RO 58

ConocoPhillips

76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

August 5, 2005

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

Re: **Document Transmittal**
Fuel Leak Case No. RO0000058
76 Station 6129
3420 35th Avenue
Oakland, California

Dear Mr. Hwang:

Please find attached ATC's *Quarterly Summary Report, dated 7/20/05,* and TRC's *Quarterly Monitoring Report, dated 7/6/05* 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 are 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: Dave Evans, ATC

ATC ASSOCIATES INC.

6602 Owens Dr. Suite 100
Pleasanton, California 94588
www.atc-enviro.com
925.460.5300
Fax 925.463.2559

July 20, 2005

Mr. Donald Hwang
Alameda County Department of Public Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Quarterly Summary Report – Second Quarter 2005
76 Service Station No. 6129 / WNO 4583
3420 35th Avenue
Oakland, CA

Dear Mr. Hwang:

On behalf of ConocoPhillips Company, ATC Associates Inc. is forwarding the quarterly summary report for the above referenced facility.

Sincerely,
ATC ASSOCIATES INC.

for Dave Evans

David A. Evans
Senior Project Manager

Janine Weber-Band, PhD, CEG #2286
Senior Geologist

Attachment: Site Plan
Tables – Groundwater Monitoring and Analytical
Groundwater Monitoring Report, prepared by TRC (July 6, 2005)

Cc: Mr. Thomas Kosel – ConocoPhillips (electronic copy only)

RO 58

QUARTERLY SUMMARY REPORT
Second Quarter 2005

76 Service Station No. 6129 / WNO 4583
3420 35th Avenue
Oakland, CA

City/County ID# Case No. RO# 000058
County: Alameda

BACKGROUND & ACTIVITY

According to Kaprealian Engineering, Inc. (KEI), in 1989, two 10,000-gallon gasoline USTs and one 550-gallon waste oil UST were removed from the site. Analytical results of soil samples collected beneath the former gasoline USTs, used-oil UST and product piping indicated that low concentrations of petroleum hydrocarbons were present in each of the sampling areas. Three groundwater monitoring wells (MW-1 through MW-3) were installed in 1989 to depths of approximately 44 feet below ground surface (bgs).

In 1990, four soil borings (EB1 through EB4) were drilled at the site in the vicinity of MW-3 in an attempt to define the hydrocarbon impact to soil. Based on the results of the soil sampling, approximately 230 cubic yards of soil were excavated from an area between the dispenser islands and around well MW-3 in 1991. Excavation was performed so as to not destroy well MW-3. Analytical results from confirmation soil samples indicated that the majority of the impacted soil had been removed.

On November 12 and 13, 2003, as part of a due diligence investigation, four soil borings (SB-1 and SB-3 through SB-5) were drilled to total depths of approximately 31.5 to 36.5 feet bgs. Proposed boring SB-2 was unable to be installed due to the presence of subsurface utilities and/or structures. Groundwater was encountered in the borings at a depth of approximately 35 feet bgs. Methyl tertiary butyl ether (MtBE) was reported at concentrations varying from 0.37 to 0.41 milligrams per kilogram (mg/kg) in the soil samples collected between 26 and 31 feet bgs. All other constituents were reported below the laboratory reporting limit for the soil samples analyzed. The three existing groundwater wells were sampled on November 13, 2003, and the analytical results indicated the presence of MtBE at concentrations between 240 and 3,700 micrograms per liter (ug/l),with the most elevated concentrations occurring in wells MW-2 (2,100 ug/l) and MW-3 (3,700 ug/l).

SENSITIVE RECEPTORS

A 1,000 foot radius well search was completed as requested on September 28, 2004 by the Alameda County Public Works Agency (ACPWA). The results indicated a 6-inch diameter irrigation well located at 3397 Arkansas St, 800 feet west-northwest of the site drilled in August 1977 to a total depth of 62 feet (water level at 18 feet) owned by Arthur Smith as reported by the Alameda County Health Care Services updated July 30, 1984.

MONITORING AND SAMPLING

Groundwater monitoring and sampling activities were conducted at the site from January 1990 through May 1991. Sampling activities were re-initiated during the third quarter 2004. The monitoring well network is scheduled to be sampled on a quarterly basis.

During the most recent groundwater monitoring event, conducted on May 17, 2005, depth to groundwater ranged from 24.53 feet (MW-2) to 26.56 feet (MW-1) below top of casing (TOC). The groundwater flow direction was toward the west at a gradient of 0.03 ft/ft, consistent with historic events. During the May 2005 sampling event, maximum detectable hydrocarbon concentrations were as follows: TPPH (<1,000 ug/l in MW-3), benzene (<0.50 ug/L in all wells), and MtBE (1,200 ug/l in MW-3). The concentration of dissolved MtBE is decreasing in MW-1 and MW-2. The concentration of dissolved MtBE is fluctuating in MW-3.

REMEDIATION STATUS

In 1991, based on the results from borings EB1 through EB4, approximately 230 cubic yards of soil were excavated from the area between the dispensers and the pumps islands around MW-3.

Remediation is not currently being conducted at the site.

CHARACTERIZATION STATUS

Hydrocarbon concentrations in the soil and groundwater have not been delineated. MtBE in soil and groundwater are above ESL's. Additional assessment activity has been proposed to delineate both the vertical and horizontal extent (up and down gradient) of the MtBE plumes.

Compound	Groundwater ESL (ug/l)	Wells Exceeding ESL	Soil ESL Residential (mg/kg)	Wells Exceeding ESL	Soil ESL Commercial (mg/kg)	Wells Exceeding ESL
Benzene	**1.0**	---	**0.044**	---	0.044	---
Toluene	**40**	---	**2.9**	---	2.9	---
Ethyl benzene	**30**	---	**3.3**	---	3.3	---
Xylenes	**20**	---	**2.3**	---	2.3	---
MtBE	**5.0**	MW-1, MW-2, MW-3	**0.023**	SB1, SB3, SB4, SB5	0.023	---
TPH-g	**100**	---	**100**	---	100	---

RECENT CORRESPONDENCE

1. ATC prepared a Work Plan titled *Work Plan Addendum – Site Assessment Activity*, dated June 13, 2005, to the Alameda County Department of Public Health recommending four monitor wells be installed in addition to three soil borings.

THIS QUARTER ACTIVITIES (Second Quarter 2005)

1. TRC performed the quarterly monitoring and sampling event at the site.

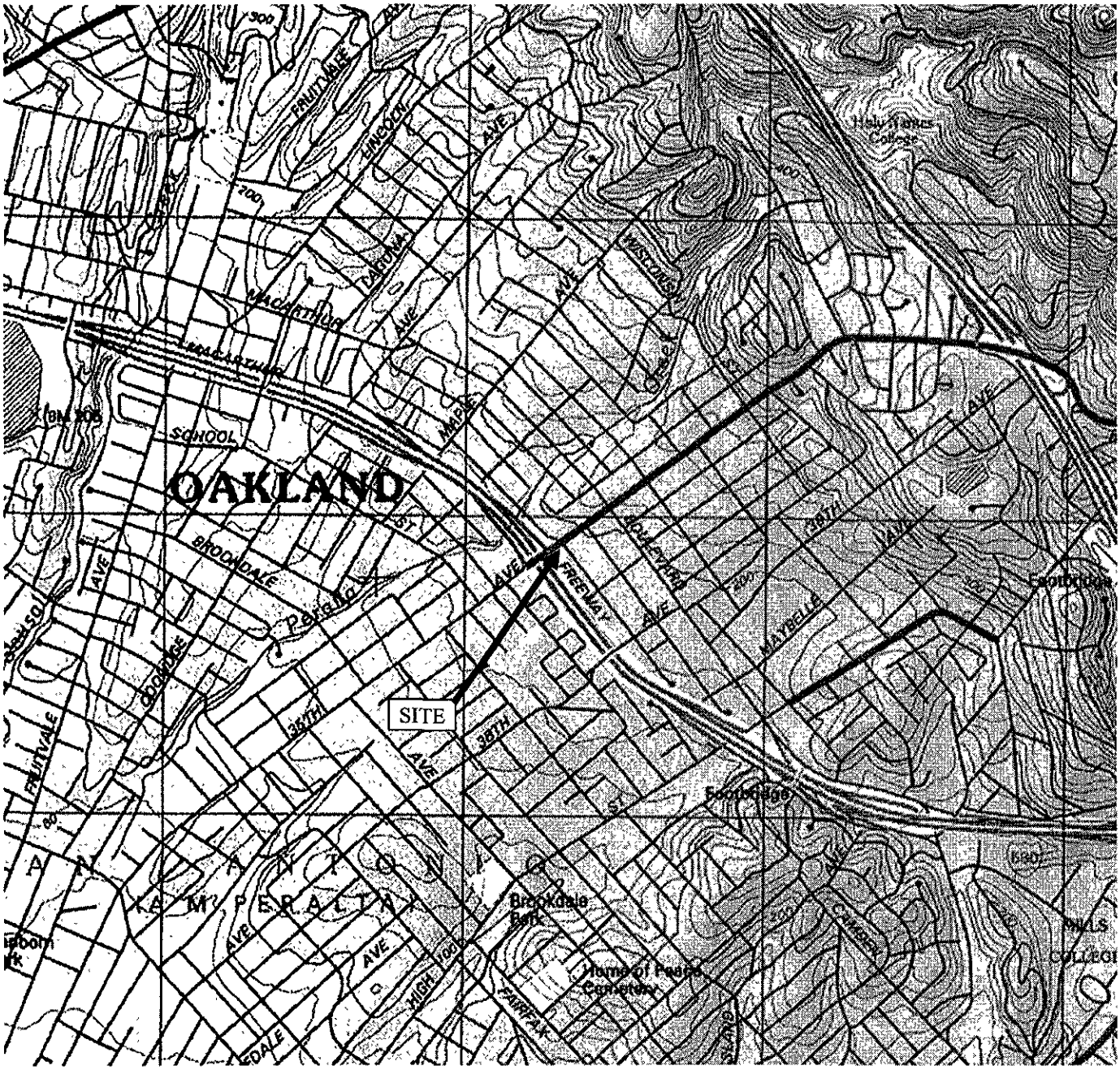
WASTE DISPOSAL SUMMARY

No waste was generated during the quarter.

