RO 2444



76 Broadway Sacramento, California 95818

November 1, 2005

Mr. Don Hwang Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

Re:

Report Transmittal Quarterly Report Third Quarter – 2005 76 Service Station #7124 10151 International Blvd Oakland, CA Alameda County

Environmental Health

Dear Mr. Hwang:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact

Shelby S. Lathrop (Contractor) ConocoPhillips Risk Management & Remediation 76 Broadway Sacramento, CA 95818 Phone: 916-558-7609

Fax: 916-558-7639

Sincerely,

Thomas Kosel

Risk Management & Remediation

Home H. Koal

Attachment

INTERNATIONAL INCORPORATED

V3017 Kligore Road, Suite 100 Rancho Cordova, CA 95670 916-861-0400 TEL 916-861-0430 FAX

November 1, 2005

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

RE: Quarterly Summary and Monitoring Report – Third Quarter 2005

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

Location

76 Service Station No. 7124

10151 International Blvd Oakland, California

- 11

If there are questions or comments regarding this quarterly summary report, please contact me at (916) 861-0400.

Sincerely,

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SECOR International Incorporational Incorporation of the Incor

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QUARTERLY SUMMARY REPORT Third Quarter 2005

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

City/County ID #: Oakland

County: Alameda

SITE DESCRIPTION

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.

PREVIOUS ASSESSMENT

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.

Mr. Donald Hwang November 1, 2005 Page 3

SENSITIVE RECEPTORS

During the third quarter 2004, SECOR completed a ½-mile radius agency receptor survey and obtained an Environmental Data Resources (EDR) radius map for the site from Environmental Data Resources, Incorporated. The agency survey identified 2 industrial supply wells, 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 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 the third quarter 2002. Currently, four wells are monitored quarterly (MW-1 through MW-4). Samples are analyzed for total purgeable petroleum hydrocarbons (TPPH), BTEX, and the fuel oxygenates tert-butyl alcohol (TBA), MtBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (EtBE), tert-amyl methyl ether (TAME), ethylene di-bromide (EDB), and ethanol by EPA Method 8260B.

DISCUSSION

During the third quarter 2005, depth to groundwater ranged between 15.92 and 17.93 feet bgs, which was in range of historical levels. Historical groundwater depths have been reported between 12.83 feet and 18.66 feet bgs. The direction of groundwater flow was toward the west at a gradient of 0.012 foot/foot.

Evaluation of dissolved concentrations through the third quarter 2005 indicates that the highest concentrations of residual petroleum hydrocarbons and MtBE continue to be detected in on-site wells MW-3 and MW-4. TPPH and MtBE were reported at maximum concentrations in well MW-3 this quarter at 2,400 μ g/L and 160 μ g/L respectively. The dissolved plume remains undefined by the existing monitoring well network.

On October 14, 2004, SECOR submitted a workplan for the installation of monitoring wells offsite to delineate the dissolved phase hydrocarbons in groundwater. However, in a letter dated April 12, 2005, the Alameda County Environmental Health Services (ACEHS) disapproved the workplan stating that it was premature to install more monitoring wells without additional groundwater sampling to determine the location of the plume for optimal well locations. Therefore, an addendum to the October 14, 2004 workplan was submitted on July 22, 2005 and awaits approval.

CHARACTERIZATION STATUS

Contamination in soil is adequately delineated for benzene. The highest concentrations of residual TPPH 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-3 and MW-4 contain elevated concentrations of TPPH and MtBE.

SECOR

Mr. Donald Hwang November 1, 2005 Page 4

REMEDIATION STATUS

Currently, there is no active remediation at this site.

RECENT SUBMITTALS/CORRESPONDENCE

Submitted:

Quarterly Summary and Monitoring Report – Second Quarter 2005, dated August 10, 2005

Addendum to Workplan for Additional Off-Site Monitoring Well Installation, dated July 22, 2005.

WASTE DISPOSAL SUMMARY

The volume of purged groundwater generated and disposed of during the quarterly groundwater monitoring event is documented in TRC's Quarterly Monitoring Report, July through September, 2005, dated October 18, 2005 (Attachment 1).

THIS QUARTER ACTIVITIES (Third Quarter 2005)

- 1. TRC performed coordinated groundwater monitoring and sampling event.
- 2. SECOR prepared and submitted quarterly summary report.
- 3. SECOR prepared and submitted addendum to the Workplan for Additional Off-Site Monitoring Well Installation.

NEXT QUARTER ACTIVITIES (Fourth Quarter 2005)

- 1. TRC to perform coordinated groundwater monitoring and sampling event.
- 2. SECOR to prepare and submit quarterly summary and monitoring report.
- 3. SECOR to implement Work Plan dated July 22, 2005 pending agency approval.

