

RO 2444



Alameda

NOV 8 2004

76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

November 15, 2004

RECEIVED
NOV 15 2004

BY:

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Document Transmittal**
Fuel Leak Case
76 Station #7124
10151 International Blvd.
Oakland, CA

Dear Mr. Hwang:

Please find attached Secor's *Quarterly Summary Report, dated 11/15/04*, and TRC's *Quarterly Monitoring Report, dated 09/27/04* for the above referenced site. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or report is true and correct.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

Thomas H. Kosel
Site Manger, Risk Management and Remediation
ConocoPhillips
76 Broadway, Sacramento, CA 95818

Attachment

cc: Gavan Heinrich, Secor

SECOR

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
916-861-0400 TEL
916-861-0430 FAX

Alameda County

NOV 9 8 2004

Environmental Health

November 15, 2004

Mr. Donald Hwang
Alameda County Environmental Health Services
1131 Harbor Bay Parkway Suite 250
Alameda, CA 94502

RE: **Quarterly Summary Report-Third Quarter 2004**
SECOR Project No.: 77CP.60008.01.7124

Dear Mr. Hwang:

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 International Blvd
Oakland, California

Sincerely,
SECOR International Incorporated



M. Gavan Heinrich
Associate Geologist

Attachment 1 - QUARTERLY MONITORING REPORT JULY THROUGH SEPTEMBER 2004

cc: Mr. Thomas Kosel, ConocoPhillips

**QUARTERLY SUMMARY REPORT
Third Quarter 2004**

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

City/County ID #: Oakland

County: Alameda

Alameda County

NOV 23 2004

Environmental Health

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

During third quarter, 2004 SECOR completed a ½-mile radius agency receptor survey and obtained an EDR radius map for the site from Environmental Data Resources, Incorporated. The agency survey identified 2 industrial supply well, 3 cathodic protection wells, and 2 wells of unknown type within the search radius. The survey also identified 12 wells of unknown type that could not be located precisely because the records on file with DWR did not include the this information. These wells may or may not be located within the search radius. The EDR radius

map did not identify any water supply wells within the search radius but did identify two water supply wells within one mile of the site.

MONITORING AND SAMPLING

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

The third quarter monitoring report (Attachment 1) indicates that MW-2 is covered with asphalt and could not be accessed. The well will be restored or repaired, as necessary during fourth quarter

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

October 14, 2004 – SECOR: submitted Work Plan for Additional Off-Site Monitoring Well Installation to Alameda County Department of Environmental Health (ACDEH)

THIS QUARTER ACTIVITIES (Third Quarter 2004)

1. TRC performed groundwater monitoring and sampling event.
2. Submitted work plan for additional off-site well installation
3. Completed agency receptor survey and obtained EDR radius map

NEXT QUARTER ACTIVITIES (Fourth Quarter 2004)

1. Perform groundwater monitoring and sampling event.
2. Install off-site monitoring wells when agency approves work plan and off-Site property access is obtained
3. Inspect and restore or repair MW-2

CONSULTANT: SECOR International Incorporated

**ATTACHMENT
QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2004 (TRC)**

76 Service Station No. 7124
10151 East 14th Street
San Francisco, California
SECOR Project No.: 77CP.60008.01.7124
November 15, 2004



OCT 07 2004
BY:.....

September 27, 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. THOMAS KOSEL

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

RE: QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 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: Gavan Heinrich, SECOR International Inc. (2 copies)

Enclosures
200400/7124R04.QMS.doc



R02444

SECOR
INTERNATIONAL
INCORPORATED

www.secor.com

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
916-861-0400 TEL
916-861-0430 FAX

August 17, 2004

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



RE: **Quarterly Summary Report-Second 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:

<u>Service Station</u>	<u>Location</u>
76 Service Station No. 7124	10151 International Blvd Oakland, California

Sincerely,
SECOR International Incorporated

M. Gavan Heinrich
Associate Geologist

Attachment – Dissolved Contamination Concentration Maps April through June, 2004
(TRC, 2004)

cc: Mr. Thomas Kosel, ConocoPhillips (Bartlesville)

QUARTERLY SUMMARY REPORT Second 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 3rd 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 (Second Quarter 2004)

1. TRC performed groundwater monitoring and sampling event.

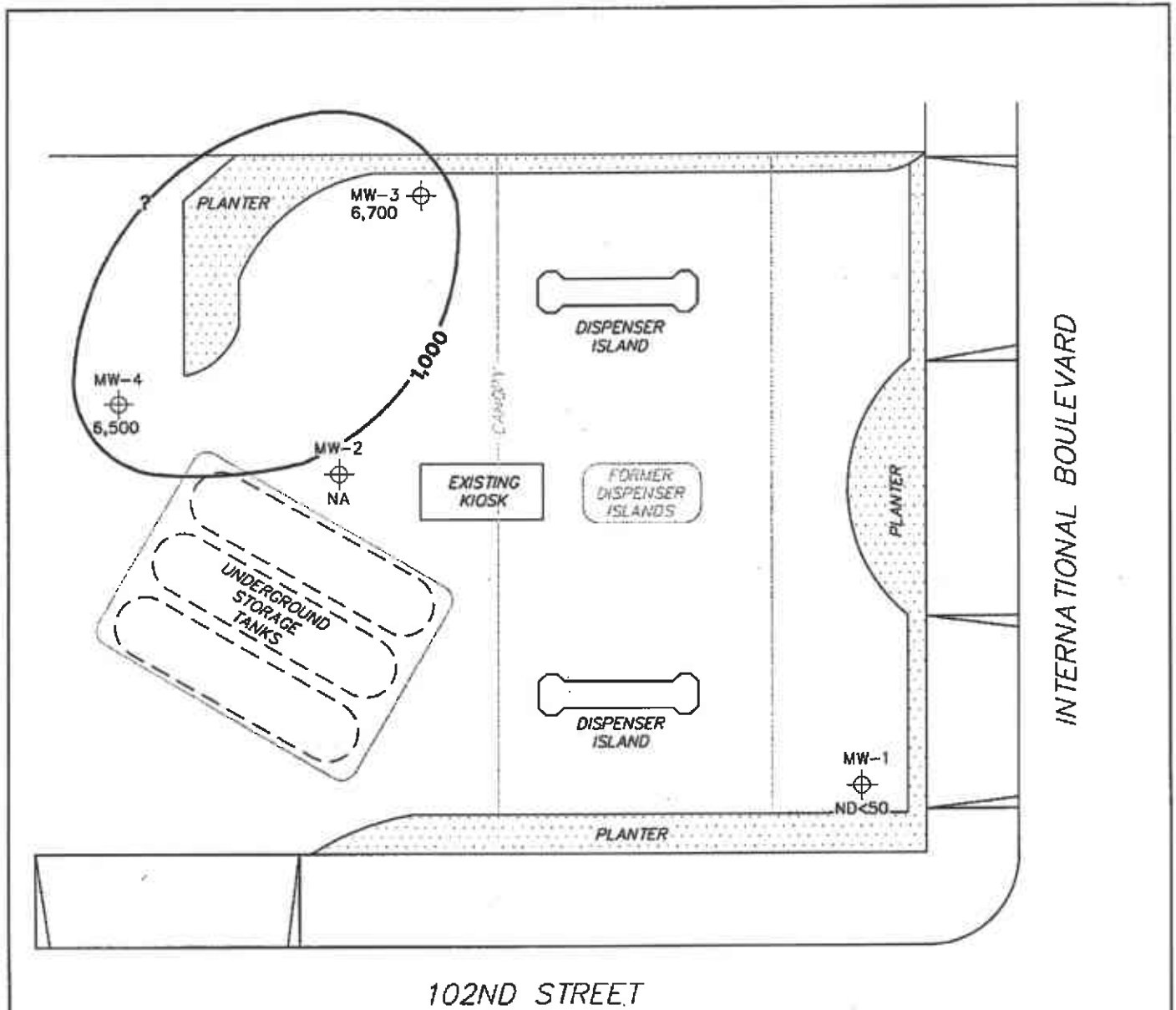
NEXT QUARTER ACTIVITIES (Third Quarter 2004)