NEXT QUARTER ACTIVITIES (Third Quarter 2005)

1. TRC will conduct the quarterly groundwater monitoring and sampling event at the site.
2. Upon approval of the Work Plan dated June 13, 2005, ATC will complete four monitor wells and three soil borings.

CONSULTANT: ATC Associates Inc.



SOURCE: USGS OAKLAND WEST QUADRANGLE, CALIFORNIA (7.5 MINUTE SERIES) TOPOGRAPHIC MAP. OBTAINED FROM THE 2000 NATIONAL GEOGRAPHIC TOPO! SOFTWARE.

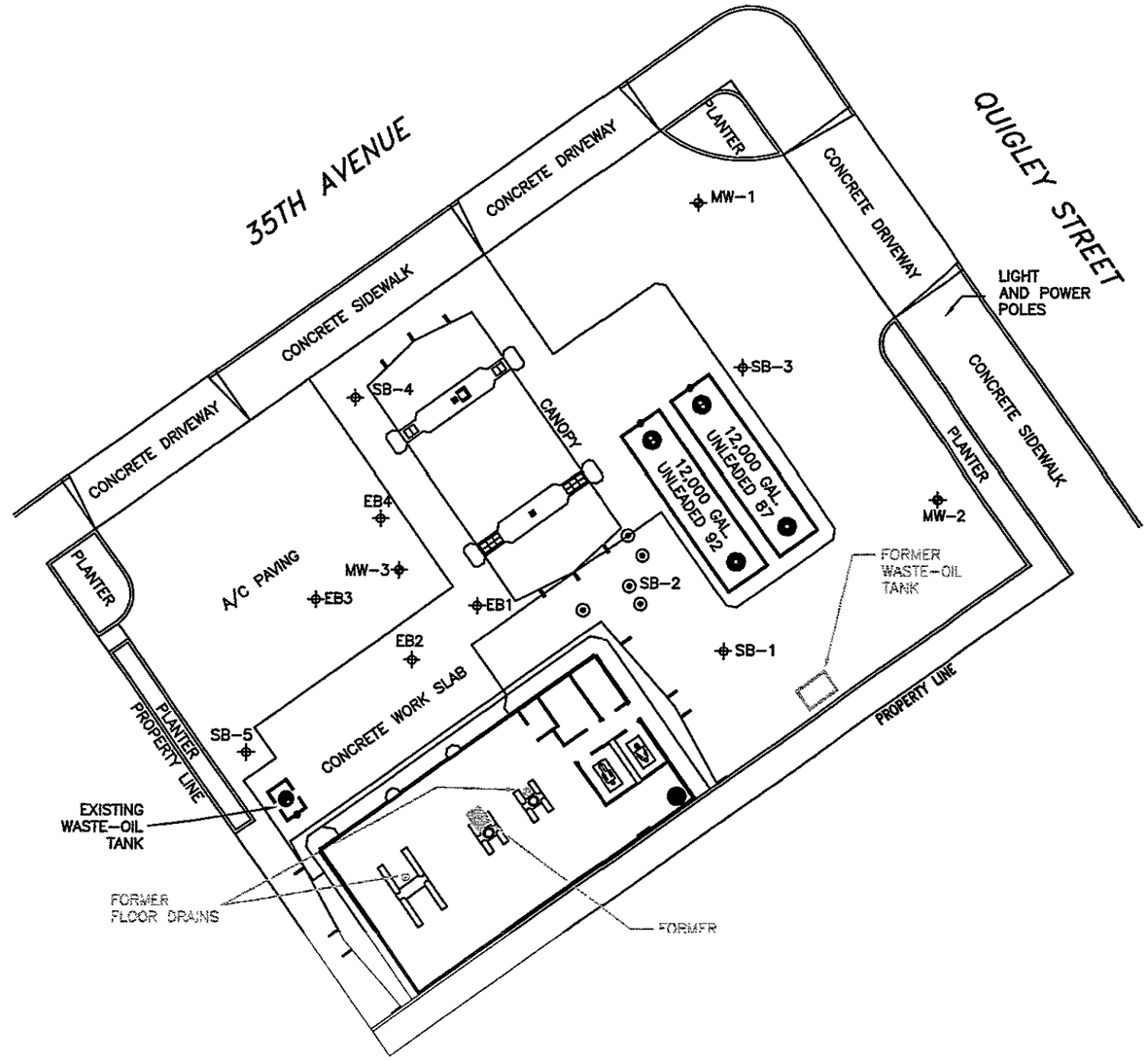
VATC ASSOCIATES INC.
6602 Owens Drive, Suite 100
Pleasanton, CA 94588
(925) 460-5300

PROJECT NO: 75.75118.4583		
DESIGNED BY: DE	SCALE:N/A	REVIEWED BY: DE
DRAWN BY: EC	DATE: 03/05	FILE: 6129 SITE VIC

FIGURE 1

SITE VICINITY MAP

76 STATION 6129
3420 35th AVENUE
OAKLAND, CALIFORNIA



LEGEND

- MW-3 — GROUNDWATER MONITORING WELL
- SB-5 — SOIL BORING LOCATIONS (2003)
- SB-2 — ATTEMPTED SOIL BORING
- EB1 — SOIL BORING LOCATIONS (1990)
- GASOLINE UNDERGROUND STORAGE TANK
- DISPENSER ISLAND
- H — HOIST

Approximate Scale

30 0 30 feet

Subject to Surveyors verification

BASE MAP REFERENCE:
MODIFIED FROM SITE PLAN SUPPLIED BY
MILLER BROOKS, ENVIRONMENTAL, INC.

VATC ASSOCIATES INC.
5602 Owens Drive, Suite 100
Pleasanton, CA 94588
(925) 460-5300

SCALE	DRAWING DATE	ACAD FILE
AS SHOWN	03/25/05	6129-site plan

SITE MAP

CLIENT	PM
CONOCOPHILLIPS	DAE
LOCATION: 76 STATION 6129, 3420 35th AVENUE, OAKLAND, CALIFORNIA	PE: DA
DESIGNED	DRAWN BY: EC
PROJECT NO. 75.75118.4583	FIGURE 2

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
76 Station 6129
3420 35 Ave , Oakland

Well No	Monitoring Date	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Surface Elevation (feet)	Depth of Well (feet)	Depth to Screen (feet)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	TPH-G (µg/l)	MTBE 8260B (µg/l)	DIPE 8260B (µg/l)	TPPH 8260B (µg/l)
MW-1	01/05/90	–	–	–	–	45	25	ND	ND	ND	ND	ND	–	–	–
	05/11/90	–	–	–	–	45	25	ND	7.1	ND	ND	ND	–	–	–
	08/09/90	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	11/14/90	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	02/12/91	–	–	–	--	45	25	0 32	ND	ND	ND	ND	--	--	--
	05/09/91	–	–	–	–	45	25	ND	ND	ND	ND	ND	–	–	–
	11/13/03	–	–	–	–	45	25	<1.0	<1.0	<1.0	<2 0	–	240	<4.0	180
	08/27/04	30.65	0	71 59	102 24	45	25	<0 50	<0.50	<0 50	<1 0	--	<0 50	<1.0	<50
	11/23/04	29.35	0	72 89	102 24	45	25	<0.50	<0 50	<0 50	<1 0	--	<0 50	<1.0	<50
	02/09/05	26 89	0	75 35	102 24	45	25	<0.50	<0.50	<0 50	<1 0	--	9.3	<0 50	<50
	05/17/05	26.56	0	75.68	102 24	45	25	<0.50	<0.50	<0.50	<1 0	–	1.9	--	<50
MW-2	01/05/90	–	–	–	–	45	25	ND	ND	ND	ND	ND	–	–	–
	05/11/90	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	08/09/90	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	11/14/90	–	--	–	--	45	25	ND	ND	ND	ND	ND	–	–	–
	02/12/91	–	--	--	--	45	25	ND	0 42	ND	0.51	ND	–	–	–
	05/09/91	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	–
	11/13/03	--	--	--	--	45	25	<20	<20	<20	<40	--	2100	<80	<2000
	08/27/04	30.28	0	71.88	102.16	45	25	<5.0	<5 0	<5 0	<10	–	1400	24	950
	11/23/04	28.75	0	73 41	102 16	45	25	<0.50	<0.50	<0.50	<1.0	–	4.2	18	53
	02/09/05	26 08	0	76.08	102 16	45	25	<0 50	<0.50	<0.50	<1 0	--	400	19	<500
	05/17/05	24 53	0	77.63	102.16	45	25	<0 50	<0.50	<0.50	<1 0	--	330	--	<50
MW-3	01/05/90	–	0	–	--	45	25	ND	ND	ND	ND	ND	–	–	–
	05/11/90	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	08/09/90	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	11/14/90	–	–	–	--	45	25	ND	ND	ND	ND	ND	--	--	--
	02/12/91	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	--
	05/09/91	--	--	--	--	45	25	ND	ND	ND	ND	ND	--	--	–
	11/13/03	--	–	–	--	45	25	<20	<20	<20	<40	--	3700	<80	2600
	08/27/04	29.61	0	70.39	100	45	25	<10	<10	<10	<20	–	2600	<20	1700
	11/23/04	28 48	0	71.52	100	45	25	<10	<10	<10	<20	–	1800	<20	1500
	02/09/05	26 45	0	73 55	100	45	25	<0 50	<0.50	<0.50	<1 0	--	2100	<10	<1000
	05/17/05	25 61	0	74.39	100	45	25	<0 50	<0.50	<0.50	<1 0	--	1200	--	<1000

