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SECOR  
INTERNATIONAL  
INCORPORATED

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Rancho Cordova, CA 95670  
916-861-0400 TEL  
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May 21, 2004

Ms. Eva Chu  
Alameda County Environmental Health Services Department  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County

MAY 24 2004

Environmental Health

RE: **Quarterly Summary Report-First Quarter 2004**  
SECOR Project No.: 77CP.60008.00.7124

Dear Ms. Chu:

On behalf of ConocoPhillips, SECOR International Incorporated (SECOR) is forwarding the quarterly summary report for the following location:

Service Station

76 Service Station No. 7124

Location

10151 East 14th Street  
Oakland, California

Sincerely,  
**SECOR International Incorporated**

A handwritten signature in cursive script, appearing to read "M. Gavan Heinrich".

M. Gavan Heinrich  
Associate Geologist

Attachment – Dissolved Contamination Concentration Map January through March, 2004  
(TRC, 2004)

cc: Mr. Thomas Kosel, ConocoPhillips (Bartlesville)

## QUARTERLY SUMMARY REPORT First Quarter 2004

76 Service Station No. 7124  
10151 East 14th Street  
Oakland, California

City/County ID #: Oakland

County: Alameda

### PREVIOUS ASSESSMENT

The Site is currently an active 76 Service Station located on the northwestern corner of the intersection of 14th Street and 102nd Avenue in Oakland, California. Site facilities include three underground storage tanks (USTs), and associated piping and fuel dispensers.

On March 22, 2000, SECOR supervised the removal and replacement of product lines and dispensers by Balch Petroleum (Balch) of Milpitas, California. Soil samples collected from beneath the dispensers and product lines revealed the presence of total petroleum hydrocarbons as gasoline (TPHg) at a maximum concentration of 6,200 milligrams per kilogram (mg/kg), MtBE at a maximum concentration of 120 mg/kg, and benzene at a maximum concentration of 7.4 mg/kg. Excavation and sampling activities were observed and approved by Inspector Gomez of the City of Oakland Fire Services Agency (COFSA).

On March 27, 2000, SECOR observed the over-excavation of approximately 60 cubic yards of soil from the beneath those portions of the dispensers and product lines where soil samples with elevated concentrations of petroleum hydrocarbons were located. Areas measuring approximately 8-10 feet long by 8-10 feet wide were over-excavated to an approximate depth of 8 feet below ground surface (bgs) in each of these areas. Additional over-excavation in these areas was not possible due to their proximity to the footings of the service station canopy. TPHg was detected in 2 of the 3 samples at a maximum concentration of 108 mg/kg; benzene was detected in 1 of the 3 samples at a maximum concentration of 0.162 mg/kg; and MtBE was detected in all 3 samples at a maximum concentration of 43.8 mg/kg. Lead was not detected at or above laboratory reporting limits in any samples.

During February, 2002, SECOR supervised the installation of four on-Site groundwater monitor wells. Prior to well installation, all borings were advanced to 26.5 feet bgs, and subsurface soil samples were collected every five feet. Soil samples were analyzed for gasoline range organics (GRO), BTEX, and fuel oxygenates via Method 8260B. The maximum reported concentrations were 42 mg/kg GRO, 0.36 mg/kg ethylbenzene, 0.26 mg/kg xylenes, and 1.2 mg/kg MtBE.

### SENSITIVE RECEPTORS

Not evaluated.

### MONITORING AND SAMPLING

The Site has been monitored and sampled since 3<sup>rd</sup> quarter, 2002. Currently, 4 wells are monitored quarterly (MW-1 through MW-4). Samples are analyzed for TPHg, BTEX, and fuel oxygenates.

**REMEDIAL STATUS**

No active remediation

**CHARACTERIZATION STATUS**

Contamination in soil is adequately delineated. The highest concentrations of residual TPHg and MtBE contamination are localized in the area of the northern dispenser island. The extent of dissolved contamination is undefined in the downgradient (northwest) direction. MW-2 and MW-3, and MW-4 all contained elevated concentrations of TPHg and MtBE.

**RECENT SUBMITTALS/CORRESPONDENCE**

None

**THIS QUARTER ACTIVITIES (First Quarter 2004)**

1. TRC performed groundwater monitoring and sampling event.

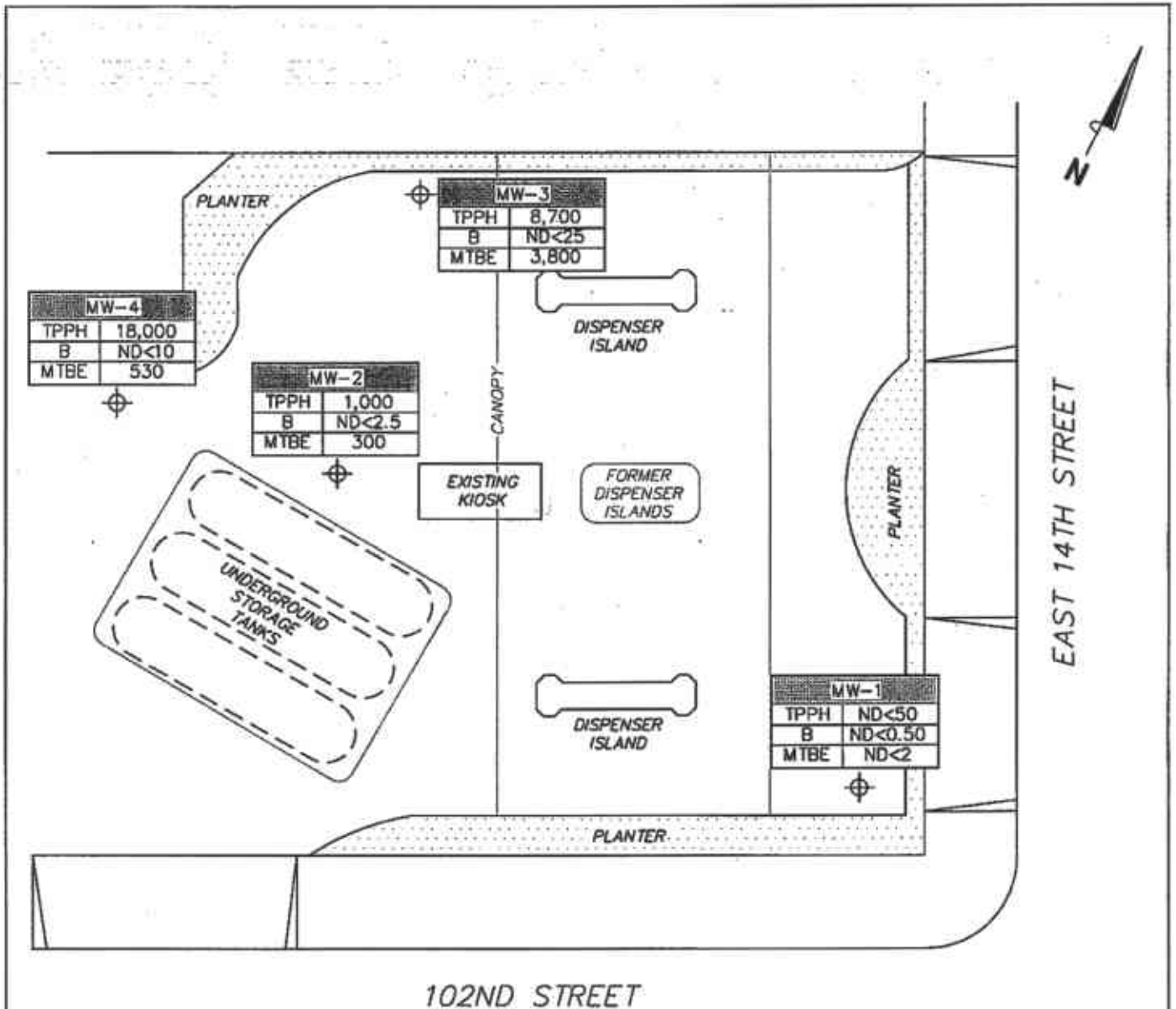
**NEXT QUARTER ACTIVITIES (Second Quarter 2004)**

1. Perform groundwater monitoring and sampling event.

**CONSULTANT:** SECOR International Incorporated

**ATTACHMENT**  
**DISSOLVED CONTAMINATION CONCENTRATION MAP**  
**JANUARY THROUGH MARCH 2004 (TRC)**

76 Service Station No. 7124  
10151 East 14th Street  
San Francisco, California  
SECOR Project No.: 77CP.60008.00.7124  
May 21, 2004



102ND STREET

EAST 14TH STREET

**NOTES:**

TPPH = total purgeable petroleum hydrocarbons.  
 B = benzene. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 8260B.

