexachlorobenzene	ND	0.067	mg/Kg	04/05/2002 16:39	
Pentachlorophenol	ND	0.33	mg/Kg	04/05/2002 16:39	
Phenanthrene	ND	0.067	mg/Kg	04/05/2002 16:39	
Anthracene	ND	0.067	mg/Kg	04/05/2002 16:39	
Di-n-butyl phthalate	ND	0.17	mg/Kg	04/05/2002 16:39	
Fluoranthene	ND	0.067	mg/Kg	04/05/2002 16:39	
Pyrene	ND	0.067	mg/Kg	04/05/2002 16:39	
Butyl benzyl phthalate	ND	0.17	mg/Kg	04/05/2002 16:39	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	04/05/2002 16:39	
Benzo(a)anthracene	ND	0.067	mg/Kg	04/05/2002 16:39	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	04/05/2002 16:39	
Chrysene	ND	0.067	mg/Kg	04/05/2002 16:39	
Di-n-octyl phthalate	ND	0.17	mg/Kg	04/05/2002 16:39	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	04/05/2002 16:39	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	04/05/2002 16:39	
Benzo(a)pyrene	ND	0.067	mg/Kg	04/05/2002 16:39	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	04/05/2002 16:39	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	04/05/2002 16:39	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	04/05/2002 16:39	
Benzoic acid	ND	0.33	mg/Kg	04/05/2002 16:39	
<b>Surrogate(s)</b>					
Nitrobenzene-d5	74.6	23-120	%	04/05/2002 16:39	
2-Fluorobiphenyl	71.7	30-115	%	04/05/2002 16:39	
p-Terphenyl-d14	82.4	18-137	%	04/05/2002 16:39	
2-Fluorophenol	67.2	25-121	%	04/05/2002 16:39	
Phenol-d6	77.8	24-113	%	04/05/2002 16:39	
2,4,6-Tribromophenol	73.8	19-122	%	04/05/2002 16:39	

Semi-volatile analysis by GC/MS - EPA8270C

## Batch QC report

Test Method: 8270C

Prep Method: 3550B/8270  
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Method Blank

Soil

QC Batch # 2002/04/05-01.11

MB: 2002/04/05-01.11-001

Date Extracted: 04/05/2002 11:47

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	04/05/2002 16:39	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	04/05/2002 16:39	
2-Chlorophenol	ND	0.067	mg/Kg	04/05/2002 16:39	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	04/05/2002 16:39	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	04/05/2002 16:39	
Benzyl alcohol	ND	0.17	mg/Kg	04/05/2002 16:39	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	04/05/2002 16:39	
2-Methylphenol	ND	0.067	mg/Kg	04/05/2002 16:39	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	04/05/2002 16:39	
4-Methylphenol	ND	0.067	mg/Kg	04/05/2002 16:39	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	04/05/2002 16:39	
Hexachloroethane	ND	0.067	mg/Kg	04/05/2002 16:39	
Nitrobenzene	ND	0.067	mg/Kg	04/05/2002 16:39	
Isophorone	ND	0.067	mg/Kg	04/05/2002 16:39	
2-Nitrophenol	ND	0.067	mg/Kg	04/05/2002 16:39	
2,4-Dimethylphenol	ND	0.067	mg/Kg	04/05/2002 16:39	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	04/05/2002 16:39	
2,4-Dichlorophenol	ND	0.067	mg/Kg	04/05/2002 16:39	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	04/05/2002 16:39	
Naphthalene	ND	0.067	mg/Kg	04/05/2002 16:39	
4-Chloroaniline	ND	0.067	mg/Kg	04/05/2002 16:39	
Hexachlorobutadiene	ND	0.067	mg/Kg	04/05/2002 16:39	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	04/05/2002 16:39	
2-Methylnaphthalene	ND	0.067	mg/Kg	04/05/2002 16:39	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	04/05/2002 16:39	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	04/05/2002 16:39	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	04/05/2002 16:39	
2-Chloronaphthalene	ND	0.067	mg/Kg	04/05/2002 16:39	
2-Nitroaniline	ND	0.33	mg/Kg	04/05/2002 16:39	
Dimethyl phthalate	ND	0.17	mg/Kg	04/05/2002 16:39	
Acenaphthylene	ND	0.067	mg/Kg	04/05/2002 16:39	
3-Nitroaniline	ND	0.067	mg/Kg	04/05/2002 16:39	
Acenaphthene	ND	0.067	mg/Kg	04/05/2002 16:39	
2,4-Dinitrophenol	ND	0.33	mg/Kg	04/05/2002 16:39	
4-Nitrophenol	ND	0.33	mg/Kg	04/05/2002 16:39	
Dibenzofuran	ND	0.067	mg/Kg	04/05/2002 16:39	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	04/05/2002 16:39	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	04/05/2002 16:39	
Diethyl phthalate	ND	0.17	mg/Kg	04/05/2002 16:39	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	04/05/2002 16:39	

Semi-volatile analysis by GC/MS - EPA8270C

## Batch QC report

Test Method: 8270C

Prep Method: 3550B/8270C

C

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Method Blank

Soil

QC Batch # 2002/04/04-02.11

MB: 2002/04/04-02.11-001

Date Extracted: 04/04/2002 14:46

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Fluorene	ND	0.067	mg/Kg	04/05/2002 11:15	
4-Nitroaniline	ND	0.33	mg/Kg	04/05/2002 11:15	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	04/05/2002 11:15	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	04/05/2002 11:15	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	04/05/2002 11:15	
Hexachlorobenzene	ND	0.067	mg/Kg	04/05/2002 11:15	
Pentachlorophenol	ND	0.33	mg/Kg	04/05/2002 11:15	
Phenanthrene	ND	0.067	mg/Kg	04/05/2002 11:15	
Anthracene	ND	0.067	mg/Kg	04/05/2002 11:15	
Di-n-butyl phthalate	ND	0.17	mg/Kg	04/05/2002 11:15	
Fluoranthene	ND	0.067	mg/Kg	04/05/2002 11:15	
Pyrene	ND	0.067	mg/Kg	04/05/2002 11:15	
Butyl benzyl phthalate	ND	0.17	mg/Kg	04/05/2002 11:15	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	04/05/2002 11:15	
Benzo(a)anthracene	ND	0.067	mg/Kg	04/05/2002 11:15	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	04/05/2002 11:15	
Chrysene	ND	0.067	mg/Kg	04/05/2002 11:15	
Di-n-octyl phthalate	ND	0.17	mg/Kg	04/05/2002 11:15	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	04/05/2002 11:15	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	04/05/2002 11:15	
Benzo(a)pyrene	ND	0.067	mg/Kg	04/05/2002 11:15	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	04/05/2002 11:15	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	04/05/2002 11:15	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	04/05/2002 11:15	
Benzoic acid	ND	0.33	mg/Kg	04/05/2002 11:15	
<b>Surrogate(s)</b>					
Nitrobenzene-d5	76.7	23-120	%	04/05/2002 11:15	
2-Fluorobiphenyl	76.3	30-115	%	04/05/2002 11:15	
p-Terphenyl-d14	82.2	18-137	%	04/05/2002 11:15	
2-Fluorophenol	67.3	25-121	%	04/05/2002 11:15	
Phenol-d6	78.8	24-113	%	04/05/2002 11:15	
2,4,6-Tribromophenol	70.2	19-122	%	04/05/2002 11:15	



Semi-volatile analysis by GC/MS - EPA8270C

## Batch QC report

Test Method: 8270C

Prep Method: 3550B/8270  
CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/04/04-02.11

MB: 2002/04/04-02.11-001

Date Extracted: 04/04/2002 14:46

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	04/05/2002 11:15	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	04/05/2002 11:15	
2-Chlorophenol	ND	0.067	mg/Kg	04/05/2002 11:15	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	04/05/2002 11:15	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	04/05/2002 11:15	
Benzyl alcohol	ND	0.17	mg/Kg	04/05/2002 11:15	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	04/05/2002 11:15	
2-Methylphenol	ND	0.067	mg/Kg	04/05/2002 11:15	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	04/05/2002 11:15	
4-Methylphenol	ND	0.067	mg/Kg	04/05/2002 11:15	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	04/05/2002 11:15	
Hexachloroethane	ND	0.067	mg/Kg	04/05/2002 11:15	
Nitrobenzene	ND	0.067	mg/Kg	04/05/2002 11:15	
Isophorone	ND	0.067	mg/Kg	04/05/2002 11:15	
2-Nitrophenol	ND	0.067	mg/Kg	04/05/2002 11:15	
2,4-Dimethylphenol	ND	0.067	mg/Kg	04/05/2002 11:15	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	04/05/2002 11:15	
2,4-Dichlorophenol	ND	0.067	mg/Kg	04/05/2002 11:15	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	04/05/2002 11:15	
Naphthalene	ND	0.067	mg/Kg	04/05/2002 11:15	
4-Chloroaniline	ND	0.067	mg/Kg	04/05/2002 11:15	
Hexachlorobutadiene	ND	0.067	mg/Kg	04/05/2002 11:15	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	04/05/2002 11:15	
2-Methylnaphthalene	ND	0.067	mg/Kg	04/05/2002 11:15	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	04/05/2002 11:15	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	04/05/2002 11:15	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	04/05/2002 11:15	
2-Chloronaphthalene	ND	0.067	mg/Kg	04/05/2002 11:15	
2-Nitroaniline	ND	0.33	mg/Kg	04/05/2002 11:15	
Dimethyl phthalate	ND	0.17	mg/Kg	04/05/2002 11:15	
Acenaphthylene	ND	0.067	mg/Kg	04/05/2002 11:15	
3-Nitroaniline	ND	0.067	mg/Kg	04/05/2002 11:15	
Acenaphthene	ND	0.067	mg/Kg	04/05/2002 11:15	
2,4-Dinitrophenol	ND	0.33	mg/Kg	04/05/2002 11:15	
4-Nitrophenol	ND	0.33	mg/Kg	04/05/2002 11:15	
Dibenzofuran	ND	0.067	mg/Kg	04/05/2002 11:15	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	04/05/2002 11:15	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	04/05/2002 11:15	
Diethyl phthalate	ND	0.17	mg/Kg	04/05/2002 11:15	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	04/05/2002 11:15	

Semi-volatile analysis by GC/MS - EPA8270C

## Batch QC report

Test Method: 8270C

Prep Method: 3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/02-01.11

MB: 2002/04/02-01.11-001

Date Extracted: 04/02/2002 07:31

Tel 925 484 1919  
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www.chromalab.com

CA DHS ELAP#2496

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Fluorene	ND	2.0	ug/L	04/02/2002 13:58	
4-Nitroaniline	ND	10	ug/L	04/02/2002 13:58	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	04/02/2002 13:58	
N-Nitrosodiphenylamine	ND	2.0	ug/L	04/02/2002 13:58	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	04/02/2002 13:58	
Hexachlorobenzene	ND	2.0	ug/L	04/02/2002 13:58	
Pentachlorophenol	ND	10	ug/L	04/02/2002 13:58	
Phenanthrene	ND	2.0	ug/L	04/02/2002 13:58	
Anthracene	ND	2.0	ug/L	04/02/2002 13:58	
Di-n-butyl phthalate	ND	5.0	ug/L	04/02/2002 13:58	
Fluoranthene	ND	2.0	ug/L	04/02/2002 13:58	
Pyrene	ND	2.0	ug/L	04/02/2002 13:58	
Butyl benzyl phthalate	ND	5.0	ug/L	04/02/2002 13:58	
3,3-Dichlorobenzidine	ND	5.0	ug/L	04/02/2002 13:58	
Benzo(a)anthracene	ND	2.0	ug/L	04/02/2002 13:58	
bis(2-Ethylhexyl) phthalate	ND	10.0	ug/L	04/02/2002 13:58	
Chrysene	ND	2.0	ug/L	04/02/2002 13:58	
Di-n-octyl phthalate	ND	5.0	ug/L	04/02/2002 13:58	
Benzo(b)fluoranthene	ND	2.0	ug/L	04/02/2002 13:58	
Benzo(k)fluoranthene	ND	2.0	ug/L	04/02/2002 13:58	
Benzo(a)pyrene	ND	2.0	ug/L	04/02/2002 13:58	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	04/02/2002 13:58	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	04/02/2002 13:58	
Benzo(g,h,i)perylene	ND	2.0	ug/L	04/02/2002 13:58	
Benzoic acid	ND	10	ug/L	04/02/2002 13:58	
<b>Surrogate(s)</b>					
Nitrobenzene-d5	56.2	35-114	%	04/02/2002 13:58	
2-Fluorobiphenyl	51.9	43-116	%	04/02/2002 13:58	
p-Terphenyl-d14	67.3	33-141	%	04/02/2002 13:58	
2-Fluorophenol	39.1	25-100	%	04/02/2002 13:58	
Phenol-d6	25.4	10-110	%	04/02/2002 13:58	
2,4,6-Tribromophenol	75.1	10-123	%	04/02/2002 13:58	

Semi-volatile analysis by GC/MS - EPA8270C

## Batch QC report

Test Method: 8270C

Prep Method: 3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/02-01.11

MB: 2002/04/02-01.11-001

Date Extracted: 04/02/2002 07:31

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Phenol	ND	2.0	ug/L	04/02/2002 13:58	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	04/02/2002 13:58	
2-Chlorophenol	ND	2.0	ug/L	04/02/2002 13:58	
1,3-Dichlorobenzene	ND	2.0	ug/L	04/02/2002 13:58	
1,4-Dichlorobenzene	ND	2.0	ug/L	04/02/2002 13:58	
Benzyl alcohol	ND	5.0	ug/L	04/02/2002 13:58	
1,2-Dichlorobenzene	ND	2.0	ug/L	04/02/2002 13:58	
2-Methylphenol	ND	2.0	ug/L	04/02/2002 13:58	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	04/02/2002 13:58	
4-Methylphenol	ND	2.0	ug/L	04/02/2002 13:58	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	04/02/2002 13:58	
Hexachloroethane	ND	2.0	ug/L	04/02/2002 13:58	
Nitrobenzene	ND	2.0	ug/L	04/02/2002 13:58	
Isophorone	ND	2.0	ug/L	04/02/2002 13:58	
2-Nitrophenol	ND	2.0	ug/L	04/02/2002 13:58	
2,4-Dimethylphenol	ND	2.0	ug/L	04/02/2002 13:58	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	04/02/2002 13:58	
2,4-Dichlorophenol	ND	2.0	ug/L	04/02/2002 13:58	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	04/02/2002 13:58	
Naphthalene	ND	2.0	ug/L	04/02/2002 13:58	
4-Chloroaniline	ND	2.0	ug/L	04/02/2002 13:58	
Hexachlorobutadiene	ND	2.0	ug/L	04/02/2002 13:58	
4-Chloro-3-methylphenol	ND	5.0	ug/L	04/02/2002 13:58	
2-Methylnaphthalene	ND	2.0	ug/L	04/02/2002 13:58	
Hexachlorocyclopentadiene	ND	5.0	ug/L	04/02/2002 13:58	
2,4,6-Trichlorophenol	ND	2.0	ug/L	04/02/2002 13:58	
2,4,5-Trichlorophenol	ND	2.0	ug/L	04/02/2002 13:58	
2-Chloronaphthalene	ND	2.0	ug/L	04/02/2002 13:58	
2-Nitroaniline	ND	10	ug/L	04/02/2002 13:58	
Dimethyl phthalate	ND	5.0	ug/L	04/02/2002 13:58	
Acenaphthylene	ND	2.0	ug/L	04/02/2002 13:58	
3-Nitroaniline	ND	2.0	ug/L	04/02/2002 13:58	
Acenaphthene	ND	2.0	ug/L	04/02/2002 13:58	
2,4-Dinitrophenol	ND	10	ug/L	04/02/2002 13:58	
4-Nitrophenol	ND	10	ug/L	04/02/2002 13:58	
Dibenzofuran	ND	2.0	ug/L	04/02/2002 13:58	
2,4-Dinitrotoluene	ND	2.0	ug/L	04/02/2002 13:58	
2,6-Dinitrotoluene	ND	5.0	ug/L	04/02/2002 13:58	
Diethyl phthalate	ND	5.0	ug/L	04/02/2002 13:58	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	04/02/2002 13:58	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Sample ID: **MFC-45-Comp**  
Project: 01-201-A  
7th St.  
Site: Port of Oakland  
Sampled: 03/28/2002 12:52  
Matrix: SoilLab Sample ID: 2002-04-0014-058  
Received: 03/28/2002 19:20  
Extracted: 04/05/2002 11:47  
QC-Batch: 2002/04/05-01.11Tel 925 484 1919  
Fax 925 484 1096  
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www.chromalab.com

CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
Fluorene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
Phenanthrene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
Fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
Chrysene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Benzoic acid	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	69.1	23-120	%	1.00	04/05/2002 20:31	
2-Fluorobiphenyl	80.8	30-115	%	1.00	04/05/2002 20:31	
p-Terphenyl-d14	87.0	18-137	%	1.00	04/05/2002 20:31	
2-Fluorophenol	69.6	25-121	%	1.00	04/05/2002 20:31	
Phenol-d6	78.9	24-113	%	1.00	04/05/2002 20:31	
2,4,6-Tribromophenol	89.8	19-122	%	1.00	04/05/2002 20:31	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-45-Comp</b>	Lab Sample ID: 2002-04-0014-058
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 12:52	QC-Batch: 2002/04/05-01.11
Matrix: Soil	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
4-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Hexachloroethane	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Nitrobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Isophorone	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Naphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
4-Chloroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 20:31	
Acenaphthylene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
Acenaphthene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 20:31	
Dibenzofuran	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 20:31	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-43-Comp</b>	Lab Sample ID: 2002-04-0014-057
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 13:41	QC-Batch: 2002/04/05-01.11
Matrix: Soil	
Sample/Analysis Flag: lrm ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2,6-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Diethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
4-Chlorophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
Fluorene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
4-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
2-Methyl-4,6-dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
4-Bromophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
Hexachlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Pentachlorophenol	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
Phenanthrene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Di-n-butyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
Fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Butyl benzyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
3,3-Dichlorobenzidine	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
Benzo(a)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
bis(2-Ethylhexyl) phthalate	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
Chrysene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Di-n-octyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
Benzo(b)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Benzo(k)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Benzo(a)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Indeno(1,2,3-c,d)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Dibenzo(a,h)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Benzo(g,h,i)perylene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Benzoic acid	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	38.4	23-120	%	5.00	04/05/2002 20:02	
2-Fluorobiphenyl	49.8	30-115	%	5.00	04/05/2002 20:02	
p-Terphenyl-d14	72.5	18-137	%	5.00	04/05/2002 20:02	
2-Fluorophenol	47.6	25-121	%	5.00	04/05/2002 20:02	
Phenol-d6	53.0	24-113	%	5.00	04/05/2002 20:02	
2,4,6-Tribromophenol	76.3	19-122	%	5.00	04/05/2002 20:02	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-43-Comp</b>	Lab Sample ID: 2002-04-0014-057
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 13:41	QC-Batch: 2002/04/05-01.11
Matrix: Soil	
Sample/Analysis Flag: Im ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2-Chlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
1,3-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
1,4-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Benzyl alcohol	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
1,2-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Bis(2-chloroisopropyl) ether	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
4-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
N-Nitroso-di-n-propylamine	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Hexachloroethane	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Nitrobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Isophorone	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2-Nitrophenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2,4-Dimethylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Bis(2-chloroethoxy) methane	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
2,4-Dichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Naphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
4-Chloroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Hexachlorobutadiene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
4-Chloro-3-methylphenol	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
2-Methylnaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Hexachlorocyclopentadiene	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
2,4,6-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2,4,5-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2-Chloronaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
Dimethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 20:02	
Acenaphthylene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
3-Nitroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
Acenaphthene	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	
2,4-Dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
4-Nitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 20:02	
Dibenzofuran	ND	0.34	mg/Kg	5.00	04/05/2002 20:02	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-23-Comp</b>	Lab Sample ID: 2002-04-0014-056
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 08:00	QC-Batch: 2002/04/05-01.11
Matrix: Soil	

Tel 925 484 1919  
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www.chromalab.com  
  
CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
Fluorene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
Phenanthrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
Fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
Chrysene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Benzoic acid	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	62.8	23-120	%	1.00	04/05/2002 19:34	
2-Fluorobiphenyl	70.9	30-115	%	1.00	04/05/2002 19:34	
p-Terphenyl-d14	74.8	18-137	%	1.00	04/05/2002 19:34	
2-Fluorophenol	67.9	25-121	%	1.00	04/05/2002 19:34	
Phenol-d6	74.1	24-113	%	1.00	04/05/2002 19:34	
2,4,6-Tribromophenol	79.6	19-122	%	1.00	04/05/2002 19:34	



## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-23-Comp</b>	Lab Sample ID: 2002-04-0014-056
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 08:00	QC-Batch: 2002/04/05-01.11
Matrix: Soil	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
4-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Hexachloroethane	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Nitrobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Isophorone	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Naphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
4-Chloroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:34	
Acenaphthylene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
Acenaphthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:34	
Dibenzofuran	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 19:34	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Sample ID: **MFC-22-Comp**  
Project: 01-201-A  
7th St.  
Site: Port of Oakland  
Sampled: 03/28/2002 08:50  
Matrix: SoilLab Sample ID: 2002-04-0014-055  
Received: 03/28/2002 19:20  
Extracted: 04/05/2002 11:47  
QC-Batch: 2002/04/05-01.11Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
Fluorene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
Phenanthrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
Fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
Chrysene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Benzoic acid	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	56.8	23-120	%	1.00	04/05/2002 19:05	
2-Fluorobiphenyl	62.3	30-115	%	1.00	04/05/2002 19:05	
p-Terphenyl-d14	61.6	18-137	%	1.00	04/05/2002 19:05	
2-Fluorophenol	55.9	25-121	%	1.00	04/05/2002 19:05	
Phenol-d6	62.4	24-113	%	1.00	04/05/2002 19:05	
2,4,6-Tribromophenol	68.7	19-122	%	1.00	04/05/2002 19:05	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#2496

Sample ID: <b>MFC-22-Comp</b>	Lab Sample ID: 2002-04-0014-055
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 08:50	QC-Batch: 2002/04/05-01.11
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
4-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Hexachloroethane	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Nitrobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Isophorone	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Naphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
4-Chloroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 19:05	
Acenaphthylene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
Acenaphthene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 19:05	
Dibenzofuran	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 19:05	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Sample ID: **MFC-21-Comp**  
Project: 01-201-A  
7th St.  
Site: Port of Oakland  
Sampled: 03/28/2002 09:30  
Matrix: SoilLab Sample ID: 2002-04-0014-054  
Received: 03/28/2002 19:20  
Extracted: 04/05/2002 11:47  
QC-Batch: 2002/04/05-01.11Tel 925 484 1919  
Fax 925 484 1096  
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www.chromalab.com

CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
Fluorene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
Phenanthrene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
Fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
Chrysene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Benzoic acid	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	62.4	23-120	%	1.00	04/05/2002 18:36	
2-Fluorobiphenyl	72.4	30-115	%	1.00	04/05/2002 18:36	
p-Terphenyl-d14	76.0	18-137	%	1.00	04/05/2002 18:36	
2-Fluorophenol	56.9	25-121	%	1.00	04/05/2002 18:36	
Phenol-d6	63.8	24-113	%	1.00	04/05/2002 18:36	
2,4,6-Tribromophenol	73.6	19-122	%	1.00	04/05/2002 18:36	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-21-Comp</b>	Lab Sample ID: 2002-04-0014-054
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/05-01.11
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
4-Methylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Hexachloroethane	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Nitrobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Isophorone	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Naphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
4-Chloroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	04/05/2002 18:36	
Acenaphthylene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
Acenaphthene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	04/05/2002 18:36	
Dibenzofuran	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	04/05/2002 18:36	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-36-Comp</b>	Lab Sample ID: 2002-04-0014-053
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-01.11
Matrix: Soil	
Sample/Analysis Flag: sdo,lrn ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2,6-Dinitrotoluene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Diethyl phthalate	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
4-Chlorophenyl phenyl ether	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
Fluorene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
4-Nitroaniline	ND	17	mg/Kg	50.00	04/05/2002 18:07	
2-Methyl-4,6-dinitrophenol	ND	17	mg/Kg	50.00	04/05/2002 18:07	
N-Nitrosodiphenylamine	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
4-Bromophenyl phenyl ether	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
Hexachlorobenzene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Pentachlorophenol	ND	17	mg/Kg	50.00	04/05/2002 18:07	
Phenanthrene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Anthracene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Di-n-butyl phthalate	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
Fluoranthene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Pyrene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Butyl benzyl phthalate	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
3,3-Dichlorobenzidine	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
Benzo(a)anthracene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
bis(2-Ethylhexyl) phthalate	ND	17	mg/Kg	50.00	04/05/2002 18:07	
Chrysene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Di-n-octyl phthalate	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
Benzo(b)fluoranthene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Benzo(k)fluoranthene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Benzo(a)pyrene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Indeno(1,2,3-c,d)pyrene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Dibenzo(a,h)anthracene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Benzo(g,h,i)perylene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Benzoic acid	ND	17	mg/Kg	50.00	04/05/2002 18:07	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	NA	23-120	%	50.00	04/05/2002 18:07	
2-Fluorobiphenyl	NA	30-115	%	50.00	04/05/2002 18:07	
p-Terphenyl-d14	NA	18-137	%	50.00	04/05/2002 18:07	
2-Fluorophenol	NA	25-121	%	50.00	04/05/2002 18:07	
Phenol-d6	NA	24-113	%	50.00	04/05/2002 18:07	
2,4,6-Tribromophenol	NA	19-122	%	50.00	04/05/2002 18:07	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-36-Comp</b>	Lab Sample ID: 2002-04-0014-053
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 11:47
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/05-01.11
Matrix: Soil	
Sample/Analysis Flag: sdo.lm ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Bis(2-chloroethyl)ether	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2-Chlorophenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
1,3-Dichlorobenzene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
1,4-Dichlorobenzene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Benzyl alcohol	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
1,2-Dichlorobenzene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2-Methylphenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Bis(2-chloroisopropyl) ether	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
4-Methylphenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
N-Nitroso-di-n-propylamine	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Hexachloroethane	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Nitrobenzene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Isophorone	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2-Nitrophenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2,4-Dimethylphenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Bis(2-chloroethoxy) methane	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
2,4-Dichlorophenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
1,2,4-Trichlorobenzene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Naphthalene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
4-Chloroaniline	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Hexachlorobutadiene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
4-Chloro-3-methylphenol	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
2-Methylnaphthalene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Hexachlorocyclopentadiene	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
2,4,6-Trichlorophenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2,4,5-Trichlorophenol	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2-Chloronaphthalene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2-Nitroaniline	ND	17	mg/Kg	50.00	04/05/2002 18:07	
Dimethyl phthalate	ND	8.5	mg/Kg	50.00	04/05/2002 18:07	
Acenaphthylene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
3-Nitroaniline	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
Acenaphthene	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	
2,4-Dinitrophenol	ND	17	mg/Kg	50.00	04/05/2002 18:07	
4-Nitrophenol	ND	17	mg/Kg	50.00	04/05/2002 18:07	
Dibenzofuran	ND	3.4	mg/Kg	50.00	04/05/2002 18:07	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-25-4.5-5.0

Lab Sample ID: 2002-04-0014-048

Project: 01-201-A  
7th St.

Received: 03/28/2002 19:20

Site: Port of Oakland

Extracted: 04/04/2002 14:46

Sampled: 03/28/2002 11:00

QC-Batch: 2002/04/04-02.11

Matrix: Soil

Sample/Analysis Flag: Im ( See Legend &amp; Note section )

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2,6-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Diethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
4-Chlorophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
Fluorene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
4-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
2-Methyl-4,6-dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
4-Bromophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
Hexachlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Pentachlorophenol	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
Phenanthrene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Di-n-butyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
Fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Butyl benzyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
3,3-Dichlorobenzidine	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
Benzo(a)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
bis(2-Ethylhexyl) phthalate	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
Chrysene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Di-n-octyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
Benzo(b)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Benzo(k)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Benzo(a)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Indeno(1,2,3-c,d)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Dibenzo(a,h)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Benzo(g,h,i)perylene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Benzoic acid	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	77.4	23-120	%	5.00	04/05/2002 18:27	
2-Fluorobiphenyl	90.8	30-115	%	5.00	04/05/2002 18:27	
p-Terphenyl-d14	113.3	18-137	%	5.00	04/05/2002 18:27	
2-Fluorophenol	68.2	25-121	%	5.00	04/05/2002 18:27	
Phenol-d6	91.4	24-113	%	5.00	04/05/2002 18:27	
2,4,6-Tribromophenol	81.8	19-122	%	5.00	04/05/2002 18:27	



Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-25-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-048
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002 11:00	QC-Batch: 2002/04/04-02.11
Matrix: Soil	
Sample/Analysis Flag: Im ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2-Chlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
1,3-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
1,4-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Benzyl alcohol	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
1,2-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Bis(2-chloroisopropyl) ether	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
4-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
N-Nitroso-di-n-propylamine	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Hexachloroethane	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Nitrobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Isophorone	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2-Nitrophenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2,4-Dimethylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Bis(2-chloroethoxy) methane	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
2,4-Dichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Naphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
4-Chloroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Hexachlorobutadiene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
4-Chloro-3-methylphenol	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
2-Methylnaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Hexachlorocyclopentadiene	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
2,4,6-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2,4,5-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2-Chloronaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
Dimethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 18:27	
Acenaphthylene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
3-Nitroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
Acenaphthene	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	
2,4-Dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
4-Nitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 18:27	
Dibenzofuran	ND	0.34	mg/Kg	5.00	04/05/2002 18:27	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-25-1.0-1.5-DUP</b>	Lab Sample ID: 2002-04-0014-047
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002 10:40	QC-Batch: 2002/04/04-02.11
Matrix: Soil	
Sample/Analysis Flag: sdo,lrn ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2,6-Dinitrotoluene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Diethyl phthalate	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
4-Chlorophenyl phenyl ether	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
Fluorene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
4-Nitroaniline	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
2-Methyl-4,6-dinitrophenol	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
N-Nitrosodiphenylamine	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
4-Bromophenyl phenyl ether	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
Hexachlorobenzene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Pentachlorophenol	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
Phenanthrene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Anthracene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Di-n-butyl phthalate	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
Fluoranthene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Pyrene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Butyl benzyl phthalate	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
3,3-Dichlorobenzidine	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
Benzo(a)anthracene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
bis(2-Ethylhexyl) phthalate	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
Chrysene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Di-n-octyl phthalate	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
Benzo(b)fluoranthene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Benzo(k)fluoranthene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Benzo(a)pyrene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Indeno(1,2,3-c,d)pyrene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Dibenzo(a,h)anthracene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Benzo(g,h,i)perylene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Benzoic acid	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	NA	23-120	%	10.00	04/05/2002 17:38	
2-Fluorobiphenyl	NA	30-115	%	10.00	04/05/2002 17:38	
p-Terphenyl-d14	NA	18-137	%	10.00	04/05/2002 17:38	
2-Fluorophenol	NA	25-121	%	10.00	04/05/2002 17:38	
Phenol-d6	NA	24-113	%	10.00	04/05/2002 17:38	
2,4,6-Tribromophenol	NA	19-122	%	10.00	04/05/2002 17:38	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
Fax 925 484 1096  
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CA DHS ELAP#2496

Sample ID: <b>MFC-25-1.0-1.5-DUP</b>	Lab Sample ID: 2002-04-0014-047
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002 10:40	QC-Batch: 2002/04/04-02.11
Matrix: Soil	
Sample/Analysis Flag: sdo.lrn ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Bis(2-chloroethyl)ether	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2-Chlorophenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
1,3-Dichlorobenzene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
1,4-Dichlorobenzene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Benzyl alcohol	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
1,2-Dichlorobenzene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2-Methylphenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Bis(2-chloroisopropyl) ether	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
4-Methylphenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
N-Nitroso-di-n-propylamine	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Hexachloroethane	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Nitrobenzene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Isophorone	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2-Nitrophenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2,4-Dimethylphenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Bis(2-chloroethoxy) methane	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
2,4-Dichlorophenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
1,2,4-Trichlorobenzene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Naphthalene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
4-Chloroaniline	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Hexachlorobutadiene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
4-Chloro-3-methylphenol	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
2-Methylnaphthalene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Hexachlorocyclopentadiene	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
2,4,6-Trichlorophenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2,4,5-Trichlorophenol	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2-Chloronaphthalene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2-Nitroaniline	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
Dimethyl phthalate	ND	1.7	mg/Kg	10.00	04/05/2002 17:38	
Acenaphthylene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
3-Nitroaniline	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
Acenaphthene	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	
2,4-Dinitrophenol	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
4-Nitrophenol	ND	3.3	mg/Kg	10.00	04/05/2002 17:38	
Dibenzofuran	ND	0.67	mg/Kg	10.00	04/05/2002 17:38	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-21-1.5-2.0-DUP</b>	Lab Sample ID: 2002-04-0014-038
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/04-02.11
Matrix: Soil	
Sample/Analysis Flag: 1m ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2,6-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Diethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
4-Chlorophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
Fluorene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
4-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
2-Methyl-4,6-dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
4-Bromophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
Hexachlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Pentachlorophenol	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
Phenanthrene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Di-n-butyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
Fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Butyl benzyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
3,3-Dichlorobenzidine	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
Benzo(a)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
bis(2-Ethylhexyl) phthalate	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
Chrysene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Di-n-octyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
Benzo(b)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Benzo(k)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Benzo(a)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Indeno(1,2,3-c,d)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Dibenzo(a,h)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Benzo(g,h,i)perylene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Benzoic acid	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	71.7	23-120	%	5.00	04/05/2002 14:19	
2-Fluorobiphenyl	81.1	30-115	%	5.00	04/05/2002 14:19	
p-Terphenyl-d14	94.6	18-137	%	5.00	04/05/2002 14:19	
2-Fluorophenol	64.1	25-121	%	5.00	04/05/2002 14:19	
Phenol-d6	82.3	24-113	%	5.00	04/05/2002 14:19	
2,4,6-Tribromophenol	79.3	19-122	%	5.00	04/05/2002 14:19	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-21-1.5-2.0-DUP	Lab Sample ID: 2002-04-0014-038
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002 09:30	QC-Batch: 2002/04/04-02.11
Matrix: Soil	
Sample/Analysis Flag: Irm ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2-Chlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
1,3-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
1,4-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Benzyl alcohol	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
1,2-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Bis(2-chloroisopropyl) ether	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
4-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
N-Nitroso-di-n-propylamine	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Hexachloroethane	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Nitrobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Isophorone	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2-Nitrophenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2,4-Dimethylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Bis(2-chloroethoxy) methane	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
2,4-Dichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Naphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
4-Chloroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Hexachlorobutadiene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
4-Chloro-3-methylphenol	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
2-Methylnaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Hexachlorocyclopentadiene	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
2,4,6-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2,4,5-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2-Chloronaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
Dimethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 14:19	
Acenaphthylene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
3-Nitroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
Acenaphthene	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	
2,4-Dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
4-Nitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 14:19	
Dibenzofuran	ND	0.34	mg/Kg	5.00	04/05/2002 14:19	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-36-1.5-2.0 DUP</b>	Lab Sample ID: 2002-04-0014-035
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002 13:50	QC-Batch: 2002/04/04-02.11
Matrix: Soil	
Sample/Analysis Flag: Irr ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2,6-Dinitrotoluene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Diethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
4-Chlorophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
Fluorene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
4-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
2-Methyl-4,6-dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
4-Bromophenyl phenyl ether	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
Hexachlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Pentachlorophenol	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
Phenanthrene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Di-n-butyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
Fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Butyl benzyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
3,3-Dichlorobenzidine	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
Benzo(a)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
bis(2-Ethylhexyl) phthalate	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
Chrysene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Di-n-octyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
Benzo(b)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Benzo(k)fluoranthene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Benzo(a)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Indeno(1,2,3-c,d)pyrene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Dibenzo(a,h)anthracene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Benzo(g,h,i)perylene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Benzoic acid	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	72.5	23-120	%	5.00	04/05/2002 13:42	
2-Fluorobiphenyl	80.1	30-115	%	5.00	04/05/2002 13:42	
p-Terphenyl-d14	88.5	18-137	%	5.00	04/05/2002 13:42	
2-Fluorophenol	63.9	25-121	%	5.00	04/05/2002 13:42	
Phenol-d6	86.6	24-113	%	5.00	04/05/2002 13:42	
2,4,6-Tribromophenol	77.2	19-122	%	5.00	04/05/2002 13:42	

## Semi-volatile analysis by GC/MS - EPA8270C

## Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: **MFC-36-1.5-2.0 DUP**      Lab Sample ID: 2002-04-0014-035  
 Project: 01-201-A      Received: 03/28/2002 19:20  
           7th St.  
 Site: Port of Oakland      Extracted: 04/04/2002 14:46  
 Sampled: 03/28/2002 13:50      QC-Batch: 2002/04/04-02.11  
 Matrix: Soil  
 Sample/Analysis Flag: Irn ( See Legend & Note section )