LEGEND

–	not analyzed, measured, or collected	TPH-G	total petroleum hydrocarbons with gasoline distinction
LPH	liquid-phase hydrocarbons	TPH-D	total petroleum hydrocarbons with diesel distinction
Trace	less than 0 01 foot of LPH in well	TPPH	total purgeable petroleum hydrocarbons
µg/l	micrograms per liter	TRPH	total recoverable petroleum hydrocarbons
mg/l	milligrams per liter	MTBE	methyl tertiary butyl ether
ND	not detected	BTEX	benzene, toluene, ethylbenzene, and (total) xylenes
<	not detected at or above laboratory detection limit	DIPE	di-isopropyl ether
TOC	top of casing		

TRC

Customer-Focused Solutions

July 6, 2005

ConocoPhillips Company
76 Broadway
Sacramento, CA 94563

ATTN: MR. THOMAS KOSEL

SITE: 76 STATION 6129
3420 35TH AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2005

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 6129, located at 3420 35th Avenue, 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: Mr. Dave Evans, ATC Associates Inc. (2 copies)

Enclosures:
20-0400/6129R04.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

TRC

Customer-Focused Solutions

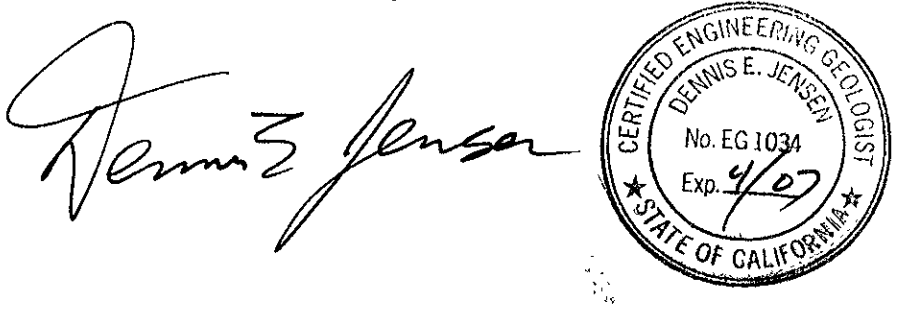
QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2005

76 Station 6129
3420 35th Avenue
Oakland, California

Prepared For:

Mr. Thomas Kosel
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, CA 94563

By:



Senior Project Geologist, Irvine Operations
July 1, 2005

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

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 Benzene Concentrations vs. Time MTBE 8260B 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
April 2005 through June 2005
76 Station 6129
3420 35th Ave.
Oakland, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Compiled by: **Tim Simpkins**
Date(s) of Gauging/Sampling Event: **05/17/05**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Wells gauged: **3** Wells sampled: **3**
Purging method: **Diaphragm/submersible 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: **24.53 feet** Maximum: **26.56 feet**
Average groundwater elevation (relative to available local datum): **75.90 feet**
Average change in groundwater elevation since previous event: **0.91 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.03 ft/ft, west**
Previous event: **0.02 ft/ft, southwest (02/09/05)**

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** **0**
Wells with **MTBE** **3** Maximum: **1,200 µg/l (MW-3)**

Notes:

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.

TABLES

TABLE KEY

STANDARD ABREVIATIONS

--	=	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. e3quivalent 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: Surface Elevation - Measured Depth to Water + (Dp x 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 re-survey.

REFERENCE

TRC began groundwater monitoring and sampling 76 Station 6129 in August 2004.

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 17, 2005

76 Station 6129

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 8260B (µg/l)	Comments
MW-1													
05/17/05	102.24	26.56	0.00	75.68	0.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.9	
MW-2													
05/17/05	102.16	24.53	0.00	77.63	1.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	330	
MW-3													
05/17/05	100.00	25.61	0.00	74.39	0.84	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1200	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 1990 Through May 2005

76 Station 6129

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 8260B (µg/l)	Comments
MW-1													
01/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
05/11/90	--	--	--	--	--	ND	--	ND	7.1	ND	ND	--	
08/09/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
11/14/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
02/12/91	--	--	--	--	--	ND	--	0.32	ND	ND	ND	--	
05/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
11/13/03	--	--	--	--	--	--	180	ND<1.0	ND<1.0	ND<1.0	ND<2.0	240	
08/27/04	102.24	30.65	0.00	71.59	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	
11/23/04	102.24	29.35	0.00	72.89	1.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	
02/09/05	102.24	26.89	0.00	75.35	2.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	9.3	
05/17/05	102.24	26.56	0.00	75.68	0.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1.9	
MW-2													
01/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
05/11/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
08/09/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
11/14/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
02/12/91	--	--	--	--	--	ND	--	ND	0.42	ND	0.51	--	
05/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
11/13/03	--	--	--	--	--	--	ND<2000	ND<20	ND<20	ND<20	ND<40	2100	
08/27/04	102.16	30.28	0.00	71.88	--	--	950	ND<5.0	ND<5.0	ND<5.0	ND<10	1400	
11/23/04	102.16	28.75	0.00	73.41	1.53	--	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	4.2	
02/09/05	102.16	26.08	0.00	76.08	2.67	--	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	400	
05/17/05	102.16	24.53	0.00	77.63	1.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	330	
MW-3													

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 1990 Through May 2005

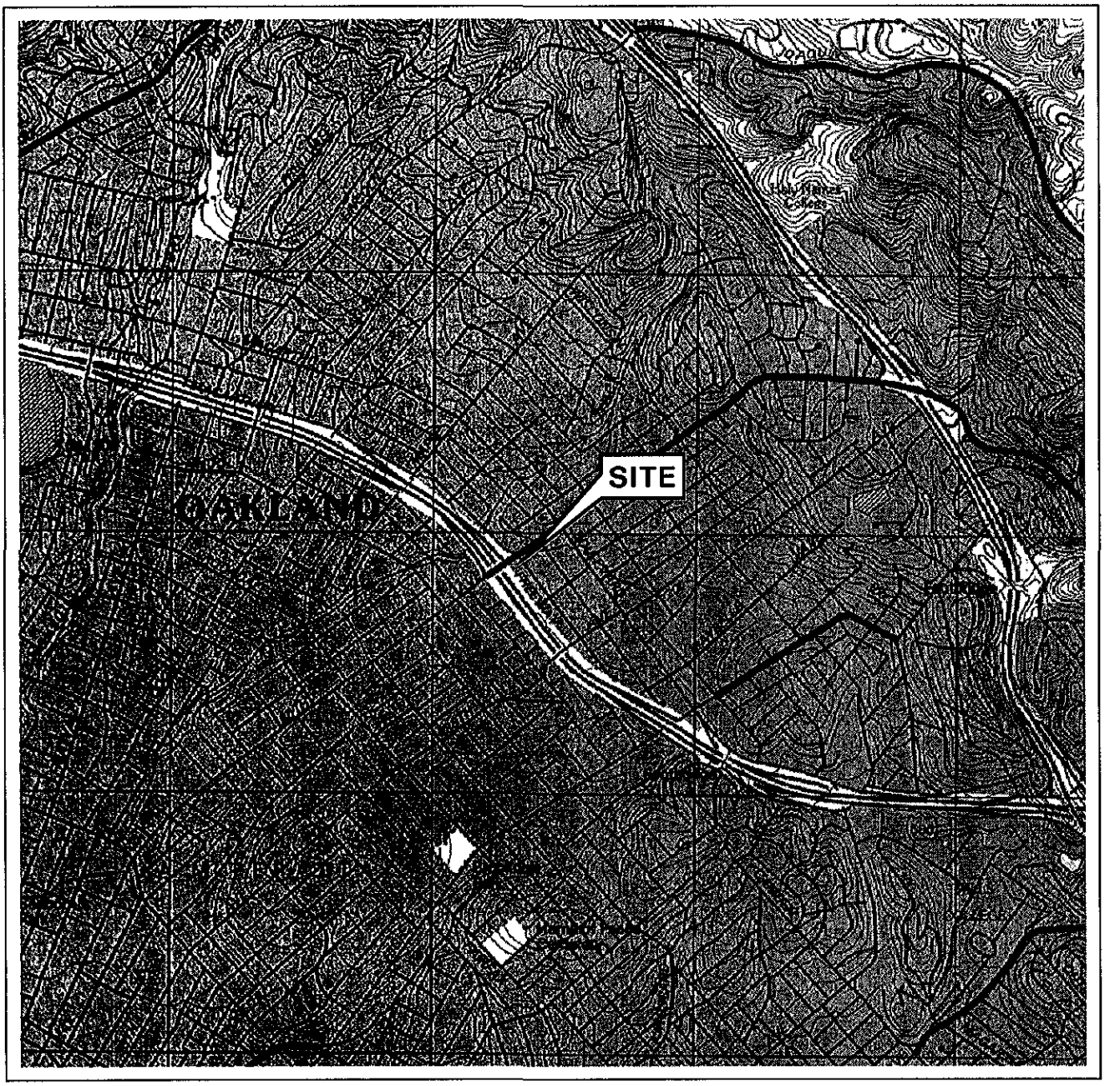
76 Station 6129

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 8260B (µg/l)	Comments
MW-3 continued													
01/05/90	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	
05/11/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
08/09/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
11/14/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
02/12/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
05/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	
11/13/03	--	--	--	--	--	--	2600	ND<20	ND<20	ND<20	ND<40	3700	
08/27/04	100.00	29.61	0.00	70.39	--	--	1700	ND<10	ND<10	ND<10	ND<20	2600	
11/23/04	100.00	28.48	0.00	71.52	1.13	--	1500	ND<10	ND<10	ND<10	ND<20	1800	
02/09/05	100.00	26.45	0.00	73.55	2.03	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2100	
05/17/05	100.00	25.61	0.00	74.39	0.84	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1200	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 6129