1. Perform groundwater monitoring and sampling event.
2. Submit work plan for additional downgradient assessment
3. Obtain EDR report and complete agency receptor survey

CONSULTANT: SECOR International Incorporated

**ATTACHMENT
DISSOLVED CONTAMINATION CONCENTRATION MAP
APRIL THROUGH JUNE 2004 (TRC)**

76 Service Station No. 7124
10151 East 14th Street
San Francisco, California
SECOR Project No.: 77CP.60008.00.7124
August 17, 2004



102ND STREET

INTERNATIONAL BOULEVARD

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

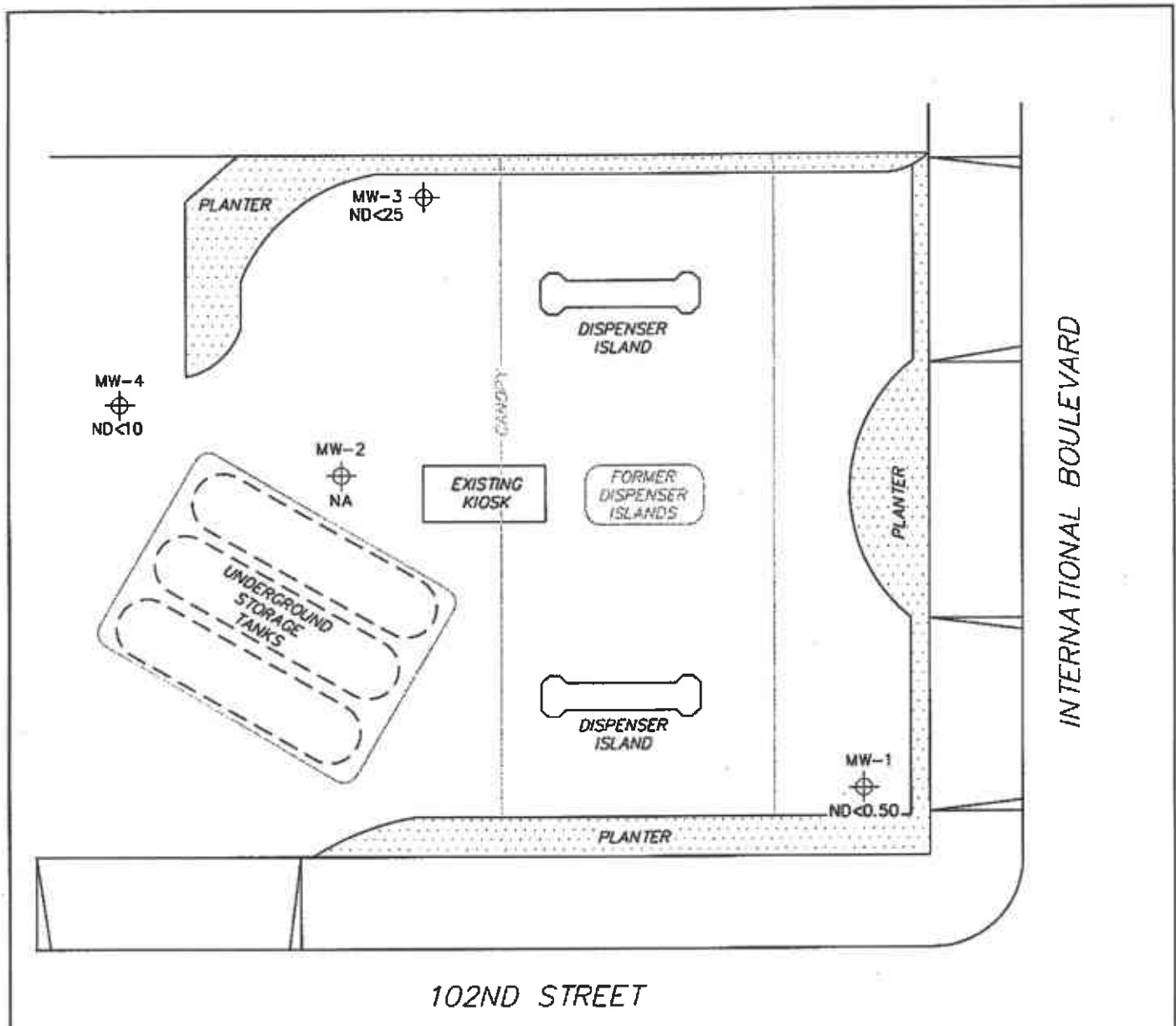
76 Station 7124
10151 International Boulevard
Oakland, California

TRC

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

TRC

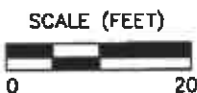
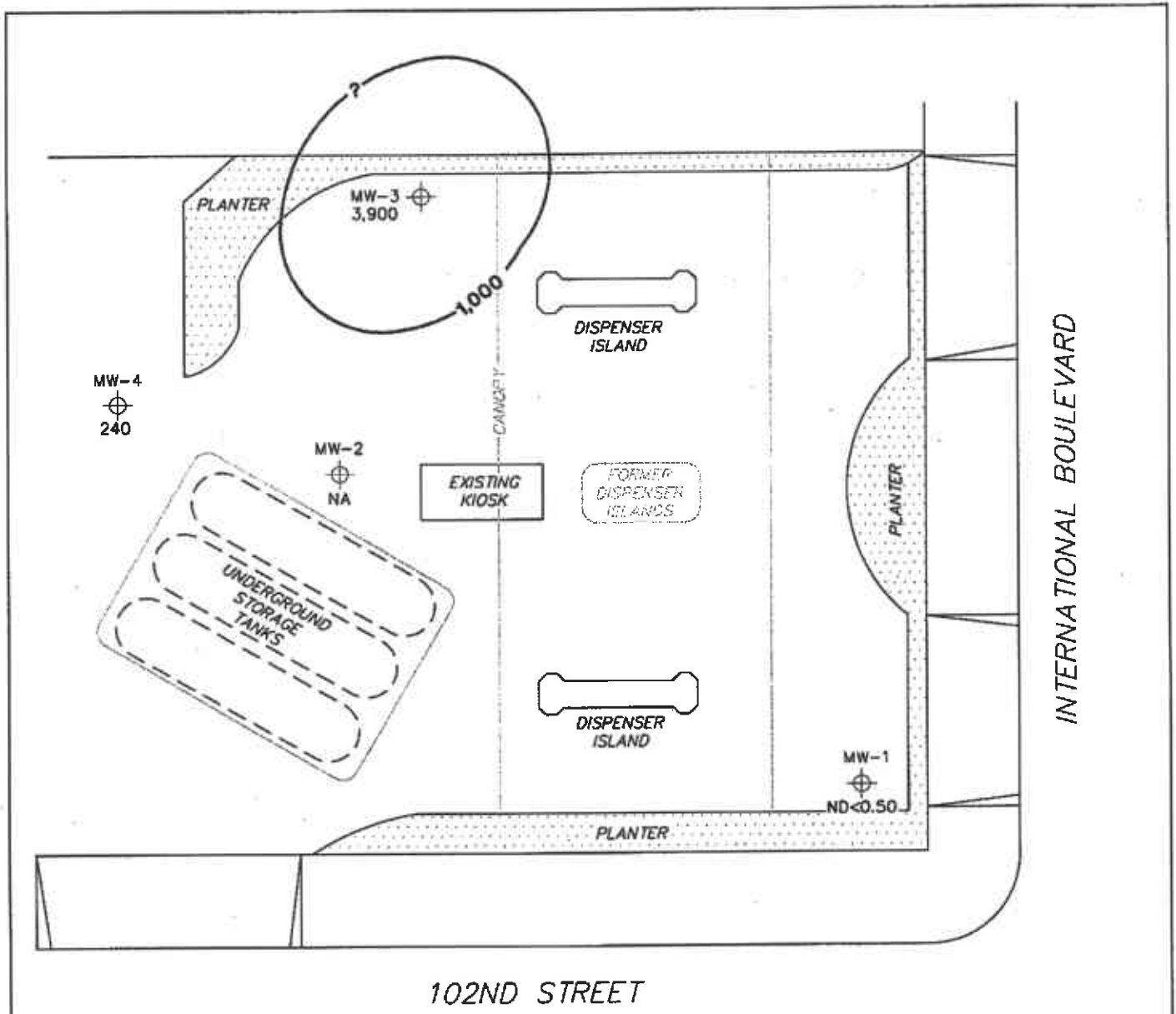