LIMITATIONS

This report presents our understanding of existing conditions at the subject site. The conclusions contained herein are based on the analytical results, and professional judgment in accordance with current standards of professional practice; no other warranty is expressed or implied. SECOR assumes no responsibility for exploratory borings or data reported by other consultants or contractors.

Sincerely.

SECOR International Incorporated

Adrian Pérez, P.E. Associate Engineer

Attachment 1: TRC's Quarterly Monitoring Report – July through September 2005, dated October 18, 2005

ATTACHMENT 1 TRC'S QUARTERLY MONITORING REPORT JULY THROUGH SEPTEMBER 2005

76 Service Station No. 7124 10151 East 14th Street Oakland, California November 1, 2005



October 20, 2005

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 2005

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,

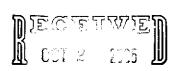
TRC

Anju Farfan

QMS Operations Manager

CC: Mr. Thomas Potter, Secor International, Inc (2 copies)

Enclosures 200400/7124R08.QMS.doc





QUARTERLY MONITORING REPORT JULY THROUGH SEPTEMBER 2005

76 STATION 7124 10151 International Blvd. Oakland, California

Prepared For:

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

By:

Senior Project Geologist, Irvine Operations October 18, 2005

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 8260B Concentrations vs. Time								
Field Activities	General Field Procedures								
	Groundwater Sampling Field Notes								
Laboratory	Official Laboratory Reports								
Reports	Quality Control Reports								
	Chain of Custody Records								
Statements	Purge Water Disposal								
	Limitations								

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Summary of Gauging and Sampling Activities July 2005 through September 2005 76 Station 7124 10151 International Blvd. Oakland, CA

Project Coordinator: Thomas H. Kosel Telephone: 916-558-7666	Water Sampling Contractor: <i>TRC</i> Compiled by: Valentina Tobon
Date(s) of Gauging/Sampling Event: 09/23	3/05
Sample Points	
Groundwater wells: 4 onsite, 0 off Purging method: Diaphragm pump Purge water disposal: Onyx/Rodeo Unit 1 Other Sample Points: 0 Type: n/a	
Liquid Phase Hydrocarbons (LPH)	
Wells with LPH: 0 Maximum thickness (LPH removal frequency: n/a Treatment or disposal of water/LPH: n/a	feet): n/a Method: n/a
Depth to groundwater (below TOC): Min Average groundwater elevation (relative to a Average change in groundwater elevation sin Interpreted groundwater gradient and flow d Current event: 0.012 ft/ft, west Previous event: 0.012 ft/ft, west (06)	nce previous event: -1.37 feet lirection:
Selected Laboratory Results	
Wells with detected Benzene: 0 Maximum reported benzene concentration	Wells above MCL (1.0 μg/l): n/a n: n/a
Wells with TPPH 8260B 3 Wells with MTBE 3	Maximum: 2,400 μg/l (MW-3) Maximum: 160 μg/l (MW-3)
Notes:	

TABLES

TABLE KEY

STANDARD ABREVIATIONS

-- = not analyzed, measured, or collected

LPH = liquid-phase hydrocarbons

Trace = less than 0.01 foot of LPH in well

mg/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

 $TAME \hspace{1cm} = \hspace{1cm} tertiary \hspace{1cm} amyl \hspace{1cm} methyl \hspace{1cm} ether \hspace{1cm}$

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.
- Groundwater elevations for wells with LPH are calculated as: <u>Surface Elevation Measured Depth to Water + (Dp x LPH Thickness)</u>, 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.

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
September 23, 2005
76 Station 7124

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness		Change in Elevation	TPH-G	TPPH 8260B	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(µg/l)	
MW-1 9/23/200	05 37.37	15.92	0.00	21.45	-1.54	 -	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
MW-2 9/23/200	05 37.87	17.29	0.00	20.58	-1.35		120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ни	10	
MW-3 9/23/200	05 37.72	17.20	0.00	20.52	-1.29	 -	2400	ND<0.50	ND<0.50	ND<0.50	ND<1.0		160	
MW-4 9/23/200	05 38.36	17.93	0.00	20.43	-1.30	**	1500	ND<0.50	ND<0.50	ND<0.50	ND<1.0		34	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
April 2002 Through September 2005
76 Station 7124