Date Sampled	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-1							
11/13/03	ND<4.0	ND<4.0	ND<4.0	ND<200	ND<4.0	ND<4.0	ND<1000
08/27/04	ND<0 50	ND<0 50	ND<0 50	ND<5.0	ND<1.0	ND<0 50	ND<50
11/23/04	ND<0 50	ND<0 50	ND<0 50	ND<5.0	ND<1.0	ND<0 50	ND<50
02/09/05	ND<0 50	ND<0.50	ND<0 50	ND<5.0	ND<0 50	ND<0.50	ND<50
05/17/05	ND<0.50	ND<0.50	ND<0 50	ND<5.0	ND<0 50	ND<0 50	ND<50
MW-2							
11/13/03	ND<80	ND<80	ND<80	ND<4000	ND<80	ND<80	ND<20000
08/27/04	ND<5.0	ND<5.0	ND<5.0	ND<50	24	ND<5.0	ND<500
11/23/04	ND<0.50	ND<0 50	ND<0.50	ND<5.0	18	ND<0.50	ND<50
02/09/05	ND<5.0	ND<5.0	ND<5.0	ND<50	19	ND<5.0	ND<500
05/17/05	ND<0 50	ND<0.50	ND<0 50	ND<5.0	12	ND<0.50	ND<50
MW-3							
11/13/03	ND<80	ND<80	ND<80	ND<4000	ND<80	ND<80	ND<20000
08/27/04	ND<10	ND<10	ND<10	ND<100	ND<20	ND<10	ND<1000
11/23/04	ND<10	ND<10	ND<10	ND<100	ND<20	ND<10	ND<1000
02/09/05	ND<10	ND<10	ND<10	130	ND<10	ND<10	ND<1000
05/17/05	ND<10	ND<10	ND<10	ND<100	ND<10	ND<10	ND<1000

FIGURES



0 1/4 1/2 3/4 1 MILE

SCALE 1: 24,000

N

SOURCE:

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

VICINITY MAP

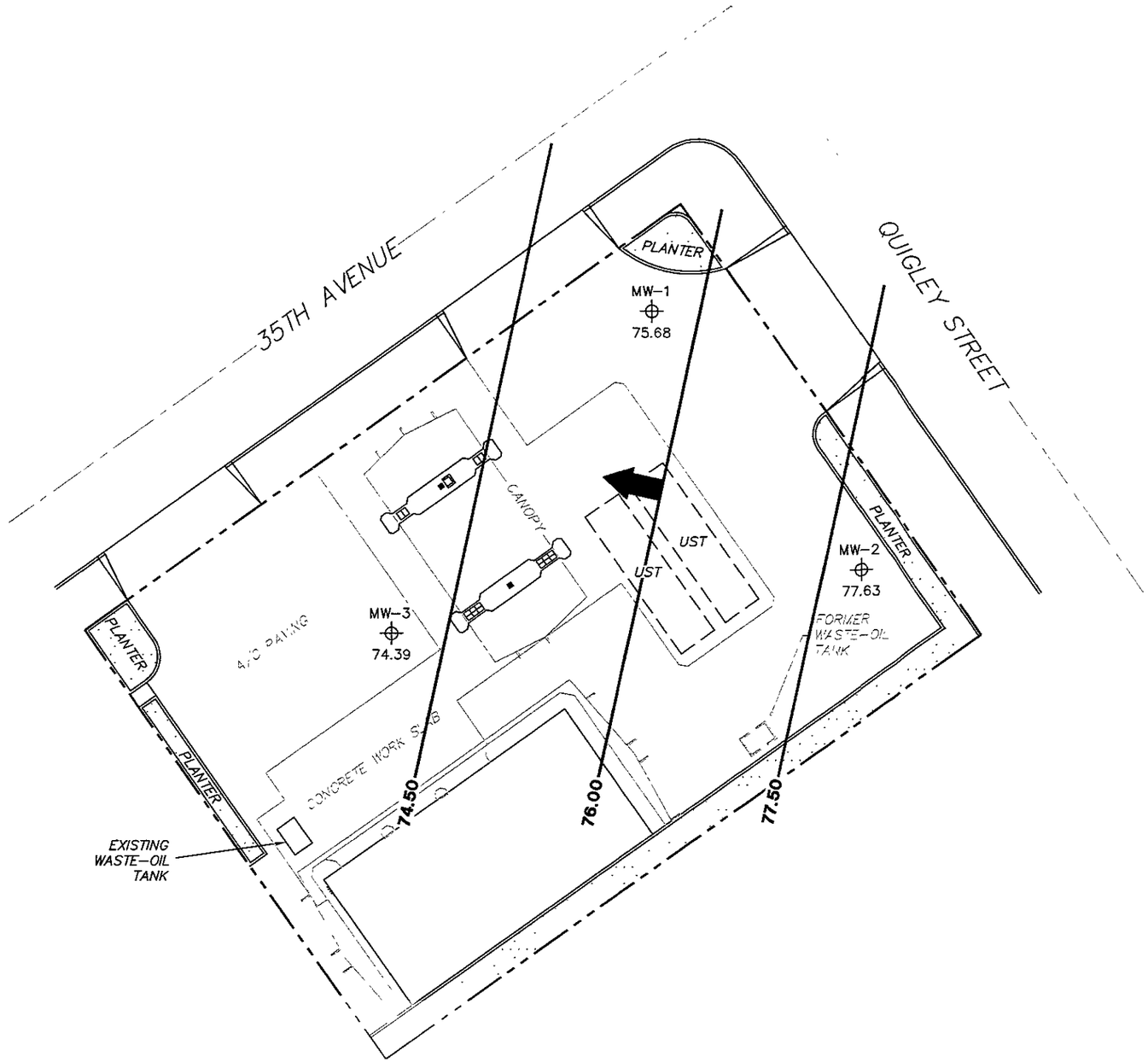
76 Station 6129
3420 35th Avenue
Oakland, California

FIGURE 1

TRC

PS = 1:1

Graphics on lr1(i:)\VICINITY MAPS\6129vm dwg 01/11/05 pjg



SCALE (FEET)

0 30 60

N

LEGEND

MW-3 ⊕ Monitoring Well with Groundwater Elevation (feet)

77.50 —— Groundwater Elevation Contour

General Direction of Groundwater Flow

NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

GROUNDWATER ELEVATION CONTOUR MAP
May 17, 2005

76 Station 6129
3420 35th Avenue
Oakland, California

TRC

FIGURE 2

6129-003

PS=1:1

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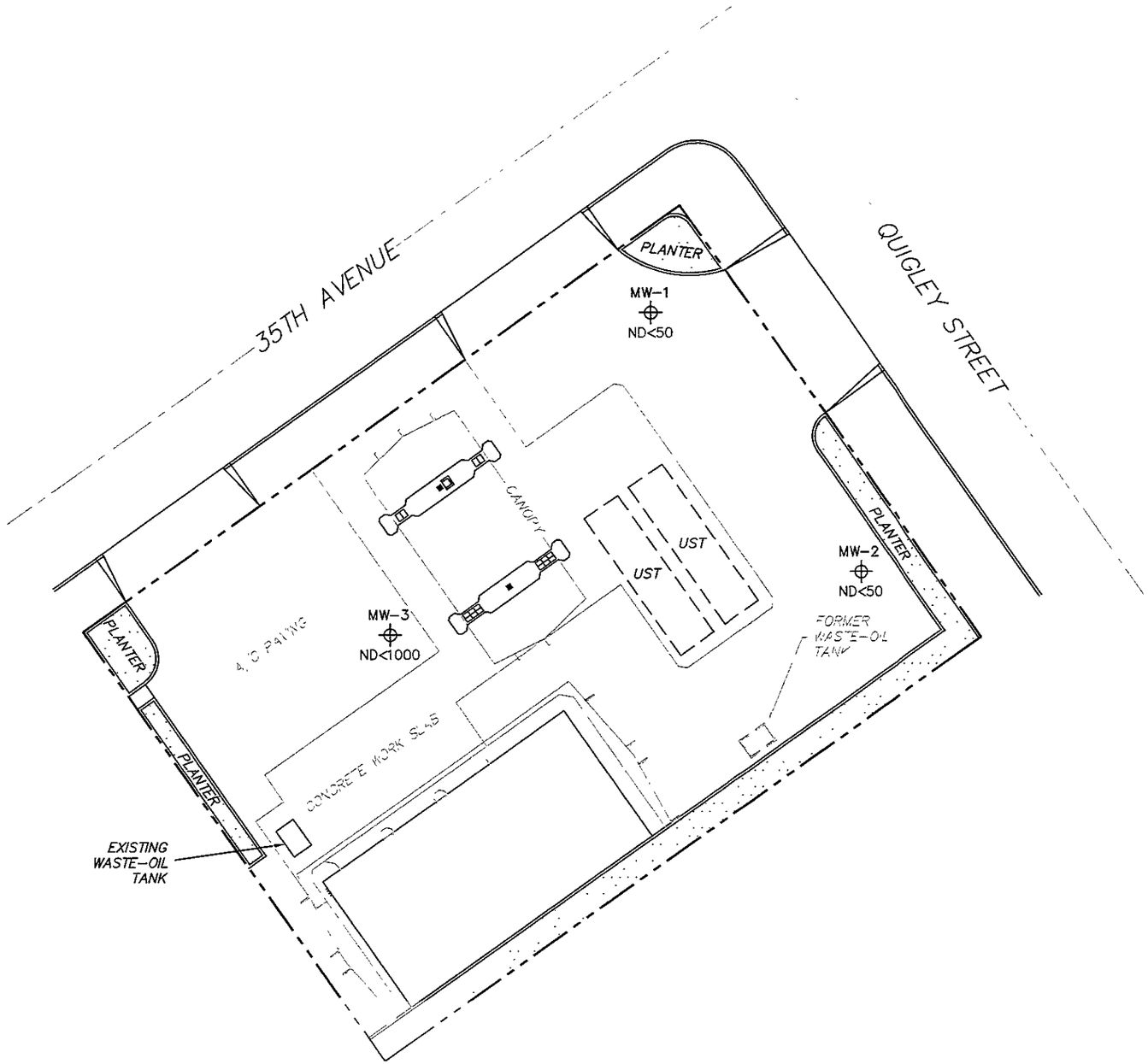