FIGURE 4



102ND STREET

INTERNATIONAL BOULEVARD

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

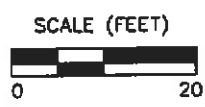


FIGURE 5



**QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2004**

76 STATION 7124
10151 International Blvd.
Oakland, California

Prepared For:

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

By:

A handwritten signature in blue ink, which appears to read 'Dennis E. Jensen', is written over a circular purple professional seal. The seal contains the text: 'CERTIFIED ENGINEERING GEOLOGIST', 'DENNIS E. JENSEN', 'No. EG 1034', 'Exp. 4/05', and 'STATE OF CALIFORNIA' with stars on either side.

Senior Project Geologist, Irvine Operations
September 27, 2004

LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Current Fluid Levels and Selected Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 3: Additional Analytical 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	Groundwater Elevations vs. Time MTBE Concentrations vs. Time
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2004 through September 2004
76 Station 7124
10151 International Blvd.
Oakland, CA

Project Coordinator: **Thomas H. Kosel**
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**
Compiled by: **Valentina Tobon**

Date(s) of Gauging/Sampling Event: **7/22/2004**

Sample Points

Groundwater wells: **4** onsite, **0** offsite Wells gauged: **3** Wells sampled: **3**
Purging method: **Diaphragm pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **16.43 feet** Maximum: **18.34 feet**
Average groundwater elevation (relative to available local datum): **20.35 feet**
Average change in groundwater elevation since previous event: **-1.12 feet**
Interpreted groundwater gradient and flow direction:
 Current event: **0.009 ft/ft, west**
 Previous event: **0.01 ft/ft, northwest (4/26/2004)**

Selected Laboratory Results

Wells with detected **Benzene**: **0** Wells above MCL (1.0 µg/l): **n/a**
 Maximum reported benzene concentration: **n/a**

Wells with **TPPH 8260B** **2** Maximum: **18,000 µg/l (MW-4)**
Wells with **MTBE** **2** Maximum: **980 µg/l (MW-3)**

Notes:

MW-2=Covered with asphalt,

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND <	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: $\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})$, where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.
9. Historical data has been validated for this report. Values presented in the following tables supercede those from previous reports.

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 7124 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 22, 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
MW-1 7/22/2004	37.37	16.43	0.00	20.94	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-2 7/22/2004	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
MW-3 7/22/2004	37.72	17.62	0.00	20.10	-1.00	--	13000	ND<25	ND<25	ND<25	ND<50	--	980	
MW-4 7/22/2004	38.36	18.34	0.00	20.02	-1.14	--	18000	ND<10	ND<10	ND<10	ND<20	--	48	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
April 2002 Through July 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
MW-1														
4/8/2002	37.37	14.27	0.00	23.10	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
7/28/2002	37.37	15.88	0.00	21.49	-1.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/3/2002	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	
1/24/2003	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	
4/2/2003	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	
7/1/2003	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	
10/2/2003	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	
1/9/2004	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	
4/26/2004	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	
7/22/2004	37.37	16.43	0.00	20.94	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-2														
4/8/2002	37.87	15.86	0.00	22.01	--	4,400	--	ND<2.5	ND<2.5	6.4	ND<2.5	380	490	
7/28/2002	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	
11/3/2002	37.87	18.03	0.00	19.84	-0.75	--	3,800	ND<5.0	ND<5.0	ND<5.0	ND<10	--	72	
1/24/2003	37.87	15.59	0.00	22.28	2.44	--	410	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	490	
4/2/2003	37.87	16.50	0.00	21.37	-0.91	--	1,000	ND<5.0	ND<5.0	ND<5.0	ND<10	--	180	
7/1/2003	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	
10/2/2003	37.87	17.93	0.00	19.94	-0.99	--	6900	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
1/9/2004	37.87	15.42	0.00	22.45	2.51	--	1000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	300	
4/26/2004	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
7/22/2004	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
MW-3														
4/8/2002	37.72	15.86	0.00	21.86	--	8,700	--	65	ND<25	400	ND<25	6,500	8,300	
7/28/2002	37.72	17.22	0.00	20.50	-1.36	--	4,500	ND<25	ND<25	ND<25	ND<50	--	1,100	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
April 2002 Through July 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
MW-3 continued														
11/3/2002	37.72	17.90	0.00	19.82	-0.68	--	25,000	ND<5.0	ND<5.0	25	ND<10	--	470	
1/24/2003	37.72	15.57	0.00	22.15	2.33	--	6,000	ND<25	ND<25	94	ND<50	--	10,000	
4/2/2003	37.72	16.45	0.00	21.27	-0.88	--	130,000	ND<100	ND<100	ND<100	ND<200	--	4,400	
7/1/2003	37.72	16.88	0.00	20.84	-0.43	--	9,400	ND<10	ND<10	ND<10	ND<20	--	2,200	
10/2/2003	37.72	17.85	0.00	19.87	-0.97	--	73000	ND<50	ND<50	ND<50	ND<100	--	460	
1/9/2004	37.72	15.31	0.00	22.41	2.54	--	8700	ND<25	ND<25	98	ND<50	--	3800	
4/26/2004	37.72	16.62	0.00	21.10	-1.31	--	6700	ND<25	ND<25	ND<25	ND<50	--	3900	
7/22/2004	37.72	17.62	0.00	20.10	-1.00	--	13000	ND<25	ND<25	ND<25	ND<50	--	980	
MW-4														
4/8/2002	38.36	16.59	0.00	21.77	--	13,000	--	ND<5.0	ND<5.0	28	ND<5.0	790	980	
7/28/2002	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	
11/3/2002	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	
1/24/2003	38.36	16.27	0.00	22.09	2.39	--	ND<1,000	ND<10	ND<10	ND<10	ND<20	--	1,000	
4/2/2003	38.36	17.19	0.00	21.17	-0.92	--	130,000	ND<100	ND<100	ND<100	ND<200	--	ND<400	
7/1/2003	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	
10/2/2003	38.36	18.58	0.00	19.78	-0.97	--	7100	ND<10	ND<10	ND<10	ND<20	--	70	
1/9/2004	38.36	16.15	0.00	22.21	2.43	--	18000	ND<10	ND<10	ND<10	ND<20	--	530	
4/26/2004	38.36	17.20	0.00	21.16	-1.05	--	6500	ND<10	ND<10	ND<10	ND<20	--	240	
7/22/2004	38.36	18.34	0.00	20.02	-1.14	--	18000	ND<10	ND<10	ND<10	ND<20	--	48	

