

FAX TRANSMITTAL

URS Greiner Woodward Clyde

October 14, 1999

DATE: _____

500 12th Street, Suite 200
Oakland, CA 94607-4014

PAGE 1 OF: 10

TEL: (510) 874-3027 FAX: (510) 874-3268

TO: **Larry Seto**

FROM: **Jay Clare**

FIRM: **Alameda County Environmental Health Services**

SUBJECT: **MTBE Results for Parcel T9 in Oakland, California** *STED 6436 City Order Proj 1155 Clay St. J.C.*

FAX NO: **510-337-9335**

CC: **Nicholas Loukianoff, Shorestein
Alex Greenwood, City of Oakland
Andrew Clark-Clough, City of Oakland
David Ralph, City of Oakland
Bob Lyons, City of Oakland**

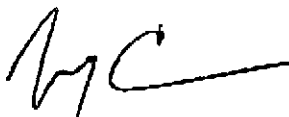
Pursuant to your request following review of the URS Greiner Woodward Clyde (URSGWC) letter report dated August 27, 1999, we are pleased to provide MTBE results for the two wells sampled at the site.

Chromalab, Inc. provided the MTBE results based on the gas chromatography analyses (EPA Methods 8020 and 8015M) previously performed for TPH-gasoline and BTEX. The results are summarized in the attached Table 1. The revised analytical report is provided as an attachment.

The results indicate no detection of MTBE in well W-5 and an estimated concentration of 10 µg/L in well W-3. However, MTBE was not detected in the duplicate sample for well W-3 (sample GWDUP01). The detection limit for MTBE is 5 µg/L. Given that the detected concentration of MTBE in well W-3 was at a concentration just above the detection limit and MTBE was not detected in the duplicate sample, MTBE is not suspected of being a groundwater contaminant at the site. This conclusion is further supported by the site history which does not indicate the storage of oxygenated fuels at the site.

During future construction dewatering, it is likely that treated groundwater will be discharged under an NPDES permit to the storm drain system. Discharge monitoring will likely include MTBE. These results will be used to confirm that MTBE is not present at elevated concentrations at the site.

Please let me know if you have any questions regarding this information.



Jay Clare
Project Manager

TABLE 1
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS RESULTS

Sample ID	Reporting Limit	W-3	W-5	GWDUP01
Sampling Date		08/13/1999	08/13/1999	08/13/1999
Depth to Water [ft TOC]		17.9	24.9	-
BTEX and TPH by EPA Method 8015/8020 (ug/L)				
TPH-Gasoline	50	ND	ND	ND
TPH-Diesel	50	ND	240	ND
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Xylenes	0.5	ND	ND	ND
MTBE	5.0	10	ND	ND
Title 22 Metals by EPA Method 6010 (mg/L)				
Antimony	0.005	ND	ND	ND
Arsenic	0.005	ND	ND	ND
Barium	0.005	0.06	0.096	0.077
Beryllium	0.005	ND	ND	ND
Cadmium	0.002	ND	ND	ND
Chromium	0.005	0.011	0.015	0.013
Cobalt	0.005	ND	ND	ND
Copper	0.005	ND	ND	ND
Lead	0.005	ND	ND	ND
Mercury	0.0002	ND	ND	ND
Molybdenum	0.005	ND	ND	ND
Nickel	0.005	0.014	ND	0.014
Selenium	0.005	ND	ND	ND
Silver	0.005	ND	ND	ND
Thallium	0.005	ND	ND	ND
Vanadium	0.005	ND	0.013	ND
Zinc	0.01	0.02	0.029	0.024

Notes:

GWDUP01 = Duplicate of W-3

ft bTOC = feet below top of casing

ND = Not detected (i.e., below the laboratory level of detection)

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-08-0209

Gas/BTEX

REVISED

URS Greiner Woodward Clyde- Oakland	✉ 500 12th Street, Suite 200 Oakland, CA 94607-4014
Attn: Paul Scherbak	Phone: (510) 893-3600 Fax: (510) 874-3268
Project #: 510996706000	Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
W-3	Water	08/13/1999 13:30	1
W-5	Water	08/13/1999 15:30	2
GWDUP01	Water	08/13/1999	3

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-08-0209

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
 8015M

Attn: Paul Scherbak

Prep Method: 5030

Gas/BTEX

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Sample ID: W-3	Lab Sample ID: 1999-08-0209-001
Project: 510996706000	Received: 08/13/1999 17:53
Sampled: 08/13/1999 13:30	Extracted: 08/19/1999 10:35
Matrix: Water	QC-Batch: 1999/08/19-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/19/1999 10:35	
Benzene	ND	0.50	ug/L	1.00	08/19/1999 10:35	
Toluene	ND	0.50	ug/L	1.00	08/19/1999 10:35	
Ethyl benzene	ND	0.50	ug/L	1.00	08/19/1999 10:35	
Xylene(s)	ND	0.50	ug/L	1.00	08/19/1999 10:35	
MTBE	10	5.0	ug/L	1.00	08/19/1999 10:35	c
Surrogate(s)						
Trifluorotoluene	99.3	58-124	%	1.00	08/19/1999 10:35	
4-Bromofluorobenzene-FID	85.8	50-150	%	1.00	08/19/1999 10:35	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1030