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G	TPPH 8260B	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	
MW-1														
4/8/200	2 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	
7/28/20	02 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	
11/3/20	02 37.37	16.75	0.00	20.62	-0.87		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
1/24/20	03 37.37	13.94	0.00	23.43	2.81		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
4/2/200	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	
7/1/200	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	
10/2/20	03 37.37	16.68	0.00	20.69	-1.20		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
1/9/200	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	
4/26/20	04 37.37	15.21	0.00	22.16	-1.42		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
7/22/20	04 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	
10/29/20	004 37.37	7 16.14	0.00	21.23	0.29		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
1/12/20	05 37.37	7 12.83	0.00	24.54	3.31		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
6/20/20	05 37.37	7 14.38	0.00	22.99	-1.55		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
9/23/20	05 37.37	7 15.92	0.00	21.45	-1.54		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
MW-2														
4/8/200	2 37.87	7 15.86	0.00	22.01		4400		ND<2.5	ND<2.5	6.4	ND<2.5	380	490	
7/28/20	02 37.87	7 17.28	0.00	20.59	-1.42		3200	ND<2.5	ND<2.5	ND<2.5	ND<5.0		170	
11/3/20	02 37.87	7 18.03	0.00	19.84	-0.75		3800	ND<5.0	ND<5.0	ND<5.0	ND<10		72	
1/24/20	03 37.87	7 15.59	0.00	22.28	2.44		410	ND<2.5	ND<2.5	ND<2.5	ND<5.0		490	
4/2/200	37.87	7 16.50	0.00	21.37	-0.91	w.=	1000	ND<5.0	ND<5.0	ND<5.0	ND<10		180	
7/1/200	37.87	7 16.94	0.00	20.93	-0.44		1900	ND<2.5	ND<2.5	ND<2.5	ND<5.0		120	
10/2/20	03 37.87	7 17.93	0.00	19.94	-0.99		6900	ND<0.50	ND<0.50	ND<0.50	ND<1.0		32	
1/9/200	37.87	7 15.42	0.00	22.45	2.51		1000	ND<2.5	ND<2.5	ND<2.5	ND<5.0		300	
4/26/20	04 37.87	7												Covered with asphalt

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7124

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
April 2002 Through September 2005
76 Station 7124

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G	ТРРН 8260В	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(μg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	(μg/l)	(µg/l)	
MW-2	continued													
7/22/20									m+4					Covered with asphalt
10/29/20			0.00											Well is paved over.
1/12/20			M								7-			Well was paved over.
6/20/20		15.94	0.00	21.93			120	ND<0.50	ND<0.50	ND<0.50	ND<1.0		46	
9/23/20	05 37.87	17.29	0.00	20.58	-1.35		120	ND<0.50	ND<0.50	ND<0.50	ND<1.0		10	
MW-3														
4/8/200	2 37.72	15.86	0.00	21.86		8700		65	ND<25	400	ND<25	6500	8300	
7/28/20	02 37.72	17.22	0.00	20.50	-1.36		4500	ND<25	ND<25	ND<25	ND<50		1100	
11/3/20	02 37.72	17.90	0.00	19.82	-0.68		25000	ND<5.0	ND<5.0	25	ND<10		470	
1/24/20	03 37.72	15.57	0.00	22.15	2.33		6000	ND<25	ND<25	94	ND<50		10000	
4/2/200	37.72	16.45	0.00	21.27	-0.88		130000	ND<100	ND<100	ND<100	ND<200		4400	
7/1/200	37.72	16.88	0.00	20.84	-0.43		9400	ND<10	ND<10	ND<10	ND<20		2200	
10/2/20	03 37.72	17.85	0.00	19.87	-0.97	w.	73000	ND<50	ND<50	ND<50	ND<100		460	
1/9/200	04 37.72	15.31	0.00	22.41	2.54		8700	ND<25	ND<25	98	ND<50		3800	
4/26/20	04 37.72	16.62	0.00	21.10	-1.31		6700	ND<25	ND<25	ND<25	ND<50		3900	
7/22/20	04 37.72	17.62	0.00	20.10	-1.00		13000	ND<25	ND<25	ND<25	ND<50		980	
10/29/20	004 37.72	17.29	0.00	20.43	0.33		4600	ND<5.0	ND<5.0	13	ND<10		640	
1/12/20	05 37.72	14.64	0.00	23.08	2.65		6100	0.88	0.99	30	2.2		6900	
6/20/20	05 37.72	15.91	0.00	21.81	-1.27		1900	ND<0.50	0.21J	0.52	0.46J		960	
9/23/20	05 37.72	17.20	0.00	20.52	-1.29		2400	ND<0.50	ND<0.50	ND<0.50	ND<1.0		160	
MW-4														
4/8/200	02 38.36	16.59	0.00	21.77		13000		ND<5.0	ND<5.0	28	ND<5.0	790	980	
7/28/20	02 38.36	17.93	0.00	20.43	-1.34		18000	ND<2.5	ND<2.5	ND<2.5	ND<5.0		170	
11/3/20	02 38.36	18.66	0.00	19.70	-0.73		220	ND<0.50	ND<0.50	ND<0.50	ND<1.0		5.7	