Table 3
ADDITIONAL ANALYTICAL 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)
MW-1									
7/28/2002	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--
11/3/2002	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--
1/24/2003	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--
4/2/2003	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--
7/1/2003	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--
10/2/2003	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500	--
1/9/2004	ND<2.0	ND<2	ND<2	ND<100	ND<2	ND<2	--	ND<500	ND<2
4/26/2004	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<50	--
7/22/2004	--	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<50	ND<0.50
MW-2									
4/8/2002	ND<40	ND<40	ND<40	ND<2,000	ND<40	ND<40	ND<10,000	--	--
7/28/2002	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	--
11/3/2002	ND<20	ND<20	ND<20	ND<1,000	ND<20	ND<20	ND<5,000	--	--
1/24/2003	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	--
4/2/2003	ND<20	ND<20	ND<20	ND<1,000	ND<20	ND<20	ND<5,000	--	--
7/1/2003	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	--
10/2/2003	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500	--
1/9/2004	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	--	ND<2500	ND<10
MW-3									
10/2/2003	ND<200	ND<200	ND<200	ND<10000	ND<200	ND<200	--	ND<50000	--
1/9/2004	ND<100	ND<100	ND<100	ND<5000	ND<100	ND<100	--	ND<25000	ND<100
4/26/2004	ND<25	ND<25	ND<25	ND<250	ND<50	ND<25	--	ND<2500	--
7/22/2004	--	ND<25	ND<25	ND<250	ND<50	ND<25	--	ND<2500	ND<25
MW-4									
4/8/2002	ND<100	ND<100	ND<100	ND<5,000	ND<100	ND<100	ND<25,000	--	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7124

Date Sampled	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8015B	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)
MW-4 continued									
7/28/2002	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	--
11/3/2002	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--
1/24/2003	ND<40	ND<40	ND<40	ND<2,000	ND<40	ND<40	ND<10,000	--	--
4/2/2003	ND<400	ND<400	ND<400	ND<20,000	ND<400	ND<400	ND<100,000	--	--
7/1/2003	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	--
10/2/2003	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	--	ND<10000	--
1/9/2004	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	--	ND<10000	ND<40
4/26/2004	ND<10	ND<10	ND<10	430	ND<20	ND<10	--	ND<1000	--
7/22/2004	--	ND<10	ND<10	ND<100	ND<20	ND<10	--	ND<1000	ND<10

FIGURES



SCALE 1:24,000



VICINITY MAP

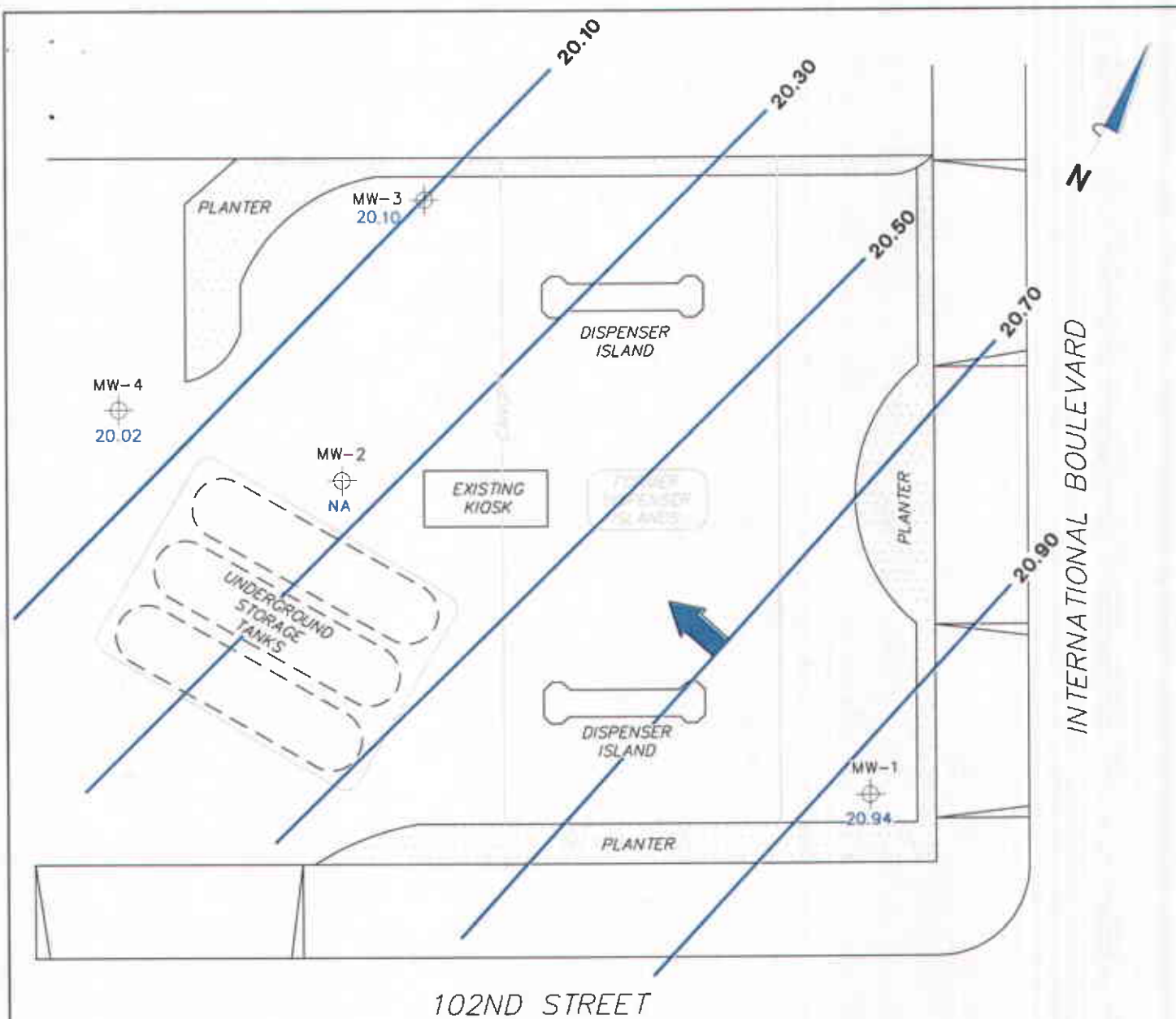
76 Station 7124
10151 International Boulevard
Oakland, California

SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps
Oakland West Quadrangle

FIGURE 1




TRC



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

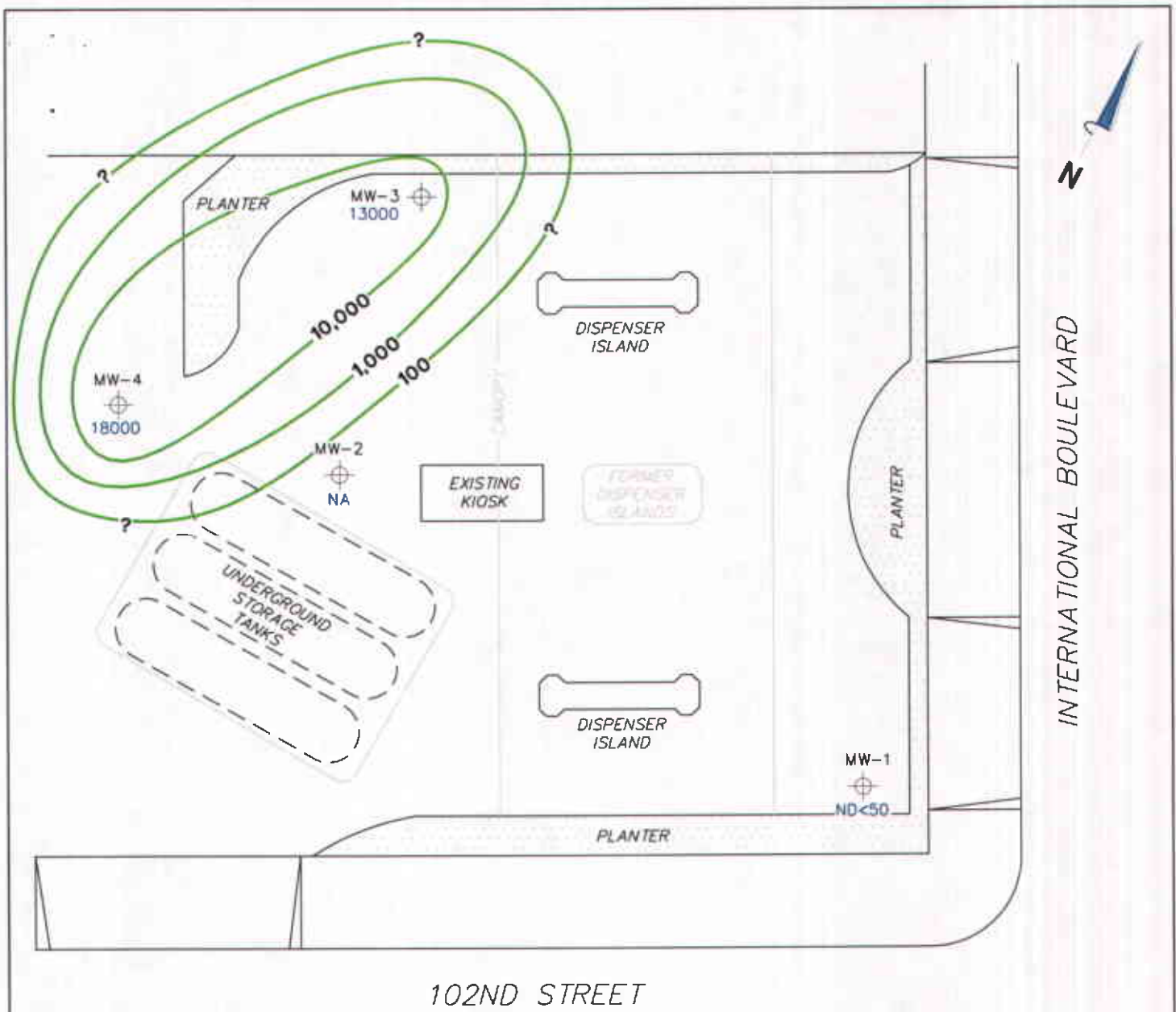
- MW-4  Monitoring Well with Groundwater Elevation (feet)
- 23.20  Groundwater Elevation Contour
-  General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
July 22, 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)

—10,000— Dissolved-Phase TPPH Contour (µg/l)

DISSOLVED-PHASE TPPH CONCENTRATION MAP July 22, 2004

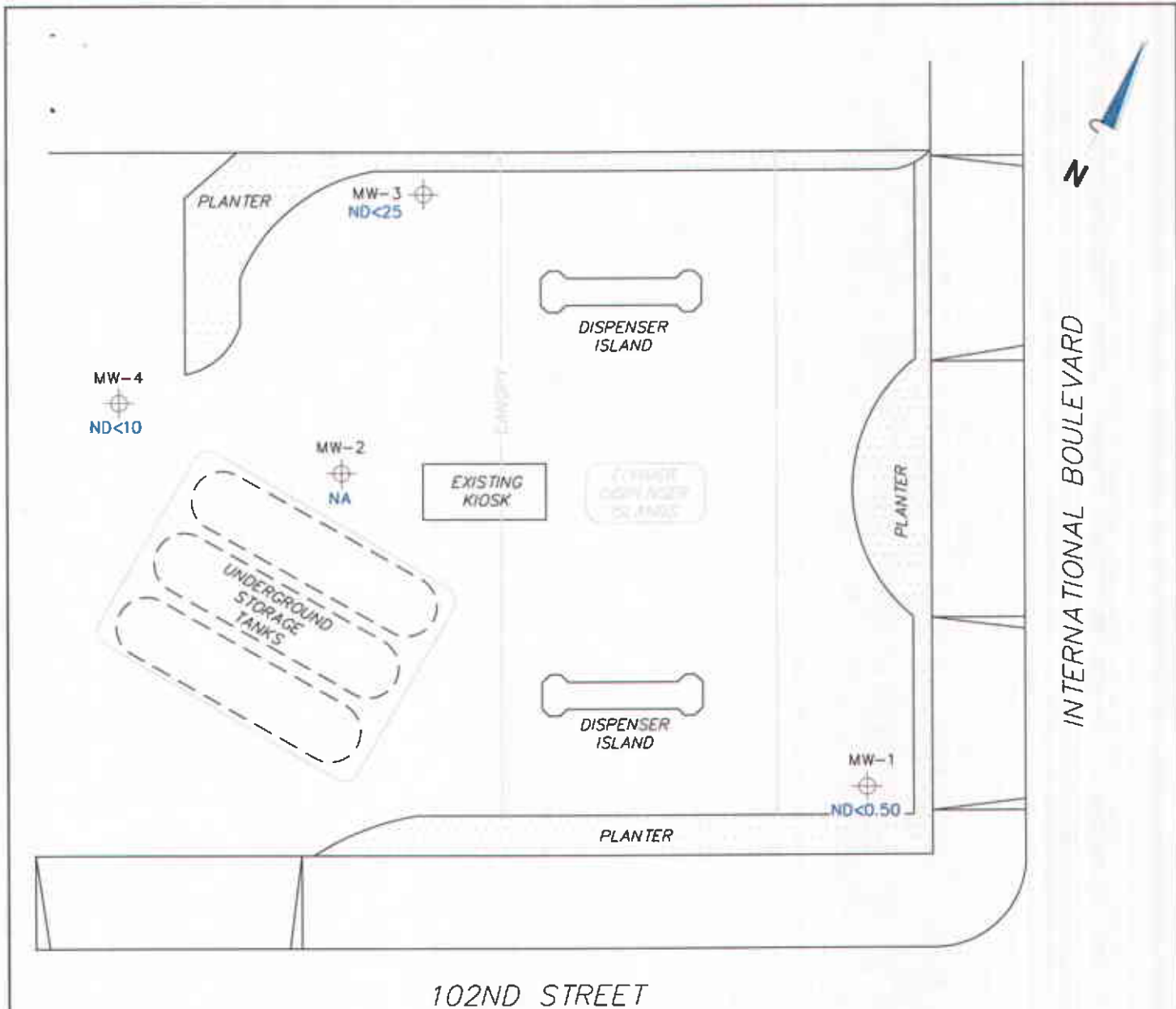
76 Station 7124
10151 International Boulevard
Oakland, California