Printed on: 10/06/1999 15:08

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-08-0209

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
 8015M

Attn.: Paul Scherbak

Prep Method: 5030

REVISED

Gas/BTEX

Sample ID: W-5	Lab Sample ID: 1999-08-0209-002
Project: 510996706000	Received: 08/19/1999 17:53
Sampled: 08/13/1999 15:30	Extracted: 08/19/1999 10:08
Matrix: Water	QC-Batch: 1999/08/19-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/19/1999 10:08	
Benzene	ND	0.50	ug/L	1.00	08/19/1999 10:08	
Toluene	ND	0.50	ug/L	1.00	08/19/1999 10:08	
Ethyl benzene	ND	0.50	ug/L	1.00	08/19/1999 10:08	
Xylene(s)	ND	0.50	ug/L	1.00	08/19/1999 10:08	
MTBE	ND	5.0	ug/L	1.00	08/19/1999 10:08	
<i>Surrogate(s)</i>						
Trifluorotoluene	102.1	58-124	%	1.00	08/19/1999 10:08	
4-Bromofluorobenzene-FID	91.0	50-150	%	1.00	08/19/1999 10:08	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-08-0209

To: URS Greiner Woodward Clyde-Oakland

Test Method: 8020
 8015M

Attn.: Paul Scherbak

Prep Method: 5030 REVISED

Gas/BTEX

Sample ID: GWDUP01	Lab Sample ID: 1999-08-0209-003
Project: 510986706000	Received: 08/13/1999 17:53
Sampled: 08/13/1999	Extracted: 08/19/1999 11:02
Matrix: Water	QC-Batch: 1999/08/19-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/19/1999 11:02	
Benzene	ND	0.50	ug/L	1.00	08/19/1999 11:02	
Toluene	ND	0.50	ug/L	1.00	08/19/1999 11:02	
Ethyl benzene	ND	0.50	ug/L	1.00	08/19/1999 11:02	
Xylene(s)	ND	0.50	ug/L	1.00	08/19/1999 11:02	
MTBE	ND	5.0	ug/L	1.00	08/19/1999 11:02	
<i>Surrogate(s)</i>						
Trifluorotoluene	100.0	58-124	%	1.00	08/19/1999 11:02	
4-Bromofluorobenzene-FID	90.5	50-150	%	1.00	08/19/1999 11:02	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-08-0209

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
8015M

Attn.: Paul Scherbak

Prep Method: 5030

Batch QC Report Gas/BTEX

REVISED

Method Blank	Water	QC Batch # 1999/08/19-01.01
MB: 1999/08/19-01.01-001		Data Extracted: 08/19/1999 06:39

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	08/19/1999 06:39	
Benzene	ND	0.5	ug/L	08/19/1999 06:39	
Toluene	ND	0.5	ug/L	08/19/1999 06:39	
Ethyl benzene	ND	0.5	ug/L	08/19/1999 06:39	
Xylene(s)	ND	0.5	ug/L	08/19/1999 06:39	
MTBE	ND	5.0	ug/L	08/19/1999 06:39	
Surrogate(s)					
Trifluorotoluene	97.2	58-124	%	08/19/1999 06:39	
4-Bromofluorobenzene-FID	85.2	50-150	%	08/19/1999 06:39	

1220 Quarry Lane - Pleasanton, CA 94586-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1098

Printed on: 10/06/1999 15:08

CHROMALAB, INC.

Submission #: 1999-08-0209

Environmental Services (SDS)

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8020
 8015M

Attn: Paul Scherbak

Prep Method: 5030

Batch QC Report

Gas/BTEX

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Laboratory Control Spike (LCS/LCSD)		Water	QC Batch # 1999/08/19-01.01	
LCS:	1999/08/19-01.01-002	Extracted: 08/19/1999 07:06	Analyzed:	08/19/1999 07:06
LCSD:	1999/08/19-01.01-003	Extracted: 08/19/1999 07:58	Analyzed:	08/19/1999 07:58

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctn. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
Gasoline	503	581	500	500	100.6	112.2	10.9	75-125	20		
Benzene	109	110	100.0	100.0	108.0	110.0	0.9	77-123	20		
Toluene	105	107	100.0	100.0	105.0	107.0	1.9	78-122	20		
Ethyl benzene	106	108	100.0	100.0	106.0	108.0	1.9	70-130	20		
Xylene(s)	313	317	300	300	104.3	106.7	1.3	75-125	20		
Surrogate(s)											
Trifluorotoluene	527	539	500	500	105.4	107.8		58-124			
4-Bromofluorobenzene-F1	495	533	500	500	98.0	106.6		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-08-0209

To: URS Greiner Woodward Clyde- Oakland

Test Method: 8015M
8020

Attn: Paul Scherbak

Prep Method: 5030

Legend & Notes

Gas/BTEX

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Analysis Notes

W-3 (Lab# 1999-08-0209-001)

c- estimated concentration due to lack of confirmation