SCALE (FEET)

0 30 60

N

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

NOTES:

TPPH = total purgeable petroleum hydrocarbons.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE TPPH CONCENTRATION MAP
May 17, 2005

76 Station 6129
3420 35th Avenue
Oakland, California

TRC

FIGURE 3

6129-003

PS=1.1

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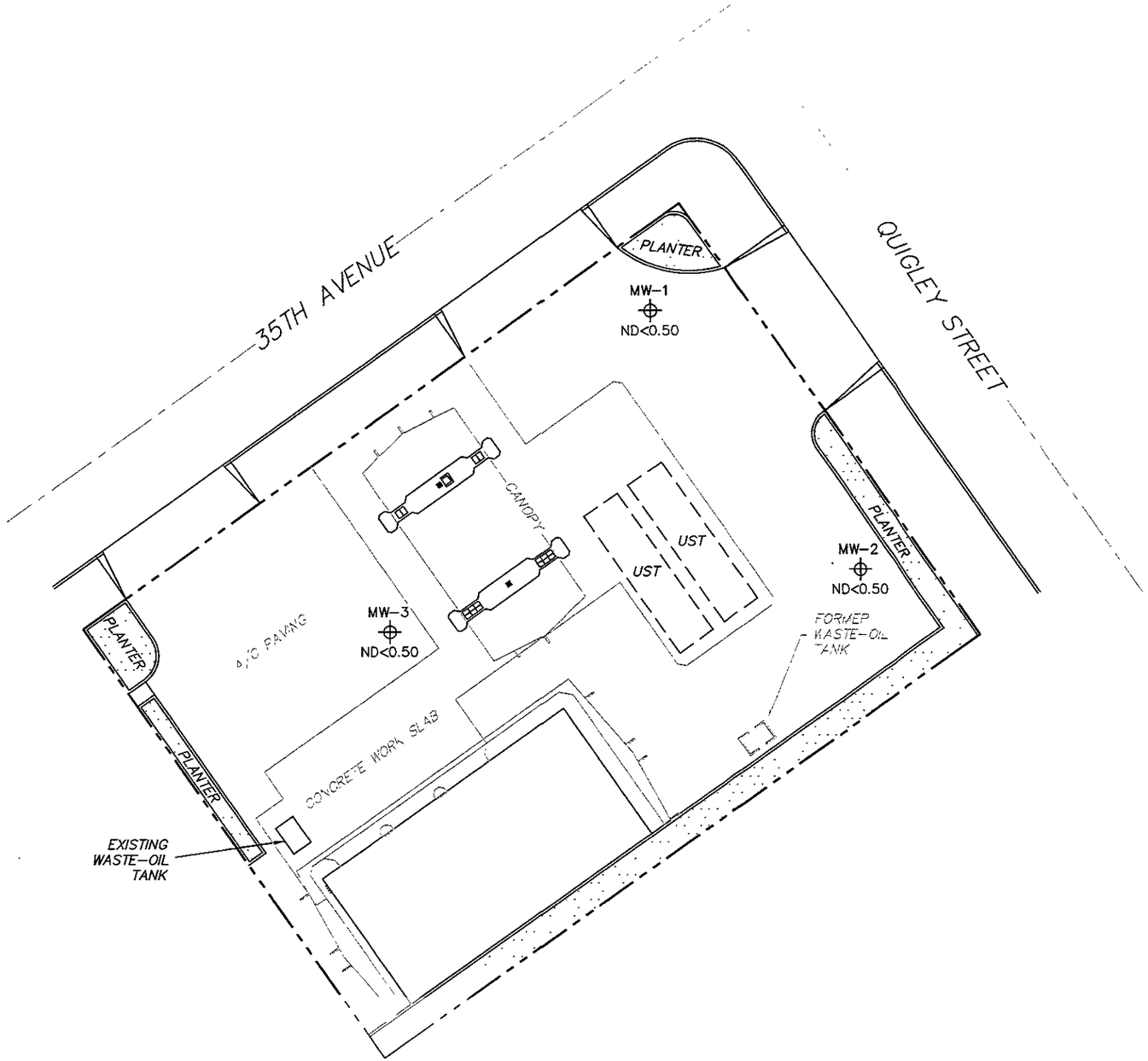

SCALE (FEET)

0 30 60

N

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
May 17, 2005

76 Station 6129
3420 35th Avenue
Oakland, California

TRC

FIGURE 4

6129-003

PS=1:1

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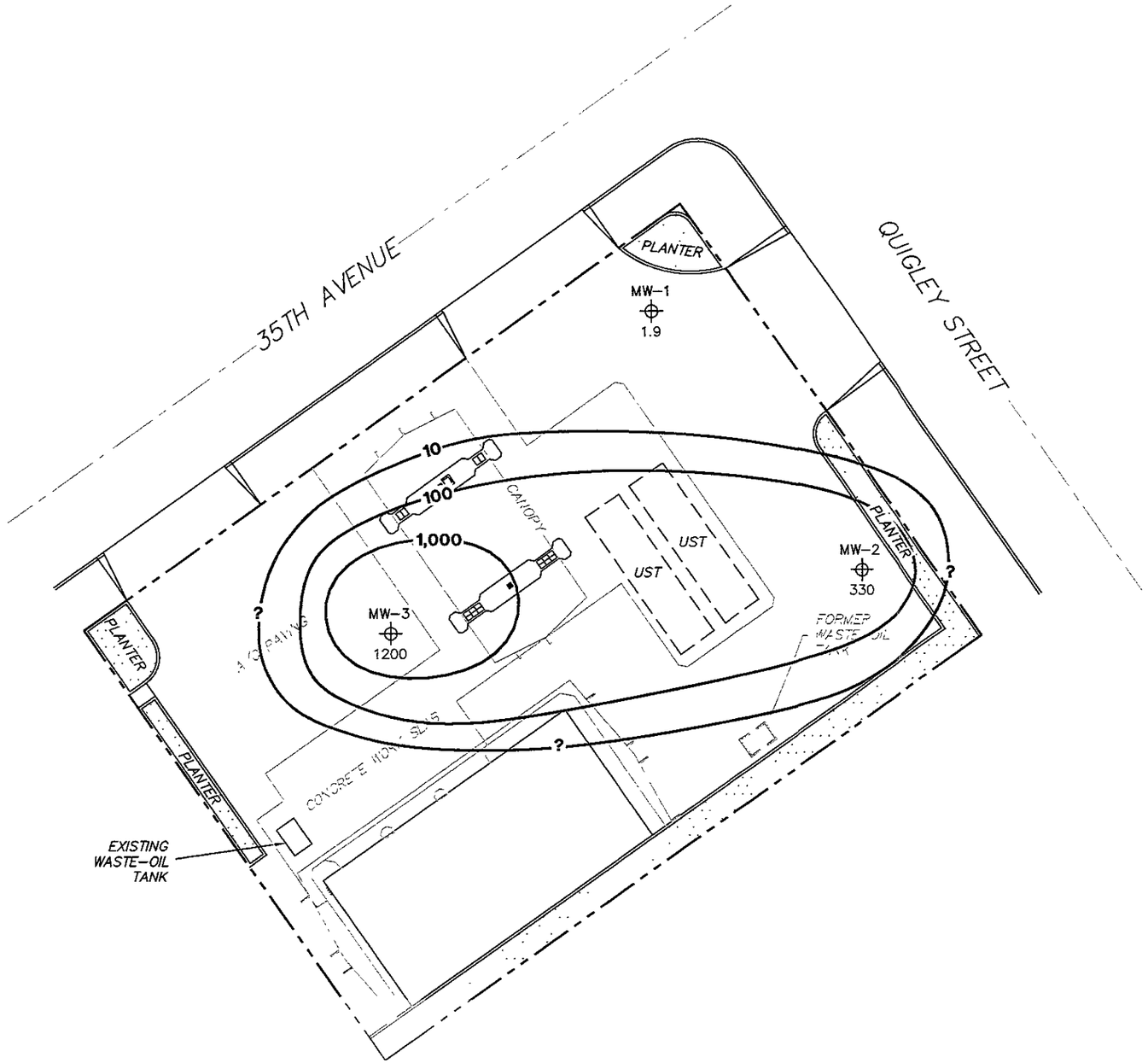