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2-Chlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
1,3-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
1,4-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Benzyl alcohol	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
1,2-Dichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Bis(2-chloroisopropyl) ether	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
4-Methylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
N-Nitroso-di-n-propylamine	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Hexachloroethane	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Nitrobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Isophorone	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2-Nitrophenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2,4-Dimethylphenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Bis(2-chloroethoxy) methane	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
2,4-Dichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Naphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
4-Chloroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Hexachlorobutadiene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
4-Chloro-3-methylphenol	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
2-Methylnaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Hexachlorocyclopentadiene	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
2,4,6-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2,4,5-Trichlorophenol	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2-Chloronaphthalene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2-Nitroaniline	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
Dimethyl phthalate	ND	0.85	mg/Kg	5.00	04/05/2002 13:42	
Acenaphthylene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
3-Nitroaniline	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
Acenaphthene	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	
2,4-Dinitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
4-Nitrophenol	ND	1.7	mg/Kg	5.00	04/05/2002 13:42	
Dibenzofuran	ND	0.34	mg/Kg	5.00	04/05/2002 13:42	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-7-GW</b>	Lab Sample ID: 2002-04-0014-031
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: ,rl ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2,6-Dinitrotoluene	ND	15	ug/L	3.00	04/05/2002 12:47	
Diethyl phthalate	ND	15	ug/L	3.00	04/05/2002 12:47	
4-Chlorophenyl phenyl ether	ND	15	ug/L	3.00	04/05/2002 12:47	
Fluorene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
4-Nitroaniline	ND	30	ug/L	3.00	04/05/2002 12:47	
2-Methyl-4,6-dinitrophenol	ND	30	ug/L	3.00	04/05/2002 12:47	
N-Nitrosodiphenylamine	ND	6.0	ug/L	3.00	04/05/2002 12:47	
4-Bromophenyl phenyl ether	ND	15	ug/L	3.00	04/05/2002 12:47	
Hexachlorobenzene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Pentachlorophenol	ND	30	ug/L	3.00	04/05/2002 12:47	
Phenanthrene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Anthracene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Di-n-butyl phthalate	ND	15	ug/L	3.00	04/05/2002 12:47	
Fluoranthene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Pyrene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Butyl benzyl phthalate	ND	15	ug/L	3.00	04/05/2002 12:47	
3,3-Dichlorobenzidine	ND	15	ug/L	3.00	04/05/2002 12:47	
Benzo(a)anthracene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
bis(2-Ethylhexyl) phthalate	ND	30	ug/L	3.00	04/05/2002 12:47	
Chrysene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Di-n-octyl phthalate	ND	15	ug/L	3.00	04/05/2002 12:47	
Benzo(b)fluoranthene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Benzo(k)fluoranthene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Benzo(a)pyrene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Indeno(1,2,3-c,d)pyrene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Dibenzo(a,h)anthracene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Benzo(g,h,i)perylene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Benzoic acid	ND	30	ug/L	3.00	04/05/2002 12:47	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	41.1	35-114	%	3.00	04/05/2002 12:47	
2-Fluorobiphenyl	54.8	43-116	%	3.00	04/05/2002 12:47	
p-Terphenyl-d14	57.6	33-141	%	3.00	04/05/2002 12:47	
2-Fluorophenol	35.6	25-100	%	3.00	04/05/2002 12:47	
Phenol-d6	29.4	10-110	%	3.00	04/05/2002 12:47	
2,4,6-Tribromophenol	73.3	10-123	%	3.00	04/05/2002 12:47	



Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-7-GW</b>	Lab Sample ID: 2002-04-0014-031
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 14:46
Sampled: 03/28/2002	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: ,rl ( See Legend & Note section )	

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www.chromalab.com  
CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Bis(2-chloroethyl)ether	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2-Chlorophenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
1,3-Dichlorobenzene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
1,4-Dichlorobenzene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Benzyl alcohol	ND	15	ug/L	3.00	04/05/2002 12:47	
1,2-Dichlorobenzene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2-Methylphenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Bis(2-chloroisopropyl) ether	ND	6.0	ug/L	3.00	04/05/2002 12:47	
4-Methylphenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
N-Nitroso-di-n-propylamine	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Hexachloroethane	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Nitrobenzene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Isophorone	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2-Nitrophenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2,4-Dimethylphenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Bis(2-chloroethoxy) methane	ND	15	ug/L	3.00	04/05/2002 12:47	
2,4-Dichlorophenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
1,2,4-Trichlorobenzene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Naphthalene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
4-Chloroaniline	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Hexachlorobutadiene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
4-Chloro-3-methylphenol	ND	15	ug/L	3.00	04/05/2002 12:47	
2-Methylnaphthalene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Hexachlorocyclopentadiene	ND	15	ug/L	3.00	04/05/2002 12:47	
2,4,6-Trichlorophenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2,4,5-Trichlorophenol	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2-Chloronaphthalene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2-Nitroaniline	ND	30	ug/L	3.00	04/05/2002 12:47	
Dimethyl phthalate	ND	15	ug/L	3.00	04/05/2002 12:47	
Acenaphthylene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
3-Nitroaniline	ND	6.0	ug/L	3.00	04/05/2002 12:47	
Acenaphthene	ND	6.0	ug/L	3.00	04/05/2002 12:47	
2,4-Dinitrophenol	ND	30	ug/L	3.00	04/05/2002 12:47	
4-Nitrophenol	ND	30	ug/L	3.00	04/05/2002 12:47	
Dibenzofuran	ND	6.0	ug/L	3.00	04/05/2002 12:47	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-31-GW</b>	Lab Sample ID: 2002-04-0014-018
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 07:31
Sampled: 03/28/2002 13:45	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: sdo ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	20	ug/L	10.00	04/03/2002 21:08	
2,6-Dinitrotoluene	ND	50	ug/L	10.00	04/03/2002 21:08	
Diethyl phthalate	ND	50	ug/L	10.00	04/03/2002 21:08	
4-Chlorophenyl phenyl ether	ND	50	ug/L	10.00	04/03/2002 21:08	
Fluorene	81	20	ug/L	10.00	04/03/2002 21:08	
4-Nitroaniline	ND	100	ug/L	10.00	04/03/2002 21:08	
2-Methyl-4,6-dinitrophenol	ND	100	ug/L	10.00	04/03/2002 21:08	
N-Nitrosodiphenylamine	ND	20	ug/L	10.00	04/03/2002 21:08	
4-Bromophenyl phenyl ether	ND	50	ug/L	10.00	04/03/2002 21:08	
Hexachlorobenzene	ND	20	ug/L	10.00	04/03/2002 21:08	
Pentachlorophenol	ND	100	ug/L	10.00	04/03/2002 21:08	
Phenanthrene	170	20	ug/L	10.00	04/03/2002 21:08	
Anthracene	ND	20	ug/L	10.00	04/03/2002 21:08	
Di-n-butyl phthalate	ND	50	ug/L	10.00	04/03/2002 21:08	
Fluoranthene	ND	20	ug/L	10.00	04/03/2002 21:08	
Pyrene	ND	20	ug/L	10.00	04/03/2002 21:08	
Butyl benzyl phthalate	ND	50	ug/L	10.00	04/03/2002 21:08	
3,3-Dichlorobenzidine	ND	50	ug/L	10.00	04/03/2002 21:08	
Benzo(a)anthracene	ND	20	ug/L	10.00	04/03/2002 21:08	
bis(2-Ethylhexyl) phthalate	ND	100	ug/L	10.00	04/03/2002 21:08	
Chrysene	ND	20	ug/L	10.00	04/03/2002 21:08	
Di-n-octyl phthalate	ND	50	ug/L	10.00	04/03/2002 21:08	
Benzo(b)fluoranthene	ND	20	ug/L	10.00	04/03/2002 21:08	
Benzo(k)fluoranthene	ND	20	ug/L	10.00	04/03/2002 21:08	
Benzo(a)pyrene	ND	20	ug/L	10.00	04/03/2002 21:08	
Indeno(1,2,3-c,d)pyrene	ND	20	ug/L	10.00	04/03/2002 21:08	
Dibenzo(a,h)anthracene	ND	20	ug/L	10.00	04/03/2002 21:08	
Benzo(g,h,i)perylene	ND	20	ug/L	10.00	04/03/2002 21:08	
Benzoic acid	ND	100	ug/L	10.00	04/03/2002 21:08	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	NA	35-114	%	10.00	04/03/2002 21:08	
2-Fluorobiphenyl	NA	43-116	%	10.00	04/03/2002 21:08	
p-Terphenyl-d14	NA	33-141	%	10.00	04/03/2002 21:08	
2-Fluorophenol	NA	25-100	%	10.00	04/03/2002 21:08	
Phenol-d6	NA	10-110	%	10.00	04/03/2002 21:08	
2,4,6-Tribromophenol	NA	10-123	%	10.00	04/03/2002 21:08	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-31-GW</b>	Lab Sample ID: 2002-04-0014-018
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 07:31
Sampled: 03/28/2002 13:45	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: sdo ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	20	ug/L	10.00	04/03/2002 21:08	
Bis(2-chloroethyl)ether	ND	20	ug/L	10.00	04/03/2002 21:08	
2-Chlorophenol	ND	20	ug/L	10.00	04/03/2002 21:08	
1,3-Dichlorobenzene	ND	20	ug/L	10.00	04/03/2002 21:08	
1,4-Dichlorobenzene	ND	20	ug/L	10.00	04/03/2002 21:08	
Benzyl alcohol	ND	50	ug/L	10.00	04/03/2002 21:08	
1,2-Dichlorobenzene	ND	20	ug/L	10.00	04/03/2002 21:08	
2-Methylphenol	ND	20	ug/L	10.00	04/03/2002 21:08	
Bis(2-chloroisopropyl) ether	ND	20	ug/L	10.00	04/03/2002 21:08	
4-Methylphenol	ND	20	ug/L	10.00	04/03/2002 21:08	
N-Nitroso-di-n-propylamine	ND	20	ug/L	10.00	04/03/2002 21:08	
Hexachloroethane	ND	20	ug/L	10.00	04/03/2002 21:08	
Nitrobenzene	ND	20	ug/L	10.00	04/03/2002 21:08	
Isophorone	ND	20	ug/L	10.00	04/03/2002 21:08	
2-Nitrophenol	ND	20	ug/L	10.00	04/03/2002 21:08	
2,4-Dimethylphenol	ND	20	ug/L	10.00	04/03/2002 21:08	
Bis(2-chloroethoxy) methane	ND	50	ug/L	10.00	04/03/2002 21:08	
2,4-Dichlorophenol	ND	20	ug/L	10.00	04/03/2002 21:08	
1,2,4-Trichlorobenzene	ND	20	ug/L	10.00	04/03/2002 21:08	
Naphthalene	390	20	ug/L	10.00	04/03/2002 21:08	
4-Chloroaniline	ND	20	ug/L	10.00	04/03/2002 21:08	
Hexachlorobutadiene	ND	20	ug/L	10.00	04/03/2002 21:08	
4-Chloro-3-methylphenol	ND	50	ug/L	10.00	04/03/2002 21:08	
2-Methylnaphthalene	640	20	ug/L	10.00	04/03/2002 21:08	
Hexachlorocyclopentadiene	ND	50	ug/L	10.00	04/03/2002 21:08	
2,4,6-Trichlorophenol	ND	20	ug/L	10.00	04/03/2002 21:08	
2,4,5-Trichlorophenol	ND	20	ug/L	10.00	04/03/2002 21:08	
2-Chloronaphthalene	ND	20	ug/L	10.00	04/03/2002 21:08	
2-Nitroaniline	ND	100	ug/L	10.00	04/03/2002 21:08	
Dimethyl phthalate	ND	50	ug/L	10.00	04/03/2002 21:08	
Acenaphthylene	ND	20	ug/L	10.00	04/03/2002 21:08	
3-Nitroaniline	ND	20	ug/L	10.00	04/03/2002 21:08	
Acenaphthene	ND	20	ug/L	10.00	04/03/2002 21:08	
2,4-Dinitrophenol	ND	100	ug/L	10.00	04/03/2002 21:08	
4-Nitrophenol	ND	100	ug/L	10.00	04/03/2002 21:08	
Dibenzofuran	ND	20	ug/L	10.00	04/03/2002 21:08	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-12-GW</b>	Lab Sample ID: 2002-04-0014-008
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 07:31
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: ri ( See Legend & Note section )	

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2,6-Dinitrotoluene	ND	12	ug/L	2.30	04/03/2002 20:39	
Diethyl phthalate	ND	12	ug/L	2.30	04/03/2002 20:39	
4-Chlorophenyl phenyl ether	ND	12	ug/L	2.30	04/03/2002 20:39	
Fluorene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
4-Nitroaniline	ND	23	ug/L	2.30	04/03/2002 20:39	
2-Methyl-4,6-dinitrophenol	ND	23	ug/L	2.30	04/03/2002 20:39	
N-Nitrosodiphenylamine	ND	4.7	ug/L	2.30	04/03/2002 20:39	
4-Bromophenyl phenyl ether	ND	12	ug/L	2.30	04/03/2002 20:39	
Hexachlorobenzene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Pentachlorophenol	ND	23	ug/L	2.30	04/03/2002 20:39	
Phenanthrene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Anthracene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Di-n-butyl phthalate	ND	12	ug/L	2.30	04/03/2002 20:39	
Fluoranthene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Pyrene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Butyl benzyl phthalate	ND	12	ug/L	2.30	04/03/2002 20:39	
3,3-Dichlorobenzidine	ND	12	ug/L	2.30	04/03/2002 20:39	
Benzo(a)anthracene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
bis(2-Ethylhexyl) phthalate	ND	23	ug/L	2.30	04/03/2002 20:39	
Chrysene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Di-n-octyl phthalate	ND	12	ug/L	2.30	04/03/2002 20:39	
Benzo(b)fluoranthene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Benzo(k)fluoranthene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Benzo(a)pyrene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Indeno(1,2,3-c,d)pyrene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Dibenzo(a,h)anthracene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Benzo(g,h,i)perylene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Benzoic acid	ND	23	ug/L	2.30	04/03/2002 20:39	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	41.7	35-114	%	2.30	04/03/2002 20:39	
2-Fluorobiphenyl	66.5	43-116	%	2.30	04/03/2002 20:39	
p-Terphenyl-d14	66.5	33-141	%	2.30	04/03/2002 20:39	
2-Fluorophenol	31.3	25-100	%	2.30	04/03/2002 20:39	
Phenol-d6	23.3	10-110	%	2.30	04/03/2002 20:39	
2,4,6-Tribromophenol	76.0	10-123	%	2.30	04/03/2002 20:39	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-12-GW</b>	Lab Sample ID: 2002-04-0014-008
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 07:31
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Tel 925 484 1919  
Fax 925 484 1096  
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www.chromalab.com  
  
CA DHS ELAP#2496

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Bis(2-chloroethyl)ether	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2-Chlorophenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
1,3-Dichlorobenzene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
1,4-Dichlorobenzene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Benzyl alcohol	ND	12	ug/L	2.30	04/03/2002 20:39	
1,2-Dichlorobenzene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2-Methylphenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Bis(2-chloroisopropyl) ether	ND	4.7	ug/L	2.30	04/03/2002 20:39	
4-Methylphenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
N-Nitroso-di-n-propylamine	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Hexachloroethane	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Nitrobenzene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Isophorone	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2-Nitrophenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2,4-Dimethylphenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Bis(2-chloroethoxy) methane	ND	12	ug/L	2.30	04/03/2002 20:39	
2,4-Dichlorophenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
1,2,4-Trichlorobenzene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Naphthalene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
4-Chloroaniline	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Hexachlorobutadiene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
4-Chloro-3-methylphenol	ND	12	ug/L	2.30	04/03/2002 20:39	
2-Methylnaphthalene	40	4.7	ug/L	2.30	04/03/2002 20:39	
Hexachlorocyclopentadiene	ND	12	ug/L	2.30	04/03/2002 20:39	
2,4,6-Trichlorophenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2,4,5-Trichlorophenol	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2-Chloronaphthalene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2-Nitroaniline	ND	23	ug/L	2.30	04/03/2002 20:39	
Dimethyl phthalate	ND	12	ug/L	2.30	04/03/2002 20:39	
Acenaphthylene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
3-Nitroaniline	ND	4.7	ug/L	2.30	04/03/2002 20:39	
Acenaphthene	ND	4.7	ug/L	2.30	04/03/2002 20:39	
2,4-Dinitrophenol	ND	23	ug/L	2.30	04/03/2002 20:39	
4-Nitrophenol	ND	23	ug/L	2.30	04/03/2002 20:39	
Dibenzofuran	ND	4.7	ug/L	2.30	04/03/2002 20:39	

## Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental

Attn: Chris Alger

Test Method: 8270C

Prep Method: 3550B/8270C  
3510C/8270CSTL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-8-GW</b>	Lab Sample ID: 2002-04-0014-006
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 07:31
Sampled: 03/28/2002 10:00	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
2,4-Dinitrotoluene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2,6-Dinitrotoluene	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Diethyl phthalate	ND	6.9	ug/L	1.40	04/03/2002 20:11	
4-Chlorophenyl phenyl ether	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Fluorene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
4-Nitroaniline	ND	14	ug/L	1.40	04/03/2002 20:11	
2-Methyl-4,6-dinitrophenol	ND	14	ug/L	1.40	04/03/2002 20:11	
N-Nitrosodiphenylamine	ND	2.8	ug/L	1.40	04/03/2002 20:11	
4-Bromophenyl phenyl ether	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Hexachlorobenzene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Pentachlorophenol	ND	14	ug/L	1.40	04/03/2002 20:11	
Phenanthrene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Anthracene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Di-n-butyl phthalate	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Fluoranthene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Pyrene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Butyl benzyl phthalate	ND	6.9	ug/L	1.40	04/03/2002 20:11	
3,3-Dichlorobenzidine	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Benzo(a)anthracene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
bis(2-Ethylhexyl) phthalate	ND	14	ug/L	1.40	04/03/2002 20:11	
Chrysene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Di-n-octyl phthalate	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Benzo(b)fluoranthene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Benzo(k)fluoranthene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Benzo(a)pyrene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Indeno(1,2,3-c,d)pyrene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Dibenzo(a,h)anthracene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Benzo(g,h,i)perylene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Benzoic acid	ND	14	ug/L	1.40	04/03/2002 20:11	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	40.4	35-114	%	1.40	04/03/2002 20:11	
2-Fluorobiphenyl	43.3	43-116	%	1.40	04/03/2002 20:11	
p-Terphenyl-d14	52.9	33-141	%	1.40	04/03/2002 20:11	
2-Fluorophenol	29.1	25-100	%	1.40	04/03/2002 20:11	
Phenol-d6	22.3	10-110	%	1.40	04/03/2002 20:11	
2,4,6-Tribromophenol	60.5	10-123	%	1.40	04/03/2002 20:11	

Semi-volatile analysis by GC/MS - EPA8270C

Iris Environmental  
Attn: Chris Alger

Test Method: 8270C  
Prep Method: 3550B/8270C  
3510C/8270C

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CA DHS ELAP#2496

Sample ID: <b>MFC-8-GW</b>	Lab Sample ID: 2002-04-0014-006
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 07:31
Sampled: 03/28/2002 10:00	QC-Batch: 2002/04/02-01.11
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Bis(2-chloroethyl)ether	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2-Chlorophenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
1,3-Dichlorobenzene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
1,4-Dichlorobenzene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Benzyl alcohol	ND	6.9	ug/L	1.40	04/03/2002 20:11	
1,2-Dichlorobenzene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2-Methylphenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Bis(2-chloroisopropyl) ether	ND	2.8	ug/L	1.40	04/03/2002 20:11	
4-Methylphenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
N-Nitroso-di-n-propylamine	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Hexachloroethane	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Nitrobenzene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Isophorone	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2-Nitrophenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2,4-Dimethylphenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Bis(2-chloroethoxy) methane	ND	6.9	ug/L	1.40	04/03/2002 20:11	
2,4-Dichlorophenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
1,2,4-Trichlorobenzene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Naphthalene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
4-Chloroaniline	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Hexachlorobutadiene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
4-Chloro-3-methylphenol	ND	6.9	ug/L	1.40	04/03/2002 20:11	
2-Methylnaphthalene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Hexachlorocyclopentadiene	ND	6.9	ug/L	1.40	04/03/2002 20:11	
2,4,6-Trichlorophenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2,4,5-Trichlorophenol	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2-Chloronaphthalene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2-Nitroaniline	ND	14	ug/L	1.40	04/03/2002 20:11	
Dimethyl phthalate	ND	6.9	ug/L	1.40	04/03/2002 20:11	
Acenaphthylene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
3-Nitroaniline	ND	2.8	ug/L	1.40	04/03/2002 20:11	
Acenaphthene	ND	2.8	ug/L	1.40	04/03/2002 20:11	
2,4-Dinitrophenol	ND	14	ug/L	1.40	04/03/2002 20:11	
4-Nitrophenol	ND	14	ug/L	1.40	04/03/2002 20:11	
Dibenzofuran	ND	2.8	ug/L	1.40	04/03/2002 20:11	

Semi-volatile analysis by GC/MS - EPA8270C

<b>Iris Environmental</b>	☐ 1615 Broadway, Suite 1003 Oakland, CA 94612
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01-201-A SitePort of Oakland	Project: 7th St.

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**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
MFC-8-GW	Water	03/28/2002 10:00	6
MFC-12-GW	Water	03/28/2002 09:15	8
MFC-31-GW	Water	03/28/2002 13:45	18
MFC-7-GW	Water	03/28/2002	31
MFC-36-1.5-2.0 DUP	Soil	03/28/2002 13:50	35
MFC-21-1.5-2.0-DUP	Soil	03/28/2002 09:30	38
MFC-25-1.0-1.5-DUP	Soil	03/28/2002 10:40	47
MFC-25-4.5-5.0	Soil	03/28/2002 11:00	48
MFC-36-Comp	Soil	03/28/2002 13:50	53
MFC-21-Comp	Soil	03/28/2002 09:30	54
MFC-22-Comp	Soil	03/28/2002 08:50	55
MFC-23-Comp	Soil	03/28/2002 08:00	56
MFC-43-Comp	Soil	03/28/2002 13:41	57
MFC-45-Comp	Soil	03/28/2002 12:52	58



Volatile Organic Compounds by 8260B (Low Level)

Legend & Notes

Test Method: 8260B

Prep Method: 5030B

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QC Compound Flags

msd

Analyte MS/MSD recoveries were affected by dilution. Precision and Accuracy were  
verified by LCS/LCSD.

CA DHS ELAP#1094

Analysis Flags

o

Reporting limits were raised due to high level of analyte present in the sample.

Volatile Organic Compounds by 8260B (Low Level)

Batch QC Report

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2002/04/08-01.60</b>
Sample ID: <b>BH4-W &gt;&gt; MS</b>		Lab ID: 2002-04-0090-028
MS: 2002/04/08-01.60-037	Extracted: 04/08/2002 18:37	Analyzed: 04/08/2002 18:37
		Dilution: 4
MSD: 2002/04/08-01.60-011	Extracted: 04/08/2002 19:11	Analyzed: 04/08/2002 19:11
		Dilution: 4

Compound	Conc. [ug/L]			Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Benzene	77.3	81.7	ND	80.0	80.0	96.6	102.1	5.5	69-129	20		
Chlorobenzene	84.0	88.2	ND	80.0	80.0	105.	110.3	4.9	61-121	20		
1,1-Dichloroethen	78.4	77.3	5.04	80.0	80.0	91.7	90.3	1.5	65-125	20		
Toluene	75.5	80.0	ND	80.0	80.0	94.4	100.0	5.8	70-130	20		
Trichloroethene	197	209	143	80.0	80.0	67.5	82.5	20.0	74-134	20	msd	
<b>Surrogate(s)</b>												
4-Bromofluoroben	494	465		500	500	98.7	92.9		86-115			
1,2-Dichloroethan	501	492		500	500	100.	98.3		76-114			
Toluene-d8	457	445		500	500	91.3	89.1		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC Report

Test Method: 8260B

Prep Method: 5030B

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Pleasanton, CA 94566

<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2002/04/05-01.06</b>
Sample ID: <b>MFC-23-GW &gt;&gt; MS</b>		Lab ID: 2002-04-0014-016
MS: 2002/04/05-01.06-006	Extracted: 04/05/2002 14:24	Analyzed: 04/05/2002 14:24
		Dilution: 1
MSD: 2002/04/05-01.06-007	Extracted: 04/05/2002 14:57	Analyzed: 04/05/2002 14:57
		Dilution: 1

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CA DHS ELAP#1094

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Benzene	49.1	51.7	ND	50.0	50.0	98.2	103.4	5.2	69-129	20		
Chlorobenzene	43.4	46.7	ND	50.0	50.0	86.8	93.4	7.3	61-121	20		
1,1-Dichloroethen	51.8	54.6	ND	50.0	50.0	103.	109.2	5.3	65-125	20		
Toluene	48.0	50.7	ND	50.0	50.0	96.0	101.4	5.5	70-130	20		
Trichloroethene	46.3	49.0	ND	50.0	50.0	92.6	98.0	5.7	74-134	20		
<b>Surrogate(s)</b>												
4-Bromofluoroben	519	515		500	500	103.	103.0		86-115			
1,2-Dichloroethan	476	499		500	500	95.2	99.8		76-114			
Toluene-d8	492	499		500	500	98.4	99.7		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/04/08-01.60**  
 LCS: 2002/04/08-01.60-040    Extracted: 04/08/2002 14:40    Analyzed: 04/08/2002 14:40  
 LCSD: 2002/04/08-01.60-014    Extracted: 04/08/2002 15:14    Analyzed: 04/08/2002 15:14

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	19.7	18.9	20.0	20.0	98.5	94.5	4.1	69-129	20		
Chlorobenzene	21.9	21.5	20.0	20.0	109.5	107.5	1.8	61-121	20		
1,1-Dichloroethene	19.2	18.9	20.0	20.0	96.0	94.5	1.6	65-125	20		
Toluene	19.6	18.9	20.0	20.0	98.0	94.5	3.6	70-130	20		
Trichloroethene	18.6	18.3	20.0	20.0	93.0	91.5	1.6	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	513	521	500	500	102.6	104.2		86-115			
1,2-Dichloroethane-d4	488	511	500	500	97.6	102.2		76-114			
Toluene-d8	471	476	500	500	94.2	95.2		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

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Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/05-01.06**  
 LCS: 2002/04/05-01.06-002 Extracted: 04/05/2002 11:53 Analyzed: 04/05/2002 11:53  
 LCSD: 2002/04/05-01.06-003 Extracted: 04/05/2002 12:29 Analyzed: 04/05/2002 12:29

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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	47.7	48.5	50.0	50.0	95.4	97.0	1.7	69-129	20		
Chlorobenzene	43.0	43.5	50.0	50.0	86.0	87.0	1.2	61-121	20		
1,1-Dichloroethene	48.1	47.4	50.0	50.0	96.2	94.8	1.5	65-125	20		
Toluene	47.2	48.5	50.0	50.0	94.4	97.0	2.7	70-130	20		
Trichloroethene	46.0	46.7	50.0	50.0	92.0	93.4	1.5	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	514	518	500	500	102.8	103.6		86-115			
1,2-Dichloroethane-d4	487	492	500	500	97.4	98.4		76-114			
Toluene-d8	490	497	500	500	98.0	99.4		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/04-01.07**  
 LCS: 2002/04/04-01.07-003 Extracted: 04/04/2002 12:10 Analyzed: 04/04/2002 12:10  
 LCSD: 2002/04/04-01.07-004 Extracted: 04/04/2002 12:33 Analyzed: 04/04/2002 12:33

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	20.2	20.6	20.0	20.0	101.0	103.0	2.0	69-129	20		
Chlorobenzene	20.1	19.9	20.0	20.0	100.5	99.5	1.0	61-121	20		
1,1-Dichloroethene	19.7	18.1	20.0	20.0	98.5	90.5	8.5	65-125	20		
Toluene	20.7	20.5	20.0	20.0	103.5	102.5	1.0	70-130	20		
Trichloroethene	19.0	18.7	20.0	20.0	95.0	93.5	1.6	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	498	513	500	500	99.6	102.6		86-115			
1,2-Dichloroethane-d4	469	494	500	500	93.8	98.8		76-114			
Toluene-d8	490	497	500	500	98.0	99.4		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/04/08-01.60</b>
MB: 2002/04/08-01.60-048		Date Extracted: 04/08/2002 15:48

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/08/2002 15:48	
2-Hexanone	ND	50	ug/L	04/08/2002 15:48	
Isopropylbenzene	ND	0.5	ug/L	04/08/2002 15:48	
p-Isopropyltoluene	ND	1.0	ug/L	04/08/2002 15:48	
Methylene chloride	ND	5.0	ug/L	04/08/2002 15:48	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/08/2002 15:48	
Naphthalene	ND	1.0	ug/L	04/08/2002 15:48	
n-Propylbenzene	ND	1.0	ug/L	04/08/2002 15:48	
Styrene	ND	0.5	ug/L	04/08/2002 15:48	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/08/2002 15:48	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/08/2002 15:48	
Tetrachloroethene	ND	0.5	ug/L	04/08/2002 15:48	
Toluene	ND	0.5	ug/L	04/08/2002 15:48	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/08/2002 15:48	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/08/2002 15:48	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/08/2002 15:48	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/08/2002 15:48	
Trichloroethene	ND	0.5	ug/L	04/08/2002 15:48	
Trichlorofluoromethane	ND	1.0	ug/L	04/08/2002 15:48	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/08/2002 15:48	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/08/2002 15:48	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/08/2002 15:48	
Vinyl acetate	ND	25	ug/L	04/08/2002 15:48	
Vinyl chloride	ND	0.5	ug/L	04/08/2002 15:48	
Total xylenes	ND	1.0	ug/L	04/08/2002 15:48	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	101.8	86-115	%	04/08/2002 15:48	
1,2-Dichloroethane-d4	101.2	76-114	%	04/08/2002 15:48	
Toluene-d8	97.3	88-110	%	04/08/2002 15:48	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/08-01.60

MB: 2002/04/08-01.60-048

Date Extracted: 04/08/2002 15:48

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/08/2002 15:48	
Acetone	ND	50	ug/L	04/08/2002 15:48	
Benzene	ND	0.5	ug/L	04/08/2002 15:48	
Bromodichloromethane	ND	0.5	ug/L	04/08/2002 15:48	
Bromobenzene	ND	1.0	ug/L	04/08/2002 15:48	
Bromochloromethane	ND	1.0	ug/L	04/08/2002 15:48	
Bromoform	ND	0.5	ug/L	04/08/2002 15:48	
Bromomethane	ND	1.0	ug/L	04/08/2002 15:48	
2-Butanone(MEK)	ND	50	ug/L	04/08/2002 15:48	
n-Butylbenzene	ND	1.0	ug/L	04/08/2002 15:48	
sec-Butylbenzene	ND	1.0	ug/L	04/08/2002 15:48	
tert-Butylbenzene	ND	1.0	ug/L	04/08/2002 15:48	
Carbon disulfide	ND	5.0	ug/L	04/08/2002 15:48	
Carbon tetrachloride	ND	0.5	ug/L	04/08/2002 15:48	
Chlorobenzene	ND	0.5	ug/L	04/08/2002 15:48	
Chloroethane	ND	1.0	ug/L	04/08/2002 15:48	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/08/2002 15:48	
Chloroform	ND	1.0	ug/L	04/08/2002 15:48	
Chloromethane	ND	1.0	ug/L	04/08/2002 15:48	
2-Chlorotoluene	ND	0.5	ug/L	04/08/2002 15:48	
4-Chlorotoluene	ND	0.5	ug/L	04/08/2002 15:48	
Dibromochloromethane	ND	0.5	ug/L	04/08/2002 15:48	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/08/2002 15:48	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/08/2002 15:48	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/08/2002 15:48	
1,3-Dichloropropane	ND	1.0	ug/L	04/08/2002 15:48	
2,2-Dichloropropane	ND	0.5	ug/L	04/08/2002 15:48	
1,1-Dichloropropene	ND	0.5	ug/L	04/08/2002 15:48	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/08/2002 15:48	
1,2-Dibromoethane	ND	0.5	ug/L	04/08/2002 15:48	
Dibromomethane	ND	0.5	ug/L	04/08/2002 15:48	
Dichlorodifluoromethane	ND	0.5	ug/L	04/08/2002 15:48	
1,1-Dichloroethane	ND	0.5	ug/L	04/08/2002 15:48	
1,2-Dichloroethane	ND	0.5	ug/L	04/08/2002 15:48	
1,1-Dichloroethene	ND	0.5	ug/L	04/08/2002 15:48	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/08/2002 15:48	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/08/2002 15:48	
1,2-Dichloropropane	ND	0.5	ug/L	04/08/2002 15:48	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/08/2002 15:48	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/08/2002 15:48	
Ethylbenzene	ND	0.5	ug/L	04/08/2002 15:48	



Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/04/05-01.06</b>
MB: 2002/04/05-01.06-004		Date Extracted: 04/05/2002 13:06

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/05/2002 13:06	
2-Hexanone	ND	50	ug/L	04/05/2002 13:06	
Isopropylbenzene	ND	0.5	ug/L	04/05/2002 13:06	
p-Isopropyltoluene	ND	1.0	ug/L	04/05/2002 13:06	
Methylene chloride	ND	5.0	ug/L	04/05/2002 13:06	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/05/2002 13:06	
Naphthalene	ND	1.0	ug/L	04/05/2002 13:06	
n-Propylbenzene	ND	1.0	ug/L	04/05/2002 13:06	
Styrene	ND	0.5	ug/L	04/05/2002 13:06	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/05/2002 13:06	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/05/2002 13:06	
Tetrachloroethene	ND	0.5	ug/L	04/05/2002 13:06	
Toluene	ND	0.5	ug/L	04/05/2002 13:06	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/05/2002 13:06	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/05/2002 13:06	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/05/2002 13:06	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/05/2002 13:06	
Trichloroethene	ND	0.5	ug/L	04/05/2002 13:06	
Trichlorofluoromethane	ND	1.0	ug/L	04/05/2002 13:06	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/05/2002 13:06	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/05/2002 13:06	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/05/2002 13:06	
Vinyl acetate	ND	25	ug/L	04/05/2002 13:06	
Vinyl chloride	ND	0.5	ug/L	04/05/2002 13:06	
Total xylenes	ND	1.0	ug/L	04/05/2002 13:06	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	102.2	86-115	%	04/05/2002 13:06	
1,2-Dichloroethane-d4	99.4	76-114	%	04/05/2002 13:06	
Toluene-d8	100.7	88-110	%	04/05/2002 13:06	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/05-01.06

MB: 2002/04/05-01.06-004

Date Extracted: 04/05/2002 13:06

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/05/2002 13:06	
Acetone	ND	50	ug/L	04/05/2002 13:06	
Benzene	ND	0.5	ug/L	04/05/2002 13:06	
Bromodichloromethane	ND	0.5	ug/L	04/05/2002 13:06	
Bromobenzene	ND	1.0	ug/L	04/05/2002 13:06	
Bromochloromethane	ND	1.0	ug/L	04/05/2002 13:06	
Bromoform	ND	0.5	ug/L	04/05/2002 13:06	
Bromomethane	ND	1.0	ug/L	04/05/2002 13:06	
2-Butanone(MEK)	ND	50	ug/L	04/05/2002 13:06	
n-Butylbenzene	ND	1.0	ug/L	04/05/2002 13:06	
sec-Butylbenzene	ND	1.0	ug/L	04/05/2002 13:06	
tert-Butylbenzene	ND	1.0	ug/L	04/05/2002 13:06	
Carbon disulfide	ND	5.0	ug/L	04/05/2002 13:06	
Carbon tetrachloride	ND	0.5	ug/L	04/05/2002 13:06	
Chlorobenzene	ND	0.5	ug/L	04/05/2002 13:06	
Chloroethane	ND	1.0	ug/L	04/05/2002 13:06	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/05/2002 13:06	
Chloroform	ND	1.0	ug/L	04/05/2002 13:06	
Chloromethane	ND	1.0	ug/L	04/05/2002 13:06	
2-Chlorotoluene	ND	0.5	ug/L	04/05/2002 13:06	
4-Chlorotoluene	ND	0.5	ug/L	04/05/2002 13:06	
Dibromochloromethane	ND	0.5	ug/L	04/05/2002 13:06	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/05/2002 13:06	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/05/2002 13:06	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/05/2002 13:06	
1,3-Dichloropropane	ND	1.0	ug/L	04/05/2002 13:06	
2,2-Dichloropropane	ND	0.5	ug/L	04/05/2002 13:06	
1,1-Dichloropropene	ND	0.5	ug/L	04/05/2002 13:06	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/05/2002 13:06	
1,2-Dibromoethane	ND	0.5	ug/L	04/05/2002 13:06	
Dibromomethane	ND	0.5	ug/L	04/05/2002 13:06	
Dichlorodifluoromethane	ND	0.5	ug/L	04/05/2002 13:06	
1,1-Dichloroethane	ND	0.5	ug/L	04/05/2002 13:06	
1,2-Dichloroethane	ND	0.5	ug/L	04/05/2002 13:06	
1,1-Dichloroethene	ND	0.5	ug/L	04/05/2002 13:06	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/05/2002 13:06	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/05/2002 13:06	
1,2-Dichloropropane	ND	0.5	ug/L	04/05/2002 13:06	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/05/2002 13:06	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/05/2002 13:06	
Ethylbenzene	ND	0.5	ug/L	04/05/2002 13:06	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/04-01.07