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
 July 22, 2004**

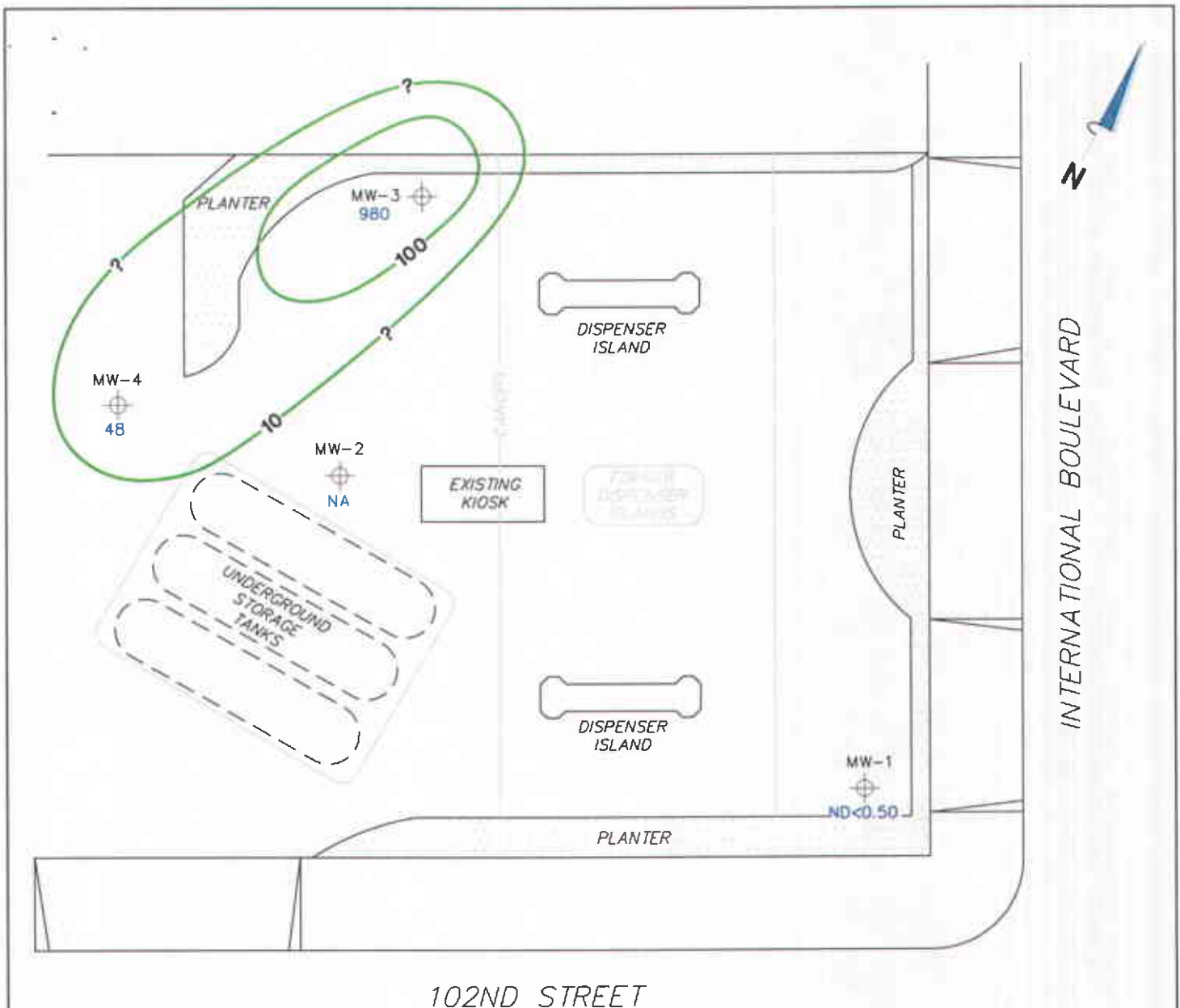
76 Station 7124
 10151 International Boulevard
 Oakland, California



SCALE (FEET)



FIGURE 4



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. $\mu\text{g/l}$ = 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 ($\mu\text{g/l}$)

Dissolved-Phase MTBE Contour ($\mu\text{g/l}$)

DISSOLVED-PHASE MTBE CONCENTRATION MAP
July 22, 2004

76 Station 7124
 10151 International Boulevard
 Oakland, California

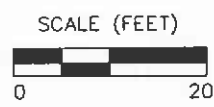
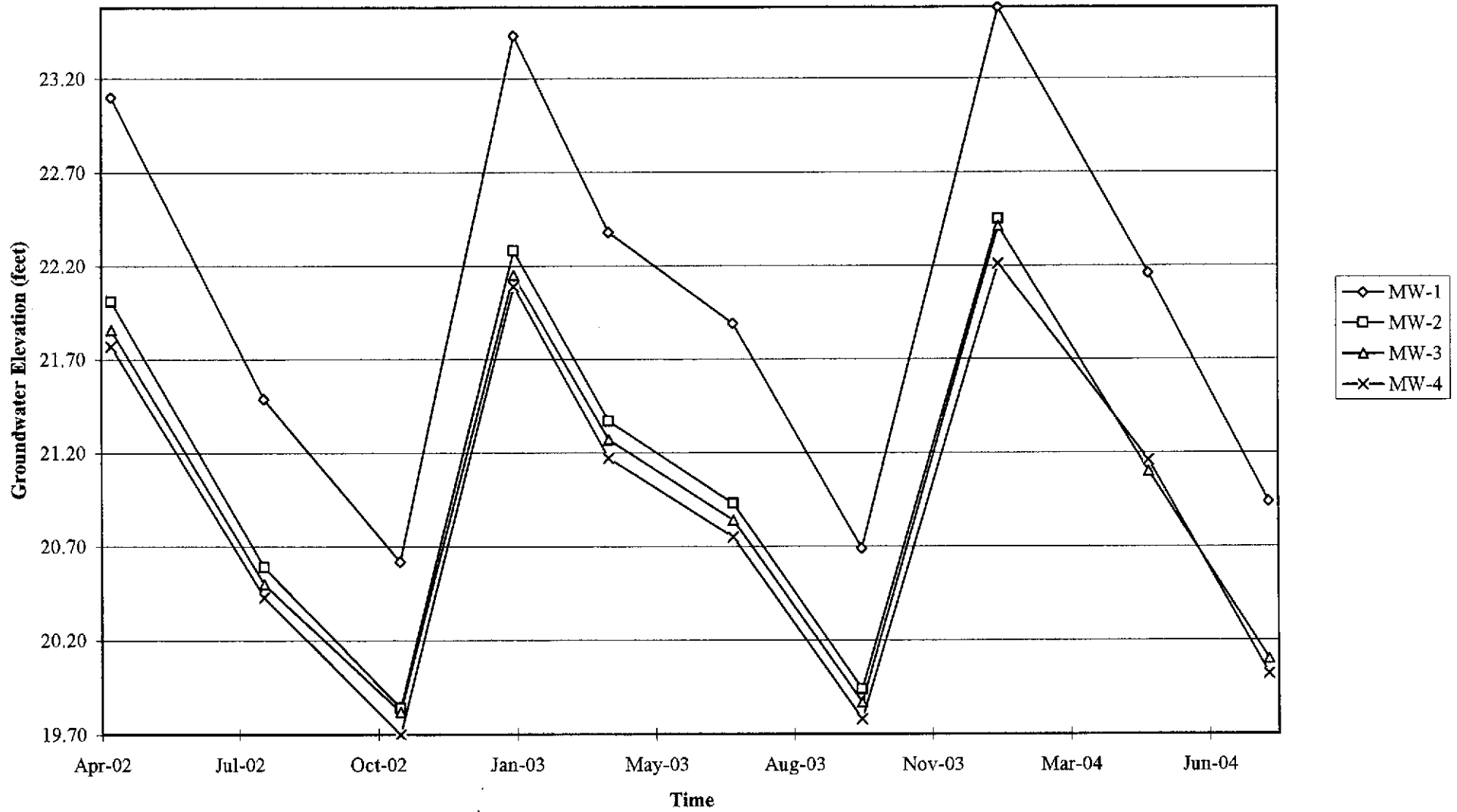