SCALE (FEET)

0 30 60

N

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

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

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. UST = underground storage tank. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP
May 17, 2005

76 Station 6129
3420 35th Avenue
Oakland, California

TRC

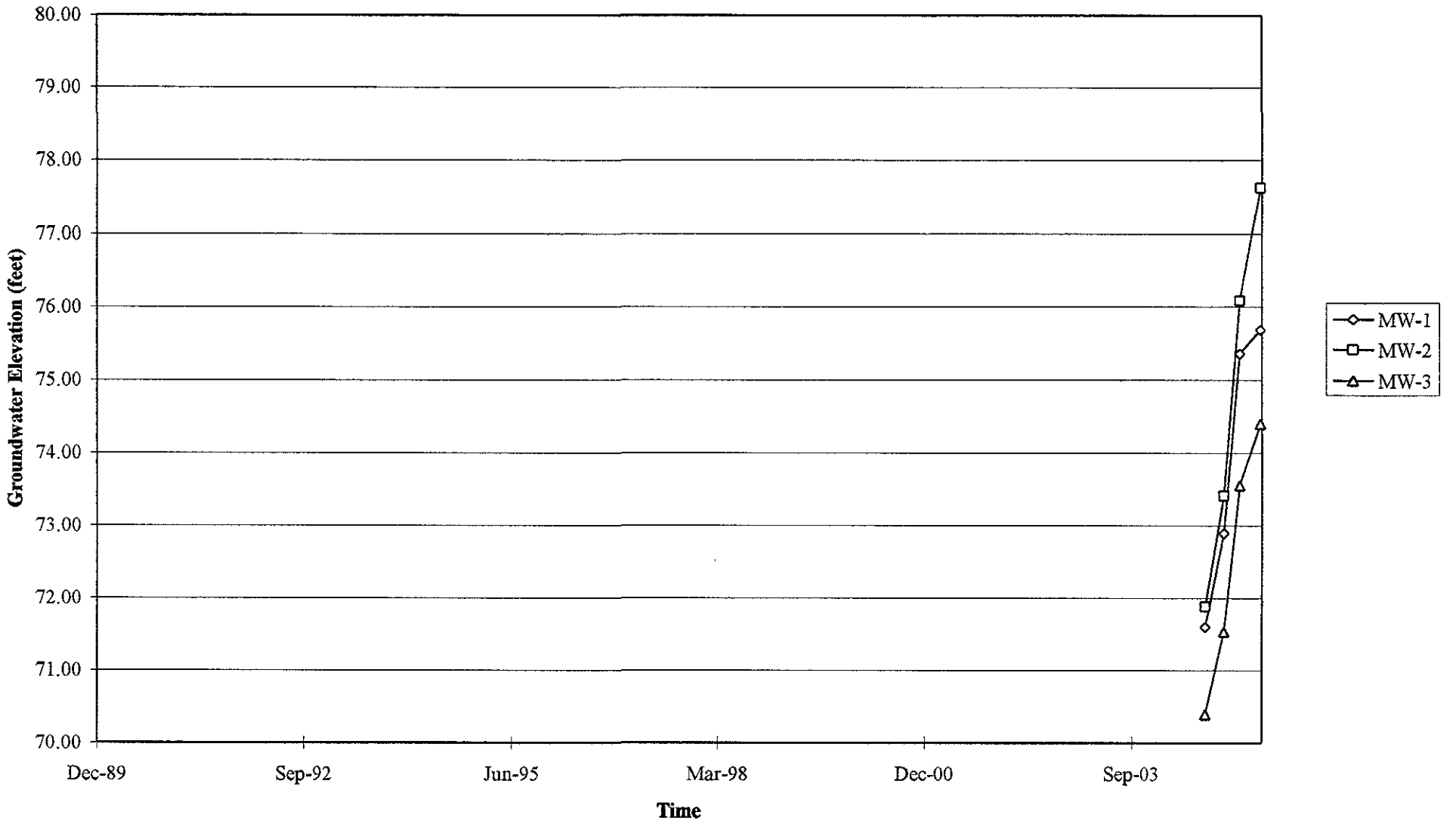
FIGURE 5

PS=1.1 6129-003

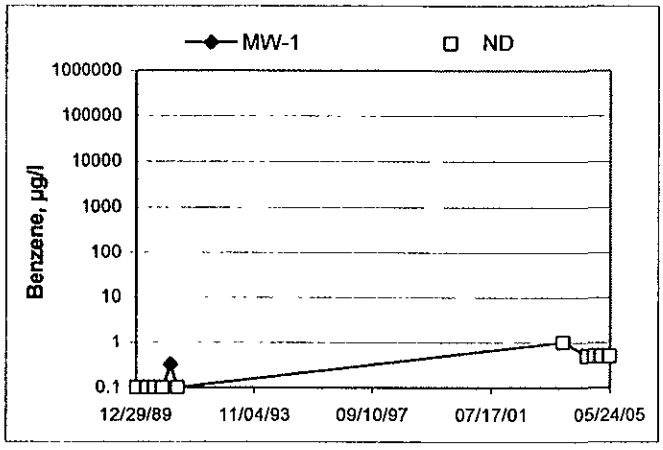
L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6129+\6129_QMS.dwg Jun 22, 2005 - 1:31pm lwinters

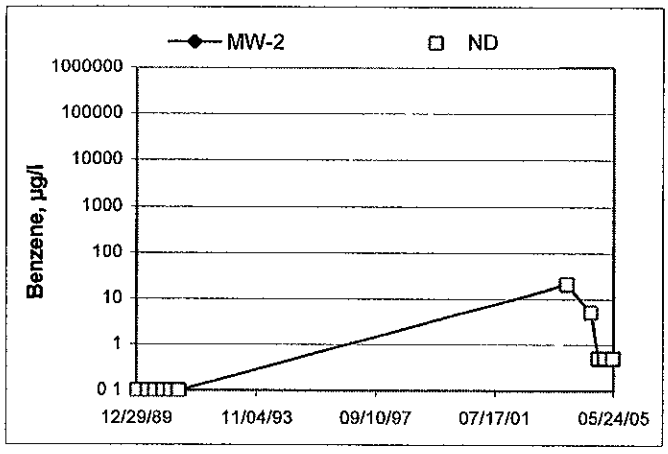
GRAPHS

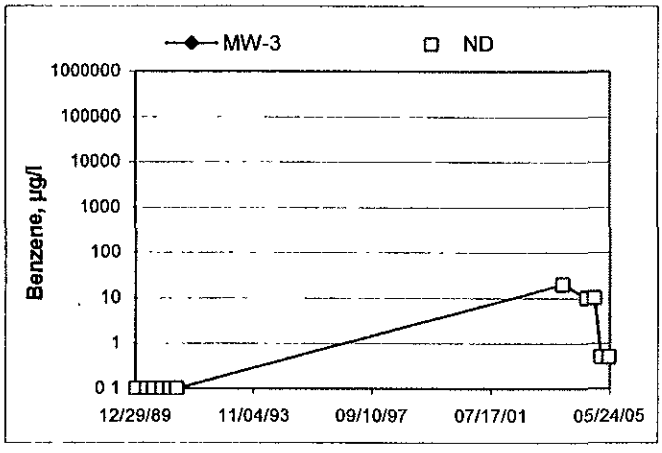
Groundwater Elevations vs. Time
76 Station 6129



Benzene Concentrations vs Time
76 Station 6129

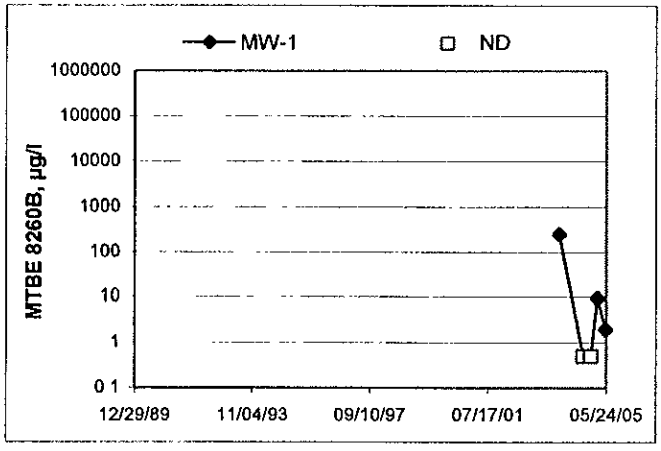


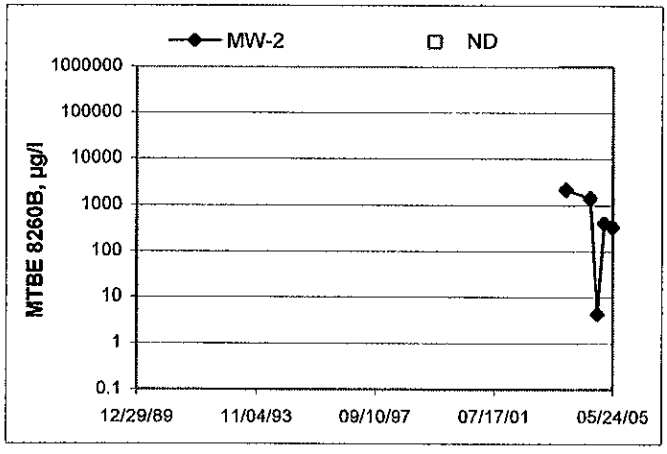


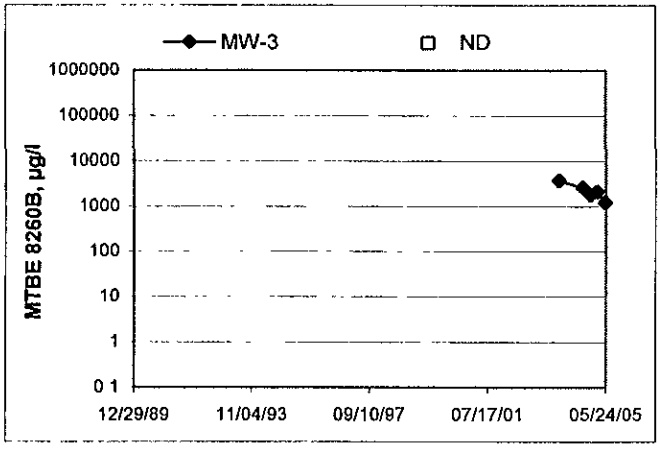


MTBE 8260B Concentrations vs Time

76 Station 6129







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.