**LEGEND**

Well No.	TPPH	B	MTBE
	µg/l	µg/l	µg/l

Monitoring Well with Dissolved-Phase Hydrocarbon Concentrations (µg/l)

**DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS MAP**  
 January 9, 2004

76 Station 7124  
 10151 East 14th Street  
 Oakland, California

**TRC**

SCALE (FEET)



**FIGURE 3**

**TRC**  
Customer-Focused Solutions

DON  
RD 2444

May 28, 2004

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

Alameda County

JUN 15 2004

EMERGENCY SERVICES

ATTN: MR. THOMAS KOSEL

SITE: 76 STATION 7124  
10151 INTERNATIONAL BLVD.  
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT  
APRIL THROUGH JUNE 2004

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 7124, located at 10151 International Blvd., Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC



Anju Farfan  
QMS Operations Manager

CC: Amir Gholami, Alameda County Health Care Services  
Gavan Heinrich, SECOR International Inc.

Enclosures  
200400/7124R03.QMS.doc



Customer-Focused Solutions

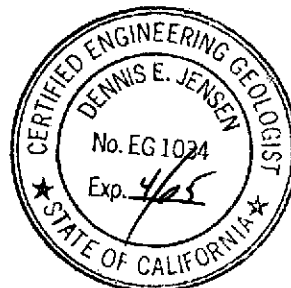
**QUARTERLY MONITORING REPORT  
APRIL THROUGH JUNE 2004**

76 STATION 7124  
10151 International Blvd.  
Oakland, California

Prepared For:

Mr. Thomas H. Kosel  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations  
May 28, 2004

## QUARTERLY MONITORING REPORT

<b>LIST OF ATTACHMENTS</b>	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Summary of Groundwater Levels and Chemical Analysis Results Table 2: Historic Groundwater Levels and Chemical Analysis Results Table 3: Summary of Additional Chemical Analysis Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	MTBE Concentrations vs. Time Hydrograph
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Transport and Disposal Limitations



**Summary of Gauging and Sampling Activities**  
**April 2004 through June 2004**  
**76 Station 7124**  
**10151 International Blvd.**  
**Oakland, CA**

**Site Information:**

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Site:	76 Station 10151 International Blvd. Oakland, CA
Project Coordinator/Phone Number:	Thomas H. Kosel/916-558-7666
Groundwater wells onsite:	4
Groundwater wells offsite:	0

**Field Activity:**

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Sampling consultant:	TRC
Date(s) sampled:	04/26/04
Groundwater wells gauged:	3
Groundwater wells sampled:	3
Purging method:	diaphragm pump
Treatment/disposal method during sampling event:	Onyx/Rodeo Unit 100
Free product pumpouts other than sampling event:	No
Treatment/Disposal method during free product pumpouts:	N/A

**Site Hydrogeology:**

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Minimum depth to groundwater (feet bgs):	15.21
Maximum depth to groundwater (feet bgs):	17.2
Average groundwater elevation (feet relative to mean sea level):	21.47
Average change in groundwater elevations since previous event (feet):	-1.26
Groundwater gradient and flow direction:	0.01 ft/ft, northwest
Previous gradient and/or flow direction (and date):	0.01 ft/ft, northwest (01/09/04)

**Groundwater Condition (Benzene Maximum Contaminant Level [MCL] = 1.0 µg/l)**

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Wells with benzene concentrations below MCL:	3
Wells with benzene concentrations at or above MCL:	0
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	ND
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	3900
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	6700 (MW-3)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

**Additional Information:**

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MW-2=Covered with asphalt,

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

## TABLE KEY

### ABBREVIATIONS / SYMBOLS

LPH	= liquid-phase hydrocarbons
µg/l	= micrograms per liter
mg/l	= milligrams per liter
ND	= not detected at or above laboratory detection limit
DTSC	= Department of Toxic Substances Control
N/A	= not applicable
Trace	= less than 0.01 foot of LPH in well
USTs	= underground storage tanks
--	= not analyzed, measured, or collected
TPH-G	= total petroleum hydrocarbons with gasoline distinction
BTEX	= benzene, toluene, ethylbenzene, and total xylenes
TPH-D	= total petroleum hydrocarbons with diesel distinction
TRPH	= total recoverable petroleum hydrocarbons
MTBE	= methyl tertiary butyl ether
TAME	= tertiary amyl methyl ether
ETBE	= ethyl tertiary butyl ether
DIPE	= di-isopropyl ether
TBA	= tertiary butyl alcohol
1,1-DCA	= 1,1-Dichloroethane
1,2-DCA	= 1,2-Dichloroethane
1,1-DCE	= 1,1-Dichloroethene
1,2-DCE	= cis- and trans-1,2-Dichloroethene
PCE	= tetrachloroethene
TCA	= trichloroethane
TCE	= trichloroethene
PCB	= polychlorinated biphenyls
TPPH	= total purgeable petroleum hydrocarbons

### NOTES

Elevations are in feet above mean sea level.

Groundwater elevation for wells with LPH is calculated as follows:

$$\text{Surface elevation} - \text{depth to water} + (0.75 \times \text{LPH thickness}).$$

Concentration Graphs have been modified to plot non-detect results at the reporting limit stated in the official laboratory report. All non-detect results prior to the Second Quarter 2000 were plotted at 0.1 µg/l for graphical display.

J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL )

### REFERENCE

TRC began groundwater monitoring and sampling activities in October 2003. Historical data 76 Station 7124 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

**Table 1**  
**SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS**  
**April 26, 2004**  
**76 Station 7124**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-1</b>														
04/26/04	37.37	15.21	0.00	22.16	-1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-2</b>														
04/26/04	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
<b>MW-3</b>														
04/26/04	37.72	16.62	0.00	21.10	-1.31	--	6700	ND<25	ND<25	ND<25	ND<50	--	3900	
<b>MW-4</b>														
04/26/04	38.36	17.20	0.00	21.16	-1.05	--	6500	ND<10	ND<10	ND<10	ND<20	--	240	