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Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
April 2002 Through September 2005
76 Station 7124

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness		Change in Elevation	TPH-G	ТРРН 8260 В	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	(µg/l)	(μg/l)	
MW-4	continued	1												
1/24/20	03 38.36	16.27	0.00	22.09	2.39		ND<1000	ND<10	ND<10	ND<10	ND<20		1000	
4/2/200	38.36	17.19	0.00	21.17	-0.92		130000	ND<100	ND<100	ND<100	ND<200		ND<400	
7/1/200	38.36	17.61	0.00	20.75	-0.42		15000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	==	170	
10/2/20	38.36	18.58	0.00	19.78	-0.97		7100	ND<10	ND<10	ND<10	ND<20		70	
1/9/200	4 38.36	16.15	0.00	22.21	2.43		18000	ND<10	ND<10	ND<10	ND<20		530	
4/26/20	04 38.36	17.20	0.00	21.16	-1.05		6500	ND<10	ND<10	ND<10	ND<20		240	
7/22/20	04 38.36	18.34	0.00	20.02	-1.14		18000	ND<10	ND<10	ND<10	ND<20		48	
10/29/20	04 38.36	18.13	0.00	20.23	0.21		2700	ND<2.5	ND<2.5	ND<2.5	ND<5.0		76	
1/12/20	05 38.36	15.22	0.00	23.14	2.91		1300	ND<0.50	ND<0.50	ND<0.50	ND<1.0		620	
6/20/20	05 38.36	16.63	0.00	21.73	-1.41		980	ND<0.50	ND<0.50	ND<0.50	ND<1.0		110	
9/23/20	05 38.36	17.93	0.00	20.43	-1.30		1500	ND<0.50	ND<0.50	ND<0.50	ND<1.0		34	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7124

Date Sampled	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8015B	Ethanol 8260B
	(µg/l)	(µg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	(mg/l)	(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
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<0,50	ND<5.0	ND<1.0	ND<0.50		ND<50
10/29/2004	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50		ND<50
1/12/2005	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50		ND<50
6/20/2005	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<0.50	ND<0.50		ND<1000
9/23/2005	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<0,50	ND<0.50		ND<1000
MW-2								
4/8/2002	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	ND<10000	
7/28/2002	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	
11/3/2002	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000	
1/24/2003	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	
4/2/2003	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000	
7/1/2003	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	
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
6/20/2005	ND<0.50	ND<0.50	ND<0.50	25	ND<0.50	ND<0.50		ND<1000
9/23/2005	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<0.50	ND<0.50		ND<1000
MW-3 10/2/2003	ND<200	ND<200	ND<200	ND<10000	ND<200	ND<200		ND<50000
							ъ.	