MB: 2002/04/04-01.07-005

Date Extracted: 04/04/2002 12:57

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/04/2002 12:57	
2-Hexanone	ND	50	ug/L	04/04/2002 12:57	
Isopropylbenzene	ND	0.5	ug/L	04/04/2002 12:57	
p-Isopropyltoluene	ND	1.0	ug/L	04/04/2002 12:57	
Methylene chloride	ND	5.0	ug/L	04/04/2002 12:57	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/04/2002 12:57	
Naphthalene	ND	1.0	ug/L	04/04/2002 12:57	
n-Propylbenzene	ND	1.0	ug/L	04/04/2002 12:57	
Styrene	ND	0.5	ug/L	04/04/2002 12:57	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/04/2002 12:57	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/04/2002 12:57	
Tetrachloroethene	ND	0.5	ug/L	04/04/2002 12:57	
Toluene	ND	0.5	ug/L	04/04/2002 12:57	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/04/2002 12:57	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/04/2002 12:57	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/04/2002 12:57	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/04/2002 12:57	
Trichloroethene	ND	0.5	ug/L	04/04/2002 12:57	
Trichlorofluoromethane	ND	1.0	ug/L	04/04/2002 12:57	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/04/2002 12:57	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/04/2002 12:57	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/04/2002 12:57	
Vinyl acetate	ND	25	ug/L	04/04/2002 12:57	
Vinyl chloride	ND	0.5	ug/L	04/04/2002 12:57	
Total xylenes	ND	1.0	ug/L	04/04/2002 12:57	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	101.8	86-115	%	04/04/2002 12:57	
1,2-Dichloroethane-d4	93.8	76-114	%	04/04/2002 12:57	
Toluene-d8	98.8	88-110	%	04/04/2002 12:57	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

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CA DHS ELAP#1094

Method Blank

Water

QC Batch # 2002/04/04-01.07

MB: 2002/04/04-01.07-005

Date Extracted: 04/04/2002 12:57

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/04/2002 12:57	
Acetone	ND	50	ug/L	04/04/2002 12:57	
Benzene	ND	0.5	ug/L	04/04/2002 12:57	
Bromodichloromethane	ND	0.5	ug/L	04/04/2002 12:57	
Bromobenzene	ND	1.0	ug/L	04/04/2002 12:57	
Bromochloromethane	ND	1.0	ug/L	04/04/2002 12:57	
Bromoform	ND	0.5	ug/L	04/04/2002 12:57	
Bromomethane	ND	1.0	ug/L	04/04/2002 12:57	
2-Butanone(MEK)	ND	50	ug/L	04/04/2002 12:57	
n-Butylbenzene	ND	1.0	ug/L	04/04/2002 12:57	
sec-Butylbenzene	ND	1.0	ug/L	04/04/2002 12:57	
tert-Butylbenzene	ND	1.0	ug/L	04/04/2002 12:57	
Carbon disulfide	ND	5.0	ug/L	04/04/2002 12:57	
Carbon tetrachloride	ND	0.5	ug/L	04/04/2002 12:57	
Chlorobenzene	ND	0.5	ug/L	04/04/2002 12:57	
Chloroethane	ND	1.0	ug/L	04/04/2002 12:57	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/04/2002 12:57	
Chloroform	ND	1.0	ug/L	04/04/2002 12:57	
Chloromethane	ND	1.0	ug/L	04/04/2002 12:57	
2-Chlorotoluene	ND	0.5	ug/L	04/04/2002 12:57	
4-Chlorotoluene	ND	0.5	ug/L	04/04/2002 12:57	
Dibromochloromethane	ND	0.5	ug/L	04/04/2002 12:57	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/04/2002 12:57	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/04/2002 12:57	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/04/2002 12:57	
1,3-Dichloropropane	ND	1.0	ug/L	04/04/2002 12:57	
2,2-Dichloropropane	ND	0.5	ug/L	04/04/2002 12:57	
1,1-Dichloropropene	ND	0.5	ug/L	04/04/2002 12:57	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/04/2002 12:57	
1,2-Dibromoethane	ND	0.5	ug/L	04/04/2002 12:57	
Dibromomethane	ND	0.5	ug/L	04/04/2002 12:57	
Dichlorodifluoromethane	ND	0.5	ug/L	04/04/2002 12:57	
1,1-Dichloroethane	ND	0.5	ug/L	04/04/2002 12:57	
1,2-Dichloroethane	ND	0.5	ug/L	04/04/2002 12:57	
1,1-Dichloroethene	ND	0.5	ug/L	04/04/2002 12:57	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/04/2002 12:57	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/04/2002 12:57	
1,2-Dichloropropane	ND	0.5	ug/L	04/04/2002 12:57	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/04/2002 12:57	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/04/2002 12:57	
Ethylbenzene	ND	0.5	ug/L	04/04/2002 12:57	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
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CA DHS ELAP#1094

Sample ID: <b>MFC-34-GW</b>	Lab Sample ID: 2002-04-0014-033
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 19:11
Sampled: 03/28/2002	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
2-Hexanone	ND	50	ug/L	1.00	04/05/2002 19:11	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Methylene chloride	ND	5.0	ug/L	1.00	04/05/2002 19:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/05/2002 19:11	
Naphthalene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Styrene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Toluene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Trichloroethene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Vinyl acetate	ND	25	ug/L	1.00	04/05/2002 19:11	
Vinyl chloride	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2002 19:11	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	100.6	86-115	%	1.00	04/05/2002 19:11	
1,2-Dichloroethane-d4	91.9	76-114	%	1.00	04/05/2002 19:11	
Toluene-d8	98.4	88-110	%	1.00	04/05/2002 19:11	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-34-GW</b>	Lab Sample ID: 2002-04-0014-033
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 19:11
Sampled: 03/28/2002	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/05/2002 19:11	
Acetone	ND	50	ug/L	1.00	04/05/2002 19:11	
Benzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Bromobenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Bromochloromethane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Bromoform	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Bromomethane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/05/2002 19:11	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Carbon disulfide	ND	5.0	ug/L	1.00	04/05/2002 19:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Chlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Chloroethane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/05/2002 19:11	
Chloroform	ND	1.0	ug/L	1.00	04/05/2002 19:11	
Chloromethane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/05/2002 19:11	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Dibromomethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 19:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 19:11	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-28-GW</b>	Lab Sample ID: 2002-04-0014-032
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 18:35
Sampled: 03/27/2002 15:30	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
2-Hexanone	ND	50	ug/L	1.00	04/05/2002 18:35	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Methylene chloride	ND	5.0	ug/L	1.00	04/05/2002 18:35	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/05/2002 18:35	
Naphthalene	4.6	1.0	ug/L	1.00	04/05/2002 18:35	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Styrene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Toluene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Trichloroethene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Vinyl acetate	ND	25	ug/L	1.00	04/05/2002 18:35	
Vinyl chloride	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2002 18:35	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.1	86-115	%	1.00	04/05/2002 18:35	
1,2-Dichloroethane-d4	97.4	76-114	%	1.00	04/05/2002 18:35	
Toluene-d8	99.5	88-110	%	1.00	04/05/2002 18:35	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-28-GW</b>	Lab Sample ID: 2002-04-0014-032
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 18:35
Sampled: 03/27/2002 15:30	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/05/2002 18:35	
Acetone	ND	50	ug/L	1.00	04/05/2002 18:35	
Benzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Bromobenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Bromochloromethane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Bromoform	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Bromomethane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/05/2002 18:35	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Carbon disulfide	ND	5.0	ug/L	1.00	04/05/2002 18:35	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Chlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Chloroethane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/05/2002 18:35	
Chloroform	ND	1.0	ug/L	1.00	04/05/2002 18:35	
Chloromethane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/05/2002 18:35	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Dibromomethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 18:35	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 18:35	



Volatle Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-4-GW</b>	Lab Sample ID: 2002-04-0014-030
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 22:33
Sampled: 03/28/2002	QC-Batch: 2002/04/08-01.60
Matrix: Water	
Sample/Analysis Flag: o ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
cis-1,3-Dichloropropene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
trans-1,3-Dichloropropene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Ethylbenzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Hexachlorobutadiene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
2-Hexanone	ND	200	ug/L	4.00	04/08/2002 22:33	
Isopropylbenzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
p-Isopropyltoluene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Methylene chloride	ND	20	ug/L	4.00	04/08/2002 22:33	
4-Methyl-2-pentanone (MIBK)	ND	200	ug/L	4.00	04/08/2002 22:33	
Naphthalene	280	4.0	ug/L	4.00	04/08/2002 22:33	
n-Propylbenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Styrene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Tetrachloroethene	13	2.0	ug/L	4.00	04/08/2002 22:33	
Toluene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,2,3-Trichlorobenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
1,2,4-Trichlorobenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
1,1,1-Trichloroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,1,2-Trichloroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Trichloroethene	4.0	2.0	ug/L	4.00	04/08/2002 22:33	
Trichlorofluoromethane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Trichlorotrifluoroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,2,4-Trimethylbenzene	7.4	2.0	ug/L	4.00	04/08/2002 22:33	
1,3,5-Trimethylbenzene	2.0	2.0	ug/L	4.00	04/08/2002 22:33	
Vinyl acetate	ND	100	ug/L	4.00	04/08/2002 22:33	
Vinyl chloride	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Total xylenes	5.7	4.0	ug/L	4.00	04/08/2002 22:33	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	99.6	86-115	%	4.00	04/08/2002 22:33	
1,2-Dichloroethane-d4	104.7	76-114	%	4.00	04/08/2002 22:33	
Toluene-d8	91.4	88-110	%	4.00	04/08/2002 22:33	

## Volatile Organic Compounds by 8260B (Low Level)

 Iris Environmental  
 Attn: Chris Alger

 Test Method: 8260B  
 Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-4-GW</b>	Lab Sample ID: 2002-04-0014-030
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 22:33
Sampled: 03/28/2002	QC-Batch: 2002/04/08-01.60
Matrix: Water	
Sample/Analysis Flag: o ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	20	ug/L	4.00	04/08/2002 22:33	
Acetone	ND	200	ug/L	4.00	04/08/2002 22:33	
Benzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Bromodichloromethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Bromobenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Bromochloromethane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Bromoform	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Bromomethane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
2-Butanone(MEK)	ND	200	ug/L	4.00	04/08/2002 22:33	
n-Butylbenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
sec-Butylbenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
tert-Butylbenzene	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Carbon disulfide	ND	20	ug/L	4.00	04/08/2002 22:33	
Carbon tetrachloride	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Chlorobenzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Chloroethane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
2-Chloroethylvinyl ether	ND	20	ug/L	4.00	04/08/2002 22:33	
Chloroform	ND	4.0	ug/L	4.00	04/08/2002 22:33	
Chloromethane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
2-Chlorotoluene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
4-Chlorotoluene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Dibromochloromethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,2-Dichlorobenzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,3-Dichlorobenzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,4-Dichlorobenzene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,3-Dichloropropane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
2,2-Dichloropropane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,1-Dichloropropene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,2-Dibromo-3-chloropropane	ND	4.0	ug/L	4.00	04/08/2002 22:33	
1,2-Dibromoethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Dibromomethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
Dichlorodifluoromethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,1-Dichloroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,2-Dichloroethane	ND	2.0	ug/L	4.00	04/08/2002 22:33	
1,1-Dichloroethene	ND	2.0	ug/L	4.00	04/08/2002 22:33	
cis-1,2-Dichloroethene	130	2.0	ug/L	4.00	04/08/2002 22:33	
trans-1,2-Dichloroethene	ND	2.0	ug/L	4.00	04/08/2002 22:33	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>EB-032802</b>	Lab Sample ID: 2002-04-0014-029
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 17:22
Sampled: 03/28/2002 15:40	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
2-Hexanone	ND	50	ug/L	1.00	04/05/2002 17:22	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Methylene chloride	ND	5.0	ug/L	1.00	04/05/2002 17:22	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/05/2002 17:22	
Naphthalene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Styrene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Toluene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Trichloroethene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Vinyl acetate	ND	25	ug/L	1.00	04/05/2002 17:22	
Vinyl chloride	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2002 17:22	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	104.0	86-115	%	1.00	04/05/2002 17:22	
1,2-Dichloroethane-d4	97.6	76-114	%	1.00	04/05/2002 17:22	
Toluene-d8	100.1	88-110	%	1.00	04/05/2002 17:22	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris AlgerTest Method: 8260B  
Prep Method: 5030BSTL San Francisco  
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CA DHS ELAP#1094

Sample ID: <b>EB-032802</b>	Lab Sample ID: 2002-04-0014-029
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 17:22
Sampled: 03/28/2002 15:40	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/05/2002 17:22	
Acetone	ND	50	ug/L	1.00	04/05/2002 17:22	
Benzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Bromobenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Bromochloromethane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Bromoform	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Bromomethane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/05/2002 17:22	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Carbon disulfide	ND	5.0	ug/L	1.00	04/05/2002 17:22	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Chlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Chloroethane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/05/2002 17:22	
Chloroform	ND	1.0	ug/L	1.00	04/05/2002 17:22	
Chloromethane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/05/2002 17:22	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Dibromomethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 17:22	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 17:22	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-21-GW	Lab Sample ID: 2002-04-0014-021
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 16:46
Sampled: 03/28/2002 16:10	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
2-Hexanone	ND	50	ug/L	1.00	04/05/2002 16:46	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Methylene chloride	ND	5.0	ug/L	1.00	04/05/2002 16:46	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/05/2002 16:46	
Naphthalene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Styrene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Toluene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Trichloroethene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Vinyl acetate	ND	25	ug/L	1.00	04/05/2002 16:46	
Vinyl chloride	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2002 16:46	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.8	86-115	%	1.00	04/05/2002 16:46	
1,2-Dichloroethane-d4	101.7	76-114	%	1.00	04/05/2002 16:46	
Toluene-d8	99.4	88-110	%	1.00	04/05/2002 16:46	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-21-GW	Lab Sample ID: 2002-04-0014-021
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 16:46
Sampled: 03/28/2002 16:10	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/05/2002 16:46	
Acetone	ND	50	ug/L	1.00	04/05/2002 16:46	
Benzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Bromobenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Bromochloromethane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Bromoform	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Bromomethane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/05/2002 16:46	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Carbon disulfide	ND	5.0	ug/L	1.00	04/05/2002 16:46	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Chlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Chloroethane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/05/2002 16:46	
Chloroform	ND	1.0	ug/L	1.00	04/05/2002 16:46	
Chloromethane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/05/2002 16:46	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Dibromomethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 16:46	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 16:46	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-36-GW</b>	Lab Sample ID: 2002-04-0014-020
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 19:47
Sampled: 03/28/2002 15:00	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
trans-1,3-Dichloropropene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Ethylbenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Hexachlorobutadiene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
2-Hexanone	ND	100	ug/L	2.00	04/05/2002 19:47	
Isopropylbenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
p-Isopropyltoluene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Methylene chloride	ND	10	ug/L	2.00	04/05/2002 19:47	
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L	2.00	04/05/2002 19:47	
Naphthalene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
n-Propylbenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Styrene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Tetrachloroethene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Toluene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,2,3-Trichlorobenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
1,1,1-Trichloroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,1,2-Trichloroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Trichloroethene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Trichlorofluoromethane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Trichlorotrifluoroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Vinyl acetate	ND	50	ug/L	2.00	04/05/2002 19:47	
Vinyl chloride	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Total xylenes	ND	2.0	ug/L	2.00	04/05/2002 19:47	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.4	86-115	%	2.00	04/05/2002 19:47	
1,2-Dichloroethane-d4	98.0	76-114	%	2.00	04/05/2002 19:47	
Toluene-d8	101.0	88-110	%	2.00	04/05/2002 19:47	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-36-GW</b>	Lab Sample ID: 2002-04-0014-020
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 19:47
Sampled: 03/28/2002 15:00	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	130	10	ug/L	2.00	04/05/2002 19:47	
Acetone	ND	100	ug/L	2.00	04/05/2002 19:47	
Benzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Bromodichloromethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Bromobenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Bromochloromethane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Bromoform	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Bromomethane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
2-Butanone(MEK)	ND	100	ug/L	2.00	04/05/2002 19:47	
n-Butylbenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
sec-Butylbenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
tert-Butylbenzene	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Carbon disulfide	ND	10	ug/L	2.00	04/05/2002 19:47	
Carbon tetrachloride	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Chlorobenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Chloroethane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
2-Chloroethylvinyl ether	ND	10	ug/L	2.00	04/05/2002 19:47	
Chloroform	ND	2.0	ug/L	2.00	04/05/2002 19:47	
Chloromethane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
2-Chlorotoluene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
4-Chlorotoluene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Dibromochloromethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,2-Dichlorobenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,3-Dichlorobenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,4-Dichlorobenzene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,3-Dichloropropane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
2,2-Dichloropropane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,1-Dichloropropene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,2-Dibromo-3-chloropropane	ND	2.0	ug/L	2.00	04/05/2002 19:47	
1,2-Dibromoethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Dibromomethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
Dichlorodifluoromethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,1-Dichloroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,2-Dichloroethane	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,1-Dichloroethene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
cis-1,2-Dichloroethene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
trans-1,2-Dichloroethene	ND	1.0	ug/L	2.00	04/05/2002 19:47	
1,2-Dichloropropane	ND	1.0	ug/L	2.00	04/05/2002 19:47	



## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-3-GW</b>	Lab Sample ID: 2002-04-0014-017
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:33
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
2-Hexanone	ND	50	ug/L	1.00	04/05/2002 15:33	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Methylene chloride	ND	5.0	ug/L	1.00	04/05/2002 15:33	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/05/2002 15:33	
Naphthalene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Styrene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Toluene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Trichloroethene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Vinyl acetate	ND	25	ug/L	1.00	04/05/2002 15:33	
Vinyl chloride	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2002 15:33	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	103.4	86-115	%	1.00	04/05/2002 15:33	
1,2-Dichloroethane-d4	100.4	76-114	%	1.00	04/05/2002 15:33	
Toluene-d8	99.8	88-110	%	1.00	04/05/2002 15:33	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
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CA DHS ELAP#1094

Sample ID: MFC-3-GW	Lab Sample ID: 2002-04-0014-017
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 15:33
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/05/2002 15:33	
Acetone	ND	50	ug/L	1.00	04/05/2002 15:33	
Benzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Bromobenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Bromochloromethane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Bromoform	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Bromomethane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/05/2002 15:33	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Carbon disulfide	ND	5.0	ug/L	1.00	04/05/2002 15:33	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Chlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Chloroethane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/05/2002 15:33	
Chloroform	ND	1.0	ug/L	1.00	04/05/2002 15:33	
Chloromethane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/05/2002 15:33	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Dibromomethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 15:33	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 15:33	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-23-GW	Lab Sample ID: 2002-04-0014-016
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 13:48
Sampled: 03/28/2002 14:40	QC-Batch: 2002/04/05-01.06
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Ethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
2-Hexanone	ND	50	ug/L	1.00	04/05/2002 13:48	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Methylene chloride	ND	5.0	ug/L	1.00	04/05/2002 13:48	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/05/2002 13:48	
Naphthalene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Styrene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Toluene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Trichloroethene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Vinyl acetate	ND	25	ug/L	1.00	04/05/2002 13:48	
Vinyl chloride	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Total xylenes	ND	1.0	ug/L	1.00	04/05/2002 13:48	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	100.6	86-115	%	1.00	04/05/2002 13:48	
1,2-Dichloroethane-d4	87.9	76-114	%	1.00	04/05/2002 13:48	
Toluene-d8	97.4	88-110	%	1.00	04/05/2002 13:48	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-23-GW	Lab Sample ID: 2002-04-0014-016
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/05/2002 13:48
Sampled: 03/28/2002 14:40	QC-Batch: 2002/04/05-01.06
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/05/2002 13:48	
Acetone	ND	50	ug/L	1.00	04/05/2002 13:48	
Benzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Bromobenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Bromochloromethane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Bromoform	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Bromomethane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/05/2002 13:48	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Carbon disulfide	ND	5.0	ug/L	1.00	04/05/2002 13:48	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Chlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Chloroethane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/05/2002 13:48	
Chloroform	ND	1.0	ug/L	1.00	04/05/2002 13:48	
Chloromethane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/05/2002 13:48	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Dibromomethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/05/2002 13:48	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/05/2002 13:48	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>TB032802B</b>	Lab Sample ID: 2002-04-0014-015
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 22:12
Sampled: 03/28/2002 16:15	QC-Batch: 2002/04/04-01.07
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 22:12	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 22:12	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 22:12	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 22:12	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 22:12	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	105.3	86-115	%	1.00	04/04/2002 22:12	
1,2-Dichloroethane-d4	93.4	76-114	%	1.00	04/04/2002 22:12	
Toluene-d8	96.2	88-110	%	1.00	04/04/2002 22:12	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>TB032802B</b>	Lab Sample ID: 2002-04-0014-015
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 22:12
Sampled: 03/28/2002 16:15	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 22:12	
Acetone	ND	50	ug/L	1.00	04/04/2002 22:12	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 22:12	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 22:12	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 22:12	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 22:12	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 22:12	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 22:12	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 22:12	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-2-GW	Lab Sample ID: 2002-04-0014-013
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 21:48
Sampled: 03/28/2002 13:10	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 21:48	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 21:48	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 21:48	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 21:48	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 21:48	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	103.0	86-115	%	1.00	04/04/2002 21:48	
1,2-Dichloroethane-d4	98.7	76-114	%	1.00	04/04/2002 21:48	
Toluene-d8	97.5	88-110	%	1.00	04/04/2002 21:48	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-2-GW	Lab Sample ID: 2002-04-0014-013
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 21:48
Sampled: 03/28/2002 13:10	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 21:48	
Acetone	ND	50	ug/L	1.00	04/04/2002 21:48	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 21:48	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 21:48	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 21:48	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 21:48	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 21:48	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:48	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 21:48	



## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-13-GW</b>	Lab Sample ID: 2002-04-0014-012
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 21:24
Sampled: 03/28/2002 08:45	QC-Batch: 2002/04/04-01.07
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 21:24	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 21:24	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 21:24	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Trichloroethene	29	0.50	ug/L	1.00	04/04/2002 21:24	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 21:24	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 21:24	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	103.8	86-115	%	1.00	04/04/2002 21:24	
1,2-Dichloroethane-d4	102.1	76-114	%	1.00	04/04/2002 21:24	
Toluene-d8	97.9	88-110	%	1.00	04/04/2002 21:24	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-13-GW</b>	Lab Sample ID: 2002-04-0014-012
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 21:24
Sampled: 03/28/2002 08:45	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 21:24	
Acetone	ND	50	ug/L	1.00	04/04/2002 21:24	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 21:24	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 21:24	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 21:24	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 21:24	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 21:24	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,1-Dichloroethane	0.90	0.50	ug/L	1.00	04/04/2002 21:24	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:24	
1,1-Dichloroethene	0.97	0.50	ug/L	1.00	04/04/2002 21:24	
cis-1,2-Dichloroethene	36	0.50	ug/L	1.00	04/04/2002 21:24	
trans-1,2-Dichloroethene	0.74	0.50	ug/L	1.00	04/04/2002 21:24	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 21:24	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-GW</b>	Lab Sample ID: 2002-04-0014-009
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 21:00
Sampled: 03/28/2002 12:45	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 21:00	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 21:00	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 21:00	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 21:00	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 21:00	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	103.6	86-115	%	1.00	04/04/2002 21:00	
1,2-Dichloroethane-d4	97.0	76-114	%	1.00	04/04/2002 21:00	
Toluene-d8	96.2	88-110	%	1.00	04/04/2002 21:00	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-GW</b>	Lab Sample ID: 2002-04-0014-009
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 21:00
Sampled: 03/28/2002 12:45	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 21:00	
Acetone	ND	50	ug/L	1.00	04/04/2002 21:00	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 21:00	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 21:00	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 21:00	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 21:00	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 21:00	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
cis-1,2-Dichloroethene	1.2	0.50	ug/L	1.00	04/04/2002 21:00	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 21:00	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 21:00	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-12-GW</b>	Lab Sample ID: 2002-04-0014-008
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 20:35
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Ethylbenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Hexachlorobutadiene	ND	10	ug/L	10.00	04/04/2002 20:35	
2-Hexanone	ND	500	ug/L	10.00	04/04/2002 20:35	
Isopropylbenzene	10	5.0	ug/L	10.00	04/04/2002 20:35	
p-Isopropyltoluene	ND	10	ug/L	10.00	04/04/2002 20:35	
Methylene chloride	ND	50	ug/L	10.00	04/04/2002 20:35	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	04/04/2002 20:35	
Naphthalene	24	10	ug/L	10.00	04/04/2002 20:35	
n-Propylbenzene	21	10	ug/L	10.00	04/04/2002 20:35	
Styrene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Tetrachloroethene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Toluene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	04/04/2002 20:35	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	04/04/2002 20:35	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Trichloroethene	10	5.0	ug/L	10.00	04/04/2002 20:35	
Trichlorofluoromethane	ND	10	ug/L	10.00	04/04/2002 20:35	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Vinyl acetate	ND	250	ug/L	10.00	04/04/2002 20:35	
Vinyl chloride	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Total xylenes	ND	10	ug/L	10.00	04/04/2002 20:35	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.7	86-115	%	10.00	04/04/2002 20:35	
1,2-Dichloroethane-d4	103.4	76-114	%	10.00	04/04/2002 20:35	
Toluene-d8	97.9	88-110	%	10.00	04/04/2002 20:35	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-12-GW	Lab Sample ID: 2002-04-0014-008
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 20:35
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	04/04/2002 20:35	
Acetone	ND	500	ug/L	10.00	04/04/2002 20:35	
Benzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Bromodichloromethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Bromobenzene	ND	10	ug/L	10.00	04/04/2002 20:35	
Bromochloromethane	ND	10	ug/L	10.00	04/04/2002 20:35	
Bromoform	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Bromomethane	ND	10	ug/L	10.00	04/04/2002 20:35	
2-Butanone(MEK)	ND	500	ug/L	10.00	04/04/2002 20:35	
n-Butylbenzene	ND	10	ug/L	10.00	04/04/2002 20:35	
sec-Butylbenzene	ND	10	ug/L	10.00	04/04/2002 20:35	
tert-Butylbenzene	ND	10	ug/L	10.00	04/04/2002 20:35	
Carbon disulfide	ND	50	ug/L	10.00	04/04/2002 20:35	
Carbon tetrachloride	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Chlorobenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Chloroethane	ND	10	ug/L	10.00	04/04/2002 20:35	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	04/04/2002 20:35	
Chloroform	ND	10	ug/L	10.00	04/04/2002 20:35	
Chloromethane	ND	10	ug/L	10.00	04/04/2002 20:35	
2-Chlorotoluene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
4-Chlorotoluene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Dibromochloromethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,3-Dichloropropane	ND	10	ug/L	10.00	04/04/2002 20:35	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	04/04/2002 20:35	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Dibromomethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
cis-1,2-Dichloroethene	26	5.0	ug/L	10.00	04/04/2002 20:35	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	04/04/2002 20:35	
1,2-Dichloropropane	ND	5.0	ug/L	10.00	04/04/2002 20:35	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-26-GW</b>	Lab Sample ID: 2002-04-0014-007
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 20:12
Sampled: 03/28/2002 15:30	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 20:12	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 20:12	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 20:12	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 20:12	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 20:12	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	104.3	86-115	%	1.00	04/04/2002 20:12	
1,2-Dichloroethane-d4	98.4	76-114	%	1.00	04/04/2002 20:12	
Toluene-d8	99.4	88-110	%	1.00	04/04/2002 20:12	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-26-GW	Lab Sample ID: 2002-04-0014-007
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 20:12
Sampled: 03/28/2002 15:30	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 20:12	
Acetone	ND	50	ug/L	1.00	04/04/2002 20:12	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 20:12	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 20:12	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 20:12	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 20:12	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 20:12	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 20:12	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 20:12	



## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
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Pleasanton, CA 94566

Sample ID: TB032802A	Lab Sample ID: 2002-04-0014-005
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 19:47
Sampled: 03/28/2002 15:45	QC-Batch: 2002/04/04-01.07
Matrix: Water	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 19:47	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 19:47	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 19:47	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 19:47	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 19:47	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.3	86-115	%	1.00	04/04/2002 19:47	
1,2-Dichloroethane-d4	100.2	76-114	%	1.00	04/04/2002 19:47	
Toluene-d8	99.7	88-110	%	1.00	04/04/2002 19:47	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: TB032802A	Lab Sample ID: 2002-04-0014-005
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 19:47
Sampled: 03/28/2002 15:45	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 19:47	
Acetone	ND	50	ug/L	1.00	04/04/2002 19:47	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 19:47	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 19:47	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 19:47	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 19:47	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 19:47	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:47	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 19:47	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>TB032702C</b>	Lab Sample ID: 2002-04-0014-002
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 19:24
Sampled: 03/27/2002 17:30	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 19:24	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 19:24	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 19:24	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 19:24	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 19:24	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	104.2	86-115	%	1.00	04/04/2002 19:24	
1,2-Dichloroethane-d4	100.2	76-114	%	1.00	04/04/2002 19:24	
Toluene-d8	101.7	88-110	%	1.00	04/04/2002 19:24	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris AlgerTest Method: 8260B  
Prep Method: 5030BSTL San Francisco  
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Pleasanton, CA 94566Tel 925 484 1919  
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CA DHS ELAP#1094

Sample ID: TB032702C	Lab Sample ID: 2002-04-0014-002
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 19:24
Sampled: 03/27/2002 17:30	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 19:24	
Acetone	ND	50	ug/L	1.00	04/04/2002 19:24	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 19:24	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 19:24	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 19:24	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 19:24	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 19:24	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:24	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 19:24	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>EB-032702</b>	Lab Sample ID: 2002-04-0014-001
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 19:00
Sampled: 03/27/2002 17:20	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
2-Hexanone	ND	50	ug/L	1.00	04/04/2002 19:00	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2002 19:00	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/04/2002 19:00	
Naphthalene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Styrene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Toluene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Vinyl acetate	ND	25	ug/L	1.00	04/04/2002 19:00	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2002 19:00	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	107.1	86-115	%	1.00	04/04/2002 19:00	
1,2-Dichloroethane-d4	90.5	76-114	%	1.00	04/04/2002 19:00	
Toluene-d8	97.9	88-110	%	1.00	04/04/2002 19:00	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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 Pleasanton, CA 94566

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 www.chromalab.com

CA DHS ELAP#1094

Sample ID: <b>EB-032702</b>	Lab Sample ID: 2002-04-0014-001
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/04/2002 19:00
Sampled: 03/27/2002 17:20	QC-Batch: 2002/04/04-01.07
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 19:00	
Acetone	ND	50	ug/L	1.00	04/04/2002 19:00	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 19:00	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 19:00	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 19:00	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 19:00	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 19:00	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 19:00	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 19:00	

Volatile Organic Compounds by 8260B (Low Level)

<b>Iris Environmental</b>	☒ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A SitePort of Oakland	Project: 7th St.

STL San Francisco  
1220 Quarry Lane  
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Tel 925 484 1919  
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www.chromalab.com

CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
EB-032702	Water	03/27/2002 17:20	1
TB032702C	Water	03/27/2002 17:30	2
TB032802A	Water	03/28/2002 15:45	5
MFC-26-GW	Water	03/28/2002 15:30	7
MFC-12-GW	Water	03/28/2002 09:15	8
MFC-1-GW	Water	03/28/2002 12:45	9
MFC-13-GW	Water	03/28/2002 08:45	12
MFC-2-GW	Water	03/28/2002 13:10	13
TB032802B	Water	03/28/2002 16:15	15
MFC-23-GW	Water	03/28/2002 14:40	16
MFC-3-GW	Water	03/28/2002 14:00	17
MFC-36-GW	Water	03/28/2002 15:00	20
MFC-21-GW	Water	03/28/2002 16:10	21
EB-032802	Water	03/28/2002 15:40	29
MFC-4-GW	Water	03/28/2002	30
MFC-28-GW	Water	03/27/2002 15:30	32
MFC-34-GW	Water	03/28/2002	33

Volatile Organic Compounds by 8260B (Low Level)

**Legend & Notes**

Test Method: 8260B

Prep Method: 5035

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CA DHS ELAP#1094

**Analysis Flags**

is

Internal standard out of range due to matrix interference.

**Analyte Flags**

sh

Surrogate recovery was higher than QC limit due to matrix interference.



## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5035

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CA DHS ELAP#1094

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Soil</b>	<b>QC Batch # 2002/04/09-01.06</b>
LCS: 2002/04/09-01.06-004	Extracted: 04/09/2002 11:38	Analyzed: 04/09/2002 11:38
LCSD: 2002/04/09-01.06-005	Extracted: 04/09/2002 12:14	Analyzed: 04/09/2002 12:14

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	104	105	100.0	100.0	104.0	105.0	1.0	69-129	20		
Chlorobenzene	93.6	94.9	100.0	100.0	93.6	94.9	1.4	61-121	20		
1,1-Dichloroethene	104	105	100.0	100.0	104.0	105.0	1.0	65-125	20		
Toluene	103	105	100.0	100.0	103.0	105.0	1.9	70-130	20		
Trichloroethene	101	102	100.0	100.0	101.0	102.0	1.0	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	534	542	500	500	106.8	108.4		74-121			
1,2-Dichloroethane-d4	521	528	500	500	104.2	105.6		70-121			
Toluene-d8	539	539	500	500	107.8	107.8		81-117			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.09**  
 LCS: 2002/04/08-01.09-005 Extracted: 04/08/2002 12:39 Analyzed: 04/08/2002 12:39  
 LCSD: 2002/04/08-01.09-027 Extracted: 04/08/2002 14:36 Analyzed: 04/08/2002 14:36

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CA DHS ELAP#1094

Compound	Conc. [ug/Kg]		Exp. Conc. [ug/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	95.8	96.5	100.0	100.0	95.8	96.5	0.7	69-129	20		
Chlorobenzene	101	90.7	100.0	100.0	101.0	90.7	10.7	61-121	20		
1,1-Dichloroethene	94.0	93.5	100.0	100.0	94.0	93.5	0.5	65-125	20		
Toluene	104	101	100.0	100.0	104.0	101.0	2.9	70-130	20		
Trichloroethene	97.1	97.4	100.0	100.0	97.1	97.4	0.3	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	567	526	500	500	113.4	105.2		74-121			
1,2-Dichloroethane-d4	566	536	500	500	113.2	107.2		70-121			
Toluene-d8	573	555	500	500	114.6	111.0		81-117			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel 925 484 1919  
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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.06**  
 LCS: 2002/04/08-01.06-003 Extracted: 04/08/2002 11:14 Analyzed: 04/08/2002 11:14  
 LCSD: 2002/04/08-01.06-004 Extracted: 04/08/2002 11:49 Analyzed: 04/08/2002 11:49

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD	
Benzene	37.5	42.6	50	50	75.0	85.2	12.7	69-129	20			
Chlorobenzene	39.4	38.4	50	50	78.8	76.8	2.6	61-121	20			
1,1-Dichloroethene	43.0	42.0	50	50	86.0	84.0	2.4	65-125	20			
Toluene	43.5	42.4	50	50	87.0	84.8	2.6	70-130	20			
Trichloroethene	41.7	41.3	50	50	83.4	82.6	1.0	74-134	20			
<b>Surrogate(s)</b>												
4-Bromofluorobenzene	539	549	500	500	107.8	109.8		74-121				
1,2-Dichloroethane-d4	541	539	500	500	108.2	107.8		70-121				
Toluene-d8	546	545	500	500	109.2	109.0		81-117				

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/09-01.06</b>
MB: 2002/04/09-01.06-006		Date Extracted: 04/09/2002 12:44

Tel 925 484 1919  
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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	5.0	ug/Kg	04/09/2002 12:44	
2-Hexanone	ND	50	ug/Kg	04/09/2002 12:44	
Isopropylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
p-Isopropyltoluene	ND	5.0	ug/Kg	04/09/2002 12:44	
Methylene chloride	ND	5.0	ug/Kg	04/09/2002 12:44	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	04/09/2002 12:44	
Naphthalene	ND	10	ug/Kg	04/09/2002 12:44	
n-Propylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
Styrene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
Tetrachloroethene	ND	5.0	ug/Kg	04/09/2002 12:44	
Toluene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
Trichloroethene	ND	5.0	ug/Kg	04/09/2002 12:44	
Trichlorofluoromethane	ND	5.0	ug/Kg	04/09/2002 12:44	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
Vinyl acetate	ND	50	ug/Kg	04/09/2002 12:44	
Vinyl chloride	ND	5.0	ug/Kg	04/09/2002 12:44	
Total xylenes	ND	5.0	ug/Kg	04/09/2002 12:44	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	107.0	74-121	%	04/09/2002 12:44	
1,2-Dichloroethane-d4	104.5	70-121	%	04/09/2002 12:44	
Toluene-d8	106.9	81-117	%	04/09/2002 12:44	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/04/09-01.06

MB: 2002/04/09-01.06-006

Date Extracted: 04/09/2002 12:44

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	04/09/2002 12:44	
Acetone	ND	50	ug/Kg	04/09/2002 12:44	
Benzene	ND	5.0	ug/Kg	04/09/2002 12:44	
Bromodichloromethane	ND	5.0	ug/Kg	04/09/2002 12:44	
Bromobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
Bromochloromethane	ND	20	ug/Kg	04/09/2002 12:44	
Bromoform	ND	5.0	ug/Kg	04/09/2002 12:44	
Bromomethane	ND	10	ug/Kg	04/09/2002 12:44	
2-Butanone(MEK)	ND	50	ug/Kg	04/09/2002 12:44	
n-Butylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
sec-Butylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
tert-Butylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
Carbon disulfide	ND	5.0	ug/Kg	04/09/2002 12:44	
Carbon tetrachloride	ND	5.0	ug/Kg	04/09/2002 12:44	
Chlorobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
Chloroethane	ND	10	ug/Kg	04/09/2002 12:44	
2-Chloroethylvinyl ether	ND	50	ug/Kg	04/09/2002 12:44	
Chloroform	ND	5.0	ug/Kg	04/09/2002 12:44	
Chloromethane	ND	10	ug/Kg	04/09/2002 12:44	
2-Chlorotoluene	ND	5.0	ug/Kg	04/09/2002 12:44	
4-Chlorotoluene	ND	5.0	ug/Kg	04/09/2002 12:44	
Dibromochloromethane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,3-Dichloropropane	ND	5.0	ug/Kg	04/09/2002 12:44	
2,2-Dichloropropane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,1-Dichloropropene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	04/09/2002 12:44	
1,2-Dibromoethane	ND	10	ug/Kg	04/09/2002 12:44	
Dibromomethane	ND	10	ug/Kg	04/09/2002 12:44	
Dichlorodifluoromethane	ND	10	ug/Kg	04/09/2002 12:44	
1,1-Dichloroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2-Dichloroethane	ND	5.0	ug/Kg	04/09/2002 12:44	
1,1-Dichloroethene	ND	5.0	ug/Kg	04/09/2002 12:44	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	04/09/2002 12:44	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	04/09/2002 12:44	
1,2-Dichloropropane	ND	5.0	ug/Kg	04/09/2002 12:44	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	04/09/2002 12:44	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	04/09/2002 12:44	
Ethylbenzene	ND	5.0	ug/Kg	04/09/2002 12:44	



Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5035

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<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/08-01.09</b>
MB: 2002/04/08-01.09-026		Date Extracted: 04/08/2002 14:01

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	04/08/2002 14:01	
Acetone	ND	50	ug/Kg	04/08/2002 14:01	
Benzene	ND	5.0	ug/Kg	04/08/2002 14:01	
Bromodichloromethane	ND	5.0	ug/Kg	04/08/2002 14:01	
Bromobenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
Bromochloromethane	ND	20	ug/Kg	04/08/2002 14:01	
Bromoform	ND	5.0	ug/Kg	04/08/2002 14:01	
Bromomethane	ND	10	ug/Kg	04/08/2002 14:01	
2-Butanone(MEK)	ND	50	ug/Kg	04/08/2002 14:01	
n-Butylbenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
sec-Butylbenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
tert-Butylbenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
Carbon disulfide	ND	5.0	ug/Kg	04/08/2002 14:01	
Carbon tetrachloride	ND	5.0	ug/Kg	04/08/2002 14:01	
Chlorobenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
Chloroethane	ND	10	ug/Kg	04/08/2002 14:01	
2-Chloroethylvinyl ether	ND	50	ug/Kg	04/08/2002 14:01	
Chloroform	ND	5.0	ug/Kg	04/08/2002 14:01	
Chloromethane	ND	10	ug/Kg	04/08/2002 14:01	
2-Chlorotoluene	ND	5.0	ug/Kg	04/08/2002 14:01	
4-Chlorotoluene	ND	5.0	ug/Kg	04/08/2002 14:01	
Dibromochloromethane	ND	5.0	ug/Kg	04/08/2002 14:01	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	04/08/2002 14:01	
1,3-Dichloropropane	ND	5.0	ug/Kg	04/08/2002 14:01	
2,2-Dichloropropane	ND	5.0	ug/Kg	04/08/2002 14:01	
1,1-Dichloropropene	ND	5.0	ug/Kg	04/08/2002 14:01	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	04/08/2002 14:01	
1,2-Dibromoethane	ND	10	ug/Kg	04/08/2002 14:01	
Dibromomethane	ND	10	ug/Kg	04/08/2002 14:01	
Dichlorodifluoromethane	ND	10	ug/Kg	04/08/2002 14:01	
1,1-Dichloroethane	ND	5.0	ug/Kg	04/08/2002 14:01	
1,2-Dichloroethane	ND	5.0	ug/Kg	04/08/2002 14:01	
1,1-Dichloroethene	ND	5.0	ug/Kg	04/08/2002 14:01	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	04/08/2002 14:01	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	04/08/2002 14:01	
1,2-Dichloropropane	ND	5.0	ug/Kg	04/08/2002 14:01	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	04/08/2002 14:01	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	04/08/2002 14:01	
Ethylbenzene	ND	5.0	ug/Kg	04/08/2002 14:01	

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/08-01.06</b>
MB: 2002/04/08-01.06-005		Date Extracted: 04/08/2002 12:21

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	5.0	ug/Kg	04/08/2002 12:21	
2-Hexanone	ND	50	ug/Kg	04/08/2002 12:21	
Isopropylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
p-Isopropyltoluene	ND	5.0	ug/Kg	04/08/2002 12:21	
Methylene chloride	ND	5.0	ug/Kg	04/08/2002 12:21	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	04/08/2002 12:21	
Naphthalene	ND	10	ug/Kg	04/08/2002 12:21	
n-Propylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
Styrene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
Tetrachloroethene	ND	5.0	ug/Kg	04/08/2002 12:21	
Toluene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
Trichloroethene	ND	5.0	ug/Kg	04/08/2002 12:21	
Trichlorofluoromethane	ND	5.0	ug/Kg	04/08/2002 12:21	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
Vinyl acetate	ND	50	ug/Kg	04/08/2002 12:21	
Vinyl chloride	ND	5.0	ug/Kg	04/08/2002 12:21	
Total xylenes	ND	5.0	ug/Kg	04/08/2002 12:21	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	108.6	74-121	%	04/08/2002 12:21	
1,2-Dichloroethane-d4	108.4	70-121	%	04/08/2002 12:21	
Toluene-d8	110.1	81-117	%	04/08/2002 12:21	



## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Soil

QC Batch # 2002/04/08-01.06

MB: 2002/04/08-01.06-005

Date Extracted: 04/08/2002 12:21

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	04/08/2002 12:21	
Acetone	ND	50	ug/Kg	04/08/2002 12:21	
Benzene	ND	5.0	ug/Kg	04/08/2002 12:21	
Bromodichloromethane	ND	5.0	ug/Kg	04/08/2002 12:21	
Bromobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
Bromochloromethane	ND	20	ug/Kg	04/08/2002 12:21	
Bromoform	ND	5.0	ug/Kg	04/08/2002 12:21	
Bromomethane	ND	10	ug/Kg	04/08/2002 12:21	
2-Butanone(MEK)	ND	50	ug/Kg	04/08/2002 12:21	
n-Butylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
sec-Butylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
tert-Butylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
Carbon disulfide	ND	5.0	ug/Kg	04/08/2002 12:21	
Carbon tetrachloride	ND	5.0	ug/Kg	04/08/2002 12:21	
Chlorobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
Chloroethane	ND	10	ug/Kg	04/08/2002 12:21	
2-Chloroethylvinyl ether	ND	50	ug/Kg	04/08/2002 12:21	
Chloroform	ND	5.0	ug/Kg	04/08/2002 12:21	
Chloromethane	ND	10	ug/Kg	04/08/2002 12:21	
2-Chlorotoluene	ND	5.0	ug/Kg	04/08/2002 12:21	
4-Chlorotoluene	ND	5.0	ug/Kg	04/08/2002 12:21	
Dibromochloromethane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,3-Dichloropropane	ND	5.0	ug/Kg	04/08/2002 12:21	
2,2-Dichloropropane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,1-Dichloropropene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	04/08/2002 12:21	
1,2-Dibromoethane	ND	10	ug/Kg	04/08/2002 12:21	
Dibromomethane	ND	10	ug/Kg	04/08/2002 12:21	
Dichlorodifluoromethane	ND	10	ug/Kg	04/08/2002 12:21	
1,1-Dichloroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2-Dichloroethane	ND	5.0	ug/Kg	04/08/2002 12:21	
1,1-Dichloroethene	ND	5.0	ug/Kg	04/08/2002 12:21	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	04/08/2002 12:21	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	04/08/2002 12:21	
1,2-Dichloropropane	ND	5.0	ug/Kg	04/08/2002 12:21	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	04/08/2002 12:21	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	04/08/2002 12:21	
Ethylbenzene	ND	5.0	ug/Kg	04/08/2002 12:21	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-45-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-052
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 17:20
Sampled: 03/28/2002 12:54	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 17:20	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 17:20	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 17:20	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 17:20	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	112.7	74-121	%	1.00	04/08/2002 17:20	
1,2-Dichloroethane-d4	109.9	70-121	%	1.00	04/08/2002 17:20	
Toluene-d8	108.2	81-117	%	1.00	04/08/2002 17:20	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

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 Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID: <b>MFC-45-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-052
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 17:20
Sampled: 03/28/2002 12:54	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Acetone	ND	50	ug/Kg	1.00	04/08/2002 17:20	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 17:20	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 17:20	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 17:20	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 17:20	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 17:20	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 17:20	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 17:20	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 17:20	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 17:20	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 17:20	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 17:20	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-43-4.5-5.0	Lab Sample ID: 2002-04-0014-050
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 16:43
Sampled: 03/28/2002 13:30	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 16:43	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 16:43	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 16:43	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 16:43	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	113.5	74-121	%	1.00	04/08/2002 16:43	
1,2-Dichloroethane-d4	109.4	70-121	%	1.00	04/08/2002 16:43	
Toluene-d8	107.0	81-117	%	1.00	04/08/2002 16:43	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-43-4.5-5.0	Lab Sample ID: 2002-04-0014-050
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 16:43
Sampled: 03/28/2002 13:30	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	5.3	5.0	ug/Kg	1.00	04/08/2002 16:43	
Acetone	ND	50	ug/Kg	1.00	04/08/2002 16:43	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 16:43	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 16:43	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 16:43	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 16:43	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 16:43	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 16:43	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 16:43	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 16:43	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 16:43	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 16:43	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 16:43	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-25-4.5-5.0

Lab Sample ID: 2002-04-0014-048

Project: 01-201-A  
7th St.

Received: 03/28/2002 19:20

Site: Port of Oakland

Extracted: 04/08/2002 16:07

Sampled: 03/28/2002 11:00

QC-Batch: 2002/04/08-01.06

Matrix: Soil

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 16:07	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 16:07	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 16:07	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 16:07	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	115.1	74-121	%	1.00	04/08/2002 16:07	
1,2-Dichloroethane-d4	117.5	70-121	%	1.00	04/08/2002 16:07	
Toluene-d8	105.1	81-117	%	1.00	04/08/2002 16:07	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-25-4.5-5.0	Lab Sample ID: 2002-04-0014-048
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 16:07
Sampled: 03/28/2002 11:00	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Acetone	59	50	ug/Kg	1.00	04/08/2002 16:07	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 16:07	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 16:07	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 16:07	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 16:07	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 16:07	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 16:07	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 16:07	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 16:07	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 16:07	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 16:07	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 16:07	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-23-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-046
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 15:30
Sampled: 03/28/2002 08:10	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 15:30	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 15:30	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 15:30	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 15:30	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	110.6	74-121	%	1.00	04/08/2002 15:30	
1,2-Dichloroethane-d4	106.8	70-121	%	1.00	04/08/2002 15:30	
Toluene-d8	106.3	81-117	%	1.00	04/08/2002 15:30	



Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-23-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-046
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 15:30
Sampled: 03/28/2002 08:10	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Acetone	ND	50	ug/Kg	1.00	04/08/2002 15:30	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 15:30	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 15:30	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 15:30	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 15:30	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 15:30	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 15:30	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 15:30	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 15:30	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 15:30	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 15:30	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 15:30	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-23-5.5-6.0</b>	Lab Sample ID: 2002-04-0014-045
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 14:54
Sampled: 03/28/2002 08:05	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 14:54	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 14:54	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 14:54	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 14:54	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	108.5	74-121	%	1.00	04/08/2002 14:54	
1,2-Dichloroethane-d4	112.2	70-121	%	1.00	04/08/2002 14:54	
Toluene-d8	106.9	81-117	%	1.00	04/08/2002 14:54	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-23-5.5-6.0	Lab Sample ID: 2002-04-0014-045
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 14:54
Sampled: 03/28/2002 08:05	QC-Batch: 2002/04/08-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Acetone	ND	50	ug/Kg	1.00	04/08/2002 14:54	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 14:54	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 14:54	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 14:54	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 14:54	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 14:54	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 14:54	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 14:54	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 14:54	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 14:54	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 14:54	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 14:54	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-22-7.5-8.0</b>	Lab Sample ID: 2002-04-0014-043
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 21:42
Sampled: 03/28/2002 09:05	QC-Batch: 2002/04/08-01.09
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 21:42	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 21:42	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 21:42	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 21:42	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	104.2	74-121	%	1.00	04/08/2002 21:42	
1,2-Dichloroethane-d4	118.9	70-121	%	1.00	04/08/2002 21:42	
Toluene-d8	113.7	81-117	%	1.00	04/08/2002 21:42	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-22-7.5-8.0	Lab Sample ID: 2002-04-0014-043
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 21:42
Sampled: 03/28/2002 09:05	QC-Batch: 2002/04/08-01.09
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Acetone	ND	50	ug/Kg	1.00	04/08/2002 21:42	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 21:42	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 21:42	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 21:42	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 21:42	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 21:42	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 21:42	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 21:42	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 21:42	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 21:42	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 21:42	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:42	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

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Pleasanton, CA 94566

Sample ID: <b>MFC-22-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-042
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 15:12
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/09-01.06
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
2-Hexanone	ND	50	ug/Kg	1.00	04/09/2002 15:12	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/09/2002 15:12	
Naphthalene	ND	10	ug/Kg	1.00	04/09/2002 15:12	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Styrene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Toluene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Vinyl acetate	ND	50	ug/Kg	1.00	04/09/2002 15:12	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Total xylenes	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	115.5	74-121	%	1.00	04/09/2002 15:12	
1,2-Dichloroethane-d4	108.0	70-121	%	1.00	04/09/2002 15:12	
Toluene-d8	108.7	81-117	%	1.00	04/09/2002 15:12	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-22-4.5-5.0	Lab Sample ID: 2002-04-0014-042
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 15:12
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/09-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Acetone	ND	50	ug/Kg	1.00	04/09/2002 15:12	
Benzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Bromochloromethane	ND	20	ug/Kg	1.00	04/09/2002 15:12	
Bromoform	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Bromomethane	ND	10	ug/Kg	1.00	04/09/2002 15:12	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/09/2002 15:12	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Chloroethane	ND	10	ug/Kg	1.00	04/09/2002 15:12	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/09/2002 15:12	
Chloroform	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Chloromethane	ND	10	ug/Kg	1.00	04/09/2002 15:12	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/09/2002 15:12	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/09/2002 15:12	
Dibromomethane	ND	10	ug/Kg	1.00	04/09/2002 15:12	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/09/2002 15:12	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 15:12	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5035

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>MFC-21-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-040
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 14:36
Sampled: 03/28/2002 09:40	QC-Batch: 2002/04/09-01.06
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
2-Hexanone	ND	50	ug/Kg	1.00	04/09/2002 14:36	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/09/2002 14:36	
Naphthalene	ND	10	ug/Kg	1.00	04/09/2002 14:36	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Styrene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Toluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Vinyl acetate	ND	50	ug/Kg	1.00	04/09/2002 14:36	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Total xylenes	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	113.1	74-121	%	1.00	04/09/2002 14:36	
1,2-Dichloroethane-d4	114.6	70-121	%	1.00	04/09/2002 14:36	
Toluene-d8	108.0	81-117	%	1.00	04/09/2002 14:36	



Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-21-8.0-8.5</b>	Lab Sample ID: 2002-04-0014-040
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 14:36
Sampled: 03/28/2002 09:40	QC-Batch: 2002/04/09-01.06
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Acetone	ND	50	ug/Kg	1.00	04/09/2002 14:36	
Benzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Bromochloromethane	ND	20	ug/Kg	1.00	04/09/2002 14:36	
Bromoform	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Bromomethane	ND	10	ug/Kg	1.00	04/09/2002 14:36	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/09/2002 14:36	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Chloroethane	ND	10	ug/Kg	1.00	04/09/2002 14:36	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/09/2002 14:36	
Chloroform	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Chloromethane	ND	10	ug/Kg	1.00	04/09/2002 14:36	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/09/2002 14:36	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/09/2002 14:36	
Dibromomethane	ND	10	ug/Kg	1.00	04/09/2002 14:36	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/09/2002 14:36	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 14:36	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-21-4.5-5.0</b>	Lab Sample ID: 2002-04-0014-039
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 14:00
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/09-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
2-Hexanone	ND	50	ug/Kg	1.00	04/09/2002 14:00	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/09/2002 14:00	
Naphthalene	ND	10	ug/Kg	1.00	04/09/2002 14:00	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Styrene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Toluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Vinyl acetate	ND	50	ug/Kg	1.00	04/09/2002 14:00	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Total xylenes	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	109.8	74-121	%	1.00	04/09/2002 14:00	
1,2-Dichloroethane-d4	107.2	70-121	%	1.00	04/09/2002 14:00	
Toluene-d8	108.1	81-117	%	1.00	04/09/2002 14:00	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-21-4.5-5.0	Lab Sample ID: 2002-04-0014-039
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/09/2002 14:00
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/09-01.06
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Acetone	ND	50	ug/Kg	1.00	04/09/2002 14:00	
Benzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Bromochloromethane	ND	20	ug/Kg	1.00	04/09/2002 14:00	
Bromoform	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Bromomethane	ND	10	ug/Kg	1.00	04/09/2002 14:00	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/09/2002 14:00	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Chloroethane	ND	10	ug/Kg	1.00	04/09/2002 14:00	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/09/2002 14:00	
Chloroform	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Chloromethane	ND	10	ug/Kg	1.00	04/09/2002 14:00	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/09/2002 14:00	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/09/2002 14:00	
Dibromomethane	ND	10	ug/Kg	1.00	04/09/2002 14:00	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/09/2002 14:00	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/09/2002 14:00	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: MFC-36-4.5-5.0	Lab Sample ID: 2002-04-0014-036
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 21:17
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/08-01.09
Matrix: Soil	
Sample/Analysis Flag: is ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
2-Hexanone	ND	50	ug/Kg	1.00	04/08/2002 21:17	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Methylene chloride	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/08/2002 21:17	
Naphthalene	ND	10	ug/Kg	1.00	04/08/2002 21:17	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Styrene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Toluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Vinyl acetate	ND	50	ug/Kg	1.00	04/08/2002 21:17	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Total xylenes	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	90.2	74-121	%	1.00	04/08/2002 21:17	
1,2-Dichloroethane-d4	136.2	70-121	%	1.00	04/08/2002 21:17	sh
Toluene-d8	107.9	81-117	%	1.00	04/08/2002 21:17	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5035

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www.chromalab.com

CA DHS ELAP#1094

Sample ID: MFC-36-4.5-5.0	Lab Sample ID: 2002-04-0014-036
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/08/2002 21:17
Sampled: 03/28/2002 14:00	QC-Batch: 2002/04/08-01.09
Matrix: Soil	
Sample/Analysis Flag: is ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	23	5.0	ug/Kg	1.00	04/08/2002 21:17	
Acetone	55	50	ug/Kg	1.00	04/08/2002 21:17	
Benzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Bromochloromethane	ND	20	ug/Kg	1.00	04/08/2002 21:17	
Bromoform	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Bromomethane	ND	10	ug/Kg	1.00	04/08/2002 21:17	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/08/2002 21:17	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Chloroethane	ND	10	ug/Kg	1.00	04/08/2002 21:17	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	04/08/2002 21:17	
Chloroform	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Chloromethane	ND	10	ug/Kg	1.00	04/08/2002 21:17	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,1-Dichloropropane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/08/2002 21:17	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/08/2002 21:17	
Dibromomethane	ND	10	ug/Kg	1.00	04/08/2002 21:17	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/08/2002 21:17	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/08/2002 21:17	

Volatile Organic Compounds by 8260B (Low Level)

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01-201-A SitePort of Oakland	Project: 7th St.

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
MFC-36-4.5-5.0	Soil	03/28/2002 14:00	36
MFC-21-4.5-5.0	Soil	03/28/2002 09:35	39
MFC-21-8.0-8.5	Soil	03/28/2002 09:40	40
MFC-22-4.5-5.0	Soil	03/28/2002 08:55	42
MFC-22-7.5-8.0	Soil	03/28/2002 09:05	43
MFC-23-5.5-6.0	Soil	03/28/2002 08:05	45
MFC-23-8.0-8.5	Soil	03/28/2002 08:10	46
MFC-25-4.5-5.0	Soil	03/28/2002 11:00	48
MFC-43-4.5-5.0	Soil	03/28/2002 13:30	50
MFC-45-4.5-5.0	Soil	03/28/2002 12:54	52

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/02-01.06**  
 LCS: 2002/04/02-01.06-002 Extracted: 04/02/2002 11:26 Analyzed: 04/02/2002 11:26  
 LCSD: 2002/04/02-01.06-003 Extracted: 04/02/2002 11:57 Analyzed: 04/02/2002 11:57

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Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	49.5	49.6	50.0	50.0	99.0	99.2	0.2	69-129	20		
Chlorobenzene	44.2	44.6	50.0	50.0	88.4	89.2	0.9	61-121	20		
1,1-Dichloroethene	49.1	49.2	50.0	50.0	98.2	98.4	0.2	65-125	20		
Toluene	49.0	49.3	50.0	50.0	98.0	98.6	0.6	70-130	20		
Trichloroethene	46.8	47.7	50.0	50.0	93.6	95.4	1.9	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	497	502	500	500	99.4	100.4		86-115			
1,2-Dichloroethane-d4	470	490	500	500	94.0	98.0		76-114			
Toluene-d8	491	484	500	500	98.2	96.8		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/01-01.06**  
 LCS: 2002/04/01-01.06-004 Extracted: 04/01/2002 12:36 Analyzed: 04/01/2002 12:36  
 LCSD: 2002/04/01-01.06-005 Extracted: 04/01/2002 13:06 Analyzed: 04/01/2002 13:06

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	20.0	20.6	20.0	20.0	100.0	103.0	3.0	69-129	20		
Chlorobenzene	18.4	19.0	20.0	20.0	92.0	95.0	3.2	61-121	20		
1,1-Dichloroethene	19.7	20.5	20.0	20.0	98.5	102.5	4.0	65-125	20		
Toluene	19.7	20.4	20.0	20.0	98.5	102.0	3.5	70-130	20		
Trichloroethene	19.4	19.8	20.0	20.0	97.0	99.0	2.0	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	529	533	500	500	105.8	106.6		86-115			
1,2-Dichloroethane-d4	531	533	500	500	106.2	106.6		76-114			
Toluene-d8	539	537	500	500	107.8	107.4		88-110			



Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
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<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/04/02-01.06</b>
MB: 2002/04/02-01.06-004		Date Extracted: 04/02/2002 12:27

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/02/2002 12:27	
2-Hexanone	ND	50	ug/L	04/02/2002 12:27	
Isopropylbenzene	ND	0.5	ug/L	04/02/2002 12:27	
p-Isopropyltoluene	ND	1.0	ug/L	04/02/2002 12:27	
Methylene chloride	ND	5.0	ug/L	04/02/2002 12:27	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/02/2002 12:27	
Naphthalene	ND	1.0	ug/L	04/02/2002 12:27	
n-Propylbenzene	ND	1.0	ug/L	04/02/2002 12:27	
Styrene	ND	0.5	ug/L	04/02/2002 12:27	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/02/2002 12:27	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/02/2002 12:27	
Tetrachloroethene	ND	0.5	ug/L	04/02/2002 12:27	
Toluene	ND	0.5	ug/L	04/02/2002 12:27	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/02/2002 12:27	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/02/2002 12:27	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/02/2002 12:27	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/02/2002 12:27	
Trichloroethene	ND	0.5	ug/L	04/02/2002 12:27	
Trichlorofluoromethane	ND	1.0	ug/L	04/02/2002 12:27	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/02/2002 12:27	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/02/2002 12:27	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/02/2002 12:27	
Vinyl acetate	ND	25	ug/L	04/02/2002 12:27	
Vinyl chloride	ND	0.5	ug/L	04/02/2002 12:27	
Total xylenes	ND	1.0	ug/L	04/02/2002 12:27	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	99.1	86-115	%	04/02/2002 12:27	
1,2-Dichloroethane-d4	96.2	76-114	%	04/02/2002 12:27	
Toluene-d8	98.9	88-110	%	04/02/2002 12:27	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

 STL San Francisco  
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Method Blank

Water

QC Batch # 2002/04/02-01.06

MB: 2002/04/02-01.06-004

Date Extracted: 04/02/2002 12:27

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/02/2002 12:27	
Acetone	ND	50	ug/L	04/02/2002 12:27	
Benzene	ND	0.5	ug/L	04/02/2002 12:27	
Bromodichloromethane	ND	0.5	ug/L	04/02/2002 12:27	
Bromobenzene	ND	1.0	ug/L	04/02/2002 12:27	
Bromochloromethane	ND	1.0	ug/L	04/02/2002 12:27	
Bromoform	ND	0.5	ug/L	04/02/2002 12:27	
Bromomethane	ND	1.0	ug/L	04/02/2002 12:27	
2-Butanone(MEK)	ND	50	ug/L	04/02/2002 12:27	
n-Butylbenzene	ND	1.0	ug/L	04/02/2002 12:27	
sec-Butylbenzene	ND	1.0	ug/L	04/02/2002 12:27	
tert-Butylbenzene	ND	1.0	ug/L	04/02/2002 12:27	
Carbon disulfide	ND	5.0	ug/L	04/02/2002 12:27	
Carbon tetrachloride	ND	0.5	ug/L	04/02/2002 12:27	
Chlorobenzene	ND	0.5	ug/L	04/02/2002 12:27	
Chloroethane	ND	1.0	ug/L	04/02/2002 12:27	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/02/2002 12:27	
Chloroform	ND	1.0	ug/L	04/02/2002 12:27	
Chloromethane	ND	1.0	ug/L	04/02/2002 12:27	
2-Chlorotoluene	ND	0.5	ug/L	04/02/2002 12:27	
4-Chlorotoluene	ND	0.5	ug/L	04/02/2002 12:27	
Dibromochloromethane	ND	0.5	ug/L	04/02/2002 12:27	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/02/2002 12:27	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/02/2002 12:27	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/02/2002 12:27	
1,3-Dichloropropane	ND	1.0	ug/L	04/02/2002 12:27	
2,2-Dichloropropane	ND	0.5	ug/L	04/02/2002 12:27	
1,1-Dichloropropene	ND	0.5	ug/L	04/02/2002 12:27	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/02/2002 12:27	
1,2-Dibromoethane	ND	0.5	ug/L	04/02/2002 12:27	
Dibromomethane	ND	0.5	ug/L	04/02/2002 12:27	
Dichlorodifluoromethane	ND	0.5	ug/L	04/02/2002 12:27	
1,1-Dichloroethane	ND	0.5	ug/L	04/02/2002 12:27	
1,2-Dichloroethane	ND	0.5	ug/L	04/02/2002 12:27	
1,1-Dichloroethene	ND	0.5	ug/L	04/02/2002 12:27	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/02/2002 12:27	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/02/2002 12:27	
1,2-Dichloropropane	ND	0.5	ug/L	04/02/2002 12:27	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/02/2002 12:27	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/02/2002 12:27	
Ethylbenzene	ND	0.5	ug/L	04/02/2002 12:27	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/01-01.06

MB: 2002/04/01-01.06-006

Date Extracted: 04/01/2002 13:37

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/01/2002 13:37	
2-Hexanone	ND	50	ug/L	04/01/2002 13:37	
Isopropylbenzene	ND	0.5	ug/L	04/01/2002 13:37	
p-Isopropyltoluene	ND	1.0	ug/L	04/01/2002 13:37	
Methylene chloride	ND	5.0	ug/L	04/01/2002 13:37	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/01/2002 13:37	
Naphthalene	ND	1.0	ug/L	04/01/2002 13:37	
n-Propylbenzene	ND	1.0	ug/L	04/01/2002 13:37	
Styrene	ND	0.5	ug/L	04/01/2002 13:37	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/01/2002 13:37	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/01/2002 13:37	
Tetrachloroethene	ND	0.5	ug/L	04/01/2002 13:37	
Toluene	ND	0.5	ug/L	04/01/2002 13:37	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/01/2002 13:37	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/01/2002 13:37	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/01/2002 13:37	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/01/2002 13:37	
Trichloroethene	ND	0.5	ug/L	04/01/2002 13:37	
Trichlorofluoromethane	ND	1.0	ug/L	04/01/2002 13:37	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/01/2002 13:37	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/01/2002 13:37	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/01/2002 13:37	
Vinyl acetate	ND	25	ug/L	04/01/2002 13:37	
Vinyl chloride	ND	0.5	ug/L	04/01/2002 13:37	
Total xylenes	ND	1.0	ug/L	04/01/2002 13:37	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	106.9	86-115	%	04/01/2002 13:37	
1,2-Dichloroethane-d4	106.8	76-114	%	04/01/2002 13:37	
Toluene-d8	107.7	88-110	%	04/01/2002 13:37	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/04/01-01.06

MB: 2002/04/01-01.06-006

Date Extracted: 04/01/2002 13:37

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/01/2002 13:37	
Acetone	ND	50	ug/L	04/01/2002 13:37	
Benzene	ND	0.5	ug/L	04/01/2002 13:37	
Bromodichloromethane	ND	0.5	ug/L	04/01/2002 13:37	
Bromobenzene	ND	1.0	ug/L	04/01/2002 13:37	
Bromochloromethane	ND	1.0	ug/L	04/01/2002 13:37	
Bromoform	ND	0.5	ug/L	04/01/2002 13:37	
Bromomethane	ND	1.0	ug/L	04/01/2002 13:37	
2-Butanone(MEK)	ND	50	ug/L	04/01/2002 13:37	
n-Butylbenzene	ND	1.0	ug/L	04/01/2002 13:37	
sec-Butylbenzene	ND	1.0	ug/L	04/01/2002 13:37	
tert-Butylbenzene	ND	1.0	ug/L	04/01/2002 13:37	
Carbon disulfide	ND	5.0	ug/L	04/01/2002 13:37	
Carbon tetrachloride	ND	0.5	ug/L	04/01/2002 13:37	
Chlorobenzene	ND	0.5	ug/L	04/01/2002 13:37	
Chloroethane	ND	1.0	ug/L	04/01/2002 13:37	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/01/2002 13:37	
Chloroform	ND	1.0	ug/L	04/01/2002 13:37	
Chloromethane	ND	1.0	ug/L	04/01/2002 13:37	
2-Chlorotoluene	ND	0.5	ug/L	04/01/2002 13:37	
4-Chlorotoluene	ND	0.5	ug/L	04/01/2002 13:37	
Dibromochloromethane	ND	0.5	ug/L	04/01/2002 13:37	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/01/2002 13:37	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/01/2002 13:37	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/01/2002 13:37	
1,3-Dichloropropane	ND	1.0	ug/L	04/01/2002 13:37	
2,2-Dichloropropane	ND	0.5	ug/L	04/01/2002 13:37	
1,1-Dichloropropene	ND	0.5	ug/L	04/01/2002 13:37	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/01/2002 13:37	
1,2-Dibromoethane	ND	0.5	ug/L	04/01/2002 13:37	
Dibromomethane	ND	0.5	ug/L	04/01/2002 13:37	
Dichlorodifluoromethane	ND	0.5	ug/L	04/01/2002 13:37	
1,1-Dichloroethane	ND	0.5	ug/L	04/01/2002 13:37	
1,2-Dichloroethane	ND	0.5	ug/L	04/01/2002 13:37	
1,1-Dichloroethene	ND	0.5	ug/L	04/01/2002 13:37	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/01/2002 13:37	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/01/2002 13:37	
1,2-Dichloropropane	ND	0.5	ug/L	04/01/2002 13:37	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/01/2002 13:37	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/01/2002 13:37	
Ethylbenzene	ND	0.5	ug/L	04/01/2002 13:37	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
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CA DHS ELAP#1094

Sample ID: MFC-28-4.0	Lab Sample ID: 2002-04-0014-028
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 18:07
Sampled: 03/28/2002 08:30	QC-Batch: 2002/04/01-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Ethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
2-Hexanone	ND	50	ug/L	1.00	04/01/2002 18:07	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Methylene chloride	ND	5.0	ug/L	1.00	04/01/2002 18:07	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/01/2002 18:07	
Naphthalene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Styrene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Toluene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Trichloroethene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Vinyl acetate	ND	25	ug/L	1.00	04/01/2002 18:07	
Vinyl chloride	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Total xylenes	ND	1.0	ug/L	1.00	04/01/2002 18:07	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	105.9	86-115	%	1.00	04/01/2002 18:07	
1,2-Dichloroethane-d4	113.1	76-114	%	1.00	04/01/2002 18:07	
Toluene-d8	106.9	88-110	%	1.00	04/01/2002 18:07	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-28-4.0	Lab Sample ID: 2002-04-0014-028
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 18:07
Sampled: 03/28/2002 08:30	QC-Batch: 2002/04/01-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/01/2002 18:07	
Acetone	ND	50	ug/L	1.00	04/01/2002 18:07	
Benzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Bromobenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Bromochloromethane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Bromoform	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Bromomethane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/01/2002 18:07	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Carbon disulfide	ND	5.0	ug/L	1.00	04/01/2002 18:07	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Chlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Chloroethane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/01/2002 18:07	
Chloroform	ND	1.0	ug/L	1.00	04/01/2002 18:07	
Chloromethane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/01/2002 18:07	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Dibromomethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 18:07	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 18:07	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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Pleasanton, CA 94566Tel 925 484 1919  
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CA DHS ELAP#1094

Sample ID: MFC-45-4.0	Lab Sample ID: 2002-04-0014-027
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 14:16
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/02-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
2-Hexanone	ND	50	ug/L	1.00	04/02/2002 14:16	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Methylene chloride	ND	5.0	ug/L	1.00	04/02/2002 14:16	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/02/2002 14:16	
Naphthalene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Styrene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Toluene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Trichloroethene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Vinyl acetate	ND	25	ug/L	1.00	04/02/2002 14:16	
Vinyl chloride	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2002 14:16	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	100.4	86-115	%	1.00	04/02/2002 14:16	
1,2-Dichloroethane-d4	98.9	76-114	%	1.00	04/02/2002 14:16	
Toluene-d8	97.9	88-110	%	1.00	04/02/2002 14:16	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
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Pleasanton, CA 94566

Sample ID: MFC-45-4.0	Lab Sample ID: 2002-04-0014-027
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 14:16
Sampled: 03/28/2002 09:15	QC-Batch: 2002/04/02-01.06
Matrix: Air	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/02/2002 14:16	
Acetone	ND	50	ug/L	1.00	04/02/2002 14:16	
Benzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Bromobenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Bromochloromethane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Bromoform	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Bromomethane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/02/2002 14:16	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Carbon disulfide	ND	5.0	ug/L	1.00	04/02/2002 14:16	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Chlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Chloroethane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/02/2002 14:16	
Chloroform	ND	1.0	ug/L	1.00	04/02/2002 14:16	
Chloromethane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/02/2002 14:16	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Dibromomethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 14:16	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 14:16	



Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-29-4.0</b>	Lab Sample ID: 2002-04-0014-026
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 13:40
Sampled: 03/28/2002 08:40	QC-Batch: 2002/04/02-01.06
Matrix: Air	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
2-Hexanone	ND	50	ug/L	1.00	04/02/2002 13:40	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Methylene chloride	ND	5.0	ug/L	1.00	04/02/2002 13:40	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/02/2002 13:40	
Naphthalene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Styrene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Toluene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Trichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Vinyl acetate	ND	25	ug/L	1.00	04/02/2002 13:40	
Vinyl chloride	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2002 13:40	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	100.3	86-115	%	1.00	04/02/2002 13:40	
1,2-Dichloroethane-d4	102.7	76-114	%	1.00	04/02/2002 13:40	
Toluene-d8	99.0	88-110	%	1.00	04/02/2002 13:40	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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 www.chromalab.com

CA DHS ELAP#1094

Sample ID: <b>MFC-29-4.0</b>	Lab Sample ID: 2002-04-0014-026
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 13:40
Sampled: 03/28/2002 08:40	QC-Batch: 2002/04/02-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/02/2002 13:40	
Acetone	ND	50	ug/L	1.00	04/02/2002 13:40	
Benzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Bromobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Bromochloromethane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Bromoform	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Bromomethane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/02/2002 13:40	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Carbon disulfide	ND	5.0	ug/L	1.00	04/02/2002 13:40	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Chlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Chloroethane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/02/2002 13:40	
Chloroform	ND	1.0	ug/L	1.00	04/02/2002 13:40	
Chloromethane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/02/2002 13:40	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Dibromomethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:40	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 13:40	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

STL San Francisco  
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CA DHS ELAP#1094

Sample ID: <b>MFC-36-4.0</b>	Lab Sample ID: 2002-04-0014-025
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 13:03
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/02-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
2-Hexanone	ND	50	ug/L	1.00	04/02/2002 13:03	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Methylene chloride	ND	5.0	ug/L	1.00	04/02/2002 13:03	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/02/2002 13:03	
Naphthalene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Styrene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Toluene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Trichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Vinyl acetate	ND	25	ug/L	1.00	04/02/2002 13:03	
Vinyl chloride	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2002 13:03	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	99.7	86-115	%	1.00	04/02/2002 13:03	
1,2-Dichloroethane-d4	99.8	76-114	%	1.00	04/02/2002 13:03	
Toluene-d8	98.7	88-110	%	1.00	04/02/2002 13:03	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris AlgerTest Method: 8260B  
Prep Method: 5030BSTL San Francisco  
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CA DHS ELAP#1094

Sample ID: MFC-36-4.0	Lab Sample ID: 2002-04-0014-025
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/02/2002 13:03
Sampled: 03/28/2002 08:55	QC-Batch: 2002/04/02-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	21	5.0	ug/L	1.00	04/02/2002 13:03	
Acetone	ND	50	ug/L	1.00	04/02/2002 13:03	
Benzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Bromobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Bromochloromethane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Bromoform	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Bromomethane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/02/2002 13:03	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Carbon disulfide	ND	5.0	ug/L	1.00	04/02/2002 13:03	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Chlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Chloroethane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/02/2002 13:03	
Chloroform	ND	1.0	ug/L	1.00	04/02/2002 13:03	
Chloromethane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/02/2002 13:03	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Dibromomethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:03	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 13:03	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-38-4.0	Lab Sample ID: 2002-04-0014-024
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 15:40
Sampled: 03/28/2002 09:55	QC-Batch: 2002/04/01-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Ethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
2-Hexanone	ND	50	ug/L	1.00	04/01/2002 15:40	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Methylene chloride	ND	5.0	ug/L	1.00	04/01/2002 15:40	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/01/2002 15:40	
Naphthalene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Styrene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Toluene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Trichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Vinyl acetate	ND	25	ug/L	1.00	04/01/2002 15:40	
Vinyl chloride	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Total xylenes	ND	1.0	ug/L	1.00	04/01/2002 15:40	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.0	86-115	%	1.00	04/01/2002 15:40	
1,2-Dichloroethane-d4	105.8	76-114	%	1.00	04/01/2002 15:40	
Toluene-d8	106.3	88-110	%	1.00	04/01/2002 15:40	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-38-4.0	Lab Sample ID: 2002-04-0014-024
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 15:40
Sampled: 03/28/2002 09:55	QC-Batch: 2002/04/01-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/01/2002 15:40	
Acetone	ND	50	ug/L	1.00	04/01/2002 15:40	
Benzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Bromobenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Bromochloromethane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Bromoform	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Bromomethane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/01/2002 15:40	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Carbon disulfide	ND	5.0	ug/L	1.00	04/01/2002 15:40	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Chlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Chloroethane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/01/2002 15:40	
Chloroform	ND	1.0	ug/L	1.00	04/01/2002 15:40	
Chloromethane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/01/2002 15:40	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Dibromomethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:40	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 15:40	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-41-4.0</b>	Lab Sample ID: 2002-04-0014-023
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 15:03
Sampled: 03/28/2002 09:35	QC-Batch: 2002/04/01-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Ethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
2-Hexanone	ND	50	ug/L	1.00	04/01/2002 15:03	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Methylene chloride	ND	5.0	ug/L	1.00	04/01/2002 15:03	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/01/2002 15:03	
Naphthalene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Styrene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Toluene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Trichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Vinyl acetate	ND	25	ug/L	1.00	04/01/2002 15:03	
Vinyl chloride	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Total xylenes	ND	1.0	ug/L	1.00	04/01/2002 15:03	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.6	86-115	%	1.00	04/01/2002 15:03	
1,2-Dichloroethane-d4	106.9	76-114	%	1.00	04/01/2002 15:03	
Toluene-d8	104.8	88-110	%	1.00	04/01/2002 15:03	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-41-4.0

Lab Sample ID: 2002-04-0014-023

Project: 01-201-A  
7th St.