FIELD MONITORING DATA SHEET

Technician: Rick R. Job #/Task #: 41050001/FA20 Date: 05/17/05

Site # 6129 Project Manager A. Collins Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1	✓	1208	43.46	26.56	—	—	1323	2"(2) NO Bolts
MW-2	✓	1212	43.59	24.53	—	—	1330	2"(2) NO Bolts
MW-3	✓	1216	42.62	25.61	—	—	1338	2"(2) NO Bolts

FIELD DATA COMPLETE ✓	QA/QC ✓	COC ✓	WELL BOX CONDITION SHEETS ✓
WTT CERTIFICATE	MANIFEST	DRUM INVENTORY ✓	TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician Rick R.

Site: 6129 Project No.: 41090001 RR Date: 05/17/05

Well No.: MW-1 Purge Method ~~DTA~~ RR Sub

Depth to Water (feet): 26.56 Depth to Product (feet): 0

Total Depth (feet): 43.46 LPH & Water Recovered (gallons): 0

Water Column (feet): 16.90 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 29.94 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	Turbidity	D.O.
~~1236~~			3	774	22.3	6.96		
			6	734	21.9	6.93		
	1250		9	714	22.2	6.91		

Static at Time Sampled	Total Gallons Purged	Time Sampled
*26.57	9	1323

Comments:

Well No.: MW-2 Purge Method ~~DTA~~ RR Sub

Depth to Water (feet): 24.53 Depth to Product (feet): 0

Total Depth (feet): 43.59 LPH & Water Recovered (gallons): 0

Water Column (feet): 19.06 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 28.34 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	Turbidity	D.O.
1259			3	862	21.5	6.82		
			6	751	21.6	6.90		
	1303		9	755	21.7	6.84		

Static at Time Sampled	Total Gallons Purged	Time Sampled
25.34	9	1330

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Rick R.

Site: 6129 Project No.: 411050001 Date: 05/17/05

Well No.: MW-3 Purge Method: DIR

Depth to Water (feet): 25.61 Depth to Product (feet): 0

Total Depth (feet): 42.62 LPH & Water Recovered (gallons): 0

Water Column (feet): 17.01 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 29.01 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1310			3	649	21.6	6.98		
			6	638	21.7	7.02		
	1314		9	653	21.9	7.01		

Static at Time Sampled	Total Gallons Purged	Time Sampled
27.49	9	1338

Comments:

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:

SEVERN TRENT STL

Submission#: 2005-05-0552

TRC Alton Geoscience- Irvine

May 31, 2005

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001/FA20
Project: Conoco Phillips #6129
Site: 3420 35th Ave., Oakland

Attached is our report for your samples received on 05/18/2005 16:30
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 07/02/2005 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 STL

Submission: 2005-05-0552

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/17/2005 13:23	Water	1
MW-2	05/17/2005 13:30	Water	2
MW-3	05/17/2005 13:38	Water	3

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Prep(s): 5030B
Sample ID: **MW-1**
Sampled: 05/17/2005 13:23
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0552 - 1
Extracted: 5/26/2005 02:13
QC Batch#: 2005/05/25-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	05/26/2005 02:13	
Benzene	ND	0.50	ug/L	1.00	05/26/2005 02:13	
Toluene	ND	0.50	ug/L	1.00	05/26/2005 02:13	
Ethylbenzene	ND	0.50	ug/L	1.00	05/26/2005 02:13	
Total xylenes	ND	1.0	ug/L	1.00	05/26/2005 02:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/26/2005 02:13	
Methyl tert-butyl ether (MTBE)	1.9	0.50	ug/L	1.00	05/26/2005 02:13	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	05/26/2005 02:13	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	05/26/2005 02:13	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	05/26/2005 02:13	
1,2-DCA	ND	0.50	ug/L	1.00	05/26/2005 02:13	
EDB	ND	0.50	ug/L	1.00	05/26/2005 02:13	
Ethanol	ND	50	ug/L	1.00	05/26/2005 02:13	
Surrogate(s)						
1,2-Dichloroethane-d4	93.2	73-130	%	1.00	05/26/2005 02:13	
Toluene-d8	102.0	81-114	%	1.00	05/26/2005 02:13	

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-2**	Lab ID:	2005-05-0552 - 2
Sampled:	05/17/2005 13:30	Extracted:	5/26/2005 02:39 5/31/2005 11:52
Matrix:	Water	QC Batch#:	2005/05/25-2B.66 2005/05/31-1A.66

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	05/26/2005 02:39	
Benzene	ND	0.50	ug/L	1.00	05/26/2005 02:39	
Toluene	ND	0.50	ug/L	1.00	05/26/2005 02:39	
Ethylbenzene	ND	0.50	ug/L	1.00	05/26/2005 02:39	
Total xylenes	ND	1.0	ug/L	1.00	05/26/2005 02:39	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/26/2005 02:39	
Methyl tert-butyl ether (MTBE)	330	1.0	ug/L	2.00	05/31/2005 11:52	
Di-isopropyl Ether (DIPE)	12	0.50	ug/L	1.00	05/26/2005 02:39	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	05/26/2005 02:39	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	05/26/2005 02:39	
1,2-DCA	ND	0.50	ug/L	1.00	05/26/2005 02:39	
EDB	ND	0.50	ug/L	1.00	05/26/2005 02:39	
Ethanol	ND	50	ug/L	1.00	05/26/2005 02:39	
Surrogate(s)						
1,2-Dichloroethane-d4	107.3	73-130	%	2.00	05/31/2005 11:52	
1,2-Dichloroethane-d4	92.7	73-130	%	1.00	05/26/2005 02:39	
Toluene-d8	98.1	81-114	%	2.00	05/31/2005 11:52	
Toluene-d8	97.6	81-114	%	1.00	05/26/2005 02:39	

SEVERN TRENT STL

Submission: 2005-05-0552

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Prep(s): 5030B
Sample ID: **MW-3**
Sampled: 05/17/2005 13:38
Matrix: Water

Test(s): 8260B
Lab ID: 2005-05-0552 - 3
Extracted: 5/26/2005 03:04
5/28/2005 15:49
QC Batch#: 2005/05/25-2B.66
2005/05/28-1A.64

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1000	ug/L	20.00	05/26/2005 03:04	
Benzene	ND	0.50	ug/L	1.00	05/28/2005 15:49	
Toluene	ND	0.50	ug/L	1.00	05/28/2005 15:49	
Ethylbenzene	ND	0.50	ug/L	1.00	05/28/2005 15:49	
Total xylenes	ND	1.0	ug/L	1.00	05/28/2005 15:49	
tert-Butyl alcohol (TBA)	ND	100	ug/L	20.00	05/26/2005 03:04	
Methyl tert-butyl ether (MTBE)	1200	10	ug/L	20.00	05/26/2005 03:04	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	20.00	05/26/2005 03:04	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	20.00	05/26/2005 03:04	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	20.00	05/26/2005 03:04	
1,2-DCA	ND	10	ug/L	20.00	05/26/2005 03:04	
EDB	ND	10	ug/L	20.00	05/26/2005 03:04	
Ethanol	ND	1000	ug/L	20.00	05/26/2005 03:04	
Surrogate(s)						
1,2-Dichloroethane-d4	87.6	73-130	%	1.00	05/28/2005 15:49	
1,2-Dichloroethane-d4	92.9	73-130	%	20.00	05/26/2005 03:04	
Toluene-d8	96.9	81-114	%	1.00	05/28/2005 15:49	
Toluene-d8	98.7	81-114	%	20.00	05/26/2005 03:04	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

21 Technology Drive
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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/05/25-2B.66**

MB: 2005/05/25-2B.66-027 Date Extracted: 05/25/2005 18:27

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	05/25/2005 18:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/25/2005 18:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/25/2005 18:27	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	05/25/2005 18:27	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/25/2005 18:27	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/25/2005 18:27	
1,2-DCA	ND	0.5	ug/L	05/25/2005 18:27	
EDB	ND	0.5	ug/L	05/25/2005 18:27	
Benzene	ND	0.5	ug/L	05/25/2005 18:27	
Toluene	ND	0.5	ug/L	05/25/2005 18:27	
Ethylbenzene	ND	0.5	ug/L	05/25/2005 18:27	
Total xylenes	ND	1.0	ug/L	05/25/2005 18:27	
Ethanol	ND	50	ug/L	05/25/2005 18:27	
Surrogates(s)					
1,2-Dichloroethane-d4	90.8	73-130	%	05/25/2005 18:27	
Toluene-d8	95.6	81-114	%	05/25/2005 18:27	