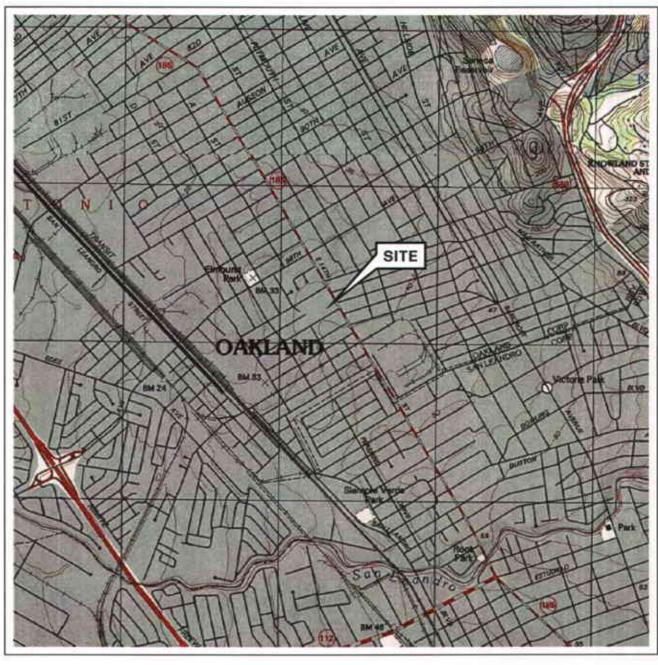
7124

Page 1 of 2

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7124

Date Sampled	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8015B	Ethanol 8260B
	(μg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	(mg/l)	(μg/l)
MW-3	ontinued							
1/9/2004	ND<100	ND<100	ND<100	ND<5000	ND<100	ND<100		ND<25000
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<25	ND<250	ND<50	ND<25		ND<2500
10/29/2004	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<10	ND<5.0	~~	ND<500
1/12/2005	ND<25	ND<25	ND<25	1300	ND<50	ND<25		ND<2500
6/20/2005	ND<0.50	ND<0.50	0.31J	39	ND<0,50	ND<0,50		ND<1000
9/23/2005	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<0,50	ND<0.50		ND<1000
MW-4								
	ND<100	ND<100	ND<100	ND<5000	ND<100	ND<100	ND<25000	
7/28/2002	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	
11/3/2002		ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	48
1/24/2003		ND<40	ND<40	ND<2000	ND<40	ND<40	ND<10000	
4/2/2003	ND<400	ND<400	ND<400	ND<20000	ND<400	ND<400	ND<100000	
7/1/2003	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	
10/2/2003		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
4/26/2004		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
10/29/2004		ND<10 ND<2.5	ND<10 ND<2.5	63	ND<5.0	ND<10 ND<2.5	 	ND<250
	ND<2.5	ND<10	ND<2.5	1300	ND<5.0	ND<2.5		ND<250
6/20/2005		ND<0.50	ND<0.50	580	ND<0.50	ND<0.50		ND<1000
9/23/2005		ND<0.50	ND<0.50	92	ND<0.50	ND<0,50		ND<1000
9/23/2003	ML/0.30	ひしいへいかい	1417~0.30	92	0C,0~UM	ML,0,00		MD~1000

FIGURES





3/4 1 MILE 1/2

SCALE 1:24,000

SOURCE:

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

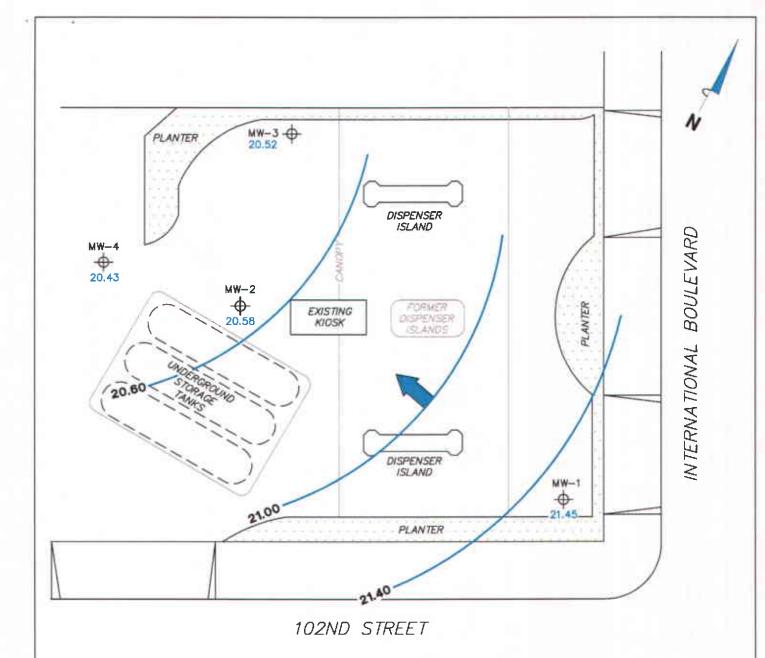




VICINITY MAP

76 Station 7124 10151 International Boulevard Oakland, California

FIGURE 1



NOTES:

PS=1:1 7124-003

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

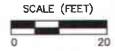
MW-4 Monitoring Well with Groundwater Elevation (feet) 21.40 Groundwater Elevation Contour General Direction of Groundwater Flow

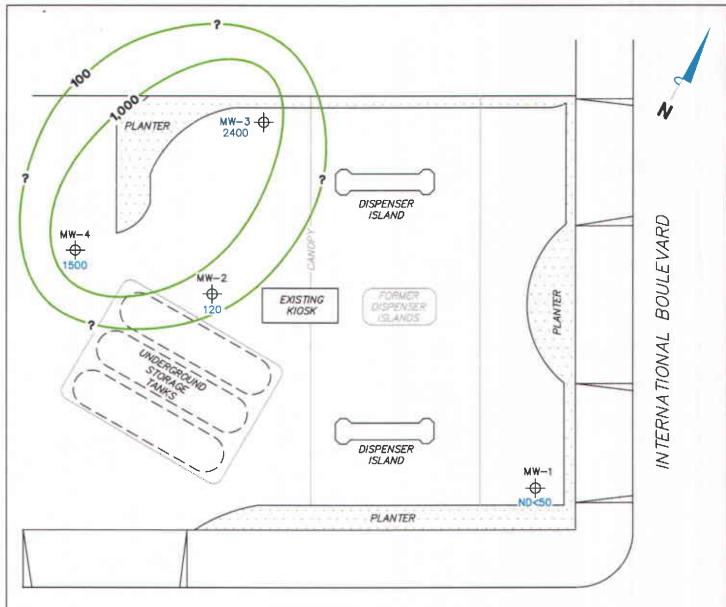
GROUNDWATER ELEVATION CONTOUR MAP September 23, 2005