**Table 2**  
**HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS**  
**April 2002 Through April 2004**

76 Station 7124														
Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G	TPPH 8260B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-1</b>														
07/28/02	37.37	15.88	0.00	21.49	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/03/02	37.37	16.75	0.00	20.62	-0.87	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/24/03	37.37	13.94	0.00	23.43	2.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
04/02/03	37.37	14.99	0.00	22.38	-1.05	460	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/01/03	37.37	15.48	0.00	21.89	-0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/02/03	37.37	16.68	0.00	20.69	-1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/09/04	37.37	13.79	0.00	23.58	2.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
04/26/04	37.37	15.21	0.00	22.16	-1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-2</b>														
04/08/02	37.87	15.86	0.00	22.01	--	4,400	--	ND<2.5	ND<2.5	6.4	ND<2.5	380	490	
07/28/02	37.87	17.28	0.00	20.59	-1.42	3,200	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	
11/03/02	37.87	18.03	0.00	19.84	-0.75	3,800	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	72	
01/24/03	37.87	15.59	0.00	22.28	2.44	410	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	490	
04/02/03	37.87	16.50	0.00	21.37	-0.91	1,000	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	180	
07/01/03	37.87	16.94	0.00	20.93	-0.44	1,900	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	120	
10/02/03	37.87	17.93	0.00	19.94	-0.99	--	6900	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
01/09/04	37.87	15.42	0.00	22.45	2.51	--	1000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	300	
04/26/04	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
<b>MW-3</b>														
04/08/02	37.72	15.86	0.00	21.86	--	8,700	--	65	ND<25	400	ND<25	6,500	8,300	
07/28/02	37.72	17.22	0.00	20.50	-1.36	4,500	--	ND<25	ND<25	ND<25	ND<50	--	1,100	
11/03/02	37.72	17.90	0.00	19.82	-0.68	25,000	--	ND<5.0	ND<5.0	25	ND<10	--	470	
01/24/03	37.72	15.57	0.00	22.15	2.33	6,000	--	ND<25	ND<25	94	ND<50	--	10,000	
04/02/03	37.72	16.45	0.00	21.27	-0.88	130,000	--	ND<100	ND<100	ND<100	ND<200	--	4,400	
07/01/03	37.72	16.88	0.00	20.84	-0.43	9,400	--	ND<10	ND<10	ND<10	ND<20	--	2,200	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued														
10/02/03	37.72	17.85	0.00	19.87	-0.97	--	73000	ND<50	ND<50	ND<50	ND<100	--	460	
01/09/04	37.72	15.31	0.00	22.41	2.54	--	8700	ND<25	ND<25	98	ND<50	--	3800	
04/26/04	37.72	16.62	0.00	21.10	-1.31	--	6700	ND<25	ND<25	ND<25	ND<50	--	3900	
MW-4														
04/08/02	38.36	16.59	0.00	21.77	--	13,000	--	ND<5.0	ND<5.0	28	ND<5.0	790	980	
07/28/02	38.36	17.93	0.00	20.43	-1.34	18,000	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	
11/03/02	38.36	18.66	0.00	19.70	-0.73	220	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.7	
01/24/03	38.36	16.27	0.00	22.09	2.39	ND<1,000	--	ND<10	ND<10	ND<10	ND<20	--	1,000	
04/02/03	38.36	17.19	0.00	21.17	-0.92	130,000	--	ND<100	ND<100	ND<100	ND<200	--	ND<400	
07/01/03	38.36	17.61	0.00	20.75	-0.42	15,000	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	
10/02/03	38.36	18.58	0.00	19.78	-0.97	--	7100	ND<10	ND<10	ND<10	ND<20	--	70	
01/09/04	38.36	16.15	0.00	22.21	2.43	--	18000	ND<10	ND<10	ND<10	ND<20	--	530	
04/26/04	38.36	17.20	0.00	21.16	-1.05	--	6500	ND<10	ND<10	ND<10	ND<20	--	240	

**Table 3**  
**SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS**  
**76 Station 7124**

Date Sampled	EDC (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Ethanol 8260B (µg/l)	1,2 DCE (µg/l)
<b>MW-1</b>									
07/28/02	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
11/03/02	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
01/24/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
04/02/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
07/01/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
10/02/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500	--
01/09/04	--	ND<2	ND<2	ND<100	ND<2	ND<2	--	ND<500	ND<2
04/26/04	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<50	--
<b>MW-2</b>									
04/08/02	--	ND<40	ND<40	ND<2,000	ND<40	ND<40	ND<10,000	--	ND<40
07/28/02	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
11/03/02	--	ND<20	ND<20	ND<1,000	ND<20	ND<20	ND<5,000	--	ND<20
01/24/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
04/02/03	--	ND<20	ND<20	ND<1,000	ND<20	ND<20	ND<5,000	--	ND<20
07/01/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
10/02/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500	--
01/09/04	--	ND<10	ND<10	ND<500	ND<10	ND<10	--	ND<2500	ND<10
<b>MW-3</b>									
10/02/03	ND<200	ND<200	ND<200	ND<10000	ND<200	ND<200	--	ND<50000	--
01/09/04	--	ND<100	ND<100	ND<5000	ND<100	ND<100	--	ND<25000	ND<100
04/26/04	ND<25	ND<25	ND<25	ND<250	ND<50	ND<25	--	ND<2500	--
<b>MW-4</b>									
04/08/02	--	ND<100	ND<100	ND<5,000	ND<100	ND<100	ND<25,000	--	ND<100
07/28/02	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
11/03/02	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
01/24/03	--	ND<40	ND<40	ND<2,000	ND<40	ND<40	ND<10,000	--	ND<40

Date Sampled	EDC  (µg/l)	EDB  (µg/l)	TAME 8260B  (µg/l)	TBA 8260B  (µg/l)	DIPE 8260B  (µg/l)	ETBE 8260B  (µg/l)	Ethanol 8015B  (mg/l)	Ethanol 8260B  (µg/l)	1,2 DCE  (µg/l)
MW-4 continued									
04/02/03	--	ND<400	ND<400	ND<20,000	ND<400	ND<400	ND<100,000	--	ND<400
07/01/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
10/02/03	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	--	ND<10000	--
01/09/04	--	ND<40	ND<40	ND<2000	ND<40	ND<40	--	ND<10000	ND<40
04/26/04	ND<10	ND<10	ND<10	430	ND<20	ND<10	--	ND<1000	--