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/05/28-1A.64-052

Water

Test(s): 8260B
QC Batch # 2005/05/28-1A.64
Date Extracted: 05/28/2005 08:52

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	05/28/2005 08:52	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/28/2005 08:52	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/28/2005 08:52	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	05/28/2005 08:52	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/28/2005 08:52	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/28/2005 08:52	
1,2-DCA	ND	0.5	ug/L	05/28/2005 08:52	
EDB	ND	0.5	ug/L	05/28/2005 08:52	
Benzene	ND	0.5	ug/L	05/28/2005 08:52	
Toluene	ND	0.5	ug/L	05/28/2005 08:52	
Ethylbenzene	ND	0.5	ug/L	05/28/2005 08:52	
Total xylenes	ND	1.0	ug/L	05/28/2005 08:52	
Ethanol	ND	50	ug/L	05/28/2005 08:52	
Surrogates(s)					
1,2-Dichloroethane-d4	88.0	73-130	%	05/28/2005 08:52	
Toluene-d8	96.2	81-114	%	05/28/2005 08:52	

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/05/31-1A.66**

MB: 2005/05/31-1A.66-025 — Date Extracted: 05/31/2005 07:25

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	05/31/2005 07:25	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/31/2005 07:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/31/2005 07:25	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	05/31/2005 07:25	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/31/2005 07:25	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/31/2005 07:25	
1,2-DCA	ND	0.5	ug/L	05/31/2005 07:25	
EDB	ND	0.5	ug/L	05/31/2005 07:25	
Benzene	ND	0.5	ug/L	05/31/2005 07:25	
Toluene	ND	0.5	ug/L	05/31/2005 07:25	
Ethylbenzene	ND	0.5	ug/L	05/31/2005 07:25	
Total xylenes	ND	1.0	ug/L	05/31/2005 07:25	
Ethanol	ND	50	ug/L	05/31/2005 07:25	
Surrogates(s)					
1,2-Dichloroethane-d4	88.2	73-130	%	05/31/2005 07:25	
Toluene-d8	101.8	81-114	%	05/31/2005 07:25	

Gas/BTEX Fuel Oxygenates by 8260B

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

Project: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/05/25-2B.66

LCS 2005/05/25-2B.66-002

Extracted: 05/25/2005

Analyzed: 05/25/2005 18:02

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.0		25	96.0			65-165	20		
Benzene	23.4		25	93.6			69-129	20		
Toluene	27.1		25	108.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	411		500	82.2			73-130			
Toluene-d8	506		500	101.2			81-114			

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/28-1A.64**

LCS 2005/05/28-1A.64-028 Extracted: 05/28/2005 Analyzed: 05/28/2005 08:28
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	27.0		25	108.0			65-165	20		
Benzene	27.3		25	109.2			69-129	20		
Toluene	29.5		25	118.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	418		500	83.6			73-130			
Toluene-d8	481		500	96.2			81-114			

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/31-1A.66**

LCS 2005/05/31-1A.66-000 Extracted: 05/31/2005 Analyzed: 05/31/2005 07:00

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.3		25	93.2			65-165	20		
Benzene	23.3		25	93.2			69-129	20		
Toluene	26.7		25	106.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	421		500	84.2			73-130			
Toluene-d8	506		500	101.2			81-114			

SEVERN TRENT STL

Submission: 2005-05-0552

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2005/05/25-2B.66**

MS/MSD — Lab ID: 2005-05-0559 - 001

MS: 2005/05/25-2B.66-031 — Extracted: 05/25/2005 — Analyzed: 05/25/2005 19:31 — Dilution: 1.00

MSD: 2005/05/25-2B.66-056 — Extracted: 05/25/2005 — Analyzed: 05/25/2005 19:56 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	28.5	29.1	6.52	25	87.9	90.3	2.7	65-165	20		
Benzene	20.0	21.2	ND	25	80.0	84.8	5.8	69-129	20		
Toluene	22.3	23.0	ND	25	89.2	92 0	3.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	432	440		500	86.4	88.0		73-130			
Toluene-d8	509	484		500	101.8	96.8		81-114			

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/28-1A.64**

MS/MSD

Lab ID: 2005-05-0667 - 003

MS: 2005/05/28-1A.64-024 Extracted: 05/28/2005 Analyzed: 05/28/2005 11:24

Dilution: 1.00

MSD: 2005/05/28-1A.64-048 Extracted: 05/28/2005 Analyzed: 05/28/2005 11:48

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	28.9	27.2	0.503	25	113.6	106.8	6.2	65-165	20		
Benzene	26.6	26.4	3.08	25	94.1	93.3	0.9	69-129	20		
Toluene	25.8	25.6	ND	25	103.2	102.4	0.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	430	413		500	85.9	82.7		73-130			
Toluene-d8	443	437		500	88.6	87.5		81-114			

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: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/31-1A.66**

MS/MSD

Lab ID: 2005-05-0652 - 005

MS: 2005/05/31-1A.66-046 Extracted: 05/31/2005

Analyzed: 05/31/2005 09:46

Dilution: 5.00

MSD: 2005/05/31-1A.66-011 Extracted: 05/31/2005

Analyzed: 05/31/2005 10:11

Dilution: 5.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec	RPD	MS	MSD
Methyl tert-butyl ether	107	117	ND	125	85 6	93.6	8.9	65-165	20		
Benzene	108	129	19.7	125	70.6	87 4	21.3	69-129	20		R1
Toluene	156	165	50.5	125	84.4	91.6	8.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	456	461		500	91.2	92 2		73-130			
Toluene-d8	482	467		500	96.4	93 4		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

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

Project: 41050001/FA20
Conoco Phillips #6129

Received: 05/18/2005 16:30

Site: 3420 35th Ave., Oakland

Legend and Notes

Analysis Flag

L2

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

Result Flag

R1

Analyte RPD was out of QC limits.

STL San Francisco

Sample Receipt Checklist

Submission #:2005- 05-0552

Checklist completed by:	BT	DATE	5/19/05
Courier: STL SF	Courier ☐ Fedex UPS Other		Client ☐

	Log-In Details	Yes	No	Comments
1	Custody seals intact on shipping container/samples		✓	
2	Chain of custody present?	✓		
3	Chain of custody signed when relinquished and received?	✓		☐ Picked up at Secure Location ☐ Client signed off at time prior to pickup
4	All samples checked when COC relinquished		✓	
5	Chain of custody agrees with sample labels?	✓		
6	Samples in proper container/bottle?	✓		
7	Sample containers intact?	✓		
8	Sufficient sample volume for indicated test?	✓		
9	All samples received within holding time?	✓		

Cooler Temperature Compliance Check

Temperature Blank Reading	If no trip blank is submitted individual temperatures must be taken as per SOP	Cooler Sample Temperature #1	#2	#3	Average
3°C	→				

Reason for Elevated Temperature

☐ - Ice Melted ☐ Insufficient Ice ☐

☐ Samp. in boxes ☐ Sampled < 4hr. ☐ Ice not req.

Samples with Temp > 6°C - Comments

VOA Sample Inspection

	Sample #	Small	Med.	Large
Are bubbles present in any of the VOA vials?		0	0	0
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Samples with broken, cracked or leaking containers

Water - pH acceptable upon receipt?	Yes	No
	☐	☐

Samples with Unacceptable pH

☐ pH adjusted– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –Lot #(s) _____

Comments:

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

Project Manager: (initials) _____ Date: ____/____/05 Client contacted: Yes ☐ N ☐

Summary of discussion:

Corrective Action (per PM/Client):

2005 Checklist Rev. 2.0

ConocoPhillips Chain Of Custody Record

115209

STL-San Francisco

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

2005-05-0552

ConocoPhillips Work Order Number: 4583 TRC 501

ConocoPhillips Cost Object

DATE: 05/17/05

PAGE: 1 of 1

SAMPLING COMPANY:	TRC
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER	6129
GLOBAL ID NO.:	T0600101465
ADDRESS:	21 Technology Drive, Irvine CA 92618
SITE ADDRESS (Street and City):	3420 35th Ave, Oakland
CONOCOPHILLIPS SITE MANAGER:	Thomas Kosel
PROJECT CONTACT (Hardcopy or PDF Report to):	Anju Farfan
TELEPHONE:	949-341-7440
FAX:	949-753-0111
E-MAIL:	afarfan@trcsolutions.com
EDF DELIVERABLE TO (RP or Designee):	Peter Thomson, TRC pthomson@trcsolutions.com
PHONE NO.:	949-341-7408
E-MAIL:	
LAB USE ONLY	
SAMPLER NAME(S) (Print):	Rick R.
CONSULTANT PROJECT NUMBER	41050001/FA20

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

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MTBE	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/MTBE	Lead ☐Total ☐STLC ☐TCLP	TPPH, BTEX & 8 Oxy by 8260B		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	05/17	1323	GW	3									X	X	VOAs w/HCL
	MW-2	↓	1330	↓	↓									↓	↓	↓
	MW-3	↓	1338	↓	↓									↓	↓	↓

TEMPERATURE ON RECEIPT C°: 3°c

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature]	05/17/05	1500
[signature]	[signature]	5-18-05	0950
[signature]	[signature]	5-18-05	1630

5/19/03 Revision

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 containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums 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.