76 Station 7124 10151 International Boulevard Oakland, California

FIGURE 2

TRC





102ND STREET

NOTES:

PS=1:1 7124-003

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbons. $\mu g/l = micrograms$ per liter. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 8260B.

LEGEND

_1,000 Dissolved—Phase TPPH
Contour (µg/l)

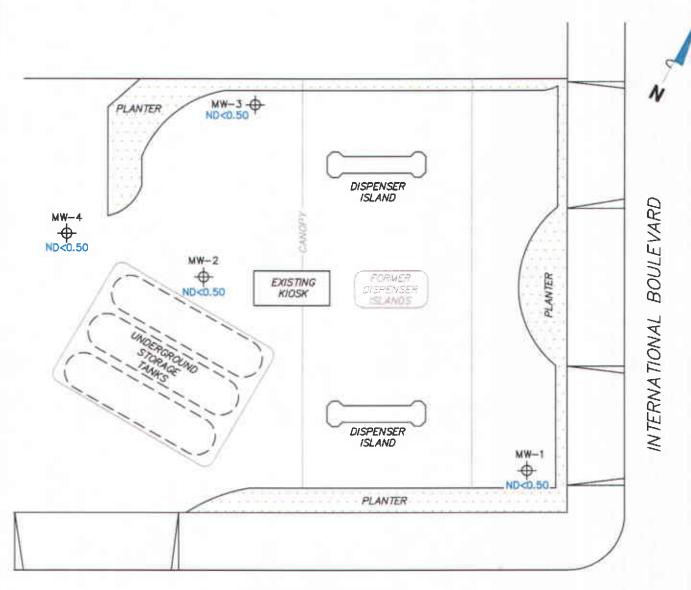
DISSOLVED-PHASE TPPH CONCENTRATION MAP September 23, 2005

76 Station 7124 10151 International Boulevard Oakland, California





FIGURE 3



102ND STREET

NOTES:

PS=1:1 7124-003

 $\mu g/l=$ micrograms per liter. ND = not detected at limit indicated on official laboratory report.

LEGEND

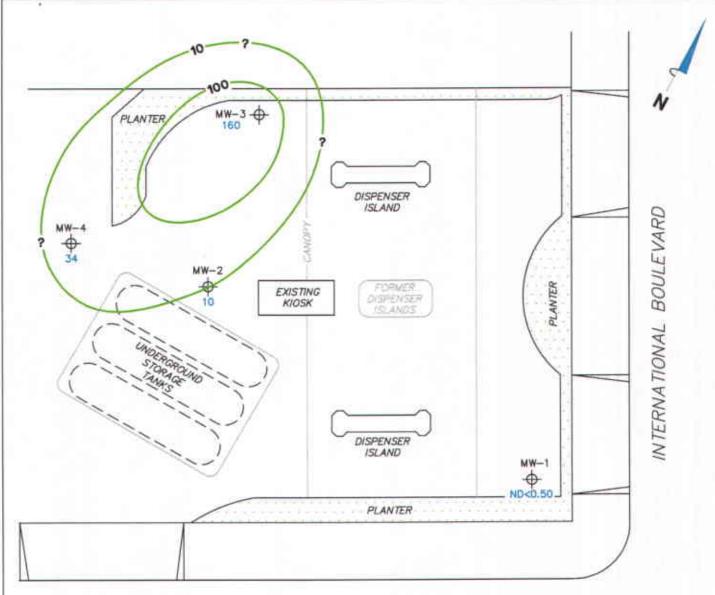
TRC



DISSOLVED-PHASE BENZENE CONCENTRATION MAP September 23, 2005

76 Station 7124 10151 International Boulevard Oakland, California

FIGURE 4

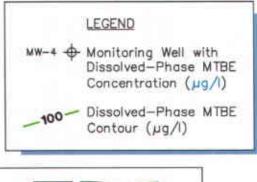


102ND STREET

NOTES:

PS=1:1 7124-003

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether, $\mu g/l =$ micrograms per liter. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 82608.