# FIGURES





SCALE 1:24,000



QUADRANGLE LOCATION

**VICINITY MAP**

76 Station 7124  
 10151 International Boulevard  
 Oakland, California

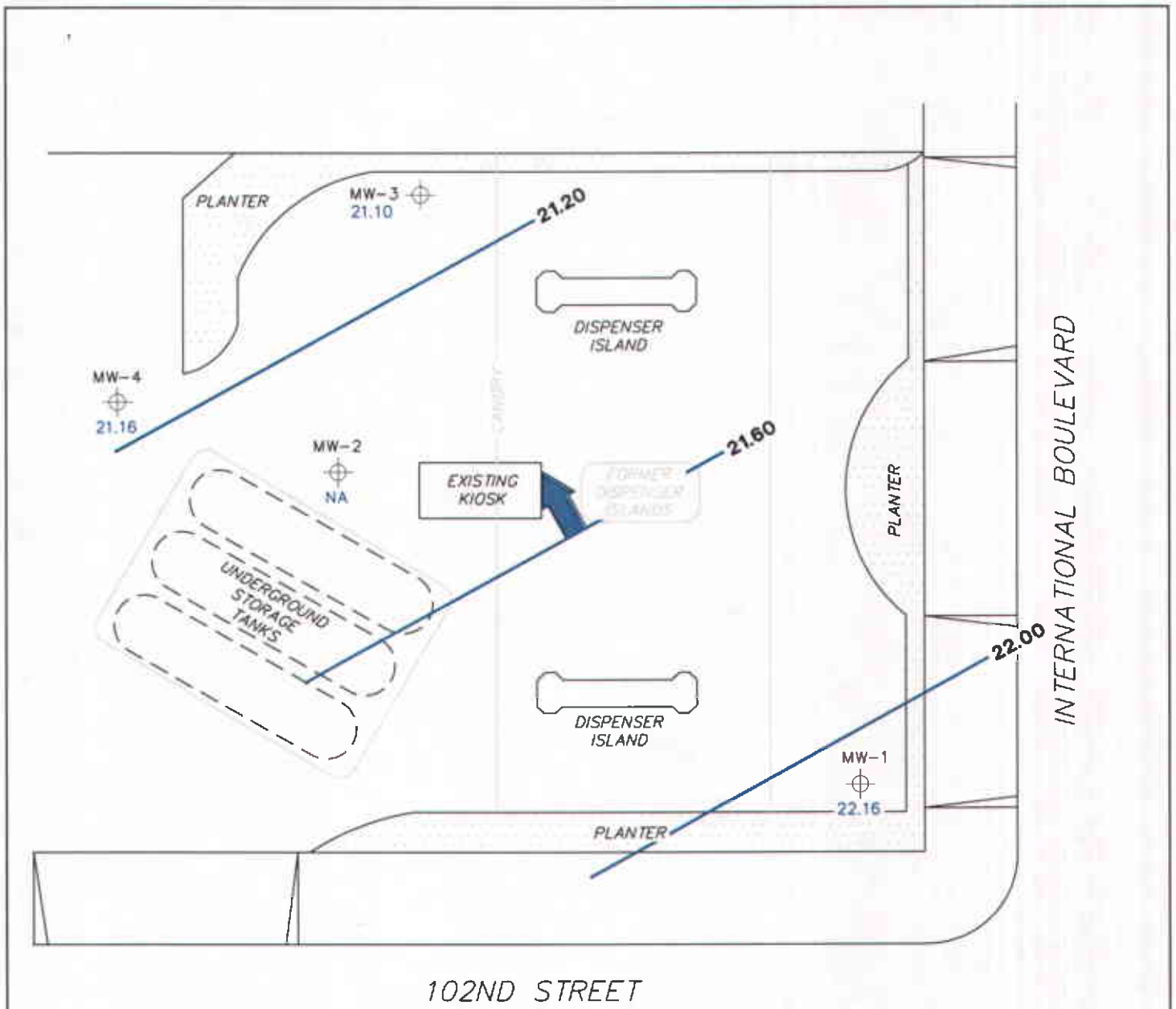
**FIGURE 1**

**SOURCE:**

United States Geological Survey  
 7.5 Minute Topographic Map:  
 Oakland West Quadrangle






PS = 1:1



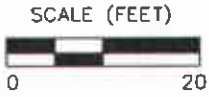
**NOTES:**  
 Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected.

**LEGEND**

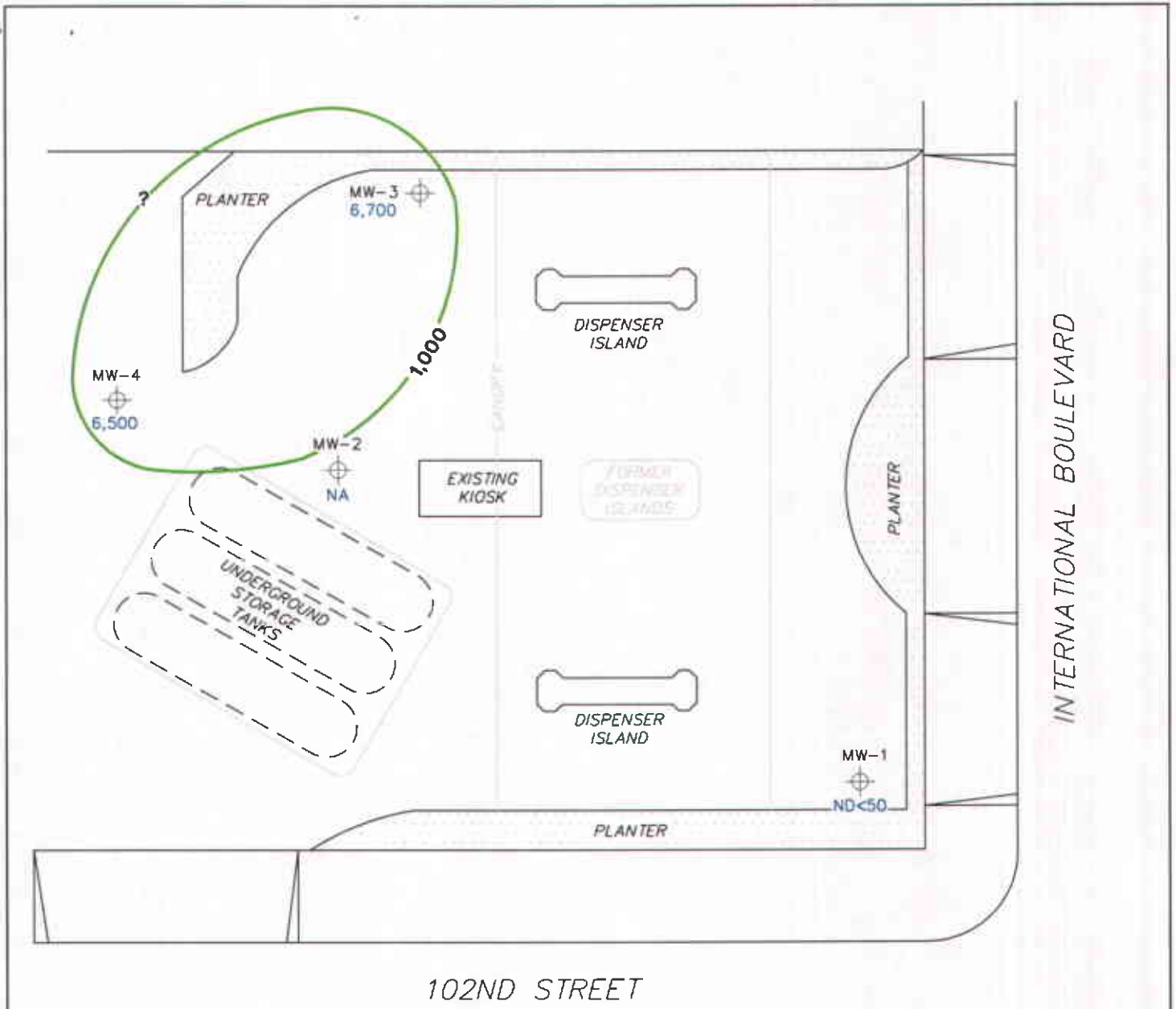
- MW-4  Monitoring Well with Groundwater Elevation (feet)
- 22.00  Groundwater Elevation Contour
-  General Direction of Groundwater Flow

**GROUNDWATER ELEVATION  
 CONTOUR MAP  
 April 26, 2004**

76 Station 7124  
 10151 International Boulevard  
 Oakland, California



**FIGURE 2**



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbons. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. Results obtained using EPA Method 8260B.