Received: 03/28/2002 19:20

Site: Port of Oakland

Extracted: 04/01/2002 15:03

Sampled: 03/28/2002 09:35

QC-Batch: 2002/04/01-01.06

Matrix: Air

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/01/2002 15:03	
Acetone	ND	50	ug/L	1.00	04/01/2002 15:03	
Benzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Bromobenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Bromochloromethane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Bromoform	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Bromomethane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/01/2002 15:03	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Carbon disulfide	ND	5.0	ug/L	1.00	04/01/2002 15:03	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Chlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Chloroethane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/01/2002 15:03	
Chloroform	ND	1.0	ug/L	1.00	04/01/2002 15:03	
Chloromethane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/01/2002 15:03	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Dibromomethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 15:03	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 15:03	



## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: MFC-23-4.0	Lab Sample ID: 2002-04-0014-022
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 14:27
Sampled: 03/28/2002 10:35	QC-Batch: 2002/04/01-01.06
Matrix: Air	

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
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Ethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
2-Hexanone	ND	50	ug/L	1.00	04/01/2002 14:27	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Methylene chloride	ND	5.0	ug/L	1.00	04/01/2002 14:27	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/01/2002 14:27	
Naphthalene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Styrene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Toluene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Trichloroethene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Vinyl acetate	ND	25	ug/L	1.00	04/01/2002 14:27	
Vinyl chloride	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Total xylenes	ND	1.0	ug/L	1.00	04/01/2002 14:27	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.9	86-115	%	1.00	04/01/2002 14:27	
1,2-Dichloroethane-d4	108.8	76-114	%	1.00	04/01/2002 14:27	
Toluene-d8	104.1	88-110	%	1.00	04/01/2002 14:27	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: MFC-23-4.0	Lab Sample ID: 2002-04-0014-022
Project: 01-201-A 7th St.	Received: 03/28/2002 19:20
Site: Port of Oakland	Extracted: 04/01/2002 14:27
Sampled: 03/28/2002 10:35	QC-Batch: 2002/04/01-01.06
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/01/2002 14:27	
Acetone	ND	50	ug/L	1.00	04/01/2002 14:27	
Benzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Bromobenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Bromochloromethane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Bromoform	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Bromomethane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/01/2002 14:27	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Carbon disulfide	ND	5.0	ug/L	1.00	04/01/2002 14:27	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Chlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Chloroethane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/01/2002 14:27	
Chloroform	ND	1.0	ug/L	1.00	04/01/2002 14:27	
Chloromethane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/01/2002 14:27	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Dibromomethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 14:27	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 14:27	

Volatile Organic Compounds by 8260B (Low Level)

<b>Iris Environmental</b>	✉ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A	Project: 7th St.
Site Port of Oakland	

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 #
MFC-23-4.0	Air	03/28/2002 10:35	22
MFC-41-4.0	Air	03/28/2002 09:35	23
MFC-38-4.0	Air	03/28/2002 09:55	24
MFC-36-4.0	Air	03/28/2002 08:55	25
MFC-29-4.0	Air	03/28/2002 08:40	26
MFC-45-4.0	Air	03/28/2002 09:15	27
MFC-28-4.0	Air	03/28/2002 08:30	28

Submission #: 2002-04-0014

Date: April 11, 2002

**SEVERN**  
**TRENT**  
**SERVICES**

**Iris Environmental**

1615 Broadway, Suite 1003  
Oakland, CA 94612

Attn: Chris Alger

Project: 01-201-A  
7th St.

Site: Port of Oakland

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94586

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 Thursday March 28, 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  
May 12, 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: [tgranicher@chromalab.com](mailto:tgranicher@chromalab.com)

Sincerely,



Tod Granicher  
Project Manager

**IRIS ENVIRONMENTAL**

1615 Broadway, Suite 1003  
 Oakland, CA 94612  
 (510) 834-4747  
 (510) 834-4199 (fax)

**CHAIN-OF-CUSTODY**

Date 03/25/02 Page 1 of 1

**2002-03-0540**

Samplers (signature): SLi *PROSUE*

Sample ID	Date	Time	Matrix	Preserv.
MFC-17-4.0	03/26	17 <sup>35</sup>	SOIL GAS	-28 -6
MFC-16-4.0		17 <sup>50</sup>		-28 -12.4
MFC-19-4.0		18 <sup>05</sup>		-20 -4.2
MFC-18-4.0		18 <sup>20</sup>		-28 -3
*MFC-15-4.0		18 <sup>20</sup>		

Analyses Required												Number of Containers
VOCs B260	TPH B015	*FIXED GASES	METHANE									
X	X	X	X									2
X	X	X	X									2
X	X	X	X									2
X	X	X	X									2
X	X	X	X									1

**Project Information**  
 Project Name: 7th St.  
 Project Number: 01-201-A  
 Contact: Chris Alger  
 E-mail: @irisenv.com

**Sample Receipt**  
 # of Containers: \_\_\_\_\_  
 Head space: \_\_\_\_\_  
 Temperature: 16.0°C  
 Conforms to Record: (ambient)

Relinquished By: SLi 10<sup>45</sup>  
 (Signature): \_\_\_\_\_  
 (Name): EMILY CORWIN  
 (Company): IRIS ENVIRONMENTAL

Received By: [Signature] 10<sup>45</sup>  
 (Signature): \_\_\_\_\_  
 (Name): STC-SF  
 (Company): \_\_\_\_\_

Report: Routine Level 2 Level 3 Level 4 Electronic  
 TAT: 5-Day 24 48 72 Other: 7-DAY

Special Instructions/Comments:  
 \*FIXED GASES = O<sub>2</sub>, CO, CO<sub>2</sub>, N + Methane by METHOD B1946  
 \*NO SMA DELIVERY FOR MFC-15-4.0, ONLY I TEDLAR BAG.

Relinquished By: [Signature] 1600  
 (Signature): \_\_\_\_\_  
 (Name): STC-SF  
 (Company): \_\_\_\_\_

Received By: Demise Harrington 1600  
 (Signature): \_\_\_\_\_  
 (Name): D. Harrington  
 (Company): STC-SF 3/27/02

SAMPLE STATUS CHANGE FORM				Requested by
Submission#	Client Samp.ID	Old Status Description	Description of Changes	(Client's name)
2002-03-0540				CHRIS Alger
-01	MFC-17-4.0	aas in air	cancel Gas only	
-02	MFC-16-4.0	↓		
-03	MFC-19-4.0			
-04	MFC-18-4.0			
Changes were done in lims by(login): <u>Tgranicher</u>				On: <u>3/28/02</u>
CC: <input type="checkbox"/> Lab.Director <input type="checkbox"/> Dept.manager <input type="checkbox"/> Analyst <input type="checkbox"/> Proj.Manager				

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E2D010143      Work Order #...: EXGDPIAC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D050000-316      EXGDPIAD-LCSD  
 Prep Date.....: 04/04/02      Analysis Date...: 04/04/02  
 Prep Batch #...: 2095316      Analysis Time...: 10:27  
 Dilution Factor: 1      Instrument ID...: GC6  
 Analyst ID.....: 358011

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
TPH (as Gasoline)	10.0	10.4	ppm(v/v)	104		EPA-19 TO-3
	10.0	10.4	ppm(v/v)	104	0.16	EPA-19 TO-3

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2D010143      Work Order #...: EXGDP1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D050000-316      EXGDP1AD-LCSD  
 Prep Date.....: 04/04/02      Analysis Date...: 04/04/02  
 Prep Batch #...: 2095316      Analysis Time...: 10:27  
 Dilution Factor: 1      Instrument ID...: GC6  
 Analyst ID.....: 358011

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	104	(85 - 125)			EPA-19 TO-3
	104	(85 - 125)	0.16	(0-20)	EPA-19 TO-3

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E2D010143      Work Order #....: EXF8F1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D050000-288      EXF8F1AD-LCSD  
 Prep Date.....: 04/05/02      Analysis Date...: 04/05/02  
 Prep Batch #....: 2095288      Analysis Time...: 07:21  
 Dilution Factor: 1      Instrument ID...: GC1  
 Analyst ID.....: 101605

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Carbon dioxide	1.00	1.06	% (v/v)	106		ASTM D1946
	1.00	1.07	% (v/v)	107	0.58	ASTM D1946
Methane	0.0500	0.0547	% (v/v)	109		ASTM D1946
	0.0500	0.0546	% (v/v)	109	0.13	ASTM D1946

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2D010143      Work Order #...: EXF8F1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D050000-288      EXF8F1AD-LCSD  
 Prep Date.....: 04/05/02      Analysis Date...: 04/05/02  
 Prep Batch #...: 2095288      Analysis Time...: 07:21  
 Dilution Factor: 1      Instrument ID...: GC1  
 Analyst ID.....: 101605

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Carbon dioxide	106	(75 - 125)			ASTM D1946
	107	(75 - 125)	0.58	(0-20)	ASTM D1946
Methane	109	(60 - 120)			ASTM D1946
	109	(60 - 120)	0.13	(0-20)	ASTM D1946

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2D010143  
MB Lot-Sample #: M2D050000-316  
Analysis Date...: 04/04/02  
Dilution Factor: 1

Work Order #...: EXGDP1AA  
Prep Date.....: 04/04/02  
Prep Batch #...: 2095316  
Analyst ID.....: 358011

Matrix.....: AIR  
Analysis Time...: 12:26  
Instrument ID...: GC6

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
TPH (as Gasoline)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: E2D010143  
MB Lot-Sample #: M2D050000-288  
Analysis Date...: 04/05/02  
Dilution Factor: 1

Work Order #....: EXP8F1AA  
Prep Date.....: 04/05/02  
Prep Batch #....: 2095288  
Analyst ID.....: 101605

Matrix.....: AIR  
Analysis Time...: 08:02  
Instrument ID...: GC1

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# QC DATA ASSOCIATION SUMMARY

E2D010143

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2095316	
002	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2095316	
003	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2095316	
004	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2095316	

STL SAN FRANCISCO

Client Sample ID: MFC-18-4.0

GC Volatiles

Lot-Sample #....: E2D010143-004    Work Order #....: EW8A71AD    Matrix.....: AIR  
Date Sampled....: 03/26/02 18:20    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #....: 2095316    Analysis Time...: 06:17  
Dilution Factor: 28.1  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	910	28	ppm(v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-18-4.0

GC Volatiles

Lot-Sample #...: E2D010143-004    Work Order #...: EW8A71AC    Matrix.....: AIR  
Date Sampled...: 03/26/02 18:20    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 12:02  
Dilution Factor: 1.96  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Carbon dioxide	17	0.020	% (v/v)
Oxygen	0.35	0.20	% (v/v)
Nitrogen	19	2.0	% (v/v)
Methane	64	0.00039	% (v/v)
Carbon monoxide	ND	0.0020	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-19-4.0

GC Volatiles

Lot-Sample #...: E2D010143-003    Work Order #...: EW8A61AD    Matrix.....: AIR  
Date Sampled...: 03/26/02 18:05    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095316    Analysis Time...: 05:54  
Dilution Factor: 30  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	810	30	ppm(v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.



STL SAN FRANCISCO

Client Sample ID: MFC-19-4.0

GC Volatiles

Lot-Sample #...: E2D010143-003    Work Order #...: EW8A61AC    Matrix.....: AIR  
Date Sampled...: 03/26/02 18:05    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 11:43  
Dilution Factor: 2.09  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Carbon dioxide	13	0.021	% (v/v)
Oxygen	2.1	0.21	% (v/v)
Nitrogen	17	2.1	% (v/v)
Methane	68	0.00042	% (v/v)
Carbon monoxide	ND	0.0021	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-16-4.0

GC Volatiles

Lot-Sample #...: E2D010143-002    Work Order #...: EW8A51AD    Matrix.....: AIR  
Date Sampled...: 03/26/02 17:50    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095316    Analysis Time...: 06:42  
Dilution Factor: 308  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	28000	310	ppm(v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-16-4.0

GC Volatiles

Lot-Sample #...: E2D010143-002    Work Order #...: EW8A51AC    Matrix.....: AIR  
Date Sampled...: 03/26/02 17:50    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 11:25  
Dilution Factor: 3.04  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Carbon dioxide	6.3	0.030	% (v/v)
Oxygen	6.5	0.30	% (v/v)
Nitrogen	50	3.0	% (v/v)
Methane	37	0.00061	% (v/v)
Carbon monoxide	ND	0.0030	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-17-4.0

GC Volatiles

Lot-Sample #...: E2D010143-001    Work Order #...: EW8A41AD    Matrix.....: AIR  
Date Sampled...: 03/26/02 17:35    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095316    Analysis Time...: 05:31  
Dilution Factor: 31.1  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	340	31	ppm (v/v)

NOTE(S) :

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

STL SAN FRANCISCO

Client Sample ID: MFC-17-4.0

GC Volatiles

Lot-Sample #...: E2D010143-001 Work Order #...: EW8A41AC Matrix.....: AIR  
Date Sampled...: 03/26/02 17:35 Date Received...: 03/29/02  
Prep Date.....: 04/05/02 Analysis Date...: 04/05/02  
Prep Batch #...: 2095288 Analysis Time...: 11:04  
Dilution Factor: 2.17  
Analyst ID.....: 101605 Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	7.7	0.022	% (v/v)
Oxygen	0.89	0.22	% (v/v)
Nitrogen	15	2.2	% (v/v)
Methane	76	0.00043	% (v/v)
Carbon monoxide	ND	0.0022	% (v/v)

# SAMPLE SUMMARY

E2D010143

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EW8A4	001	MFC-17-4.0	03/26/02	17:35
EW8A5	002	MFC-16-4.0	03/26/02	17:50
EW8A6	003	MFC-19-4.0	03/26/02	18:05
EW8A7	004	MFC-18-4.0	03/26/02	18:20

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# ANALYTICAL METHODS SUMMARY

E2D010143

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Fixed Gases	ASTM D1946
TPH by TO-3	EPA-19 TO-3

## References:

- ASTM      Annual Book Of ASTM Standards.
- EPA-19    "Compendium of Methods for the Determination of Toxic  
Organic Compounds in Ambient Air", EPA/600/4-89/017,  
January 1988

# EXECUTIVE SUMMARY - Detection Highlights

E2D010143

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>MFC-17-4.0 03/26/02 17:35 001</b>				
Carbon dioxide	7.7	0.022	% (v/v)	ASTM D1946
Oxygen	0.89	0.22	% (v/v)	ASTM D1946
Nitrogen	15	2.2	% (v/v)	ASTM D1946
Methane	76	0.00043	% (v/v)	ASTM D1946
TPH (as Gasoline)	340	31	ppm (v/v)	EPA-19 TO-3
<b>MFC-16-4.0 03/26/02 17:50 002</b>				
Carbon dioxide	6.3	0.030	% (v/v)	ASTM D1946
Oxygen	6.5	0.30	% (v/v)	ASTM D1946
Nitrogen	50	3.0	% (v/v)	ASTM D1946
Methane	37	0.00061	% (v/v)	ASTM D1946
TPH (as Gasoline)	28000	310	ppm (v/v)	EPA-19 TO-3
<b>MFC-19-4.0 03/26/02 18:05 003</b>				
Carbon dioxide	13	0.021	% (v/v)	ASTM D1946
Oxygen	2.1	0.21	% (v/v)	ASTM D1946
Nitrogen	17	2.1	% (v/v)	ASTM D1946
Methane	68	0.00042	% (v/v)	ASTM D1946
TPH (as Gasoline)	810	30	ppm (v/v)	EPA-19 TO-3
<b>MFC-18-4.0 03/26/02 18:20 004</b>				
Carbon dioxide	17	0.020	% (v/v)	ASTM D1946
Oxygen	0.35	0.20	% (v/v)	ASTM D1946
Nitrogen	19	2.0	% (v/v)	ASTM D1946
Methane	64	0.00039	% (v/v)	ASTM D1946
TPH (as Gasoline)	910	28	ppm (v/v)	EPA-19 TO-3



# **ANALYTICAL REPORT**

**PROJECT NO. 01-201-A**

**Port of Oakland**

**Lot #: E2D010143**

**Tod Granicher**

**STL San Francisco**

**SEVERN TRENT LABORATORIES, INC.**

**Marisol Tabirara  
Project Manager**

**April 8, 2002**

Submission #: 2002-03-0540



Volatile Organic Compounds by 8260B (Low Level)

**Legend & Notes**

Test Method: 8260B

Prep Method: 5030B

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Pleasanton, CA 94566

Tel 925 484 1919  
Fax 925 484 1096  
[www.stl-inc.com](http://www.stl-inc.com)  
[www.chromalab.com](http://www.chromalab.com)

**Analysis Flags**

Im

Reporting limits raised due to high level of non-target analyte materials.

CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

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www.chromalab.com

CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/03/28-01.60**  
 LCS: 2002/03/28-01.60-023 Extracted: 03/28/2002 11:23 Analyzed: 03/28/2002 11:23  
 LCSD: 2002/03/28-01.60-057 Extracted: 03/28/2002 11:57 Analyzed: 03/28/2002 11:57

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	19.3	19.6	20.0	20.0	96.5	98.0	1.5	89-129	20		
Chlorobenzene	21.8	20.5	20.0	20.0	109.0	102.5	6.1	61-121	20		
1,1-Dichloroethene	19.2	18.7	20.0	20.0	96.0	93.5	2.6	65-125	20		
Toluene	19.6	18.8	20.0	20.0	98.0	94.0	4.2	70-130	20		
Trichloroethene	18.6	18.9	20.0	20.0	93.0	94.5	1.6	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	515	490	500	500	103.0	98.0		86-115			
1,2-Dichloroethane-d4	498	492	500	500	99.6	98.4		76-114			
Toluene-d8	482	486	500	500	96.4	97.2		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B

Prep Method: 5030B

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Pleasanton, CA 94566

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2002/03/28-01.60</b>
MB: 2002/03/28-01.60-031		Date Extracted: 03/28/2002 12:31

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
Hexachlorobutadiene	ND	1.0	ug/L	03/28/2002 12:31	
2-Hexanone	ND	50	ug/L	03/28/2002 12:31	
Isopropylbenzene	ND	0.5	ug/L	03/28/2002 12:31	
p-Isopropyltoluene	ND	1.0	ug/L	03/28/2002 12:31	
Methylene chloride	ND	5.0	ug/L	03/28/2002 12:31	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	03/28/2002 12:31	
Naphthalene	ND	1.0	ug/L	03/28/2002 12:31	
n-Propylbenzene	ND	1.0	ug/L	03/28/2002 12:31	
Styrene	ND	0.5	ug/L	03/28/2002 12:31	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	03/28/2002 12:31	
1,1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/28/2002 12:31	
Tetrachloroethene	ND	0.5	ug/L	03/28/2002 12:31	
Toluene	ND	0.5	ug/L	03/28/2002 12:31	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/28/2002 12:31	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/28/2002 12:31	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/28/2002 12:31	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/28/2002 12:31	
Trichloroethene	ND	0.5	ug/L	03/28/2002 12:31	
Trichlorofluoromethane	ND	1.0	ug/L	03/28/2002 12:31	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/28/2002 12:31	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	03/28/2002 12:31	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	03/28/2002 12:31	
Vinyl acetate	ND	25	ug/L	03/28/2002 12:31	
Vinyl chloride	ND	0.5	ug/L	03/28/2002 12:31	
Total xylenes	ND	1.0	ug/L	03/28/2002 12:31	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	99.5	86-115	%	03/28/2002 12:31	
1,2-Dichloroethane-d4	106.5	76-114	%	03/28/2002 12:31	
Toluene-d8	98.4	88-110	%	03/28/2002 12:31	

## Volatile Organic Compounds by 8260B (Low Level)

## Batch QC report

Test Method: 8260B

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Method Blank

Water

QC Batch # 2002/03/28-01.60

MB: 2002/03/28-01.60-031

Date Extracted: 03/28/2002 12:31

 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
MTBE	ND	5.0	ug/L	03/28/2002 12:31	
Acetone	ND	50	ug/L	03/28/2002 12:31	
Benzene	ND	0.5	ug/L	03/28/2002 12:31	
Bromodichloromethane	ND	0.5	ug/L	03/28/2002 12:31	
Bromobenzene	ND	1.0	ug/L	03/28/2002 12:31	
Bromochloromethane	ND	1.0	ug/L	03/28/2002 12:31	
Bromoform	ND	0.5	ug/L	03/28/2002 12:31	
Bromomethane	ND	1.0	ug/L	03/28/2002 12:31	
2-Butanone(MEK)	ND	50	ug/L	03/28/2002 12:31	
n-Butylbenzene	ND	1.0	ug/L	03/28/2002 12:31	
sec-Butylbenzene	ND	1.0	ug/L	03/28/2002 12:31	
tert-Butylbenzene	ND	1.0	ug/L	03/28/2002 12:31	
Carbon disulfide	ND	5.0	ug/L	03/28/2002 12:31	
Carbon tetrachloride	ND	0.5	ug/L	03/28/2002 12:31	
Chlorobenzene	ND	0.5	ug/L	03/28/2002 12:31	
Chloroethane	ND	1.0	ug/L	03/28/2002 12:31	
2-Chloroethylvinyl ether	ND	5.0	ug/L	03/28/2002 12:31	
Chloroform	ND	1.0	ug/L	03/28/2002 12:31	
Chloromethane	ND	1.0	ug/L	03/28/2002 12:31	
2-Chlorotoluene	ND	0.5	ug/L	03/28/2002 12:31	
4-Chlorotoluene	ND	0.5	ug/L	03/28/2002 12:31	
Dibromochloromethane	ND	0.5	ug/L	03/28/2002 12:31	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/28/2002 12:31	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/28/2002 12:31	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/28/2002 12:31	
1,3-Dichloropropane	ND	1.0	ug/L	03/28/2002 12:31	
2,2-Dichloropropane	ND	0.5	ug/L	03/28/2002 12:31	
1,1-Dichloropropene	ND	0.5	ug/L	03/28/2002 12:31	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/28/2002 12:31	
1,2-Dibromoethane	ND	0.5	ug/L	03/28/2002 12:31	
Dibromomethane	ND	0.5	ug/L	03/28/2002 12:31	
Dichlorodifluoromethane	ND	0.5	ug/L	03/28/2002 12:31	
1,1-Dichloroethane	ND	0.5	ug/L	03/28/2002 12:31	
1,2-Dichloroethane	ND	0.5	ug/L	03/28/2002 12:31	
1,1-Dichloroethene	ND	0.5	ug/L	03/28/2002 12:31	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/28/2002 12:31	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/28/2002 12:31	
1,2-Dichloropropane	ND	0.5	ug/L	03/28/2002 12:31	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/28/2002 12:31	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/28/2002 12:31	
Ethylbenzene	ND	0.5	ug/L	03/28/2002 12:31	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-15-4.0</b>	Lab Sample ID: 2002-03-0540-005
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 16:28
Sampled: 03/26/2002 18:30	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Ethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
2-Hexanone	ND	50	ug/L	1.00	03/28/2002 16:28	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Methylene chloride	ND	5.0	ug/L	1.00	03/28/2002 16:28	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/28/2002 16:28	
Naphthalene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Styrene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Toluene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Trichloroethene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Vinyl acetate	ND	25	ug/L	1.00	03/28/2002 16:28	
Vinyl chloride	7.3	0.50	ug/L	1.00	03/28/2002 16:28	
Total xylenes	ND	1.0	ug/L	1.00	03/28/2002 16:28	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	98.6	86-115	%	1.00	03/28/2002 16:28	
1,2-Dichloroethane-d4	99.3	76-114	%	1.00	03/28/2002 16:28	
Toluene-d8	96.9	88-110	%	1.00	03/28/2002 16:28	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-15-4.0	Lab Sample ID: 2002-03-0540-005
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 16:28
Sampled: 03/26/2002 18:30	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/28/2002 16:28	
Acetone	ND	50	ug/L	1.00	03/28/2002 16:28	
Benzene	0.88	0.50	ug/L	1.00	03/28/2002 16:28	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Bromobenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Bromochloromethane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Bromoform	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Bromomethane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/28/2002 16:28	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Carbon disulfide	ND	5.0	ug/L	1.00	03/28/2002 16:28	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Chlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Chloroethane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/28/2002 16:28	
Chloroform	ND	1.0	ug/L	1.00	03/28/2002 16:28	
Chloromethane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/28/2002 16:28	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Dibromomethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 16:28	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 16:28	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-18-4.0</b>	Lab Sample ID: 2002-03-0540-004
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 15:54
Sampled: 03/26/2002 18:20	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Ethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
2-Hexanone	ND	50	ug/L	1.00	03/28/2002 15:54	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Methylene chloride	ND	5.0	ug/L	1.00	03/28/2002 15:54	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/28/2002 15:54	
Naphthalene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Styrene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Toluene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Trichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Vinyl acetate	ND	25	ug/L	1.00	03/28/2002 15:54	
Vinyl chloride	4.3	0.50	ug/L	1.00	03/28/2002 15:54	
Total xylenes	ND	1.0	ug/L	1.00	03/28/2002 15:54	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	100.6	86-115	%	1.00	03/28/2002 15:54	
1,2-Dichloroethane-d4	103.1	76-114	%	1.00	03/28/2002 15:54	
Toluene-d8	96.9	88-110	%	1.00	03/28/2002 15:54	



## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-18-4.0</b>	Lab Sample ID: 2002-03-0540-004
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 15:54
Sampled: 03/26/2002 18:20	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/28/2002 15:54	
Acetone	ND	50	ug/L	1.00	03/28/2002 15:54	
Benzene	1.7	0.50	ug/L	1.00	03/28/2002 15:54	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Bromobenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Bromochloromethane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Bromoform	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Bromomethane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/28/2002 15:54	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Carbon disulfide	ND	5.0	ug/L	1.00	03/28/2002 15:54	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Chlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Chloroethane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/28/2002 15:54	
Chloroform	ND	1.0	ug/L	1.00	03/28/2002 15:54	
Chloromethane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/28/2002 15:54	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Dibromomethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:54	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 15:54	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-19-4.0</b>	Lab Sample ID: 2002-03-0540-003
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 15:20
Sampled: 03/26/2002 18:05	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Ethylbenzene	6.8	0.50	ug/L	1.00	03/28/2002 15:20	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
2-Hexanone	ND	50	ug/L	1.00	03/28/2002 15:20	
Isopropylbenzene	2.2	0.50	ug/L	1.00	03/28/2002 15:20	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
Methylene chloride	ND	5.0	ug/L	1.00	03/28/2002 15:20	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/28/2002 15:20	
Naphthalene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
n-Propylbenzene	2.1	1.0	ug/L	1.00	03/28/2002 15:20	
Styrene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Toluene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Trichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
1,2,4-Trimethylbenzene	0.57	0.50	ug/L	1.00	03/28/2002 15:20	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Vinyl acetate	ND	25	ug/L	1.00	03/28/2002 15:20	
Vinyl chloride	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Total xylenes	2.5	1.0	ug/L	1.00	03/28/2002 15:20	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	94.0	86-115	%	1.00	03/28/2002 15:20	
1,2-Dichloroethane-d4	101.8	76-114	%	1.00	03/28/2002 15:20	
Toluene-d8	100.7	88-110	%	1.00	03/28/2002 15:20	

Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental  
Attn: Chris Alger

Test Method: 8260B  
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-19-4.0</b>	Lab Sample ID: 2002-03-0540-003
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 15:20
Sampled: 03/26/2002 18:05	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/28/2002 15:20	
Acetone	ND	50	ug/L	1.00	03/28/2002 15:20	
Benzene	12	0.50	ug/L	1.00	03/28/2002 15:20	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Bromobenzene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
Bromochloromethane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
Bromoform	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Bromomethane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/28/2002 15:20	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
sec-Butylbenzene	1.2	1.0	ug/L	1.00	03/28/2002 15:20	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 15:20	
Carbon disulfide	ND	5.0	ug/L	1.00	03/28/2002 15:20	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Chlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Chloroethane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/28/2002 15:20	
Chloroform	ND	1.0	ug/L	1.00	03/28/2002 15:20	
Chloromethane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/28/2002 15:20	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Dibromomethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 15:20	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 15:20	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: <b>MFC-16-4.0</b>	Lab Sample ID: 2002-03-0540-002
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 14:46
Sampled: 03/26/2002 17:50	QC-Batch: 2002/03/28-01.60
Matrix: Air	
Sample/Analysis Flag: Im ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
cis-1,3-Dichloropropene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
trans-1,3-Dichloropropene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Ethylbenzene	7.1	2.5	ug/L	5.00	03/28/2002 14:46	
Hexachlorobutadiene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
2-Hexanone	ND	250	ug/L	5.00	03/28/2002 14:46	
Isopropylbenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
p-Isopropyltoluene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Methylene chloride	ND	25	ug/L	5.00	03/28/2002 14:46	
4-Methyl-2-pentanone (MIBK)	ND	250	ug/L	5.00	03/28/2002 14:46	
Naphthalene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
n-Propylbenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Styrene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,1,1,2-Tetrachloroethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Tetrachloroethene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Toluene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,2,3-Trichlorobenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
1,2,4-Trichlorobenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
1,1,1-Trichloroethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,1,2-Trichloroethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Trichloroethene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Trichlorofluoromethane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Trichlorotrifluoroethane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
1,2,4-Trimethylbenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,3,5-Trimethylbenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Vinyl acetate	ND	130	ug/L	5.00	03/28/2002 14:46	
Vinyl chloride	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Total xylenes	14	5.0	ug/L	5.00	03/28/2002 14:46	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	102.4	86-115	%	5.00	03/28/2002 14:46	
1,2-Dichloroethane-d4	96.1	76-114	%	5.00	03/28/2002 14:46	
Toluene-d8	94.4	88-110	%	5.00	03/28/2002 14:46	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: MFC-16-4.0	Lab Sample ID: 2002-03-0540-002
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 14:46
Sampled: 03/26/2002 17:50	QC-Batch: 2002/03/28-01.60
Matrix: Air	
Sample/Analysis Flag: Im ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	25	ug/L	5.00	03/28/2002 14:46	
Acetone	ND	250	ug/L	5.00	03/28/2002 14:46	
Benzene	170	2.5	ug/L	5.00	03/28/2002 14:46	
Bromodichloromethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Bromobenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Bromochloromethane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Bromoform	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Bromomethane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
2-Butanone(MEK)	ND	250	ug/L	5.00	03/28/2002 14:46	
n-Butylbenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
sec-Butylbenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
tert-Butylbenzene	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Carbon disulfide	ND	25	ug/L	5.00	03/28/2002 14:46	
Carbon tetrachloride	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Chlorobenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Chloroethane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
2-Chloroethylvinyl ether	ND	25	ug/L	5.00	03/28/2002 14:46	
Chloroform	ND	5.0	ug/L	5.00	03/28/2002 14:46	
Chloromethane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
2-Chlorotoluene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
4-Chlorotoluene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Dibromochloromethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,2-Dichlorobenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,3-Dichlorobenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,4-Dichlorobenzene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,3-Dichloropropane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
2,2-Dichloropropane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,1-Dichloropropene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	5.00	03/28/2002 14:46	
1,2-Dibromoethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Dibromomethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
Dichlorodifluoromethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,1-Dichloroethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,2-Dichloroethane	ND	2.5	ug/L	5.00	03/28/2002 14:46	
1,1-Dichloroethene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
cis-1,2-Dichloroethene	ND	2.5	ug/L	5.00	03/28/2002 14:46	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5.00	03/28/2002 14:46	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Test Method: 8260B

Attn: Chris Alger

Prep Method: 5030B

 STL San Francisco  
 1220 Quarry Lane  
 Pleasanton, CA 94566

Sample ID: <b>MFC-17-4.0</b>	Lab Sample ID: 2002-03-0540-001
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 14:12
Sampled: 03/26/2002 17:35	QC-Batch: 2002/03/28-01.60
Matrix: Air	

 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
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Ethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
2-Hexanone	ND	50	ug/L	1.00	03/28/2002 14:12	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Methylene chloride	ND	5.0	ug/L	1.00	03/28/2002 14:12	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/28/2002 14:12	
Naphthalene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Styrene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Toluene	0.54	0.50	ug/L	1.00	03/28/2002 14:12	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Trichloroethene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Trichlorotrifluoroethane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
1,2,4-Trimethylbenzene	0.56	0.50	ug/L	1.00	03/28/2002 14:12	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Vinyl acetate	ND	25	ug/L	1.00	03/28/2002 14:12	
Vinyl chloride	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Total xylenes	1.2	1.0	ug/L	1.00	03/28/2002 14:12	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	100.6	86-115	%	1.00	03/28/2002 14:12	
1,2-Dichloroethane-d4	103.8	76-114	%	1.00	03/28/2002 14:12	
Toluene-d8	96.0	88-110	%	1.00	03/28/2002 14:12	

## Volatile Organic Compounds by 8260B (Low Level)

Iris Environmental

Attn: Chris Alger

Test Method: 8260B

Prep Method: 5030B

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566Tel 925 484 1919  
Fax 925 484 1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#1094

Sample ID: MFC-17-4.0	Lab Sample ID: 2002-03-0540-001
Project: 01-201-A Port of Oakland	Received: 03/27/2002 16:00
Site: Port of Oakland	Extracted: 03/28/2002 14:12
Sampled: 03/26/2002 17:35	QC-Batch: 2002/03/28-01.60
Matrix: Air	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/28/2002 14:12	
Acetone	ND	50	ug/L	1.00	03/28/2002 14:12	
Benzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Bromobenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Bromochloromethane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Bromoform	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Bromomethane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/28/2002 14:12	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Carbon disulfide	ND	5.0	ug/L	1.00	03/28/2002 14:12	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Chlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Chloroethane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/28/2002 14:12	
Chloroform	ND	1.0	ug/L	1.00	03/28/2002 14:12	
Chloromethane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/28/2002 14:12	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Dibromomethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/28/2002 14:12	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/28/2002 14:12	

Submission #: 2002-03-0540

Volatile Organic Compounds by 8260B (Low Level)

SEVERN

TRENT

SERVICES

Iris Environmental

✉ 1615 Broadway, Suite 1003  
Oakland, CA 94612

Attn: Chris Alger

Phone: (510) 834-4747 Fax: (510) 834-4199

01-201-A

Project: Port of Oakland

Site Port of Oakland

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 #
MFC-17-4.0	Air	03/26/2002 17:35	1
MFC-16-4.0	Air	03/26/2002 17:50	2
MFC-19-4.0	Air	03/26/2002 18:05	3
MFC-18-4.0	Air	03/26/2002 18:20	4
MFC-15-4.0	Air	03/26/2002 18:30	5



Submission #: 2002-03-0540

Date: April 8, 2002

SEVERN

TRENT

SERVICES

**Iris Environmental**

1615 Broadway, Suite 1003  
Oakland, CA 94612

Attn: Chris Alger

Project: 01-201-A  
Port of Oakland

Site: Port of Oakland

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 27, 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  
May 11, 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: [tgranicher@chromalab.com](mailto:tgranicher@chromalab.com)

Sincerely,



Tod Granicher  
Project Manager

2002-03-0553

65523 1420

**I** IRIS ENVIRONMENTAL

1615 Broadway, Suite 1003  
Oakland, CA 94612  
(510) 834-4747  
(510) 834-4199 (fax)

CHAIN-OF-CUSTODY

Date: 03/27/02 Page 6 of 6

Samplers (signature):

*SG*

Analyses Required

Sample ID	Date	Time	Matrix	Preserv.	VOCs B260	TPH GAS	* FIXED GASES	METHANE												Number of Containers
MFC-5-4.0	03/27	16 <sup>50</sup>	SOIL GAS	-30 -6	X	X	X	X												2
MFC-7-4.0		16 <sup>10</sup>		-30 -4.1	X	X	X	X												2
MFC-10-4.0		16 <sup>15</sup>		-30 -8.5	X	X	X	X												2
MFC-3-4.0		15 <sup>58</sup>		-30 -8.5	X	X	X	X												2
MFC-1-4.0		15 <sup>43</sup>		-30 -12.3	X	X	X	X												2
MFC-13-4.0		15 <sup>30</sup>		-29 -9.5	X	X	X	X												2
MFC-15-4.0		15 <sup>08</sup>		-28 -10	X	X	X	X												2
MFC-14-4.0		15 <sup>17</sup>		-29 -6	X	X	X	X												2
																				2

Project Information  
Project Name: 7th St.  
Project Number: 01-201-A  
Contact: Chris Alger  
E-mail: @irisenv.com

Sample Receipt  
# of Containers: \_\_\_\_\_  
Head space: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Conforms to Record: \_\_\_\_\_

Relinquished By:  
GCs 17<sup>10</sup>  
(Signature): EMILY COLEMAN  
(Name): IRIS ENVIRONMENTAL  
(Company): \_\_\_\_\_

Received By:  
Robert S Atkin  
(Signature): Robert S. Atkin  
(Name): \_\_\_\_\_  
(Company): World-C.