DISSOLVED-PHASE MTBE CONCENTRATION MAP September 23, 2005

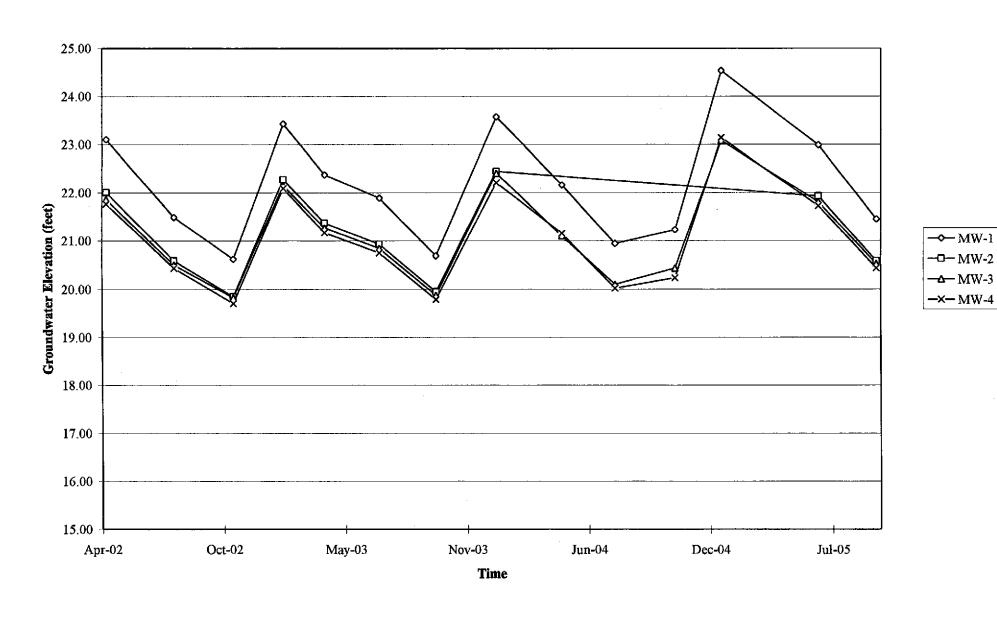
76 Station 7124 10151 International Boulevard Oakland, California

FIGURE 5

SCALE (FEET)

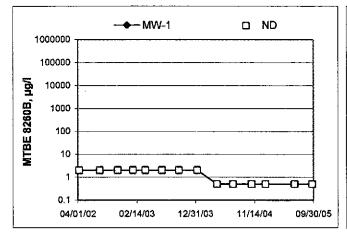
GRAPHS

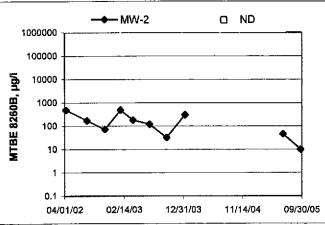
Groundwater Elevations vs. Time 76 Station 7124

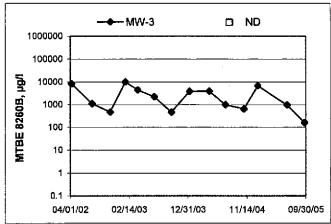


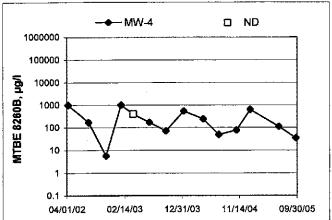
MTBE 8260B Concentrations vs Time

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 measurements 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, sample time, and the sampler's 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 the 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 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 wells, 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.

1/5/04 version

FIELD MONITORING DATA SHEET

Technician: QLL R.	Job #/Task #: 41050001 /FA20	Date: <u>09/23/05</u>
Site # 7124	Project Manager A. Collins	Page _ / _ of _ \

······································				Depth	Depth	Product				
Well #	Time Gauged	тос	Total Depth	to Water	to Product	Thickness (feet)	Time Sampled	Misc. Well Notes		
HW-1	0626		24.45	15.92			0734	4"		
	1630		25.19	17.29	, -	-	1751	4"		
MW-4	0634		24.90	17.93			0807	4"		
t .	0642	/		17.20			0828	4"		
			ļ							
		ļ								
	<u> </u>									
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	+	 	+				 			
·	-				<u> </u>					
			 		 					
·				 						
FIELD DAT	A COMPL	ETE	QA/Q(ငတွင်	N	/ELL BOX C	COMDITION SHEETS		
			/							
WTT CERT	IFICATE		MANIFE	ST	DRUM IN	VENTORY_	TRA	AFFIC CONTROL		