**LEGEND**

- MW-4 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)
- 1,000 — Dissolved-Phase TPPH Contour (µg/l)

**DISSOLVED-PHASE TPPH CONCENTRATION MAP  
April 26, 2004**

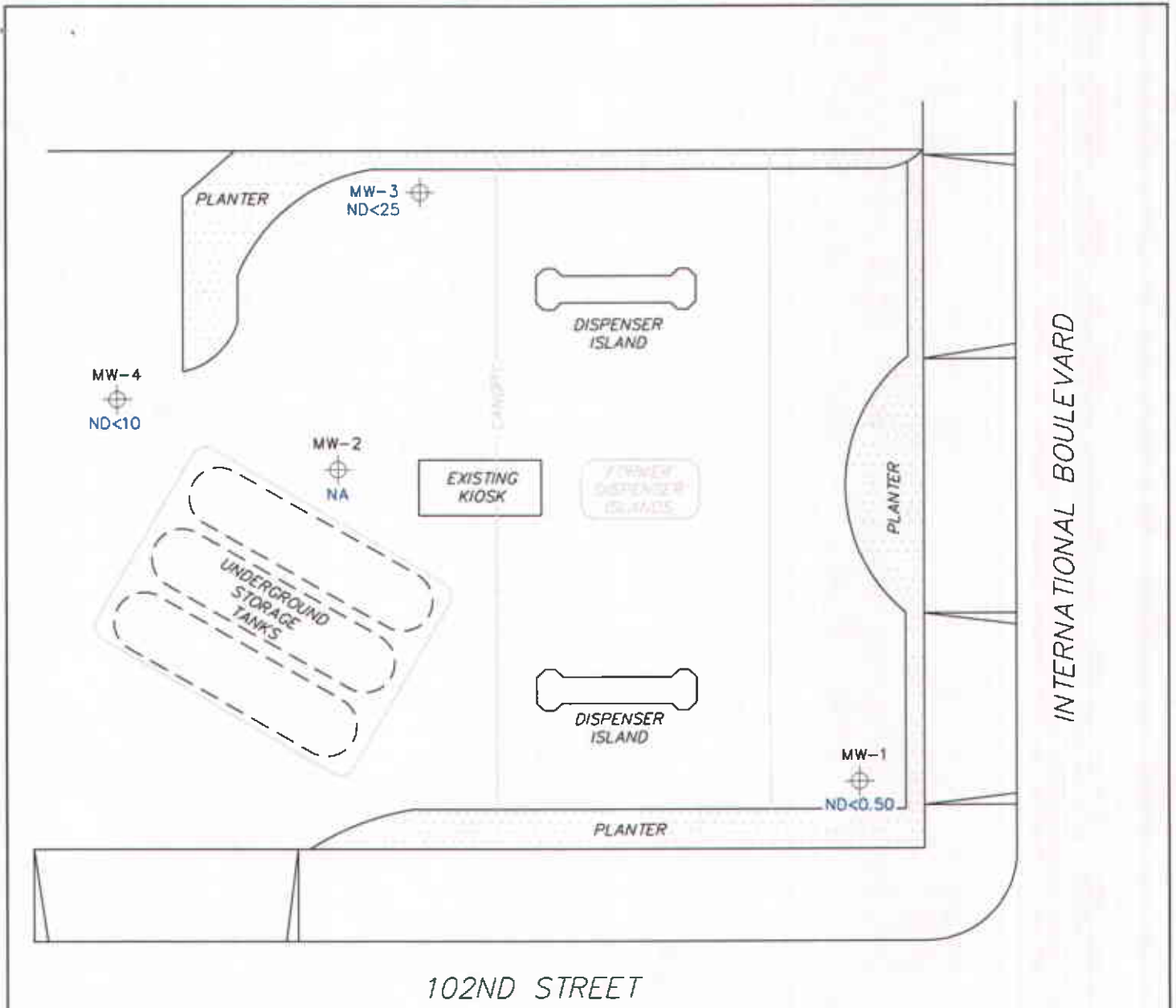
76 Station 7124  
10151 International Boulevard  
Oakland, California



SCALE (FEET)



**FIGURE 3**



**NOTES:**

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected.

**LEGEND**

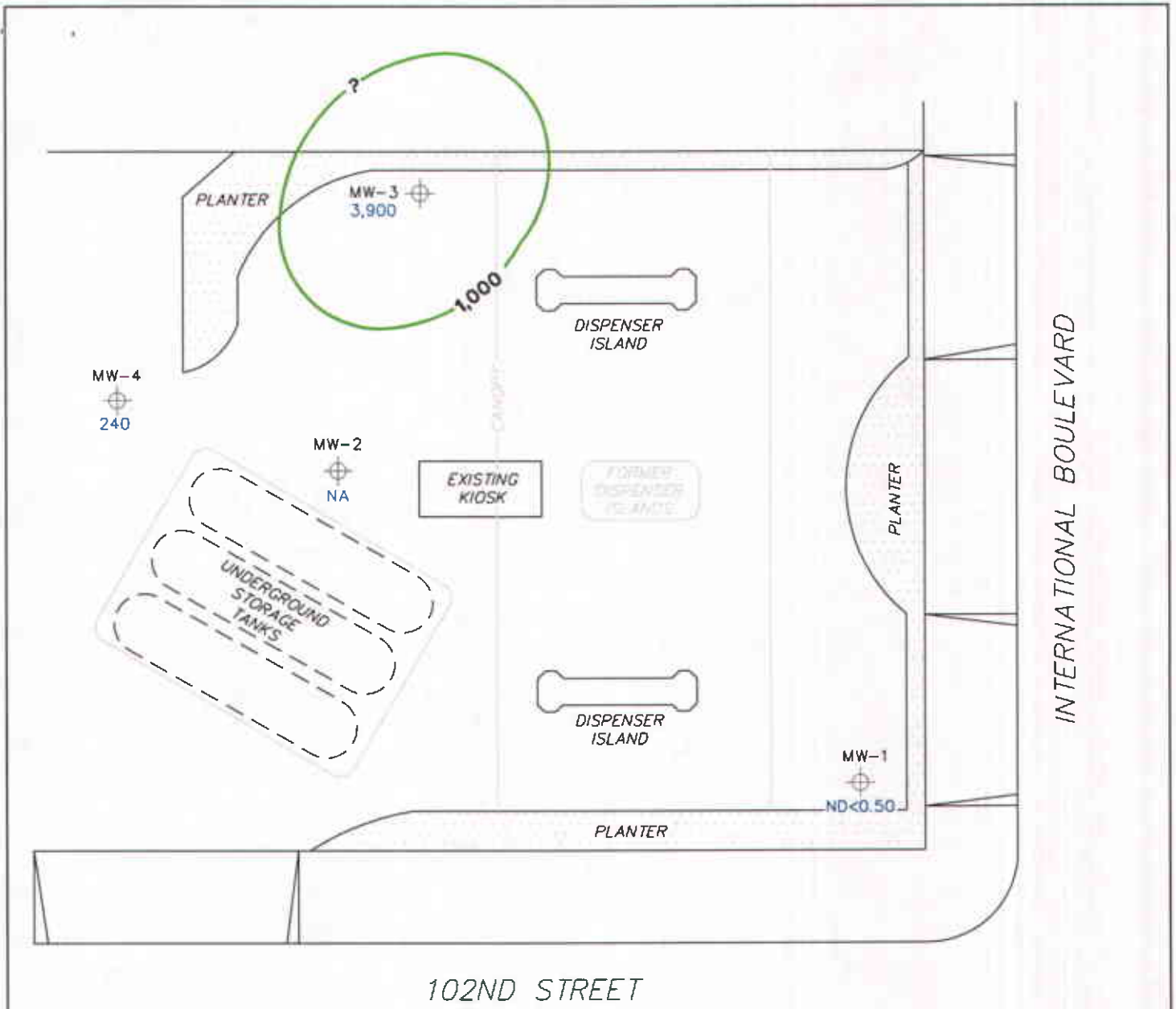
MW-4 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

**DISSOLVED-PHASE BENZENE CONCENTRATION MAP**  
**April 26, 2004**

76 Station 7124  
 10151 International Boulevard  
 Oakland, California



**FIGURE 4**



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. Results obtained using EPA Method 8260B.