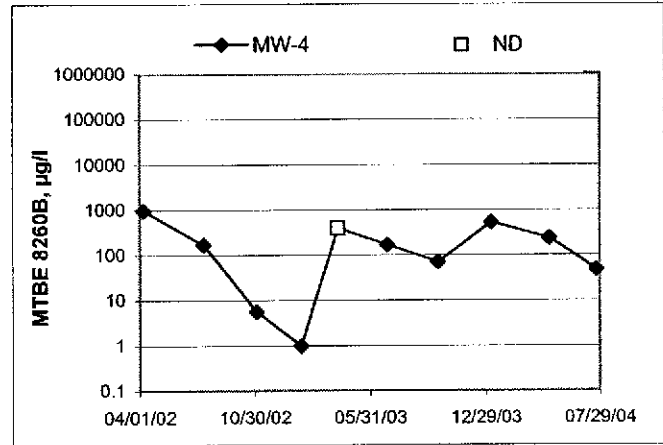
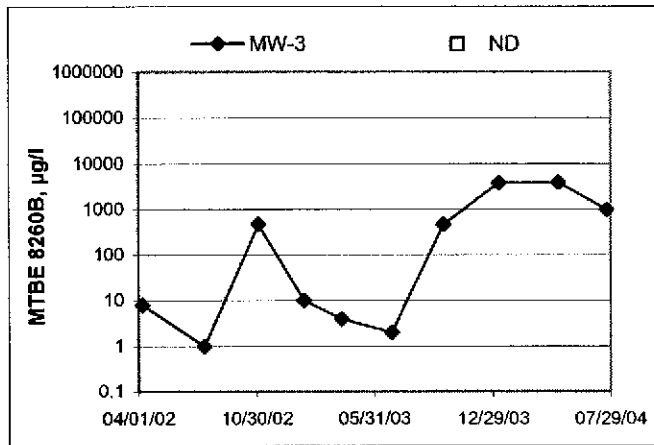
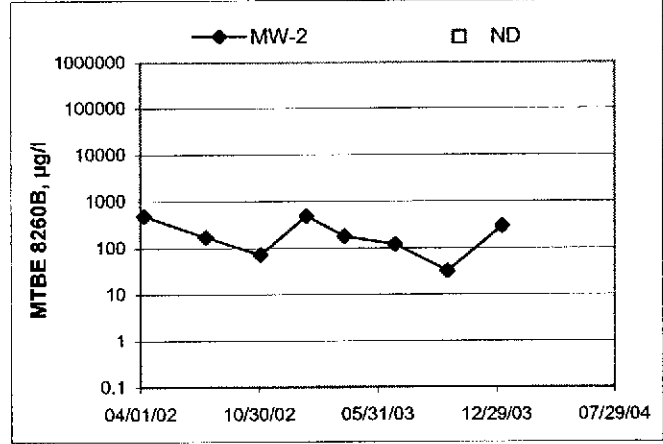
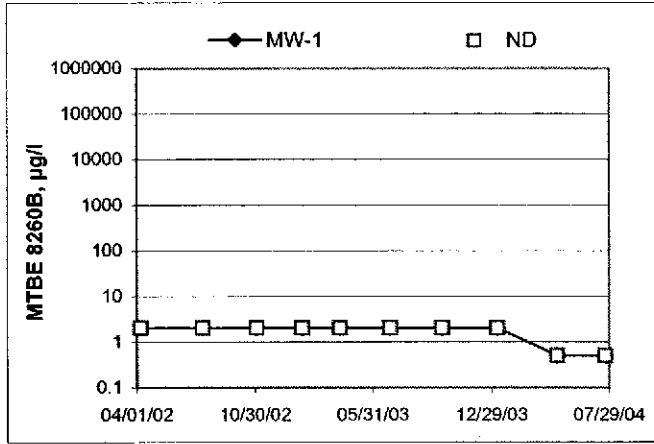
FIGURE 5

GRAPHS

Groundwater Elevations vs. Time
76 Station 7124



MTBE 8260B Concentrations vs Time
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: David Tenney
 Site: 7124 Project No.: 410500-01/FA20 Date: 7-22-04
 Well No.: MW-3 Purge Method: diaphragm 0969
 Depth to Water (feet): 17.62 Depth to Product (feet): 0
 Total Depth (feet): 29.06 LPH & Water Recovered (gallons): 0
 Water Column (feet): 7.44 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): 19.11 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.
1319			5	774	21.7	6.44		
			10	574	20.5	6.60		
	1323		15	527	20.3	6.50		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
18.20		15			1327			
Comments:								

Well No.: MW-1 Purge Method: diaphragm 0969
 Depth to Water (feet): 16.43 Depth to Product (feet): 0
 Total Depth (feet): 24.74 LPH & Water Recovered (gallons): 0
 Water Column (feet): 8.31 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): 18.09 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.
1333			5	456	21.4	6.77		
			10	441	20.2	6.70		
	1341		15	436	20.2	6.56		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
17.61		15			1344			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Site: 7124
 Technician: David Terney
 Project No.: 410500-01/FA20
 Date: 7-22-04
 Well No.: MW-4
 Purge Method: diaphragm 0969
 Depth to Water (feet): 18.34
 Depth to Product (feet): 0
 Total Depth (feet): 29.88
 LPH & Water Recovered (gallons): 0
 Water Column (feet): 6.54
 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): 19.65
 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1349			4	435	21.4	6.69		
			8	460	20.6	6.74		
	1355		12	449	21.3	6.47		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
18.83		12			1357			
Comments:								

Well No.: _____
 Depth to Water (feet): _____
 Total Depth (feet): _____
 Water Column (feet): _____
 80% Recharge Depth (feet): _____
 Purge Method: _____
 Depth to Product (feet): _____
 LPH & Water Recovered (gallons): _____
 Casing Diameter (Inches): _____
 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: 7-22-04 STATION NUMBER: 7124

NAME OF TECH: David Tenney CALLED ~~GORDON~~: mike

CALLED PM: _____ NAME OF PM CALLED: _____

WELL NUMBER: MW-2 STATEMENT FROM PM _____ OR TECH X

Well is paved over

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

TRC Alton Geoscience- Irvine

August 06, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips # 7124

Site: 10151 East 14th Street Oakland

Attached is our report for your samples received on 07/23/2004 09:57
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
09/06/2004 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

Sincerely,



Dimple Sharma
Project Manager

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

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/22/2004 13:44	Water	1
MW-3	07/22/2004 13:27	Water	2
MW-4	07/22/2004 13:57	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