Report: Routing Level 2 Level 3 Level 4 Electronic  
TAT 5-Day 24 48 72 Other: 7-DAY

Special Instructions/Comments:  
\* FIXED GASES = O<sub>2</sub>, CO, CO<sub>2</sub>, N + METHANE BY METHOD D1946

Relinquished By:  
Robert S. Atkin  
(Signature): Robert S. Atkin  
(Name): World-C.  
(Company): 18.20

Received By:  
D. Harrington  
(Signature): D. Harrington 1820  
(Name): STL-SF 3/27/02  
(Company): \_\_\_\_\_

# 2002-03-0553

65523 1419

<b>I</b> IRIS ENVIRONMENTAL 1615 Broadway, Suite 1003 Oakland, CA 94612 (510) 834-4747 (510) 834-4199 (fax)		<b>CHAIN-OF-CUSTODY</b>										Date <u>03/27/02</u> Page <u>5</u> of <u>6</u>					
		<b>Analyses Required</b>															
Samplers (signature): <u>GC</u>		VOCs	SVCs	POLYCYCLIC AROMATICS CML17	TPHs BOST BLACK BOD20	TEPH *E015	ORGANIC LEAD							Number of Containers			
<b>Sample ID</b>	<b>Date</b>	<b>Time</b>	<b>Matrix</b>	<b>Preserv.</b>													
MFC-13-3.0-3.5	03/27	817	S	—	X	X	X	X	X					1			
MFC-13-1.5-2.0		815	S	—	X	X	X	X	X					1			
<b>Project Information</b>		<b>Sample Receipt</b>			<b>Relinquished By:</b>				<b>Received By:</b>								
Project Name: <u>Amst.</u>		# of Containers			<u>GC</u> (710) (Signature): <u>EMILY CORSON</u> (Name): <u>IRIS Environmental</u> (Company):				<u>R. Oski</u> (Signature): <u>Robert Atk's</u> (Name): <u>World</u> (Company):								
Project Number: <u>01-201-A</u>		Head space															
Contact: <u>Chris Atk's</u>		Temperature															
E-mail: <u>@irisenv.com</u>		Conforms to Record															
Report: <u>Routine</u> Level 2 Level 3 Level 4 Electronic																	
TAT: <u>5-Day</u>		24		48		72		Other: <u>7-DAY</u>									
Special Instructions/Comments:  <u>* TEPH = d/mo/jet-A/k w/ si gel clean-up.</u>					<b>Relinquished By:</b>				<b>Received By:</b>								
					<u>Robert S. Atk's</u> (Signature): <u>Robert S. Atk's</u> (Name): <u>World. C.</u> (Company): <u>18:20</u>				<u>N. Harrington</u> (Signature): <u>D. Harrington 1820</u> (Name): <u>STL-SE 3/27/02</u> (Company):								

# 2002-03-0553

65523 1450

<b>IRIS ENVIRONMENTAL</b> 1615 Broadway, Suite 1003 Oakland, CA 94612 (510) 834-4747 (510) 834-4199 (fax)		<b>CHAIN-OF-CUSTODY</b>										Date: 03/27/02 Page 4 of 6		
		<b>Analyses Required</b>												
Samplers (signature): <div style="font-size: 2em; font-family: cursive;">SL</div>		NOCS B160	SNOCS B27D	TOTAL METALS CAMEL 17	TPH COIS/ BTEX	TEPH *BOS	Organic Lead							Number of Containers
Sample ID	Date	Time	Matrix	Preserv.										
MFC-1-1.0-1.5	03/27	10 <sup>40</sup>	S	-										1
MFC-1-2.0-2.5		10 <sup>42</sup>			Composite									1
MFC-1-4.0-4.5		10 <sup>46</sup>			Composite									1
TB032702A		8 <sup>40</sup>	ADP	HCC										3
MFC-17-GW		17 <sup>00</sup>												7
MFC-4-8.5-9.0	03/26	17 <sup>08</sup>	S	-	Composite									1
MFC-4-11.0-11.5		17 <sup>20</sup>	S	-	Composite									1
MFC-4-5.0-5.5		17 <sup>08</sup>	S	-	Composite									1
MFC-12-4.0-4.5		09 <sup>13</sup>			Comp.									1
MFC-12-1.5-2.0		09 <sup>09</sup>	S		Comp.									1
<b>Project Information</b>		<b>Sample Receipt</b>			<b>Relinquished By:</b>				<b>Received By:</b>					
Project Name: <u>RTM ST.</u>		# of Containers			<div style="font-size: 2em; font-family: cursive;">SL</div> 17 <sup>10</sup> (Signature) <u>EMILY CORWIN</u> (Name) <u>IRIS ENVIRONMENTAL</u> (Company) <u>IRIS ENVIRONMENTAL</u>				Robert S. Atkins (Signature) <u>Robert S. Atkins</u> (Name) <u>World</u> (Company) <u>World</u>					
Project Number: <u>01-201-A</u>		Head space												
Contact: <u>CHNS Alger</u>		Temperature												
E-mail: <u>@irisenv.com</u>		Conforms to Record												
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic														
TAT		5-Day	24	48	72	Other: <u>7-DAY</u>								
Special Instructions/Comments:  <div style="font-size: 1.2em;">* TEPH = d, mo, jet-A, k w/ sigel cleanup</div>					<b>Relinquished By:</b>				<b>Received By:</b>					
					Robert S. Atkins (Signature) <u>Robert S. Atkins</u> (Name) <u>World</u> (Company) <u>World</u>				Denise Harrington (Signature) <u>D. Harrington</u> (Name) <u>STL-ST</u> (Company) <u>3/27/02</u>					

2002-03-0553

65523

1449

**I** IRIS ENVIRONMENTAL  
 1615 Broadway, Suite 1003  
 Oakland, CA 94612  
 (510) 834-4747  
 (510) 834-4199 (fax)

CHAIN-OF-CUSTODY

Date: 03/27/02 Page 3 of 6

Samplers (signature):

SG

Sample ID      Date      Time      Matrix      Preserv.

MFC-3-4.5-5.0	03/27	1335	S	-
MFC-3-7.5-8.0		1340		
MFC-3-1.5-2.0		1320		
MFC-10-5.0-5.5		1425		
MFC-10-1.5-2.0		1415		
MFC-2-4.5-5.0		-	S	
MFC-2-1.5-2.0		1250		
MFC-2-5.5-6.0		1300		
MFC-11-4.0-4.5		1013		
MFC-11-1.5-2.0		1007		

Analyses Required										Number of Containers
VOCs	SVOCs	TOTAL METALS CML17	TEPH * BOIS EPA	TEPH * BOIS	Organic Lead					
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1
X	X	X	X	X						1

Project Information  
 Project Name: 7MST  
 Project Number: DL-201-A  
 Contact: CHRIS ALGER  
 E-mail: @irisenv.com

Sample Receipt  
 # of Containers: \_\_\_\_\_  
 Head space: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Conforms to Record: \_\_\_\_\_

Relinquished By:  
SG  
 (Signature)  
EMILY COEWIN  
 (Name)  
IRIS ENVIRONMENTAL  
 (Company)

Received By:  
Robert S. Atkin  
 (Signature)  
Robert S. Atkin  
 (Name)  
World-C  
 (Company)

Report: Routine Level 2 Level 3 Level 4 Electronic  
 TAT: 5-Day 24 48 72 Other: 7-DAY

Special Instructions/Comments:  
 \* TEPH = d/mo/jet-A/k w/ Si gel clean up

Relinquished By:  
Robert S. Atkin  
 (Signature)  
Robert S. Atkin  
 (Name)  
World  
 (Company)  
18.20

Received By:  
D. Harrington  
 (Signature)  
D. Harrington 1820  
 (Name)  
STL-SF 3/27/02  
 (Company)

# 2002-03-0553

65523 1448

**IRIS ENVIRONMENTAL** **CHAIN-OF-CUSTODY** Date: 03/27/02 Page 2 of 6

1615 Broadway, Suite 1003  
Oakland, CA 94612  
(510) 834-4747  
(510) 834-4199 (fax)

Samplers (signature): SC

Sample ID      Date      Time      Matrix      Preserv.

					Analyses Required												Number of Containers			
					VOCs	SVOCs	TOTAL METALS Cadmium	TPHs B015	PTX B020	TEPH* B015	Organic Lead									
MFC-24-4.0-4.5	03/27	8 <sup>20</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-24-1.5-2.0		7 <sup>50</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-30-1.5-2.0		10 <sup>00</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-27-1.5-2.0		8 <sup>45</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-27-4.5-5.0		8 <sup>50</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-28-5.0-5.5		9 <sup>25</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-28-1.0-1.5		9 <sup>15</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-20-4.0-4.5		13 <sup>25</sup>	S	-	X	(Composite)	X	X	X	X										1
MFC-20-7.0-7.5		14 <sup>10</sup>	S	-	X	(Composite)	X	X	X	X										1
TB032702B		16 <sup>00</sup>	MCCW	HQ	X		X	X	X	X										3

**Project Information**  
Project Name: Inst.  
Project Number: 01-201-A  
Contact: Chris Alge  
E-mail: @irisenv.com

**Sample Receipt**  
# of Containers: \_\_\_\_\_  
Head space: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Conforms to Record: \_\_\_\_\_

**Relinquished By:**  
SC  
(Signature): \_\_\_\_\_  
EMILY COLEMAN  
(Name): \_\_\_\_\_  
IRIS ENVIRONMENTAL  
(Company): \_\_\_\_\_

**Received By:**  
Robert S. Atkins  
(Signature): \_\_\_\_\_  
Robert L. Clark  
(Name): \_\_\_\_\_  
World C.  
(Company): \_\_\_\_\_

Report: Routine Level 2 Level 3 Level 4 Electronic  
TAT: 5-Day 24 48 72 Other: 7-DAY

**Special Instructions/Comments:**  
  
\*TEPH = mo/d/jet-A/k of Sigel clean-up.

**Relinquished By:**  
Robert S. Atkins  
(Signature): \_\_\_\_\_  
Robert L. Clark  
(Name): \_\_\_\_\_  
World C.  
(Company): \_\_\_\_\_  
1820

**Received By:**  
D. Harrington  
(Signature): \_\_\_\_\_  
D. Harrington 1820  
(Name): \_\_\_\_\_  
STL-SF 3/27/02  
(Company): \_\_\_\_\_

# 2002-03-0553

65523 1447

## IRIS ENVIRONMENTAL

1615 Broadway, Suite 1003  
Oakland, CA 94612  
(510) 834-4747  
(510) 834-4199 (fax)

## CHAIN-OF-CUSTODY

Date: 03/27/02 Page 1 of 6

Samplers (signature):

SL

Sample ID      Date      Time      Matrix      Preserv.

					Analyses Required										Number of Containers			
					VOCs	SVOCs	TOTAL METALS CML17	TPHs BTEX BOD5	TPH* BOD5	organic lead.								
# MFC-9-6W	03/27	10 <sup>30</sup>	AQ	—		X			X	X								3
<del>MFC-4-6W</del>		9 <sup>30</sup>	<del>VARIOUS</del>															EC
MFC-8-6W		10 <sup>00</sup>							X									1
MFC-5-6W					X				X	X								7
MFC-6-6W						X			X	X	X							3
MFC-26-15-2.0		15 <sup>15</sup>	S	—			X	X	X	X								1
MFC-26-5.0-5.5		15 <sup>25</sup>	S	—	X		X	X	X	X								1
MFC-26-75-8.0		15 <sup>35</sup>	S	—	X		X	X	X	X								1
MFC-46-7.0-7.5		11 <sup>45</sup>	S	—	X		X	X	X	X								1
MFC-46-4.0-4.5		11 <sup>30</sup>	S	—	X		X	X	X	X								1

**Project Information**  
 Project Name: PORT OF OAKLAND ST.  
 Project Number: 01-201-A  
 Contact: Chris Angel  
 E-mail: @irisenv.com

**Sample Receipt**  
 # of Containers: \_\_\_\_\_  
 Head space: \_\_\_\_\_  
 Temperature: 5.4°C  
 Conforms to Record: \_\_\_\_\_

**Relinquished By:**  
SL 1710  
 (Signature)  
Emily Connor  
 (Name)  
IRIS Environmental  
 (Company)

**Received By:**  
Robert S. Atkins  
 (Signature)  
Robert S. Atkins  
 (Name)  
World C  
 (Company)

Report: Routine Level 2 Level 3 Level 4 Electronic  
 TAT: 5-Day 24 48 72 Other: 7-DAY

**Special Instructions/Comments:**  
 For ~~MFC-9-6W~~ TEPH = m/jet-A/k w/ silica gel clean-up  
 AND MFC-8-6W, MFC-6-6W  
 FOR ALL ELSE TEPH = d/m/jet-A/k w/ si gel clean-up.

**Relinquished By:**  
Robert Atkins  
 (Signature)  
Robert S. Atkins  
 (Name)  
World C.  
 (Company)

**Received By:**  
D. Harrington  
 (Signature)  
D. Harrington 1820  
 (Name)  
STL-SF 3/27/02  
 (Company)

From:  
**STL San Francisco (CL)**  
 1220 Quarry Lane  
 Pleasanton, CA 94566-4756

To:  
 GeoAnalytical Labs - SUB CONTRACT ONLY  
 1405 Kansas Avenue  
 Modesto, CA 95351

Project Manager: Tod Granicher  
 Phone: (925) 484-1919 Ext:  
 Fax: (925) 484-1096  
 Email: tgranicher@chromalab.com

Phone: (209) 572-0900  
 Fax: (209) 572-0916  
 Contact: Donna Keller  
 Phone: (209) 572-0900

CL Submission #: **2002-03-0553**  
 CL PO #:

Project #: 01-201-A  
 Project Name: Port of Oakland 7th St.

Client Sample ID	CL#	Sampled	Matrix	Due
Analysis			Method	
MFC-9-GW	001	03/27/2002	Water	<del>N303304</del>
Subcontract - Organic Lead			LUFT	04/08/2002 17:00
MFC-6-GW	004	03/27/2002	Water	<del>N303305</del>
Subcontract - Organic Lead			LUFT	04/08/2002 17:00

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

*Standard 5-day*

RELINQUISHED BY: 1. <i>D Harrington</i> Signature Time D Harrington 1315 Printed Name Date STL-SF 3/28/02 Company	RELINQUISHED BY: 2. <i>R Renedo</i> Signature Time R Renedo 3-28-02 Printed Name Date GEO Company	RELINQUISHED BY: 3. Signature Time Printed Name Date Company
RECEIVED BY: 1. <i>R Renedo</i> Signature Time R Renedo 3-28-02 Printed Name Date GEO Company	RECEIVED BY: 2. <i>Lidia Padilla</i> Signature Time Lidia Padilla 3-28-02 Printed Name Date GEO Company	RECEIVED BY: 3. Signature Time Printed Name Date Company



# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report# N087-36

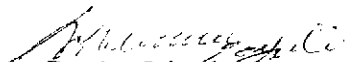
## QC REPORT

STL San Francisco  
1220 Quarry Lane  
Pleasanton

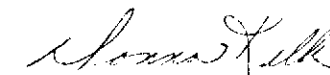
CA 94566-4756

Analyte	Method	Batch #	Dates Analyzed	Orig.	Dupl.	MS %Rec	MSD %Rec	RPD	LCS %Rec	Blank	Comments
Organic Lead	I.UFT	102489	4/04/02			106.0	107.0 *			ND	Not enough sample for MS/MSD

\* LCS/LCSD (see comments)

  
Ramiro Salgado  
Chemist

Certification # 1157

  
Donna Keller  
Laboratory Director

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

## CERTIFICATE OF ANALYSIS

Report # N087-36

Date: 4/04/02

STL San Francisco  
1220 Quarry Lane  
Pleasanton

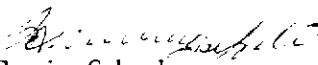
Project: 2002-03-0553

Date Rec'd: 3/28/02  
Date Started: 4/04/02  
Date Completed: 4/04/02

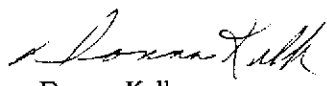
CA 94566-4756 PO#

Date Sampled: 3/27/02  
Time:  
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MFC-9-GW	N303304	0.1	LUFT	Organic Lead	ND	mg/L
MFC-6-GW	N303305	0.1	LUFT	Organic Lead	ND	mg/L

  
Ramiro Salgado  
Chemist

Certification # 1157

  
Donna Keller  
Laboratory Director

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E2D010144      Work Order #...: EXKCF1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D080000-521      EXKCF1AD-LCSD  
 Prep Date.....: 04/08/02      Analysis Date...: 04/08/02  
 Prep Batch #...: 2098521      Analysis Time...: 10:25  
 Dilution Factor: 1      Instrument ID..: GC6  
 Analyst ID.....: 358011

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
TPH (as Gasoline)	10.0	11.3	ppm (v/v)	113		EPA-19 TO-3
	10.0	11.0	ppm (v/v)	110	2.7	EPA-19 TO-3

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2D010144      Work Order #...: EXKCF1AC-LCS      Matrix.....: AIR  
LCS Lot-Sample#: M2D080000-521      EXKCF1AD-LCSD  
Prep Date.....: 04/08/02      Analysis Date...: 04/08/02  
Prep Batch #...: 2098521      Analysis Time...: 10:25  
Dilution Factor: 1      Instrument ID...: GC6  
Analyst ID.....: 358011

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
TPH (as Gasoline)	113	(85 - 125)			EPA-19 TO-3
	110	(85 - 125)	2.7	(0-20)	EPA-19 TO-3

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000041

**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC Volatiles**

Client Lot #...: E2D010144      Work Order #...: EXP8F1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D050000-288      EXP8F1AD-LCSD  
 Prep Date.....: 04/05/02      Analysis Date...: 04/05/02  
 Prep Batch #...: 2095288      Analysis Time...: 07:21  
 Dilution Factor: 1      Instrument ID...: GC1  
 Analyst ID.....: 101605

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Carbon dioxide	1.00	1.06	% (v/v)	106	0.58	ASTM D1946
	1.00	1.07	% (v/v)	107		ASTM D1946
Methane	0.0500	0.0547	% (v/v)	109	0.13	ASTM D1946
	0.0500	0.0546	% (v/v)	109		ASTM D1946

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC Volatiles**

Client Lot #...: E2D010144      Work Order #...: EXP8F1AC-LCS      Matrix.....: AIR  
 LCS Lot-Sample#: M2D050000-288      EXP8F1AD-LCSD  
 Prep Date.....: 04/05/02      Analysis Date...: 04/05/02  
 Prep Batch #...: 2095288      Analysis Time...: 07:21  
 Dilution Factor: 1      Instrument ID...: GC1  
 Analyst ID.....: 101605

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
<b>Carbon dioxide</b>	106	(75 - 125)			<b>ASTM D1946</b>
	107	(75 - 125)	0.58	(0-20)	<b>ASTM D1946</b>
<b>Methane</b>	109	(60 - 120)			<b>ASTM D1946</b>
	109	(60 - 120)	0.13	(0-20)	<b>ASTM D1946</b>

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2D010144      Work Order #...: EXKCF1AA      Matrix.....: AIR  
MB Lot-Sample #: M2D080000-521  
Analysis Date...: 04/08/02      Prep Date.....: 04/08/02      Analysis Time...: 11:15  
Dilution Factor: 1      Prep Batch #...: 2098521      Instrument ID...: GC6  
Analyst ID.....: 358011

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
TPH (as Gasoline)	ND	1.0	ppm (v/v)	EPA-19 TO-3

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000038

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2D010144      Work Order #...: EXP8F1AA      Matrix.....: AIR  
MB Lot-Sample #: M2D050000-288  
Prep Date.....: 04/05/02      Analysis Time...: 08:02  
Analysis Date...: 04/05/02      Prep Batch #...: 2095288      Instrument ID...: GC1  
Dilution Factor: 1  
Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	% (v/v)	ASTM D1946
Oxygen	ND	0.10	% (v/v)	ASTM D1946
Nitrogen	ND	1.0	% (v/v)	ASTM D1946
Methane	ND	0.00020	% (v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	% (v/v)	ASTM D1946

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.



# QC DATA ASSOCIATION SUMMARY

E2D010144

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
002	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
003	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
004	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
005	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
006	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
007	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	
008	AIR	ASTM D1946		2095288	
	AIR	EPA-19 TO-3		2098521	

000036

SEVERN

TRENT

SERVICES

QA/QC

000035

STL SAN FRANCISCO

Client Sample ID: MFC-14-4.0

GC Volatiles

Lot-Sample #...: E2D010144-008    Work Order #...: EW8CL1AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:17    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 15:00  
Dilution Factor: 30.41  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	1000	30		ppm(v/v)

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

000034

STL SAN FRANCISCO

Client Sample ID: MFC-14-4.0

GC Volatiles

Lot-Sample #...: E2D010144-008    Work Order #...: EW8CL1AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:17    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 16:26  
Dilution Factor: 2.12  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Carbon dioxide	10	0.021	% (v/v)
Oxygen	0.91	0.21	% (v/v)
Nitrogen	65	2.1	% (v/v)
Methane	24	0.00043	% (v/v)
Carbon monoxide	ND	0.0021	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-15-4.0

GC Volatiles

Lot-Sample #...: E2D010144-007    Work Order #...: EW8CJ1AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:08    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 14:36  
Dilution Factor: 24.18  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	630	24	ppm (v/v)

NOTE(S) :

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

000032

STL SAN FRANCISCO

Client Sample ID: MFC-15-4.0

GC Volatiles

Lot-Sample #...: E2D010144-007    Work Order #...: EW8CJ1AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:08    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 16:05  
Dilution Factor: 1.69  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	6.0	0.017	% (v/v)
Oxygen	9.4	0.17	% (v/v)
Nitrogen	63	1.7	% (v/v)
Methane	22	0.00034	% (v/v)
Carbon monoxide	ND	0.0017	% (v/v)

000031

STL SAN FRANCISCO

Client Sample ID: MFC-13-4.0

GC Volatiles

Lot-Sample #...: E2D010144-006    Work Order #...: EW8CG1AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:30    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 14:12  
Dilution Factor: 33.72  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	330	34	ppm(v/v)

NOTE(S) :

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

000030

STL SAN FRANCISCO

Client Sample ID: MFC-13-4.0

GC Volatiles

Lot-Sample #...: E2D010144-006    Work Order #...: EW8CG1AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:30    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 15:46  
Dilution Factor: 2.35  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	10	0.024	% (v/v)
Oxygen	1.3	0.24	% (v/v)
Nitrogen	85	2.4	% (v/v)
Methane	6.1	0.00047	% (v/v)
Carbon monoxide	ND	0.0024	% (v/v)

000029



STL SAN FRANCISCO

Client Sample ID: MFC-1-4.0

GC Volatiles

Lot-Sample #...: E2D010144-005    Work Order #...: EW8CF1AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:43    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 13:44  
Dilution Factor: 2.67  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	45	2.7	ppm(v/v)

**NOTE(S):**

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

000028

STL SAN FRANCISCO

Client Sample ID: MFC-1-4.0

GC Volatiles

Lot-Sample #...: E2D010144-005    Work Order #...: EW8CF1AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:43    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 15:26  
Dilution Factor: 2.67  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	8.2	0.027	% (v/v)
Oxygen	2.5	0.27	% (v/v)
Nitrogen	92	2.7	% (v/v)
Methane	0.21	0.00053	% (v/v)
Carbon monoxide	ND	0.0027	% (v/v)

000027

STL SAN FRANCISCO

Client Sample ID: MFC-3-4.0

GC Volatiles

Lot-Sample #...: E2D010144-004    Work Order #...: EW8CE1AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:58    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 13:20  
Dilution Factor: 2.15  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	2.2	ppm (v/v)

000026

STL SAN FRANCISCO

Client Sample ID: MFC-3-4.0

GC Volatiles

Lot-Sample #...: E2D010144-004    Work Order #...: EW8CE1AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 15:58    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 15:08  
Dilution Factor: 2.15  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	8.4	0.022	% (v/v)
Oxygen	4.1	0.22	% (v/v)
Nitrogen	89	2.2	% (v/v)
Methane	0.065	0.00043	% (v/v)
Carbon monoxide	ND	0.0022	% (v/v)

000025

STL SAN FRANCISCO

Client Sample ID: MFC-10-4.0

GC Volatiles

Lot-Sample #...: E2D010144-003    Work Order #...: EW8CC1AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 16:15    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 12:55  
Dilution Factor: 2.2  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	2.2	ppm(v/v)

000024

STL SAN FRANCISCO

Client Sample ID: MFC-10-4.0

GC Volatiles

Lot-Sample #...: E2D010144-003    Work Order #...: EW8CC1AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 16:15    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 14:49  
Dilution Factor: 2.2  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	6.4	0.022	% (v/v)
Oxygen	8.4	0.22	% (v/v)
Nitrogen	88	2.2	% (v/v)
Methane	ND	0.00044	% (v/v)
Carbon monoxide	ND	0.0022	% (v/v)

STL SAN FRANCISCO

Client Sample ID: MFC-7-4.0

GC Volatiles

Lot-Sample #....: E2D010144-002    Work Order #....: EW8CA1AD    Matrix.....: AIR  
Date Sampled....: 03/27/02 16:40    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #....: 2098521    Analysis Time...: 12:08  
Dilution Factor: 1.89  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND		1.9	ppm(v/v)

000022

STL SAN FRANCISCO

Client Sample ID: MFC-7-4.0

GC Volatiles

Lot-Sample #....: E2D010144-002    Work Order #....: EW8CA1AC    Matrix.....: AIR  
Date Sampled....: 03/27/02 16:40    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #....: 2095288    Analysis Time...: 13:49  
Dilution Factor: 1.89  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	7.3	0.019	% (v/v)
Oxygen	11	0.19	% (v/v)
Nitrogen	83	1.9	% (v/v)
Methane	0.00096	0.00038	% (v/v)
Carbon monoxide	ND	0.0019	% (v/v)

000021



STL SAN FRANCISCO

Client Sample ID: MFC-5-4.0

GC Volatiles

Lot-Sample #...: E2D010144-001    Work Order #...: EW8A91AD    Matrix.....: AIR  
Date Sampled...: 03/27/02 16:50    Date Received...: 03/29/02  
Prep Date.....: 04/08/02    Analysis Date...: 04/08/02  
Prep Batch #...: 2098521    Analysis Time...: 11:44  
Dilution Factor: 2.02  
Analyst ID.....: 358011    Instrument ID...: GC6  
Method.....: EPA-19 TO-3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	2.0	ppm(v/v)

000020

STL SAN FRANCISCO

Client Sample ID: MFC-5-4.0

GC Volatiles

Lot-Sample #...: E2D010144-001    Work Order #...: EW8A91AC    Matrix.....: AIR  
Date Sampled...: 03/27/02 16:50    Date Received...: 03/29/02  
Prep Date.....: 04/05/02    Analysis Date...: 04/05/02  
Prep Batch #...: 2095288    Analysis Time...: 14:10  
Dilution Factor: 2.02  
Analyst ID.....: 101605    Instrument ID...: GC1  
Method.....: ASTM D1946

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Carbon dioxide	11	0.020	% (v/v)
Oxygen	6.0	0.20	% (v/v)
Nitrogen	85	2.0	% (v/v)
Methane	0.00070	0.00040	% (v/v)
Carbon monoxide	ND	0.0020	% (v/v)

# SAMPLE SUMMARY

E2D010144

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EW8A9	001	MFC-5-4.0	03/27/02	16:50
EW8CA	002	MFC-7-4.0	03/27/02	16:40
EW8CC	003	MFC-10-4.0	03/27/02	16:15
EW8CE	004	MFC-3-4.0	03/27/02	15:58
EW8CF	005	MFC-1-4.0	03/27/02	15:43
EW8CG	006	MFC-13-4.0	03/27/02	15:30
EW8CJ	007	MFC-15-4.0	03/27/02	15:08
EW8CL	008	MFC-14-4.0	03/27/02	15:17

## NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000018

# ANALYTICAL METHODS SUMMARY

E2D010144

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Fixed Gases	ASTM D1946
TPH by TO-3	EPA-19 TO-3

## References:

- ASTM      Annual Book Of ASTM Standards.
- EPA-19    "Compendium of Methods for the Determination of Toxic  
Organic Compounds in Ambient Air", EPA/600/4-89/017,  
January 1988

000017

# EXECUTIVE SUMMARY - Detection Highlights

E2D010144

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>MFC-15-4.0 03/27/02 15:08 007</b>				
Carbon dioxide	6.0	0.017	% (v/v)	ASTM D1946
Oxygen	9.4	0.17	% (v/v)	ASTM D1946
Nitrogen	63	1.7	% (v/v)	ASTM D1946
Methane	22	0.00034	% (v/v)	ASTM D1946
TPH (as Gasoline)	630	24	ppm (v/v)	EPA-19 TO-3
<b>MFC-14-4.0 03/27/02 15:17 008</b>				
Carbon dioxide	10	0.021	% (v/v)	ASTM D1946
Oxygen	0.91	0.21	% (v/v)	ASTM D1946
Nitrogen	65	2.1	% (v/v)	ASTM D1946
Methane	24	0.00043	% (v/v)	ASTM D1946
TPH (as Gasoline)	1000	30	ppm (v/v)	EPA-19 TO-3

000016

## EXECUTIVE SUMMARY - Detection Highlights

E2D010144

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>MFC-5-4.0 03/27/02 16:50 001</b>				
Carbon dioxide	11	0.020	% (v/v)	ASTM D1946
Oxygen	6.0	0.20	% (v/v)	ASTM D1946
Nitrogen	85	2.0	% (v/v)	ASTM D1946
Methane	0.00070	0.00040	% (v/v)	ASTM D1946
<b>MFC-7-4.0 03/27/02 16:40 002</b>				
Carbon dioxide	7.3	0.019	% (v/v)	ASTM D1946
Oxygen	11	0.19	% (v/v)	ASTM D1946
Nitrogen	83	1.9	% (v/v)	ASTM D1946
Methane	0.00096	0.00038	% (v/v)	ASTM D1946
<b>MFC-10-4.0 03/27/02 16:15 003</b>				
Carbon dioxide	6.4	0.022	% (v/v)	ASTM D1946
Oxygen	8.4	0.22	% (v/v)	ASTM D1946
Nitrogen	88	2.2	% (v/v)	ASTM D1946
<b>MFC-3-4.0 03/27/02 15:58 004</b>				
Carbon dioxide	8.4	0.022	% (v/v)	ASTM D1946
Oxygen	4.1	0.22	% (v/v)	ASTM D1946
Nitrogen	89	2.2	% (v/v)	ASTM D1946
Methane	0.065	0.00043	% (v/v)	ASTM D1946
<b>MFC-1-4.0 03/27/02 15:43 005</b>				
Carbon dioxide	8.2	0.027	% (v/v)	ASTM D1946
Oxygen	2.5	0.27	% (v/v)	ASTM D1946
Nitrogen	92	2.7	% (v/v)	ASTM D1946
Methane	0.21	0.00053	% (v/v)	ASTM D1946
TPH (as Gasoline)	45	2.7	ppm(v/v)	EPA-19 TO-3
<b>MFC-13-4.0 03/27/02 15:30 006</b>				
Carbon dioxide	10	0.024	% (v/v)	ASTM D1946
Oxygen	1.3	0.24	% (v/v)	ASTM D1946
Nitrogen	85	2.4	% (v/v)	ASTM D1946
Methane	6.1	0.00047	% (v/v)	ASTM D1946
TPH (as Gasoline)	330	34	ppm(v/v)	EPA-19 TO-3

(Continued on next page)

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# **ANALYTICAL REPORT**

PROJECT NO. 01-201-A

Port of Oakland 7th St.