**LEGEND**

MW-4 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

1,000 — Dissolved-Phase MTBE Contour (µg/l)

**DISSOLVED-PHASE MTBE CONCENTRATION MAP  
April 26, 2004**

76 Station 7124  
10151 International Boulevard  
Oakland, California



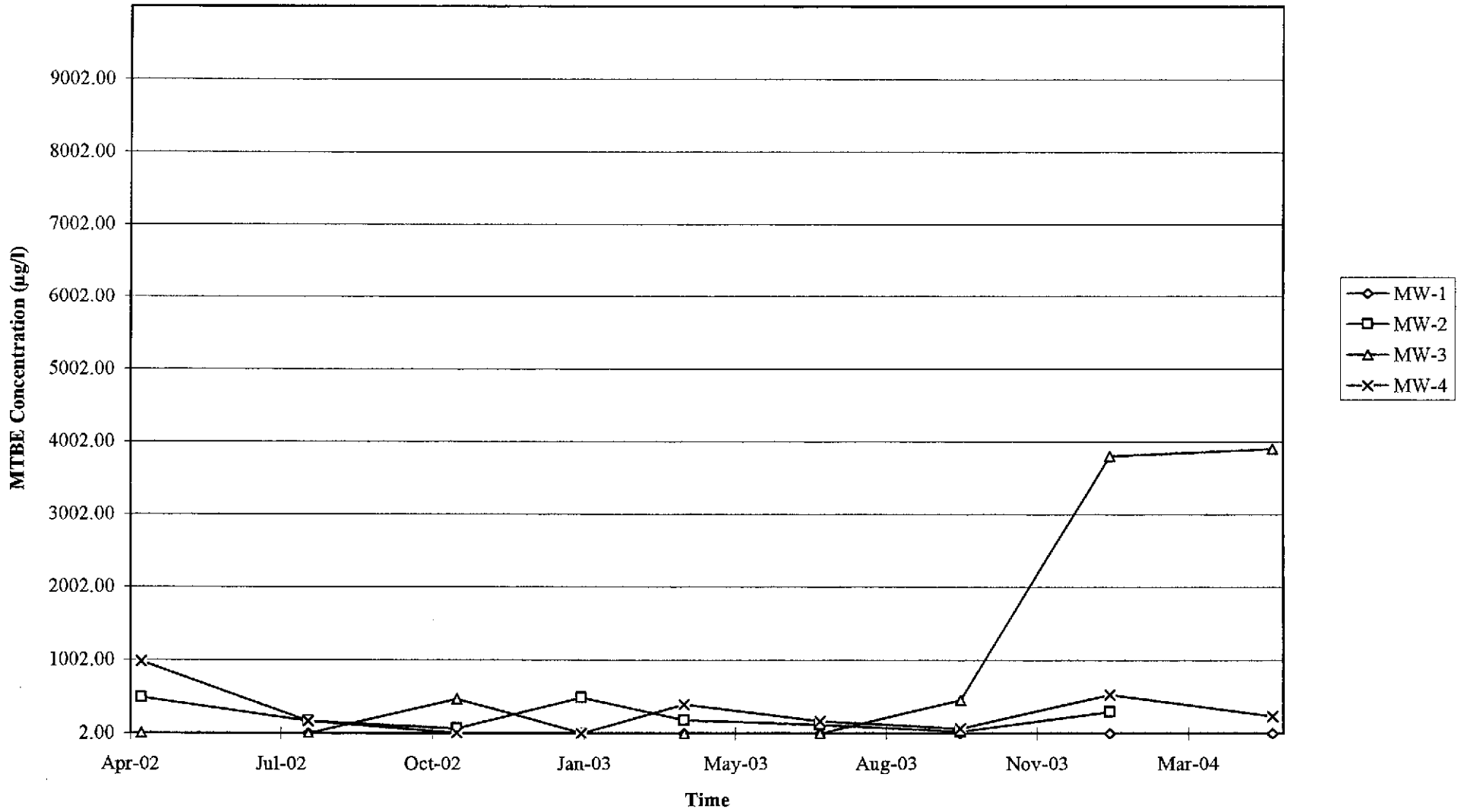
SCALE (FEET)



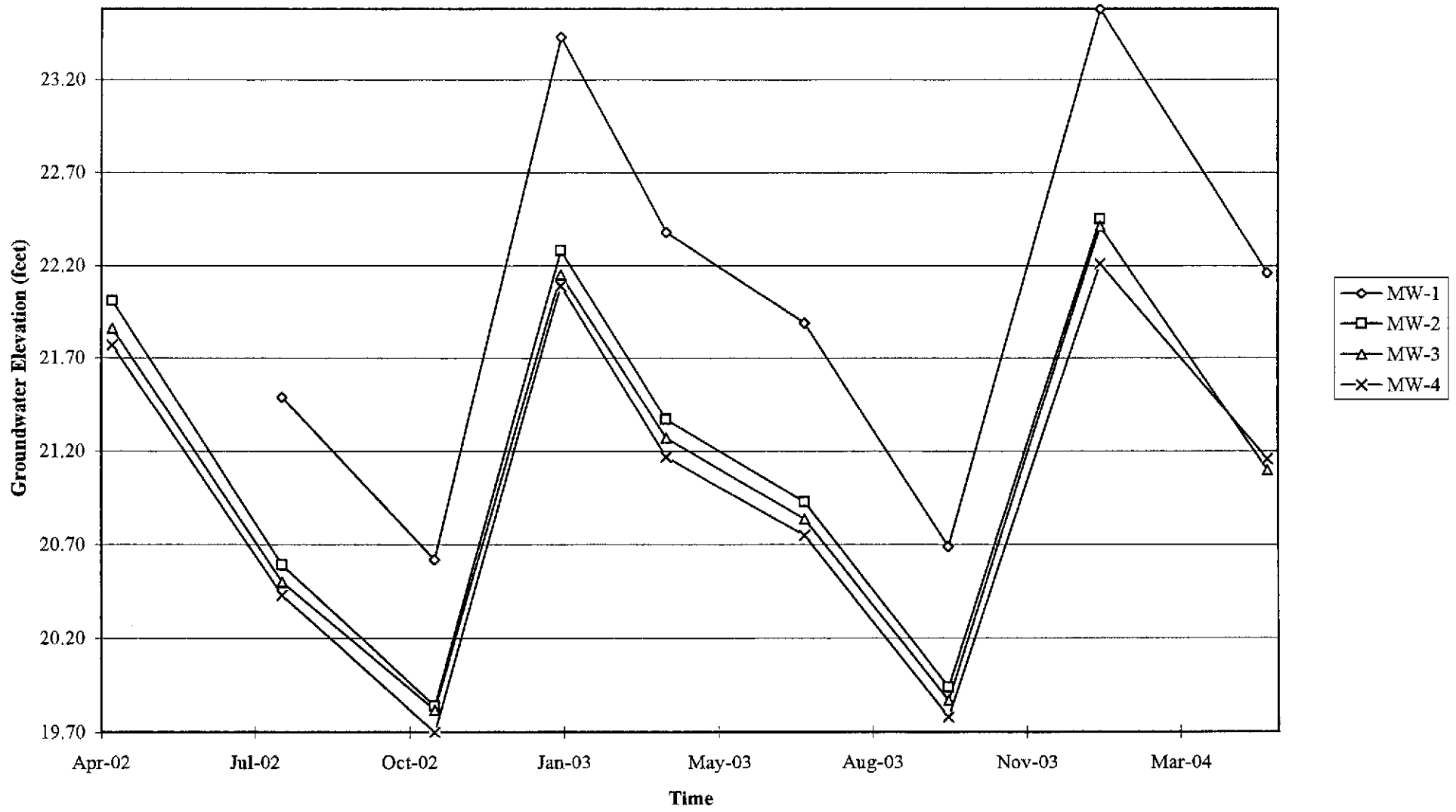
**FIGURE 5**

# GRAPHS

Graph 1  
MTBE Concentrations vs. Time  
76 Station 7124



Graph 2  
Hydrograph  
76 Station 7124





## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

### **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage, or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

### **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurement are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

## **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, and the samplers initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

## **Sequence of Gauging, Purging, and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least-affected well and ending with the well that has highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected well to the most-affected well.