08/05/2004 16:13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2004-07-0752 - 1
Sampled: 07/22/2004 13:44	Extracted: 8/4/2004 02:01
Matrix: Water	QC Batch#: 2004/08/03-2C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/04/2004 02:01	
Benzene	ND	0.50	ug/L	1.00	08/04/2004 02:01	
Toluene	ND	0.50	ug/L	1.00	08/04/2004 02:01	
Ethylbenzene	ND	0.50	ug/L	1.00	08/04/2004 02:01	
Total xylenes	ND	1.0	ug/L	1.00	08/04/2004 02:01	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	08/04/2004 02:01	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	08/04/2004 02:01	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	08/04/2004 02:01	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	08/04/2004 02:01	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	08/04/2004 02:01	
1,2-DCA	ND	0.50	ug/L	1.00	08/04/2004 02:01	
EDB	ND	0.50	ug/L	1.00	08/04/2004 02:01	
Ethanol	ND	50	ug/L	1.00	08/04/2004 02:01	
Surrogate(s)						
1,2-Dichloroethane-d4	106.7	72-128	%	1.00	08/04/2004 02:01	
Toluene-d8	96.9	80-113	%	1.00	08/04/2004 02:01	

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

08/05/2004 16:13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-3 Lab ID: 2004-07-0752 - 2
 Sampled: 07/22/2004 13:27 Extracted: 8/4/2004 02:24
 Matrix: Water QC Batch#: 2004/08/03-2C.66
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	13000	2500	ug/L	50.00	08/04/2004 02:24	g
Benzene	ND	25	ug/L	50.00	08/04/2004 02:24	
Toluene	ND	25	ug/L	50.00	08/04/2004 02:24	
Ethylbenzene	ND	25	ug/L	50.00	08/04/2004 02:24	
Total xylenes	ND	50	ug/L	50.00	08/04/2004 02:24	
tert-Butyl alcohol (TBA)	ND	250	ug/L	50.00	08/04/2004 02:24	
Methyl tert-butyl ether (MTBE)	980	25	ug/L	50.00	08/04/2004 02:24	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	50.00	08/04/2004 02:24	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	08/04/2004 02:24	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	08/04/2004 02:24	
1,2-DCA	ND	25	ug/L	50.00	08/04/2004 02:24	
EDB	ND	25	ug/L	50.00	08/04/2004 02:24	
Ethanol	ND	2500	ug/L	50.00	08/04/2004 02:24	
Surrogate(s)						
1,2-Dichloroethane-d4	117.8	72-128	%	50.00	08/04/2004 02:24	
Toluene-d8	99.5	80-113	%	50.00	08/04/2004 02:24	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-4 Lab ID: 2004-07-0752 - 3
 Sampled: 07/22/2004 13:57 Extracted: 8/4/2004 02:47
 Matrix: Water QC Batch#: 2004/08/03-2C.66
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	18000	1000	ug/L	20.00	08/04/2004 02:47	g
Benzene	ND	10	ug/L	20.00	08/04/2004 02:47	
Toluene	ND	10	ug/L	20.00	08/04/2004 02:47	
Ethylbenzene	ND	10	ug/L	20.00	08/04/2004 02:47	
Total xylenes	ND	20	ug/L	20.00	08/04/2004 02:47	
tert-Butyl alcohol (TBA)	ND	100	ug/L	20.00	08/04/2004 02:47	
Methyl tert-butyl ether (MTBE)	48	10	ug/L	20.00	08/04/2004 02:47	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	20.00	08/04/2004 02:47	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	20.00	08/04/2004 02:47	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	20.00	08/04/2004 02:47	
1,2-DCA	ND	10	ug/L	20.00	08/04/2004 02:47	
EDB	ND	10	ug/L	20.00	08/04/2004 02:47	
Ethanol	ND	1000	ug/L	20.00	08/04/2004 02:47	
Surrogate(s)						
1,2-Dichloroethane-d4	110.8	72-128	%	20.00	08/04/2004 02:47	
Toluene-d8	102.5	80-113	%	20.00	08/04/2004 02:47	

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

08/05/2004 16:13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111
Project: 41050001FA20
Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2004/08/03-2C.66

MB: 2004/08/03-2C.66-042

Date Extracted: 08/03/2004 18:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/03/2004 18:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/03/2004 18:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/03/2004 18:42	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	08/03/2004 18:42	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	08/03/2004 18:42	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	08/03/2004 18:42	
1,2-DCA	ND	0.5	ug/L	08/03/2004 18:42	
EDB	ND	0.5	ug/L	08/03/2004 18:42	
Benzene	ND	0.5	ug/L	08/03/2004 18:42	
Toluene	ND	0.5	ug/L	08/03/2004 18:42	
Ethylbenzene	ND	0.5	ug/L	08/03/2004 18:42	
Total xylenes	ND	1.0	ug/L	08/03/2004 18:42	
Ethanol	ND	50	ug/L	08/03/2004 18:42	
Surrogates(s)					
1,2-Dichloroethane-d4	100.6	72-128	%	08/03/2004 18:42	
Toluene-d8	97.0	80-113	%	08/03/2004 18:42	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/08/03-2C.66

LCS 2004/08/03-2C.66-056

Extracted: 08/03/2004

Analyzed: 08/03/2004 17:56

LCSD 2004/08/03-2C.66-019

Extracted: 08/03/2004

Analyzed: 08/03/2004 18:19

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.3	24.4	25	101.2	97.6	3.6	65-165	20		
Benzene	25.9	25.7	25	103.6	102.8	0.8	69-129	20		
Toluene	25.7	26.4	25	102.8	105.6	2.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	482	460	500	96.4	92.0		72-128			
Toluene-d8	488	498	500	97.6	99.6		80-113			

Sewern 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

08/05/2004 16:13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 7124

Received: 07/23/2004 09:57

Site: 10151 East 14th Street Oakland

Legend and Notes

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- 07 - 0752

Checklist completed by: (initials) JM Date: 07/26/04

Courier name: STL San Francisco Client _____

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 ($4^{\circ}C \pm 2$)?

Temp: 5 °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: HNO₃ HCl H₂SO₄ 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

2004-04-0452

ConocoPhillips Chain Of Custody Record

88099

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

ConocoPhillips Work Order Number:

1634 TRC500

ConocoPhillips Cost Object:

DATE: 7-22-04

PAGE: 1 of 1

SAMPLING COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 7124		GLOBAL ID NO.:
ADDRESS: 21 Technology Drive, Irvine CA 92618		SITE ADDRESS (Street and City): 10191 East 14th Street Oakland			CONOCOPHILLIPS SITE MANAGER: Thomas H. Kosel
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan		EDF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC pthomson@trcsolutions.com		PHONE NO.: 949-341-7408	E-MAIL:
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: afarfan@trcsolutions.com		LAB USE ONLY	
SAMPLER NAME(S) (Print): David Tenney		CONSULTANT PROJECT NUMBER: 41050001/FA20		REQUESTED ANALYSES	

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 <input type="checkbox"/> Total <input type="checkbox"/> DTCLP <input type="checkbox"/>	TPPH by 8260B	BTEX/MTBE by 8260B	80XYS by 8260B	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C°
		DATE	TIME															
	MW-1	7-22	1344	GW	3									X	X	X		50
	MW-3		1327											X	X	X		3 voas w/ HCl
	MW-4		1357											X	X	X		

Relinquished by: (Signature) <i>David Tenney</i>	Received by: (Signature) <i>Refrigerator</i>	Date: 7-22-04	Time: 1730
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 7/23/04 1814	Time: 1814

STATEMENTS

Purge Water 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.