Lot #: E2D010144

Tod Granicher

STL San Francisco

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara  
Project Manager

April 9, 2002

**000014**

SEVERN

TRENT

SERVICES

# Analytical Report

000013



8

**SEVERN  
TRENT  
SERVICES**

**CANISTER FIELD DATA RECORD**

CLIENT: STL S/F  
CANISTER SERIAL #: 11346  
DATE CLEANED: 03-12-02 C  
CLIENT SAMPLE #: \_\_\_\_\_  
SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
Duration of comp. : \_\_\_\_\_ hrs. / mins.  
Flow setting: \_\_\_\_\_ ml/min  
Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	OK.
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)	11.60	4-4-02	KA	
FINAL PRESSURE (PSIA)	24.67	↓	↓	

Pressurization Gas: N<sub>2</sub>

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

000012

7

**SEVERN  
TRENT  
SERVICES**

**CANISTER FIELD DATA RECORD**

CLIENT: STL S/F  
CANISTER SERIAL #: 12211  
DATE CLEANED: 03-12-02 C  
CLIENT SAMPLE #: \_\_\_\_\_  
SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
Duration of comp. : \_\_\_\_\_ hrs. / mins.  
Flow setting: \_\_\_\_\_ ml/min  
Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	DK
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

**LABORATORY CANISTER PRESSURIZATION**

INITIAL VACUUM (inches Hg and PSIA)	14.57	4-4-02	KA
FINAL PRESSURE (PSIA)	24.64	↓	↓

Pressurization Gas: N<sub>2</sub>

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

4

**CANISTER FIELD DATA RECORD**

CLIENT: STL S/F  
 CANISTER SERIAL #: 03855  
 DATE CLEANED: 03-12-02 C  
 CLIENT SAMPLE #: \_\_\_\_\_  
 SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
 Duration of comp. : \_\_\_\_\_ hrs. / mins.  
 Flow setting: \_\_\_\_\_ ml/min  
 Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	DK
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)	10.56	4-4-02	AA	
FINAL PRESSURE (PSIA)	24.90	J	AA	

Pressurization Gas: lv

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

**000010**

5

**SEVERN  
TRENT  
SERVICES**

**CANISTER FIELD DATA RECORD**

CLIENT: STL S/F  
CANISTER SERIAL #: 12766  
DATE CLEANED: 03-12-02 C  
CLIENT SAMPLE #: \_\_\_\_\_  
SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
Duration of comp. : \_\_\_\_\_ hrs. / mins.  
Flow setting: \_\_\_\_\_ ml/min  
Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	AK
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)		8.82	04-04-02	AK
FINAL PRESSURE (PSIA)		<del>24.58</del>	↓	↓

Pressurization Gas: N<sub>2</sub>      23.58

COMMENTS: \_\_\_\_\_

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

000009

4

**CANISTER FIELD DATA RECORD**

CLIENT: STL S/F  
 CANISTER SERIAL #: 04163  
 DATE CLEANED: 03-12-02 C  
 CLIENT SAMPLE #: \_\_\_\_\_  
 SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
 Duration of comp. : \_\_\_\_\_ hrs. / mins.  
 Flow setting: \_\_\_\_\_ ml/min  
 Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	DK
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)	11.43	64-04-02	AA	
FINAL PRESSURE (PSIA)	24.58	↓	↓	

Pressurization Gas: N<sub>2</sub>

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

000008

3

**SEVERN  
TRENT  
SERVICES**

**CANISTER FIELD DATA RECORD**

CLIENT: STL S/F  
CANISTER SERIAL #: 11368  
DATE CLEANED: 03-12-02  
CLIENT SAMPLE #: \_\_\_\_\_  
SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
Duration of comp. : \_\_\_\_\_ hrs. / mins.  
Flow setting: \_\_\_\_\_ ml/min  
Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	AK
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)	11.11	04-04-02	AA	
FINAL PRESSURE (PSIA)	24.48	6	↓	

Pressurization Gas: N<sub>2</sub>

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

000007



### CANISTER FIELD DATA RECORD

CLIENT: STL S/P  
 CANISTER SERIAL #: 12535  
 DATE CLEANED: 03-12-02 C  
 CLIENT SAMPLE #: \_\_\_\_\_  
 SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
 Duration of comp. : \_\_\_\_\_ hrs. / mins.  
 Flow setting: \_\_\_\_\_ ml/min  
 Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	DK
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)	12.86	04-04-02	AA	
FINAL PRESSURE (PSIA)	24.41	↓	↓	

Pressurization Gas: N<sub>2</sub>

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

**SEVERN  
TRENT  
SERVICES**

**CANISTER FIELD DATA RECORD**

1

CLIENT: STL S/F  
 CANISTER SERIAL #: 12325  
 DATE CLEANED: 03-12-02 C  
 CLIENT SAMPLE #: \_\_\_\_\_  
 SITE LOCATION: \_\_\_\_\_

VFR ID: \_\_\_\_\_  
 Duration of comp.: \_\_\_\_\_ hrs. / mins.  
 Flow setting: \_\_\_\_\_ ml/min  
 Initials: \_\_\_\_\_

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3-15-02	DIV.
INITIAL FIELD VACUUM				
FINAL FIELD READING				
GAUGE READING UPON RECEIPT				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (inches Hg and PSIA)	12.02	64-04-02	AA	
FINAL PRESSURE (PSIA)	24.30	↓	AA	

Pressurization Gas: N<sub>2</sub>

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

000005



From:  
**STL San Francisco (CL)**  
 1220 Quarry Lane  
 Pleasanton, CA 94566-4756

To: **E2D010144**  
 STL Los Angeles - Sub contract  
 1721 South Grand Avenue  
 Santa Ana, CA 92705

Project Manager: Tod Granicher  
 Phone: (925) 484-1919 Ext:  
 Fax: (925) 484-1096  
 Email: tgranicher@chromalab.com

Phone: (714) 258-8610  
 Fax: (714) 258-0921  
 Contact:  
 Phone: (714) 258-8610

CL Submission #: **2002-03-0553**  
 CL PO #:

Project #: 01-201-A  
 Project Name: Port of Oakland 7th St.

Client Sample ID	CL#	Sampled	Matrix	Due
Analysis			Method	
MFC-14-4.0	(1) 049	03/27/2002 15:17	Air	
Subcontract - CH4, O2, N2, CO, CO2 in air			D1946	04/08/2002 17:00

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

\* discrepancy between our client's hand written Sample ID & COC - use ID from COC

RELINQUISHED BY: 1. <i>C Rowley</i> 1450 Signature Time ROWLEY 03/28/02 Printed Name Date STL Company	RELINQUISHED BY: 2. Signature Time Printed Name Date Company	RELINQUISHED BY: 3. Signature Time Printed Name Date Company
RECEIVED BY: 1. <i>K. F. B. TAG</i> 1030 Signature Time K. F. B. TAG 3/28/02 Printed Name Date STL L.A. Company	RECEIVED BY: 2. Signature Time Printed Name Date Company	RECEIVED BY: 3. Signature Time Printed Name Date Company

From: **STL San Francisco (CL)**  
 1220 Quarry Lane  
 Pleasanton, CA 94566-4756

To: **E2D010144**  
 STL Los Angeles - Sub contract  
 1721 South Grand Avenue  
 Santa Ana, CA 92705

Project Manager: **Tod Granicher**  
 Phone: (925) 484-1919 Ext:  
 Fax: (925) 484-1096  
 Email: tgranicher@chromalab.com

Phone: (714) 258-8610  
 Fax: (714) 258-0921  
 Contact:  
 Phone: (714) 258-8610

CL Submission #: **2002-03-0553**  
 CL PO #:

Project #: 01-201-A  
 Project Name: Port of Oakland 7th St.

Client Sample ID	CL#	Sampled	Matrix	Analysis	Method	Due
* MFC-5-4.0	(1) 042	03/27/2002 16:50	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00
* MFC-7-4.0	(1) 043	03/27/2002 16:40	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00
MFC-10-4.0	(1) 044	03/27/2002 16:15	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00
MFC-3-4.0	(1) 045	03/27/2002 15:58	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00
MFC-1-4.0	(1) 046	03/27/2002 15:43	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00
MFC-13-4.0	(1) 047	03/27/2002 15:30	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00
MFC-15-4.0	(1) 048	03/27/2002 15:08	Air	Subcontract - CH4, O2, N2, CO, CO2 in air	D1946	04/08/2002 17:00

RELINQUISHED BY: <i>C Rowley</i> 1450 Signature Time Rowley 03/28/02 Printed Name Date STR Company	1.	RELINQUISHED BY: Signature Time Printed Name Date Company	2.	RELINQUISHED BY: Signature Time Printed Name Date Company	3.
RECEIVED BY: <i>[Signature]</i> 1030 Signature Time [Signature] 3/29/02 Printed Name Date STL L.A. Company	1.	RECEIVED BY: Signature Time Printed Name Date Company	2.	RECEIVED BY: Signature Time Printed Name Date Company	3.

000003



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**CASE NARRATIVE**

Samples were analyzed also for TPH as Gasoline (EPA TO-3) which were not listed on the chain of custody, per your request.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

A handwritten signature in black ink, appearing to read "Marisol Tabirara".

Marisol Tabirara  
Project Manager

cc: Project File

**000002**

**SEVERN**

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April 9, 2002

STL LOT NUMBER: **E2D010144**  
PO/CONTRACT: 2002-03-0553

Tod Granicher  
STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Dear Mr. Granicher:

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on March 29, 2002. These samples are associated with your **Port of Oakland 7<sup>th</sup> St.** project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA.

Any matrix related anomaly is footnoted within the report. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent to your attention on April 8, 2002.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains     **000042**     pages.

**000001**



TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

**QC Compound Flags**

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.  
Precision and Accuracy were verified by LCS/LCSD.

**QC Compound Flags**

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

**Analysis Flags**

ri

Reporting limits raised due to reduced sample size.

**Analyte Flags**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Analyte Flags**

sd

Surrogate recovery not reportable due to required dilution.

TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M

Prep Method: 3550/8015M

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/04-02.10</b>
Sample ID: <b>MFC-28-5.0-5.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-015
MS: 2002/04/04-02.10-004	Extracted: 04/04/2002 09:59	Analyzed: 04/05/2002 17:25
		Dilution: 1
MSD: 2002/04/04-02.10-005	Extracted: 04/04/2002 09:59	Analyzed: 04/05/2002 18:02
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Diesel	33.0	37.5	ND	41.6	41.6	79.3	90.1	12.8	60-130	25		
<b>Surrogate(s)</b>												
o-Terphenyl	17.6	17.1		20.0	20.0	87.8	85.6		60-130	0		

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M

Prep Method: 3550/8015M

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/04-05.10</b>
Sample ID: <b>MFC-30-1.5-2.0 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-012
MS: 2002/04/04-05.10-004	Extracted: 04/04/2002 12:41	Analyzed: 04/05/2002 16:39
		Dilution: 5
MSD: 2002/04/04-05.10-005	Extracted: 04/04/2002 12:41	Analyzed: 04/05/2002 17:17
		Dilution: 5

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Diesel	54.1	68.6	44.8	41.6	41.6	22.4	57.2	87.4	60-130	25	mso	mso,r
<b>Surrogate(s)</b>												
o-Terphenyl	NA	NA		20.0	20.0	0.0	0.0		60-130	0	sd	sd

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/04-05.10**  
 LCS: 2002/04/04-05.10-002 Extracted: 04/04/2002 12:41 Analyzed: 04/05/2002 07:27  
 LCSD: 2002/04/04-05.10-003 Extracted: 04/04/2002 12:41 Analyzed: 04/05/2002 08:04

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	29.3	28.7	41.7	41.7	70.3	68.8	2.2	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	17.7	16.9	20.0	20.0	88.6	84.4		60-130	0		



Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

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Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/04-02.10  
 LCS: 2002/04/04-02.10-002 Extracted: 04/04/2002 09:59 Analyzed: 04/05/2002 08:53  
 LCSD: 2002/04/04-02.10-003 Extracted: 04/04/2002 09:59 Analyzed: 04/05/2002 09:33

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	34.3	33.5	41.7	41.7	82.3	80.3	2.5	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	21.5	20.4	20.0	20.0	107.5	102.1		60-130	0		

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015M

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**Laboratory Control Spike (LCS/LCSD)      Water      QC Batch # 2002/04/01-01.10**  
 LCS: 2002/04/01-01.10-002 Extracted: 04/01/2002 05:52 Analyzed: 04/03/2002 07:44  
 LCSD: 2002/04/01-01.10-003 Extracted: 04/01/2002 05:52 Analyzed: 04/03/2002 08:24

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Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	905	839	1250	1250	72.4	67.1	7.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.5	17.8	20.0	20.0	92.5	89.2		60-130	0		



TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015  
M

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<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/04-05.10</b>
MB: 2002/04/04-05.10-001		Date Extracted: 04/04/2002 12:41

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	04/05/2002 06:50	
Motor Oil	ND	50	mg/Kg	04/05/2002 06:50	
Kerosene	ND	1	mg/Kg	04/05/2002 06:50	
Jet A	ND	1	mg/Kg	04/05/2002 06:50	
<b>Surrogate(s)</b> o-Terphenyl	85.5	60-130	%	04/05/2002 06:50	



Submission #: 2002-03-0553

**SEVERN  
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TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: MFC-13-1.5-2.0	Lab Sample ID: 2002-03-0553-041
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/26/2002 08:15	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	5.0	mg/Kg	5.00	04/05/2002 20:31	ndp
Motor Oil	500	250	mg/Kg	5.00	04/05/2002 20:31	
Kerosene	ND	5.0	mg/Kg	5.00	04/05/2002 20:31	
Jet A	ND	5.0	mg/Kg	5.00	04/05/2002 20:31	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	04/05/2002 20:31	sd

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-13-3.0-3.5</b>	Lab Sample ID: 2002-03-0553-040
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 08:17	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 12:13	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 12:13	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 12:13	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 12:13	
<b>Surrogate(s)</b>						
o-Terphenyl	84.8	60-130	%	1.00	04/05/2002 12:13	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-12-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-039
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/26/2002 09:09	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	21	1.0	mg/Kg	1.00	04/05/2002 14:13	ndp
Motor Oil	77	50	mg/Kg	1.00	04/05/2002 14:13	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 14:13	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 14:13	
<b>Surrogate(s)</b>						
o-Terphenyl	83.3	60-130	%	1.00	04/05/2002 14:13	



Submission #: 2002-03-0553

**SEVERN**  
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TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-12-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-038
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/26/2002 09:13	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.0	1.0	mg/Kg	1.00	04/05/2002 11:33	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 11:33	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 11:33	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 11:33	
<b>Surrogate(s)</b>						
o-Terphenyl	71.4	60-130	%	1.00	04/05/2002 11:33	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Pleasanton, CA 94566

Sample ID: <b>MFC-4-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-037
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/26/2002 17:05	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	320	1.0	mg/Kg	1.00	04/05/2002 14:52	ndp
Motor Oil	210	50	mg/Kg	1.00	04/05/2002 14:52	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 14:52	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 14:52	
<b>Surrogate(s)</b>						
o-Terphenyl	103.5	60-130	%	1.00	04/05/2002 14:52	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-4-8.5-9.0</b>	Lab Sample ID: 2002-03-0553-035
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/26/2002 17:08	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 12:13	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 12:13	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 12:13	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 12:13	
<b>Surrogate(s)</b>						
o-Terphenyl	85.6	60-130	%	1.00	04/05/2002 12:13	

TEPH w/ Silica Gel Clean-up

**Iris Environmental**  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-17-GW</b>	Lab Sample ID: 2002-03-0553-034
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/01/2002 05:52
Sampled: 03/27/2002 17:00	QC-Batch: 2002/04/01-01.10
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	6700	50	ug/L	1.00	04/02/2002 20:16	ndp
Motor Oil	530	500	ug/L	1.00	04/02/2002 20:16	
Kerosene	ND	50	ug/L	1.00	04/02/2002 20:16	
Jet A	ND	50	ug/L	1.00	04/02/2002 20:16	
<b>Surrogate(s)</b>						
o-Terphenyl	86.2	60-130	%	1.00	04/02/2002 20:16	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
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Sample ID: <b>MFC-1-2.0-2.5</b>	Lab Sample ID: 2002-03-0553-031
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 10:42	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	31	1.0	mg/Kg	1.00	04/05/2002 13:33	ndp
Motor Oil	130	50	mg/Kg	1.00	04/05/2002 13:33	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 13:33	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 13:33	
<b>Surrogate(s)</b>						
o-Terphenyl	82.9	60-130	%	1.00	04/05/2002 13:33	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-1.0-1.5</b>	Lab Sample ID: 2002-03-0553-030
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 10:40	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	20	mg/Kg	20.00	04/05/2002 21:02	ndp
Motor Oil	1300	1000	mg/Kg	20.00	04/05/2002 21:02	
Kerosene	ND	20	mg/Kg	20.00	04/05/2002 21:02	
Jet A	ND	20	mg/Kg	20.00	04/05/2002 21:02	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	20.00	04/05/2002 21:02	sd

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-11-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-029
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 10:07	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	12	1.0	mg/Kg	1.00	04/05/2002 19:54	ndp
Motor Oil	190	50	mg/Kg	1.00	04/05/2002 19:54	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 19:54	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 19:54	
<b>Surrogate(s)</b>						
o-Terphenyl	85.9	60-130	%	1.00	04/05/2002 19:54	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Sample ID: <b>MFC-11-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-028
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 10:13	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	15	1.0	mg/Kg	1.00	04/05/2002 19:54	ndp
Motor Oil	160	50	mg/Kg	1.00	04/05/2002 19:54	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 19:54	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 19:54	
<b>Surrogate(s)</b>						
o-Terphenyl	96.6	60-130	%	1.00	04/05/2002 19:54	



Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-2-5.5-6.0</b>	Lab Sample ID: 2002-03-0553-027
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 13:00	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 14:55	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 14:55	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 14:55	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 14:55	
<b>Surrogate(s)</b>						
o-Terphenyl	73.3	60-130	%	1.00	04/05/2002 14:55	

Submission #: 2002-03-0553

**SEVERN  
TRENT  
SERVICES**

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-2-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-026
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 12:50	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5.8	1.0	mg/Kg	1.00	04/05/2002 18:39	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 18:39	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 18:39	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 18:39	
<b>Surrogate(s)</b>						
o-Terphenyl	92.7	60-130	%	1.00	04/05/2002 18:39	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-10-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-024
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 14:15	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5.4	1.0	mg/Kg	1.00	04/05/2002 12:53	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 12:53	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 12:53	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 12:53	
<b>Surrogate(s)</b>						
o-Terphenyl	74.2	60-130	%	1.00	04/05/2002 12:53	

TEPH w/ Silica Gel Clean-up

**Iris Environmental**  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-10-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-023
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 14:25	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 16:10	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 16:10	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 16:10	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 16:10	
<b>Surrogate(s)</b>						
o-Terphenyl	88.4	60-130	%	1.00	04/05/2002 16:10	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-3-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-022
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 13:20	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	19	1.0	mg/Kg	1.00	04/05/2002 14:13	ndp
Motor Oil	310	50	mg/Kg	1.00	04/05/2002 14:13	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 14:13	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 14:13	
<b>Surrogate(s)</b>						
o-Terphenyl	101.8	60-130	%	1.00	04/05/2002 14:13	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-3-7.5-8.0</b>	Lab Sample ID: 2002-03-0553-021
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 13:40	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 14:55	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 14:55	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 14:55	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 14:55	
<b>Surrogate(s)</b>						
o-Terphenyl	84.2	60-130	%	1.00	04/05/2002 14:55	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-3-4.5-5.0</b>	Lab Sample ID: 2002-03-0553-020
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 13:35	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4.5	1.0	mg/Kg	1.00	04/05/2002 10:53	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 10:53	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 10:53	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 10:53	
<b>Surrogate(s)</b>						
o-Terphenyl	93.3	60-130	%	1.00	04/05/2002 10:53	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-20-7.0-7.5</b>	Lab Sample ID: 2002-03-0553-018
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 14:10	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	230	20	mg/Kg	20.00	04/05/2002 22:17	ndp
Motor Oil	1200	1000	mg/Kg	20.00	04/05/2002 22:17	
Kerosene	ND	20	mg/Kg	20.00	04/05/2002 22:17	
Jet A	ND	20	mg/Kg	20.00	04/05/2002 22:17	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	20.00	04/05/2002 22:17	sd



Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-20-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-017
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 13:25	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	21	1.0	mg/Kg	1.00	04/05/2002 18:02	ndp
Motor Oil	130	50	mg/Kg	1.00	04/05/2002 18:02	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 18:02	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 18:02	
<b>Surrogate(s)</b>						
o-Terphenyl	92.5	60-130	%	1.00	04/05/2002 18:02	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-28-1.0-1.5</b>	Lab Sample ID: 2002-03-0553-016
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 09:15	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	18	1.0	mg/Kg	1.00	04/05/2002 19:17	ndp
Motor Oil	170	50	mg/Kg	1.00	04/05/2002 19:17	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 19:17	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 19:17	
<b>Surrogate(s)</b>						
o-Terphenyl	108.5	60-130	%	1.00	04/05/2002 19:17	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-28-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-015
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 09:25	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 10:13	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 10:13	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 10:13	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 10:13	
<b>Surrogate(s)</b>						
o-Terphenyl	79.8	60-130	%	1.00	04/05/2002 10:13	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-27-4.5-5.0</b>	Lab Sample ID: 2002-03-0553-014
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 08:50	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 10:53	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 10:53	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 10:53	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 10:53	
<b>Surrogate(s)</b>						
o-Terphenyl	85.6	60-130	%	1.00	04/05/2002 10:53	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-27-1.5-2.0	Lab Sample ID: 2002-03-0553-013
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 08:45	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	420	50	mg/Kg	50.00	04/05/2002 23:32	ndp
Motor Oil	2900	2500	mg/Kg	50.00	04/05/2002 23:32	
Kerosene	ND	50	mg/Kg	50.00	04/05/2002 23:32	
Jet A	ND	50	mg/Kg	50.00	04/05/2002 23:32	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	50.00	04/05/2002 23:32	sd

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-30-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-012
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 12:41
Sampled: 03/27/2002 10:00	QC-Batch: 2002/04/04-05.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	45	5.0	mg/Kg	5.00	04/05/2002 18:32	ndp
Motor Oil	520	250	mg/Kg	5.00	04/05/2002 18:32	
Kerosene	ND	5.0	mg/Kg	5.00	04/05/2002 18:32	
Jet A	ND	5.0	mg/Kg	5.00	04/05/2002 18:32	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	04/05/2002 18:32	sd

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: MFC-24-1.5-2.0	Lab Sample ID: 2002-03-0553-011
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 07:50	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	9.4	1.0	mg/Kg	1.00	04/05/2002 13:33	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 13:33	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 13:33	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 13:33	
<b>Surrogate(s)</b>						
o-Terphenyl	97.9	60-130	%	1.00	04/05/2002 13:33	

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-24-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-010
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 08:20	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	150	5.0	mg/Kg	5.00	04/05/2002 17:54	ndp
Motor Oil	600	250	mg/Kg	5.00	04/05/2002 17:54	
Kerosene	ND	5.0	mg/Kg	5.00	04/05/2002 17:54	
Jet A	ND	5.0	mg/Kg	5.00	04/05/2002 17:54	
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	04/05/2002 17:54	sd



Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-46-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-009
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 11:30	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	46	1.0	mg/Kg	1.00	04/05/2002 14:52	ndp
Motor Oil	170	50	mg/Kg	1.00	04/05/2002 14:52	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 14:52	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 14:52	
<b>Surrogate(s)</b>						
o-Terphenyl	102.5	60-130	%	1.00	04/05/2002 14:52	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Pleasanton, CA 94566

Sample ID: <b>MFC-46-7.0-7.5</b>	Lab Sample ID: 2002-03-0553-008
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 11:45	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	34	1.0	mg/Kg	1.00	04/05/2002 20:31	ndp
Motor Oil	370	50	mg/Kg	1.00	04/05/2002 20:31	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 20:31	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 20:31	
<b>Surrogate(s)</b>						
o-Terphenyl	111.5	60-130	%	1.00	04/05/2002 20:31	

TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-26-7.5-8.0</b>	Lab Sample ID: 2002-03-0553-007
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 09:33	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 09:33	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 09:33	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 09:33	
<b>Surrogate(s)</b>						
o-Terphenyl	84.8	60-130	%	1.00	04/05/2002 09:33	

Submission #: 2002-03-0553

**SEVERN  
TRENT  
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TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-26-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-006
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2.4	1.0	mg/Kg	1.00	04/05/2002 12:53	ndp
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 12:53	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 12:53	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 12:53	
<b>Surrogate(s)</b>						
o-Terphenyl	89.2	60-130	%	1.00	04/05/2002 12:53	

Submission #: 2002-03-0553

**SEVERN**  
**TRENT**  
**SERVICES**

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: MFC-26-1.5-2.0	Lab Sample ID: 2002-03-0553-005
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/04/2002 09:59
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/04-02.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/05/2002 08:53	
Motor Oil	ND	50	mg/Kg	1.00	04/05/2002 08:53	
Kerosene	ND	1.0	mg/Kg	1.00	04/05/2002 08:53	
Jet A	ND	1.0	mg/Kg	1.00	04/05/2002 08:53	
<b>Surrogate(s)</b>						
o-Terphenyl	83.5	60-130	%	1.00	04/05/2002 08:53	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-6-GW</b>	Lab Sample ID: 2002-03-0553-004
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/01/2002 05:52
Sampled: 03/27/2002	QC-Batch: 2002/04/01-01.10
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/02/2002 19:36	
Motor Oil	ND	500	ug/L	1.00	04/02/2002 19:36	
Kerosene	ND	50	ug/L	1.00	04/02/2002 19:36	
Jet A	ND	50	ug/L	1.00	04/02/2002 19:36	
<b>Surrogate(s)</b>						
o-Terphenyl	74.2	60-130	%	1.00	04/02/2002 19:36	

Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-5-GW</b>	Lab Sample ID: 2002-03-0553-003
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/01/2002 05:52
Sampled: 03/27/2002	QC-Batch: 2002/04/01-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/02/2002 18:56	
Motor Oil	ND	500	ug/L	1.00	04/02/2002 18:56	
Kerosene	ND	50	ug/L	1.00	04/02/2002 18:56	
Jet A	ND	50	ug/L	1.00	04/02/2002 18:56	
<b>Surrogate(s)</b>						
o-Terphenyl	80.7	60-130	%	1.00	04/02/2002 18:56	

TEPH w/ Silica Gel Clean-up

**Iris Environmental**  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M  
3510/8015M

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Sample ID: <b>MFC-8-GW</b>	Lab Sample ID: 2002-03-0553-002
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/01/2002 05:52
Sampled: 03/27/2002 10:00	QC-Batch: 2002/04/01-01.10
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/02/2002 20:56	
Motor Oil	ND	500	ug/L	1.00	04/02/2002 20:56	
Kerosene	ND	50	ug/L	1.00	04/02/2002 20:56	
Jet A	ND	50	ug/L	1.00	04/02/2002 20:56	
<b>Surrogate(s)</b>						
o-Terphenyl	60.1	60-130	%	1.00	04/02/2002 20:56	



Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M  
3510/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-9-GW</b>	Lab Sample ID: 2002-03-0553-001
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/01/2002 05:52
Sampled: 03/27/2002 10:30	QC-Batch: 2002/04/01-01.10
Matrix: Water	
Sample/Analysis Flag: rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	66	ug/L	1.32	04/02/2002 21:36	
Motor Oil	ND	660	ug/L	1.32	04/02/2002 21:36	
Kerosene	ND	66	ug/L	1.32	04/02/2002 21:36	
Jet A	ND	66	ug/L	1.32	04/02/2002 21:36	
<b>Surrogate(s)</b>						
o-Terphenyl	67.0	60-130	%	1.32	04/02/2002 21:36	

## TEPH w/ Silica Gel Clean-up

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Iris Environmental

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Oakland, CA 94612

Attn: Chris Alger

Phone: (510) 834-4747 Fax: (510) 834-4199

01-201-A  
SitePort of Oakland

Project: Port of Oakland 7th St.

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MFC-9-GW	Water	03/27/2002 10:30	1
MFC-8-GW	Water	03/27/2002 10:00	2
MFC-5-GW	Water	03/27/2002	3
MFC-6-GW	Water	03/27/2002	4
MFC-26-1.5-2.0	Soil	03/27/2002 15:25	5
MFC-26-5.0-5.5	Soil	03/27/2002 15:25	6
MFC-26-7.5-8.0	Soil	03/27/2002 15:25	7
MFC-46-7.0-7.5	Soil	03/27/2002 11:45	8
MFC-46-4.0-4.5	Soil	03/27/2002 11:30	9
MFC-24-4.0-4.5	Soil	03/27/2002 08:20	10
MFC-24-1.5-2.0	Soil	03/27/2002 07:50	11
MFC-30-1.5-2.0	Soil	03/27/2002 10:00	12
MFC-27-1.5-2.0	Soil	03/27/2002 08:45	13
MFC-27-4.5-5.0	Soil	03/27/2002 08:50	14
MFC-28-5.0-5.5	Soil	03/27/2002 09:25	15
MFC-28-1.0-1.5	Soil	03/27/2002 09:15	16
MFC-20-4.0-4.5	Soil	03/27/2002 13:25	17
MFC-20-7.0-7.5	Soil	03/27/2002 14:10	18
MFC-3-4.5-5.0	Soil	03/27/2002 13:35	20
MFC-3-7.5-8.0	Soil	03/27/2002 13:40	21
MFC-3-1.5-2.0	Soil	03/27/2002 13:20	22
MFC-10-5.0-5.5	Soil	03/27/2002 14:25	23
MFC-10-1.5-2.0	Soil	03/27/2002 14:15	24
MFC-2-1.5-2.0	Soil	03/27/2002 12:50	26
MFC-2-5.5-6.0	Soil	03/27/2002 13:00	27
MFC-11-4.0-4.5	Soil	03/27/2002 10:13	28
MFC-11-1.5-2.0	Soil	03/27/2002 10:07	29
MFC-1-1.0-1.5	Soil	03/27/2002 10:40	30
MFC-1-2.0-2.5	Soil	03/27/2002 10:42	31
MFC-17-GW	Water	03/27/2002 17:00	34
MFC-4-8.5-9.0	Soil	03/26/2002 17:08	35
MFC-4-5.0-5.5	Soil	03/26/2002 17:05	37
MFC-12-4.0-4.5	Soil	03/26/2002 09:13	38
MFC-12-1.5-2.0	Soil	03/26/2002 09:09	39
MFC-13-3.0-3.5	Soil	03/27/2002 08:17	40
MFC-13-1.5-2.0	Soil	03/26/2002 08:15	41

Submission #: 2002-03-0553

**SEVERN  
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TEPH w/ Silica Gel Clean-up

**Legend & Notes**

Test Method: 8015M

Prep Method: 3550/8015M

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**Analyte Flags**

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015M

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.10**  
 LCS: 2002/04/08-01.10-002 Extracted: 04/08/2002 07:17 Analyzed: 04/08/2002 17:18  
 LCSD: 2002/04/08-01.10-003 Extracted: 04/08/2002 07:17 Analyzed: 04/08/2002 17:55

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	36.7	36.6	41.7	41.7	88.0	87.8	0.2	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	21.2	20.9	20.0	20.0	106.0	104.6		60-130	0		



Submission #: 2002-03-0553



TEPH w/ Silica Gel Clean-up

Iris Environmental

Test Method: 8015M

Attn: Chris Alger

Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-4-11.0-11.5</b>	Lab Sample ID: 2002-03-0553-036
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 07:17
Sampled: 03/26/2002 17:20	QC-Batch: 2002/04/08-01.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/09/2002 00:17	
Motor Oil	ND	50	mg/Kg	1.00	04/09/2002 00:17	
Kerosene	ND	1.0	mg/Kg	1.00	04/09/2002 00:17	
Jet A	ND	1.0	mg/Kg	1.00	04/09/2002 00:17	
<b>Surrogate(s)</b>						
o-Terphenyl	54.7	60-130	%	1.00	04/09/2002 00:17	sl

Submission #: 2002-03-0553

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TEPH w/ Silica Gel Clean-up

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-032
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 07:17
Sampled: 03/27/2002 10:46	QC-Batch: 2002/04/08-01.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/08/2002 22:57	
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 22:57	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 22:57	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 22:57	
<b>Surrogate(s)</b>						
o-Terphenyl	52.2	60-130	%	1.00	04/08/2002 22:57	sl

TEPH w/ Silica Gel Clean-up

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID: <b>MFC-2-4.5-5.0</b>	Lab Sample ID: 2002-03-0553-025
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 07:17
Sampled: 03/27/2002	QC-Batch: 2002/04/08-01.10
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	04/08/2002 23:37	
Motor Oil	ND	50	mg/Kg	1.00	04/08/2002 23:37	
Kerosene	ND	1.0	mg/Kg	1.00	04/08/2002 23:37	
Jet A	ND	1.0	mg/Kg	1.00	04/08/2002 23:37	
<b>Surrogate(s)</b>						
o-Terphenyl	55.0	60-130	%	1.00	04/08/2002 23:37	sl



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01-201-A	Project: Port of Oakland 7th St.
Site Port of Oakland	

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
MFC-2-4.5-5.0	Soil	03/27/2002	25
MFC-1-4.0-4.5	Soil	03/27/2002 10:46	32
MFC-4-11.0-11.5	Soil	03/26/2002 17:20	36

Gas/BTEX by 8015M/8021

**Legend & Notes**

Test Method: 8021B  
8015M

Prep Method: 5035

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CA DHS ELAP#1094

**QC Compound Flags**

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.  
Precision and Accuracy were verified by LCS/LCSD.

**QC Compound Flags**

slm

Surrogate recoveries were lower than QC limits due to matrix interference.