## **Decontamination**

In order to reduce the possibility of cross-contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

## **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.



GROUNDWATER SAMPLING FIELD NOTES

Technician: MOEN

Site: 7124

Project No.: 41050001

Date: 4/26/04

Well No.: MW-4

Purge Method: 0

Depth to Water (feet): 24.92

Depth to Product (feet): 0

Total Depth (feet): 17.20

LPH & Water Recovered (gallons): 0

Water Column (feet): 7.72

Casing Diameter (Inches): 4"

80% Recharge Depth (feet): 18.74

1 Well Volume (gallons): 5

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
<u>647</u>			<u>5</u>	<u>666</u>	<u>22.0</u>	<u>7.79</u>		
			<u>10</u>	<u>594</u>	<u>20.4</u>	<u>8.03</u>		
	<u>1053</u>		<u>15</u>	<u>580</u>	<u>21.0</u>	<u>8.04</u>		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
<u>17.61</u>		<u>15</u>			<u>1100</u>			
Comments:								

Well No.: MW-1  
 Depth to Water (feet): 15.21  
 Total Depth (feet): 24.75  
 Water Column (feet): 9.54  
 80% Recharge Depth (feet): 17.11

Purge Method: 0  
 Depth to Product (feet): 0  
 LPH & Water Recovered (gallons): 0  
 Casing Diameter (Inches): 4"  
 1 Well Volume (gallons): 8

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
<u>1109</u>			<u>6</u>	<u>487</u>	<u>22.4</u>	<u>7.93</u>		
			<u>12</u>	<u>497</u>	<u>20.0</u>	<u>8.68</u>		
	<u>1115</u>		<u>18</u>	<u>491</u>	<u>20.6</u>	<u>8.09</u>		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
<u>17.25</u>		<u>18</u>			<u>1123</u>			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: WJEN

Site: 7124

Project No. 410SD001

Date: 4/26/04

Well No.: MW-3

Purge Method: 0

Depth to Water (feet): 6.63 *16.63 5/19/04*

Depth to Product (feet): 0

Total Depth (feet): 25.14

LPH & Water Recovered (gallons): 0

Water Column (feet): 11.52

Casing Diameter (Inches): 4"

80% Recharge Depth (feet): 10.32

1 Well Volume (gallons): 12

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1133			12	578	21.5	7.45		
			24	566	20.8	8.16		
	1142		36	520	20.4	8.14		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
16.63		86			1350			
Comments: <u>WAIT FOR WELL TO RECHARGE 80%.</u> <u>DID NOT RECOVER WITH IN 2HR.</u>								

Well No.: \_\_\_\_\_

Purge Method: \_\_\_\_\_

Depth to Water (feet): \_\_\_\_\_

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): \_\_\_\_\_

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): \_\_\_\_\_

Casing Diameter (Inches): \_\_\_\_\_

80% Recharge Depth (feet): \_\_\_\_\_

1 Well Volume (gallons): \_\_\_\_\_

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
Static at Time Sampled		Total Gallons Purged			Time Sampled			
Comments: _____								

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 4/26/04 STATION NUMBER: 7124

NAME OF TECH: WDELL CALLED GORDON: A. COLLINS

CALLED PM: 405 NAME OF PM CALLED: \_\_\_\_\_

WELL NUMBER: MW-2 STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

WELL WAS PAVED OVER 2 OR 3 MONTHS  
AGO. GMM BRYANT (STORE MANAGER)

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

**TRC Alton Geoscience**

May 12, 2004

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips # 7124

Site: 10151 East 14th St. Oakland

Attached is our report for your samples received on 04/27/2004 17:30  
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  
06/11/2004 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: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	04/26/2004 13:50	Water	1
MW-4	04/26/2004 11:00	Water	2
MW-1	04/26/2004 11:23	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

05/12/2004 10:45



**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

Prep(s): 5030B Test(s): 8260FAB  
 Sample ID: MW-3 Lab ID: 2004-04-0897 - 1  
 Sampled: 04/26/2004 13:50 Extracted: 5/8/2004 15:03  
 Matrix: Water QC Batch#: 2004/05/08-1A.62  
 Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6700	2500	ug/L	50.00	05/08/2004 15:03	g
Benzene	ND	25	ug/L	50.00	05/08/2004 15:03	
Toluene	ND	25	ug/L	50.00	05/08/2004 15:03	
Ethylbenzene	ND	25	ug/L	50.00	05/08/2004 15:03	
Total xylenes	ND	50	ug/L	50.00	05/08/2004 15:03	
tert-Butyl alcohol (TBA)	ND	250	ug/L	50.00	05/08/2004 15:03	
Methyl tert-butyl ether (MTBE)	3900	25	ug/L	50.00	05/08/2004 15:03	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	50.00	05/08/2004 15:03	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	05/08/2004 15:03	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	05/08/2004 15:03	
1,2-DCA	ND	25	ug/L	50.00	05/08/2004 15:03	
EDB	ND	25	ug/L	50.00	05/08/2004 15:03	
Ethanol	ND	2500	ug/L	50.00	05/08/2004 15:03	
<b>Surrogate(s)</b>						
Toluene-d8	97.6	88-110	%	50.00	05/08/2004 15:03	
1,2-Dichloroethane-d4	105.5	76-114	%	50.00	05/08/2004 15:03	

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05/12/2004 10:45

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-4	Lab ID: 2004-04-0897 - 2
Sampled: 04/26/2004 11:00	Extracted: 5/8/2004 15:25
Matrix: Water	QC Batch#: 2004/05/08-1A.62
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6500	1000	ug/L	20.00	05/08/2004 15:25	g
Benzene	ND	10	ug/L	20.00	05/08/2004 15:25	
Toluene	ND	10	ug/L	20.00	05/08/2004 15:25	
Ethylbenzene	ND	10	ug/L	20.00	05/08/2004 15:25	
Total xylenes	ND	20	ug/L	20.00	05/08/2004 15:25	
tert-Butyl alcohol (TBA)	430	100	ug/L	20.00	05/08/2004 15:25	
Methyl tert-butyl ether (MTBE)	240	10	ug/L	20.00	05/08/2004 15:25	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	20.00	05/08/2004 15:25	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	20.00	05/08/2004 15:25	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	20.00	05/08/2004 15:25	
1,2-DCA	ND	10	ug/L	20.00	05/08/2004 15:25	
EDB	ND	10	ug/L	20.00	05/08/2004 15:25	
Ethanol	ND	1000	ug/L	20.00	05/08/2004 15:25	
<b>Surrogate(s)</b>						
Toluene-d8	95.0	88-110	%	20.00	05/08/2004 15:25	
1,2-Dichloroethane-d4	101.2	76-114	%	20.00	05/08/2004 15:25	

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05/12/2004 10:45

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2004-04-0897 - 3
Sampled: 04/26/2004 11:23	Extracted: 5/10/2004 20:29
Matrix: Water	QC Batch#: 2004/05/10-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/10/2004 20:29	
Benzene	ND	0.50	ug/L	1.00	05/10/2004 20:29	
Toluene	ND	0.50	ug/L	1.00	05/10/2004 20:29	
Ethylbenzene	ND	0.50	ug/L	1.00	05/10/2004 20:29	
Total xylenes	ND	1.0	ug/L	1.00	05/10/2004 20:29	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/10/2004 20:29	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/10/2004 20:29	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	05/10/2004 20:29	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	05/10/2004 20:29	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	05/10/2004 20:29	
1,2-DCA	ND	0.50	ug/L	1.00	05/10/2004 20:29	
EDB	ND	0.50	ug/L	1.00	05/10/2004 20:29	
Ethanol	ND	50	ug/L	1.00	05/10/2004 20:29	
<b>Surrogate(s)</b>						
Toluene-d8	99.2	88-110	%	1.00	05/10/2004 20:29	
1,2-Dichloroethane-d4	94.4	76-114	%	1.00	05/10/2004 20:29	

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05/12/2004 10:45

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/05/08-1A.62-056

Water

Test(s): 8260FAB

QC Batch # 2004/05/08-1A.62

Date Extracted: 05/08/2004 10:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/08/2004 10:56	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/08/2004 10:56	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/08/2004 10:56	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/08/2004 10:56	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/08/2004 10:56	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/08/2004 10:56	
1,2-DCA	ND	0.5	ug/L	05/08/2004 10:56	
EDB	ND	0.5	ug/L	05/08/2004 10:56	
Benzene	ND	0.5	ug/L	05/08/2004 10:56	
Toluene	ND	0.5	ug/L	05/08/2004 10:56	
Ethylbenzene	ND	0.5	ug/L	05/08/2004 10:56	
Total xylenes	ND	1.0	ug/L	05/08/2004 10:56	
Ethanol	ND	50	ug/L	05/08/2004 10:56	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.6	76-114	%	05/08/2004 10:56	
Toluene-d8	89.8	88-110	%	05/08/2004 10:56	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

05/12/2004 10:45

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/05/10-1B.64-014

Water

Test(s): 8260FAB

QC Batch # 2004/05/10-1B.64

Date Extracted: 05/10/2004 19:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/10/2004 19:14	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/10/2004 19:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/10/2004 19:14	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/10/2004 19:14	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/10/2004 19:14	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/10/2004 19:14	
1,2-DCA	ND	0.5	ug/L	05/10/2004 19:14	
EDB	ND	0.5	ug/L	05/10/2004 19:14	
Benzene	ND	0.5	ug/L	05/10/2004 19:14	
Toluene	ND	0.5	ug/L	05/10/2004 19:14	
Ethylbenzene	ND	0.5	ug/L	05/10/2004 19:14	
Total xylenes	ND	1.0	ug/L	05/10/2004 19:14	
Ethanol	ND	50	ug/L	05/10/2004 19:14	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.0	76-114	%	05/10/2004 19:14	
Toluene-d8	97.8	88-110	%	05/10/2004 19:14	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

05/12/2004 10:45

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/05/08-1A.62**

LCS 2004/05/08-1A.62-018

Extracted: 05/08/2004

Analyzed: 05/08/2004 11:18

LCSD 2004/05/08-1A.62-033

Extracted: 05/08/2004

Analyzed: 05/08/2004 10:33

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.0	20.3	25	92.0	81.2	12.5	65-165	20		
Benzene	22.7	22.9	25	90.8	91.6	0.9	69-129	20		
Toluene	22.0	23.4	25	88.0	93.6	6.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	499	496	500	99.8	99.2		76-114			
Toluene-d8	481	510	500	96.2	102.0		88-110			

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05/12/2004 10:45

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/05/10-1B.64**

LCS 2004/05/10-1B.64-030

Extracted: 05/10/2004

Analyzed: 05/10/2004 18:30

LCSD 2004/05/10-1B.64-052

Extracted: 05/10/2004

Analyzed: 05/10/2004 18:52

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.4	24.0	25	93.6	96.0	2.5	65-165	20		
Benzene	22.2	23.8	25	88.8	95.2	7.0	69-129	20		
Toluene	22.4	23.8	25	89.6	95.2	6.1	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	476	465	500	95.2	93.0		76-114			
Toluene-d8	484	491	500	96.8	98.2		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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05/12/2004 10:45

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 7124

Received: 04/27/2004 17:30

Site: 10151 East 14th St. Oakland

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Legend and Notes

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**Analysis Flag**

o

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

**Result Flag**

g

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



STL San Francisco

### Sample Receipt Checklist

Submission #: 2004- 04 - 0897

Checklist completed by: (initials) JM Date: 04/29/04

Courier name:  STL San Francisco  Client ABC

Custody seals intact on shipping container/samples Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present? Yes  No \_\_\_

Chain of custody signed when relinquished and received? Yes  No \_\_\_

Chain of custody agrees with sample labels? Yes  No \_\_\_

Samples in proper container/bottle? Yes  No \_\_\_

Sample containers intact? Yes  No \_\_\_

Sufficient sample volume for indicated test? Yes  No \_\_\_

All samples received within holding time? Yes  No \_\_\_

Container/Temp Blank temperature in compliance ( $4^{\circ}\text{C} \pm 2$ )? Temp: 3.0<sup>o</sup>C Yes  No \_\_\_

Ice Present Yes  No \_\_\_

Water - VOA vials have zero headspace? No VOA vials submitted Yes  No \_\_\_

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~ O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc - Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

**Comments:** \_\_\_\_\_

### Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/04

Client contacted:  Yes  No

Summary of discussion: \_\_\_\_\_

Corrective Action (per PM/Client): \_\_\_\_\_

STL-San Francisco

# ConocoPhillips Chain Of Custody Record

85243

1220 Quarry Lane  
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS  
Attn: Dee Hutchinson  
3611 South Harbor, Suite 200  
Santa Ana, CA. 92704

**2004-04-0897**

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 4/26/04  
PAGE: 2 of 1

SAMPLING COMPANY: <b>TRC</b>		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER <b>7124</b>		GLOBAL ID NO.: <b>none</b>
ADDRESS: <b>21 Technology Drive, Irvine CA 92618</b>			SITE ADDRESS (Street and City): <b>10151 EAST 14TH ST. OAKLAND</b>		CONOCOPHILLIPS SITE MANAGER: <b>Thomas Kosek</b> <b>GADAR HENRIQUEZ</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Anju Farfan</b>			EDF DELIVERABLE TO (RP or Designee): <b>Peter Thomson, TRC</b> <b>pthomson@trcsolutions.com</b>		PHONE NO.: <b>949-341-7408</b>
TELEPHONE: <b>949-341-7440</b>	FAX: <b>949-753-0111</b>	E-MAIL: <b>afarfan@trcsolutions.com</b>	E-MAIL: <b>LAB USE ONLY</b>		

SAMPLER NAME(S) (Print): <b>MOBIL</b>	CONSULTANT PROJECT NUMBER <b>41050001/FA20</b>	<b>REQUESTED ANALYSES</b>			
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TURNAROUND TIME (CALENDAR DAYS):  
 14 DAYS  
 7 DAYS  
 72 HOURS  
 48 HOURS  
 24 HOURS  
 LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED

\* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead	Total DSTLC	DSTCLP	TPPH BY SUDO	BTEX INTER BY SUDO	8 OXYGEN BY SUDO	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes  <b>3.0°C</b>	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																		
	MW-3	4/26/04	1350	GW	3																
	MW-4		160																		
	MW-1		1123																		

Relinquished by: (Signature) 	Received by: (Signature) <b>refrigerator</b>	Date: <b>04-26-04</b>	Time:
Relinquished by: (Signature) 	Received by: (Signature) <b>Stev</b>	Date: <b>4/27/04</b>	Time: <b>1030</b>
Relinquished by: (Signature) <b>Stev 4/27/04 1730</b>	Received by: (Signature) <b>Nounak</b>	Date: <b>4/27/04</b>	Time: <b>1730</b>

## **STATEMENTS**

### **Purge Water Transport and Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum for transportation and disposal by Filter Recycling, Inc.

## **LIMITATIONS**

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.