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC Report

Test Method: 8015M

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.02</b>
Sample ID: <b>MFC-28-5.0-5.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-015
MS: 2002/04/05-01.02-021	Extracted: 04/05/2002 18:36	Analyzed: 04/05/2002 18:36
		Dilution: 1
MSD: 2002/04/05-01.02-022	Extracted: 04/05/2002 19:08	Analyzed: 04/05/2002 19:08
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	0.238	0.282	ND	0.495	0.488	48.1	57.8	18.3	65-135	35	mso	mso
<b>Surrogate(s)</b>												
4-Bromofluoroben	233	251		500	500	46.6	50.2		58-124		slm	slm

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC Report

Test Method: 8021B

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.02</b>
Sample ID: <b>MFC-28-5.0-5.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-015
MS: 2002/04/05-01.02-019	Extracted: 04/05/2002 17:33	Analyzed: 04/05/2002 17:33
		Dilution: 1
MSD: 2002/04/05-01.02-020	Extracted: 04/05/2002 18:04	Analyzed: 04/05/2002 18:04
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Benzene	0.0483	0.0533	ND	0.0990	0.0996	48.8	53.5	9.2	65-135	35	mso	mso
Toluene	0.0480	0.0531	ND	0.0990	0.0996	48.5	53.3	9.4	65-135	35	mso	mso
Ethyl benzene	0.0486	0.0546	ND	0.0990	0.0996	49.1	54.8	11.0	65-135	35	mso	mso
Xylene(s)	0.143	0.162	ND	0.300	0.299	47.7	54.2	12.8	65-135	35	mso	mso
<b>Surrogate(s)</b>												
Trifluorotoluene	247	266		500	500	49.4	53.2		53-125		slm	

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC Report

Test Method: 8015M

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.03</b>
Sample ID: <b>MFC-1-2.0-2.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-031
MS: 2002/04/05-01.03-036	Extracted: 04/06/2002 03:08	Analyzed: 04/06/2002 03:08
		Dilution: 1
MSD: 2002/04/05-01.03-037	Extracted: 04/06/2002 03:39	Analyzed: 04/06/2002 03:39
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Gasoline	0.318	0.366	ND	0.488	0.488	65.2	75.0	14.0	65-135	35		
<b>Surrogate(s)</b>												
Trifluorotoluene-FI	368			500		73.6			53-125			

Gas/BTEX by 8015M/8021

Batch QC Report

Test Method: 8021B

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.03</b>
Sample ID: <b>MFC-1-2.0-2.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-031
MS: 2002/04/05-01.03-034	Extracted: 04/06/2002 02:07	Analyzed: 04/06/2002 02:07
		Dilution: 1
MSD: 2002/04/05-01.03-035	Extracted: 04/06/2002 02:38	Analyzed: 04/06/2002 02:38
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD [%]	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Benzene	0.0955	0.0905	ND	0.0967	0.0977	98.8	92.6	6.5	65-135	35		
Toluene	0.0906	0.0861	ND	0.0967	0.0977	93.7	88.1	6.2	65-135	35		
Ethyl benzene	0.0867	0.0808	ND	0.0967	0.0977	89.7	82.7	8.1	65-135	35		
Xylene(s)	0.258	0.243	ND	0.300	0.293	86.0	82.9	3.7	65-135	35		
<b>Surrogate(s)</b>												
Trifluorotoluene	487	447		500	500	97.4	89.4		53-125			

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC Report

Test Method: 8015M

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.01</b>
Sample ID: <b>MFC-26-1.5-2.0 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-005
MS: 2002/04/05-01.01-021	Extracted: 04/05/2002 18:36	Analyzed: 04/05/2002 18:36
		Dilution: 1
MSD: 2002/04/05-01.01-022	Extracted: 04/05/2002 19:06	Analyzed: 04/05/2002 19:06
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	0.382	0.430	ND	0.493	0.491	77.5	87.6	12.2	65-135	35		
<b>Surrogate(s)</b>												
4-Bromofluoroben	370	427		500	500	74.0	85.4		58-124			

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC Report

Test Method: 8021B

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.01</b>
Sample ID: <b>MFC-26-1.5-2.0 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-005
MS: 2002/04/05-01.01-019	Extracted: 04/05/2002 17:36	Analyzed: 04/05/2002 17:36
		Dilution: 1
MSD: 2002/04/05-01.01-020	Extracted: 04/05/2002 18:06	Analyzed: 04/05/2002 18:06
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Benzene	0.0929	0.0863	ND	0.0990	0.0977	93.8	88.3	6.0	65-135	35		
Toluene	0.0963	0.0893	ND	0.0990	0.0977	97.3	91.4	6.3	65-135	35		
Ethyl benzene	0.0937	0.0868	ND	0.0990	0.0977	94.6	88.8	6.3	65-135	35		
Xylene(s)	0.282	0.261	ND	0.300	0.293	94.0	89.1	5.4	65-135	35		
<b>Surrogate(s)</b>												
Trifluorotoluene	529	488		500	500	105.	97.6		53-125			



Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.03**  
LCS: 2002/04/08-01.03-006 Extracted: 04/08/2002 09:21 Analyzed: 04/08/2002 09:21  
LCSD: 2002/04/08-01.03-007 Extracted: 04/08/2002 09:52 Analyzed: 04/08/2002 09:52

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Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.470	0.480	0.500	0.500	94.0	96.0	2.1	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	396	408	500	500	79.2	81.6		58-124			

Gas/BTEX by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.03**  
 LCS: 2002/04/08-01.03-004 Extracted: 04/08/2002 08:19 Analyzed: 04/08/2002 08:19  
 LCSD: 2002/04/08-01.03-005 Extracted: 04/08/2002 08:50 Analyzed: 04/08/2002 08:50

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.111	0.106	0.1000	0.1000	111.0	106.0	4.6	77-123	35		
Toluene	0.108	0.103	0.1000	0.1000	108.0	103.0	4.7	78-122	35		
Ethyl benzene	0.105	0.101	0.1000	0.1000	105.0	101.0	3.9	70-130	35		
Xylene(s)	0.314	0.303	0.300	0.300	104.7	101.0	3.6	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	535	494	500	500	107.0	98.8		53-125			

Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.01**  
 LCS: 2002/04/08-01.01-008 Extracted: 04/08/2002 08:17 Analyzed: 04/08/2002 08:17  
 LCSD: 2002/04/08-01.01-005 Extracted: 04/08/2002 08:47 Analyzed: 04/08/2002 08:47

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0970	0.0980	0.1000	0.1000	97.0	98.0	1.0	77-123	35		
Toluene	0.101	0.102	0.1000	0.1000	101.0	102.0	1.0	78-122	35		
Ethyl benzene	0.0984	0.0984	0.1000	0.1000	98.4	98.4	0.0	70-130	35		
Xylene(s)	0.297	0.303	0.300	0.300	99.0	101.0	2.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	570	588	500	500	114.0	117.6		53-125	0		

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Soil</b>	<b>QC Batch # 2002/04/08-01.01</b>
LCS: 2002/04/08-01.01-006	Extracted: 04/08/2002 09:17	Analyzed: 04/08/2002 09:17
LCSD: 2002/04/08-01.01-007	Extracted: 04/08/2002 09:47	Analyzed: 04/08/2002 09:47

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <b>Surrogate(s)</b>	0.525	0.529	0.500	0.500	105.0	105.8	0.8	75-125	35		
4-Bromofluorobenzene	517	517	500	500	103.4	103.4		58-124			

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/05-01.03**  
 LCS: 2002/04/05-01.03-006 Extracted: 04/05/2002 10:16 Analyzed: 04/05/2002 10:16  
 LCSD: 2002/04/05-01.03-007 Extracted: 04/05/2002 10:47 Analyzed: 04/05/2002 10:47

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Gasoline	0.494	0.513	0.500	0.500	98.8	102.6	3.8	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	404	438	500	500	80.8	87.6		58-124			



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

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Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/05-01.03  
 LCS: 2002/04/05-01.03-004    Extracted: 04/05/2002 09:14    Analyzed: 04/05/2002 09:14  
 LCSD: 2002/04/05-01.03-005    Extracted: 04/05/2002 09:45    Analyzed: 04/05/2002 09:45

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS
Benzene	0.102	0.0998	0.1000	0.1000	102.0	99.8	2.2	77-123	35		
Toluene	0.0982	0.0964	0.1000	0.1000	98.2	96.4	1.8	78-122	35		
Ethyl benzene	0.0974	0.0965	0.1000	0.1000	97.4	96.5	0.9	70-130	35		
Xylene(s)	0.291	0.291	0.300	0.300	97.0	97.0	0.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	484	465	500	500	96.8	93.0		53-125			

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.02  
LCS: 2002/04/05-01.02-006 Extracted: 04/05/2002 09:51 Analyzed: 04/05/2002 09:51  
LCSD: 2002/04/05-01.02-007 Extracted: 04/05/2002 10:22 Analyzed: 04/05/2002 10:22

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.565	0.448	0.500	0.500	113.0	89.6	23.1	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	525	431	500	500	105.0	86.2		58-124			

Gas/BTEX by 8015M/8021

**Batch QC report**

Test Method: 8021B

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.02**  
 LCS: 2002/04/05-01.02-004 Extracted: 04/05/2002 08:48 Analyzed: 04/05/2002 08:48  
 LCSD: 2002/04/05-01.02-005 Extracted: 04/05/2002 13:42 Analyzed: 04/05/2002 13:42

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0928	0.103	0.1000	0.1000	92.8	103.0	10.4	77-123	35		
Toluene	0.0929	0.103	0.1000	0.1000	92.9	103.0	10.3	78-122	35		
Ethyl benzene	0.0958	0.107	0.1000	0.1000	95.8	107.0	11.0	70-130	35		
Xylene(s)	0.285	0.315	0.300	0.300	95.0	105.0	10.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	453	348	500	500	90.6	69.6		53-125			



Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.01**  
 LCS: 2002/04/05-01.01-006 Extracted: 04/05/2002 09:45 Analyzed: 04/05/2002 09:45  
 LCSD: 2002/04/05-01.01-007 Extracted: 04/05/2002 10:15 Analyzed: 04/05/2002 10:15

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS	LCSD
Gasoline <b>Surrogate(s)</b>	0.559	0.550	0.500	0.500	111.8	110.0	1.6	75-125	35			
4-Bromofluorobenzene	506	501	500	500	101.2	100.2		58-124				

Gas/BTEX by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.01**  
 LCS: 2002/04/05-01.01-004 Extracted: 04/05/2002 08:45 Analyzed: 04/05/2002 08:45  
 LCSD: 2002/04/05-01.01-005 Extracted: 04/05/2002 09:15 Analyzed: 04/05/2002 09:15

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0975	0.0890	0.1000	0.1000	97.5	89.0	9.1	77-123	35		
Toluene	0.0998	0.0913	0.1000	0.1000	99.8	91.3	8.9	78-122	35		
Ethyl benzene	0.0979	0.0898	0.1000	0.1000	97.9	89.8	8.6	70-130	35		
Xylene(s)	0.301	0.275	0.300	0.300	100.3	91.7	9.0	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	561	511	500	500	112.2	102.2		53-125			

Gas/BTEX by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5035

STL San Francisco  
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<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/08-01.03</b>
MB: 2002/04/08-01.03-003		Date Extracted: 04/08/2002 07:49

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/08/2002 07:49	
Benzene	ND	0.0050	mg/Kg	04/08/2002 07:49	
Toluene	ND	0.0050	mg/Kg	04/08/2002 07:49	
Ethyl benzene	ND	0.0050	mg/Kg	04/08/2002 07:49	
Xylene(s)	ND	0.0050	mg/Kg	04/08/2002 07:49	
<b>Surrogate(s)</b>					
Trifluorotoluene	114.5	53-125	%	04/08/2002 07:49	
4-Bromofluorobenzene-FID	92.6	58-124	%	04/08/2002 07:49	

Gas/BTEX by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5035

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CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/08-01.01</b>
MB: 2002/04/08-01.01-003		Date Extracted: 04/08/2002 07:47

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/08/2002 07:47	
Benzene	ND	0.0050	mg/Kg	04/08/2002 07:47	
Toluene	ND	0.0050	mg/Kg	04/08/2002 07:47	
Ethyl benzene	ND	0.0050	mg/Kg	04/08/2002 07:47	
Xylene(s)	ND	0.0050	mg/Kg	04/08/2002 07:47	
<b>Surrogate(s)</b>					
Trifluorotoluene	100.9	53-125	%	04/08/2002 07:47	
4-Bromofluorobenzene-FID	97.7	58-124	%	04/08/2002 07:47	

Gas/BTEX by 8015M/8021

**Batch QC report**

Test Method: 8015M  
8021B

Prep Method: 5035

STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.03</b>
MB: 2002/04/05-01.03-003		Date Extracted: 04/05/2002 08:44

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/05/2002 08:44	
Benzene	ND	0.0050	mg/Kg	04/05/2002 08:44	
Toluene	ND	0.0050	mg/Kg	04/05/2002 08:44	
Ethyl benzene	ND	0.0050	mg/Kg	04/05/2002 08:44	
Xylene(s)	ND	0.0050	mg/Kg	04/05/2002 08:44	
<b>Surrogate(s)</b>					
Trifluorotoluene	96.7	53-125	%	04/05/2002 08:44	
4-Bromofluorobenzene-FID	82.9	58-124	%	04/05/2002 08:44	





Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-13-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-041
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 14:04
Sampled: 03/26/2002 08:15	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 14:04	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 14:04	
Toluene	ND	0.0050	mg/Kg	1.00	04/08/2002 14:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 14:04	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/08/2002 14:04	
<b>Surrogate(s)</b>						
Trifluorotoluene	83.1	53-125	%	1.00	04/08/2002 14:04	
4-Bromofluorobenzene-FID	75.0	58-124	%	1.00	04/08/2002 14:04	



Submission #: 2002-03-0553

**SEVERN  
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SERVICES**

Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-12-1.5-2.0	Lab Sample ID: 2002-03-0553-039
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/06/2002 00:35
Sampled: 03/26/2002 09:09	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.9	1.0	mg/Kg	1.00	04/06/2002 00:35	g
Benzene	ND	0.0050	mg/Kg	1.00	04/06/2002 00:35	
Toluene	ND	0.0050	mg/Kg	1.00	04/06/2002 00:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/06/2002 00:35	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/06/2002 00:35	
<b>Surrogate(s)</b>						
Trifluorotoluene	100.6	53-125	%	1.00	04/06/2002 00:35	
4-Bromofluorobenzene-FID	79.4	58-124	%	1.00	04/06/2002 00:35	

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-1.0-1.5</b>	Lab Sample ID: 2002-03-0553-030
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 13:26
Sampled: 03/27/2002 10:40	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 13:26	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 13:26	
Toluene	ND	0.0050	mg/Kg	1.00	04/08/2002 13:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 13:26	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/08/2002 13:26	
<b>Surrogate(s)</b>						
Trifluorotoluene	102.9	53-125	%	1.00	04/08/2002 13:26	
4-Bromofluorobenzene-FID	91.3	58-124	%	1.00	04/08/2002 13:26	

Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-11-1.5-2.0	Lab Sample ID: 2002-03-0553-029
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 20:31
Sampled: 03/27/2002 10:07	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 20:31	
Benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 20:31	
Toluene	ND	0.0050	mg/Kg	1.00	04/05/2002 20:31	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 20:31	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/05/2002 20:31	
<b>Surrogate(s)</b>						
Trifluorotoluene	74.2	53-125	%	1.00	04/05/2002 20:31	
4-Bromofluorobenzene-FID	65.2	58-124	%	1.00	04/05/2002 20:31	

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: <b>MFC-2-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-026
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 23:51
Sampled: 03/27/2002 12:50	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

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CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 23:51	
Benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 23:51	
Toluene	ND	0.0050	mg/Kg	1.00	04/05/2002 23:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 23:51	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/05/2002 23:51	
<b>Surrogate(s)</b>						
Trifluorotoluene	71.2	53-125	%	1.00	04/05/2002 23:51	
4-Bromofluorobenzene-FID	73.9	58-124	%	1.00	04/05/2002 23:51	

Submission #: 2002-03-0553

**SEVERN  
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SERVICES**

Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-10-1.5-2.0	Lab Sample ID: 2002-03-0553-024
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 12:41
Sampled: 03/27/2002 14:15	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 12:41	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 12:41	
Toluene	ND	0.0050	mg/Kg	1.00	04/08/2002 12:41	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 12:41	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/08/2002 12:41	
<b>Surrogate(s)</b>						
Trifluorotoluene	97.8	53-125	%	1.00	04/08/2002 12:41	
4-Bromofluorobenzene-FID	74.4	58-124	%	1.00	04/08/2002 12:41	

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-28-1.0-1.5</b>	Lab Sample ID: 2002-03-0553-016
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 12:10
Sampled: 03/27/2002 09:15	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 12:10	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 12:10	
Toluene	0.0062	0.0050	mg/Kg	1.00	04/08/2002 12:10	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 12:10	
Xylene(s)	0.012	0.0050	mg/Kg	1.00	04/08/2002 12:10	
<b>Surrogate(s)</b>						
Trifluorotoluene	104.9	53-125	%	1.00	04/08/2002 12:10	
4-Bromofluorobenzene-FID	64.0	58-124	%	1.00	04/08/2002 12:10	

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-27-1.5-2.0	Lab Sample ID: 2002-03-0553-013
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 11:08
Sampled: 03/27/2002 08:45	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 11:08	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 11:08	
Toluene	0.018	0.0050	mg/Kg	1.00	04/08/2002 11:08	
Ethyl benzene	0.0055	0.0050	mg/Kg	1.00	04/08/2002 11:08	
Xylene(s)	0.026	0.0050	mg/Kg	1.00	04/08/2002 11:08	
<b>Surrogate(s)</b>						
Trifluorotoluene	83.5	53-125	%	1.00	04/08/2002 11:08	
Trifluorotoluene-FID	70.2	53-125	%	1.00	04/08/2002 11:08	

Submission #: 2002-03-0553



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
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Attn: Chris Alger

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-30-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-012
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 10:37
Sampled: 03/27/2002 10:00	QC-Batch: 2002/04/08-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 10:37	
Benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 10:37	
Toluene	ND	0.0050	mg/Kg	1.00	04/08/2002 10:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/08/2002 10:37	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/08/2002 10:37	
<b>Surrogate(s)</b>						
Trifluorotoluene	108.1	53-125	%	1.00	04/08/2002 10:37	
4-Bromofluorobenzene-FID	69.5	58-124	%	1.00	04/08/2002 10:37	



Gas/BTEX by 8015M/8021

Iris Environmental

Test Method: 8015M  
8021B

Attn: Chris Alger

Prep Method: 5035

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Sample ID: <b>MFC-24-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-011
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 22:36
Sampled: 03/27/2002 07:50	QC-Batch: 2002/04/05-01.01
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 22:36	
Benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 22:36	
Toluene	ND	0.0050	mg/Kg	1.00	04/05/2002 22:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 22:36	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/05/2002 22:36	
<b>Surrogate(s)</b>						
Trifluorotoluene	95.8	53-125	%	1.00	04/05/2002 22:36	
4-Bromofluorobenzene-FID	90.2	58-124	%	1.00	04/05/2002 22:36	

Submission #: 2002-03-0553

Gas/BTEX by 8015M/8021



Iris Environmental

Test Method: 8015M  
8021B

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Attn: Chris Alger

Prep Method: 5035

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Sample ID: MFC-26-1.5-2.0	Lab Sample ID: 2002-03-0553-005
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 17:06
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/05-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 17:06	
Benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 17:06	
Toluene	ND	0.0050	mg/Kg	1.00	04/05/2002 17:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/05/2002 17:06	
Xylene(s)	ND	0.0050	mg/Kg	1.00	04/05/2002 17:06	
<b>Surrogate(s)</b>						
Trifluorotoluene	99.0	53-125	%	1.00	04/05/2002 17:06	
4-Bromofluorobenzene-FID	92.9	58-124	%	1.00	04/05/2002 17:06	

<b>Iris Environmental</b>	✉ 1615 Broadway, Suite 1003 Oakland, CA 94612
Attn: Chris Alger	Phone: (510) 834-4747 Fax: (510) 834-4199
01-201-A SitePort of Oakland	Project: Port of Oakland 7th St.

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**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
MFC-26-1.5-2.0	Soil	03/27/2002 15:25	5
MFC-24-1.5-2.0	Soil	03/27/2002 07:50	11
MFC-30-1.5-2.0	Soil	03/27/2002 10:00	12
MFC-27-1.5-2.0	Soil	03/27/2002 08:45	13
MFC-28-1.0-1.5	Soil	03/27/2002 09:15	16
MFC-10-1.5-2.0	Soil	03/27/2002 14:15	24
MFC-2-1.5-2.0	Soil	03/27/2002 12:50	26
MFC-11-1.5-2.0	Soil	03/27/2002 10:07	29
MFC-1-1.0-1.5	Soil	03/27/2002 10:40	30
MFC-12-1.5-2.0	Soil	03/26/2002 09:09	39
MFC-13-1.5-2.0	Soil	03/26/2002 08:15	41

Submission #: 2002-03-0553



Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A soil

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**Laboratory Control Spike (LCS/LCSD)      Soil      QC Batch # 2002/04/11-01.31**  
LCS: 2002/04/11-01.31-002 Extracted: 04/11/2002 10:50 Analyzed: 04/11/2002 10:55  
LCSD: 2002/04/11-01.31-003 Extracted: 04/11/2002 10:50 Analyzed: 04/11/2002 10:55

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CA DHS ELAP#1094

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chromium (Hexavalent)	1.90	1.90	2.00	2.00	95.0	95.0	0.0	80-120	20		

Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/10-01.31**  
 LCS: 2002/04/10-01.31-002 Extracted: 04/10/2002 12:50 Analyzed: 04/10/2002 12:55  
 LCSD: 2002/04/10-01.31-003 Extracted: 04/10/2002 12:50 Analyzed: 04/10/2002 12:55

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Chromium (Hexavalent)	1.90	1.90	2.00	2.00	95.0	95.0	0.0	80-120	20		

Submission #: 2002-03-0553



Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A soil

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<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/11-01.31</b>
MB: 2002/04/11-01.31-001		Date Extracted: 04/11/2002 10:50

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Chromium (Hexavalent)	ND	0.2	mg/Kg	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Batch QC report

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2002/04/10-01.31</b>
MB: 2002/04/10-01.31-001		Date Extracted: 04/10/2002 12:50

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Chromium (Hexavalent)	ND	0.2	mg/Kg	04/10/2002 12:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-13-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-041
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/26/2002 08:15	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	



Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-13-3.0-3.5	Lab Sample ID: 2002-03-0553-040
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 08:17	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-12-1.5-2.0	Lab Sample ID: 2002-03-0553-039
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/26/2002 09:09	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-12-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-038
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/26/2002 09:13	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553

Hexavalent Chromium



Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-4-5.0-5.5	Lab Sample ID: 2002-03-0553-037
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/26/2002 17:05	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Test Method: 7196A

Attn: Chris Alger

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-4-11.0-11.5	Lab Sample ID: 2002-03-0553-036
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/26/2002 17:20	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-4-8.5-9.0	Lab Sample ID: 2002-03-0553-035
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/26/2002 17:08	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553

**SEVERN  
TRENT  
SERVICES**

Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-1-4.0-4.5	Lab Sample ID: 2002-03-0553-032
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 10:46	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-1-2.0-2.5	Lab Sample ID: 2002-03-0553-031
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 10:42	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	



Submission #: 2002-03-0553

Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-1.0-1.5</b>	Lab Sample ID: 2002-03-0553-030
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 10:40	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-11-1.5-2.0	Lab Sample ID: 2002-03-0553-029
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 10:07	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-11-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-028
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 10:13	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-2-5.5-6.0	Lab Sample ID: 2002-03-0553-027
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 13:00	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553

Hexavalent Chromium



Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-2-1.5-2.0	Lab Sample ID: 2002-03-0553-026
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 12:50	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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Sample ID: MFC-2-4.5-5.0	Lab Sample ID: 2002-03-0553-025
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-10-1.5-2.0	Lab Sample ID: 2002-03-0553-024
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/11/2002 10:50
Sampled: 03/27/2002 14:15	QC-Batch: 2002/04/11-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/11/2002 10:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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Sample ID: MFC-10-5.0-5.5	Lab Sample ID: 2002-03-0553-023
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 14:25	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-3-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-022
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 13:20	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-3-7.5-8.0</b>	Lab Sample ID: 2002-03-0553-021
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 13:40	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

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Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-3-4.5-5.0</b>	Lab Sample ID: 2002-03-0553-020
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 13:35	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

Hexavalent Chromium



Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-20-7.0-7.5	Lab Sample ID: 2002-03-0553-018
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 14:10	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

SEVERN

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Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-20-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-017
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 13:25	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-28-1.0-1.5	Lab Sample ID: 2002-03-0553-016
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 09:15	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

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Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-28-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-015
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 09:25	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

SEVERN

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Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-27-4.5-5.0	Lab Sample ID: 2002-03-0553-014
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 08:50	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	



Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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Sample ID: MFC-27-1.5-2.0	Lab Sample ID: 2002-03-0553-013
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 08:45	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

Hexavalent Chromium



Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-30-1.6-2.0	Lab Sample ID: 2002-03-0553-012
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 10:00	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

Hexavalent Chromium

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Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-24-1.5-2.0	Lab Sample ID: 2002-03-0553-011
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 07:50	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-24-4.0-4.5	Lab Sample ID: 2002-03-0553-010
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 08:20	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553

Hexavalent Chromium

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Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-46-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-009
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 11:30	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-46-7.0-7.5	Lab Sample ID: 2002-03-0553-008
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 11:45	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental  
Attn: Chris Alger

Test Method: 7196A  
Prep Method: 7196A soil

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Sample ID: <b>MFC-26-7.5-8.0</b>	Lab Sample ID: 2002-03-0553-007
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

Submission #: 2002-03-0553



Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: MFC-26-5.0-5.5	Lab Sample ID: 2002-03-0553-006
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	



Submission #: 2002-03-0553

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Hexavalent Chromium

Iris Environmental

Attn: Chris Alger

Test Method: 7196A

Prep Method: 7196A soil

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CA DHS ELAP#1094

Sample ID: <b>MFC-26-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-005
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/10/2002 12:50
Sampled: 03/27/2002 15:25	QC-Batch: 2002/04/10-01.31
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.20	mg/Kg	1.00	04/10/2002 12:55	

## Hexavalent Chromium

**Iris Environmental**
 ☐ 1615 Broadway, Suite 1003  
 Oakland, CA 94612

Attn: Chris Alger

Phone: (510) 834-4747 Fax: (510) 834-4199

01-201-A

Project: Port of Oakland 7th St.

Site Port of Oakland

 STL San Francisco  
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 Pleasanton, CA 94566

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CA DHS ELAP#1094

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
MFC-26-1.5-2.0	Soil	03/27/2002 15:25	5
MFC-26-5.0-5.5	Soil	03/27/2002 15:25	6
MFC-26-7.5-8.0	Soil	03/27/2002 15:25	7
MFC-46-7.0-7.5	Soil	03/27/2002 11:45	8
MFC-46-4.0-4.5	Soil	03/27/2002 11:30	9
MFC-24-4.0-4.5	Soil	03/27/2002 08:20	10
MFC-24-1.5-2.0	Soil	03/27/2002 07:50	11
MFC-30-1.5-2.0	Soil	03/27/2002 10:00	12
MFC-27-1.5-2.0	Soil	03/27/2002 08:45	13
MFC-27-4.5-5.0	Soil	03/27/2002 08:50	14
MFC-28-5.0-5.5	Soil	03/27/2002 09:25	15
MFC-28-1.0-1.5	Soil	03/27/2002 09:15	16
MFC-20-4.0-4.5	Soil	03/27/2002 13:25	17
MFC-20-7.0-7.5	Soil	03/27/2002 14:10	18
MFC-3-4.5-5.0	Soil	03/27/2002 13:35	20
MFC-3-7.5-8.0	Soil	03/27/2002 13:40	21
MFC-3-1.5-2.0	Soil	03/27/2002 13:20	22
MFC-10-5.0-5.5	Soil	03/27/2002 14:25	23
MFC-10-1.5-2.0	Soil	03/27/2002 14:15	24
MFC-2-4.5-5.0	Soil	03/27/2002	25
MFC-2-1.5-2.0	Soil	03/27/2002 12:50	26
MFC-2-5.5-6.0	Soil	03/27/2002 13:00	27
MFC-11-4.0-4.5	Soil	03/27/2002 10:13	28
MFC-11-1.5-2.0	Soil	03/27/2002 10:07	29
MFC-1-1.0-1.5	Soil	03/27/2002 10:40	30
MFC-1-2.0-2.5	Soil	03/27/2002 10:42	31
MFC-1-4.0-4.5	Soil	03/27/2002 10:46	32
MFC-4-8.5-9.0	Soil	03/26/2002 17:08	35
MFC-4-11.0-11.5	Soil	03/26/2002 17:20	36
MFC-4-5.0-5.5	Soil	03/26/2002 17:05	37
MFC-12-4.0-4.5	Soil	03/26/2002 09:13	38
MFC-12-1.5-2.0	Soil	03/26/2002 09:09	39
MFC-13-3.0-3.5	Soil	03/27/2002 08:17	40
MFC-13-1.5-2.0	Soil	03/26/2002 08:15	41

Gasoline

**Legend & Notes**

Test Method: 8015M

Prep Method: 5035  
5030

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**QC Compound Flags**

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.  
Precision and Accuracy were verified by LCS/LCSD.

**QC Compound Flags**

slm

Surrogate recoveries were lower than QC limits due to matrix interference.

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Gasoline  
Batch QC Report

Test Method: 8015M

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.02</b>
Sample ID: <b>MFC-28-5.0-5.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-015
MS: 2002/04/05-01.02-021	Extracted: 04/05/2002 18:36	Analyzed: 04/05/2002 18:36
		Dilution: 1
MSD: 2002/04/05-01.02-022	Extracted: 04/05/2002 19:08	Analyzed: 04/05/2002 19:08
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Gasoline	0.238	0.282	ND	0.495	0.488	48.1	57.8	18.3	65-135	35	mso	mso
<b>Surrogate(s)</b>												
4-Bromofluoroben	233	251		500	500	46.6	50.2		58-124		slm	slm

Gasoline  
Batch QC Report

Test Method: 8015M

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.03</b>
Sample ID: <b>MFC-1-2.0-2.5 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-031
MS: 2002/04/05-01.03-036	Extracted: 04/06/2002 03:08	Analyzed: 04/06/2002 03:08
		Dilution: 1
MSD: 2002/04/05-01.03-037	Extracted: 04/06/2002 03:39	Analyzed: 04/06/2002 03:39
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	0.318	0.366	ND	0.488	0.488	65.2	75.0	14.0	65-135	35		
<b>Surrogate(s)</b>												
Trifluorotoluene-FI	368			500		73.6			53-125			

Gasoline

Batch QC Report

Test Method: 8015M

Prep Method: 5035

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<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2002/04/05-01.01</b>
Sample ID: <b>MFC-26-1.5-2.0 &gt;&gt; MS</b>		Lab ID: 2002-03-0553-005
MS: 2002/04/05-01.01-021	Extracted: 04/05/2002 18:36	Analyzed: 04/05/2002 18:36
		Dilution: 1
MSD: 2002/04/05-01.01-022	Extracted: 04/05/2002 19:06	Analyzed: 04/05/2002 19:06
		Dilution: 1

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Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.382	0.430	ND	0.493	0.491	77.5	87.6	12.2	65-135	35		
<b>Surrogate(s)</b>												
4-Bromofluoroben	370	427		500	500	74.0	85.4		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.03**  
 LCS: 2002/04/08-01.03-006 Extracted: 04/08/2002 09:21 Analyzed: 04/08/2002 09:21  
 LCSD: 2002/04/08-01.03-007 Extracted: 04/08/2002 09:52 Analyzed: 04/08/2002 09:52

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <b>Surrogate(s)</b>	0.470	0.480	0.500	0.500	94.0	96.0	2.1	75-125	35		
4-Bromofluorobenzene	396	408	500	500	79.2	81.6		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/08-01.01**  
 LCS: 2002/04/08-01.01-006 Extracted: 04/08/2002 09:17 Analyzed: 04/08/2002 09:17  
 LCSD: 2002/04/08-01.01-007 Extracted: 04/08/2002 09:47 Analyzed: 04/08/2002 09:47

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]			Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recover	RPD	LCS	LCSD
Gasoline	0.525	0.529	0.500	0.500	105.0	105.8	0.8	75-125	35			
<b>Surrogate(s)</b>												
4-Bromofluorobenzene	517	517	500	500	103.4	103.4		58-124				



Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.03**  
 LCS: 2002/04/05-01.03-006 Extracted: 04/05/2002 10:16 Analyzed: 04/05/2002 10:16  
 LCSD: 2002/04/05-01.03-007 Extracted: 04/05/2002 10:47 Analyzed: 04/05/2002 10:47

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline <b>Surrogate(s)</b>	0.494	0.513	0.500	0.500	98.8	102.6	3.8	75-125	35		
4-Bromofluorobenzene	404	438	500	500	80.8	87.6		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.02**  
 LCS: 2002/04/05-01.02-006 Extracted: 04/05/2002 09:51 Analyzed: 04/05/2002 09:51  
 LCSD: 2002/04/05-01.02-007 Extracted: 04/05/2002 10:22 Analyzed: 04/05/2002 10:22

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.565	0.448	0.500	0.500	113.0	89.6	23.1	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	525	431	500	500	105.0	86.2		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5035

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**Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/04/05-01.01**  
 LCS: 2002/04/05-01.01-006 Extracted: 04/05/2002 09:45 Analyzed: 04/05/2002 09:45  
 LCSD: 2002/04/05-01.01-007 Extracted: 04/05/2002 10:15 Analyzed: 04/05/2002 10:15

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Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.559	0.550	0.500	0.500	111.8	110.0	1.6	75-125	35		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	506	501	500	500	101.2	100.2		58-124			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5030

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**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/03-01.05**  
 LCS: 2002/04/03-01.05-002 Extracted: 04/03/2002 07:17 Analyzed: 04/03/2002 07:17  
 LCSD: 2002/04/03-01.05-003 Extracted: 04/03/2002 07:49 Analyzed: 04/03/2002 07:49

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Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	518	513	500	500	103.6	102.6	1.0	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	465	481	500	500	93.0	96.2		50-150			

Gasoline  
Batch QC report

Test Method: 8015M

Prep Method: 5030

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**Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2002/04/02-01.01**  
 LCS: 2002/04/02-01.01-006 Extracted: 04/02/2002 10:24 Analyzed: 04/02/2002 10:24  
 LCSD: 2002/04/02-01.01-007 Extracted: 04/02/2002 10:54 Analyzed: 04/02/2002 10:54

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	497	503	500	500	99.4	100.6	1.2	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	505	512	500	500	101.0	102.4		50-150			



Submission #: 2002-03-0553

SEVERN

TRENT

SERVICES

Gasoline

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5035

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Method Blank

Soil

QC Batch # 2002/04/08-01.01

MB: 2002/04/08-01.01-003

Date Extracted: 04/08/2002 07:47

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/08/2002 07:47	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	97.7	58-124	%	04/08/2002 07:47	





Submission #: 2002-03-0553

SEVERN

TRENT

SERVICES

Gasoline

Batch QC report

Test Method: 8015M  
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Method Blank

Soil

QC Batch # 2002/04/05-01.02

MB: 2002/04/05-01.02-003

Date Extracted: 04/05/2002 08:16

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/05/2002 08:16	
<i>Surrogate(s)</i>					
4-Bromofluorobenzene-FID	92.7	58-124	%	04/05/2002 08:16	



Submission #: 2002-03-0553

SEVERN

TRENT

SERVICES

Gasoline

Batch QC report

Test Method: 8015M

Prep Method: 5030

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CA DHS ELAP#1094

Method Blank

Water

QC Batch # 2002/04/03-01.05

MB: 2002/04/03-01.05-004

Date Extracted: 04/03/2002 08:21

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/03/2002 08:21	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	83.4	50-150	%	04/03/2002 08:21	



Submission #: 2002-03-0553



Gasoline

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Test Method: 8015M

Prep Method: 5030  
5035

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Sample ID: <b>MFC-13-3.0-3.5</b>	Lab Sample ID: 2002-03-0553-040
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 23:36
Sampled: 03/27/2002 08:17	QC-Batch: 2002/04/05-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 23:36	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	78.0	58-124	%	1.00	04/05/2002 23:36	

Gasoline

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Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-12-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-038
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/06/2002 00:05
Sampled: 03/26/2002 09:13	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/06/2002 00:05	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	93.4	58-124	%	1.00	04/06/2002 00:05	

Submission #: 2002-03-0553



Gasoline

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Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-4-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-037
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 23:34
Sampled: 03/26/2002 17:05	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.7	1.0	mg/Kg	1.00	04/05/2002 23:34	g
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	65.2	58-124	%	1.00	04/05/2002 23:34	

Submission #: 2002-03-0553



Gasoline

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Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-4-11.0-11.5</b>	Lab Sample ID: 2002-03-0553-036
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 23:03
Sampled: 03/26/2002 17:20	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 23:03	
<i>Surrogate(s)</i>						
Trifluorotoluene-FID	55.5	53-125	%	1.00	04/05/2002 23:03	



Submission #: 2002-03-0553

**SEVERN**  
**TRENT**  
**SERVICES**

Gasoline

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Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-4-8.5-9.0</b>	Lab Sample ID: 2002-03-0553-035
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 22:33
Sampled: 03/26/2002 17:08	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 22:33	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	77.0	58-124	%	1.00	04/05/2002 22:33	

Gasoline

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Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-17-GW</b>	Lab Sample ID: 2002-03-0553-034
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/02/2002 14:46
Sampled: 03/27/2002 17:00	QC-Batch: 2002/04/02-01.01
Matrix: Water	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	04/02/2002 14:46	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	109.7	50-150	%	1.00	04/02/2002 14:46	

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>TB032702A</b>	Lab Sample ID: 2002-03-0553-033
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/02/2002 14:16
Sampled: 03/27/2002 08:40	QC-Batch: 2002/04/02-01.01
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/02/2002 14:16	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	95.7	50-150	%	1.00	04/02/2002 14:16	

Submission #: 2002-03-0553



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-1-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-032
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 22:02
Sampled: 03/27/2002 10:46	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 22:02	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	59.7	58-124	%	1.00	04/05/2002 22:02	

Gasoline

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 5030  
5035

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CA DHS ELAP#1094

Sample ID: <b>MFC-1-2.0-2.5</b>	Lab Sample ID: 2002-03-0553-031
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 21:32
Sampled: 03/27/2002 10:42	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 21:32	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	59.3	58-124	%	1.00	04/05/2002 21:32	

Gasoline

Iris Environmental

Attn: Chris Alger

Test Method: 8015M

Prep Method: 5030  
5035

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Sample ID: <b>MFC-11-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-028
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 20:00
Sampled: 03/27/2002 10:13	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 20:00	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	67.3	58-124	%	1.00	04/05/2002 20:00	

Submission #: 2002-03-0553



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-2-5.5-6.0</b>	Lab Sample ID: 2002-03-0553-027
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 19:29
Sampled: 03/27/2002 13:00	QC-Batch: 2002/04/05-01.03
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 19:29	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	83.0	58-124	%	1.00	04/05/2002 19:29	

Submission #: 2002-03-0553

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Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-2-4.5-5.0</b>	Lab Sample ID: 2002-03-0553-025
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 23:20
Sampled: 03/27/2002	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 23:20	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	61.2	58-124	%	1.00	04/05/2002 23:20	



Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-10-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-023
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/08/2002 14:35
Sampled: 03/27/2002 14:25	QC-Batch: 2002/04/08-01.01
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/08/2002 14:35	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	70.8	58-124	%	1.00	04/08/2002 14:35	

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-3-1.5-2.0</b>	Lab Sample ID: 2002-03-0553-022
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 22:17
Sampled: 03/27/2002 13:20	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 22:17	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	80.7	58-124	%	1.00	04/05/2002 22:17	

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-3-7.5-8.0</b>	Lab Sample ID: 2002-03-0553-021
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 21:45
Sampled: 03/27/2002 13:40	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 21:45	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	88.5	58-124	%	1.00	04/05/2002 21:45	

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>MFC-3-4.5-5.0</b>	Lab Sample ID: 2002-03-0553-020
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 21:14
Sampled: 03/27/2002 13:35	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 21:14	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	82.1	58-124	%	1.00	04/05/2002 21:14	

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
5035

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Sample ID: <b>TB032702B</b>	Lab Sample ID: 2002-03-0553-019
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/02/2002 13:46
Sampled: 03/27/2002 16:00	QC-Batch: 2002/04/02-01.01
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/02/2002 13:46	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	107.3	50-150	%	1.00	04/02/2002 13:46	

Submission #: 2002-03-0553

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Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
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Sample ID: <b>MFC-20-7.0-7.5</b>	Lab Sample ID: 2002-03-0553-018
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 20:42
Sampled: 03/27/2002 14:10	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 20:42	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	110.8	58-124	%	1.00	04/05/2002 20:42	

Gasoline

Iris Environmental  
Attn: Chris Alger

Test Method: 8015M  
Prep Method: 5030  
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Sample ID: <b>MFC-20-4.0-4.5</b>	Lab Sample ID: 2002-03-0553-017
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 20:11
Sampled: 03/27/2002 13:25	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 20:11	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	90.1	58-124	%	1.00	04/05/2002 20:11	

Submission #: 2002-03-0553

**SEVERN  
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Attn: Chris Alger

Test Method: 8015M

Prep Method: 5030  
5035

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Sample ID: <b>MFC-28-5.0-5.5</b>	Lab Sample ID: 2002-03-0553-015
Project: 01-201-A Port of Oakland 7th St.	Received: 03/27/2002 18:20
Site: Port of Oakland	Extracted: 04/05/2002 16:49
Sampled: 03/27/2002 09:25	QC-Batch: 2002/04/05-01.02
Matrix: Soil	

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Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/05/2002 16:49	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene-FID	69.5	58-124	%	1.00	04/05/2002 16:49	