		\ar	COUNDANT	O THE THE	G FILLY 11010					
			Technician:	Vick 8	2					
Site:	1124		Project No.:	410500	901	-	Date: 09/	123/05		
Well No.:	1-wn	 		Purge Method	DIA					
Depth to Wat	er (feet): 16	,92	_		uct (feet): 0					
-	feet): 24.	75			Recovered (gall	ions): <u>O</u>	• ·			
Water Colum	n (feet): 8	83			iter (Inches): 4	<u> </u>				
80% Recharg	je Deplh (leel):	17.69		1 Well Volume	e (gallons):	·	•			
Time Start	Time Stop	Depth To Water	Volume Purged	Conduc- tivity	Temperature	ρН	Turbidity	D.O.		
		(feet)	(gallons)	(uS/cm)	(F/C)					
0725			6	1510	18.2	7.01	·.			
			12	510	189	7.00		-		
	17731		18	511	19.0	7.02				
	V					1				
					<u> </u>			•		
Sta	tic at Time Sam	pled		tal Gallons Pu	rged	Time Sampled				
17	.48		18		0	734				
Comments:										
								·		
:								1		
						··				
Well No.:	_	000	;	Purge Method	DIA		<u> </u>			
	er (feet): 17			Depth to Prod						
	eel): <u>25, 1</u>				Recovered (gall	ons): <u>0</u>				
	(feet): +				ter (Inches): 💆	`				
80% Recharg	e Depth (feet):	16.87		1 Well Volume	(gallons): 💆			· ·		
Time	Time	- Depth	. Volume	Conduc-	Temperature			· · · · ·		
Start	Stop	To Water	Purged	tivity		ρН	Turbidity	ס.ס.		
07.111		(feet)	(gallons)	(uS/cm)	(F. ©)			-		
0444			5	561	19.1	7.10				
	0 = 110		0	564	19.5	7.12		Ì		
<u></u>	0749		19	565	19.5	7.13		Ĵ		
Stat	ic at Time Sam	pled		lal Gallons Pur	ged		Time Sample	ed		
17	74		19			07	51			
Comments:		.								
					· · · · · · · · · · · · · · · · · · ·	<u> </u>	·			
 								<u> </u>		

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GRUUNUAAN EU DAMELING LICEO NOTES

		. —	Technician:	Die	,12.			
Site:	7124		Project No.:	4105			Date: 09	123/09
Well No.:	MW-4			Purge Method	OIN	•		
Depth to Wal	`	7.93		_	luct (feet): 0	· · ·		
Total Depth (f	O. I.	90	-		Recovered (gall	ons): $oldsymbol{arrho}$		
Water Colum	_ /	97	•		eter (inches): L			
	e Depth (feet):	10 20		1 Well Volum	/ -)		
_								
Time Start	Time Stop	Depth To Water	Volume Purged	Conduc- tivity	Temperature	ρН	Turbidity	D.O.
The state of the s	Side	(feet)	(gallons)	{uS/cm}	(F.C)	p:.	* Croicity	D. O.
0800			5	587	19.1	7.16		
		y =	10	590	19.1	7.16	•	
	0805		15	588	192	7.16		
	0007				1 100	. ((6)		
· · · · · · · · · · · · · · · · · · ·				<u> </u>				
Stat	ic at Time Sam	pled	T ₀	I otal Gallons Pu	rged		Time Sampl	eđ
18	.57		15		C	1807		
Comments:	, <u></u>			-				
					· · · · · · · · · · · · · · · · · · ·			
;		-		·				
· · · · · · · · · · · · · · · · · · ·								
Well No.:				Purge Method	DIA			
Depth to Wate	er (feet): \ \ \frac{7}{4}	.20		Depth to Prod	uct (feet):			
Total Depth (R	eet): <u>25.</u>	92		LPH & Water	Recovered (gatt	ons):Ø	· · · · · · · · ·	
	(feet): +	12		Casing Diame	ter (Inches): 4	1.5		
80% Recharge	e Depth (feet):_	8.79		1 Well Volume	e (gallons): 5			
Time	Time	De-sh		1		· · · · · · · · · · · · · · · · · · ·		
Start	Stop	Depth To Water	Volume Purged	Conduc- livity	Temperature	рН	Turbidity	D.O.
1		(feet)	(gallons)	(uS/cm)	(F/C)	μ.,	raibidity	. D.O.
0819			5	543	18,6	7.07		· ·
			10	481	18.8	7.00		
	0823		15	552	189		· · · · · · · · · · · · · · · · · · ·	· ·
	35.1		1.2	.)) ~	10,1	7,10		
State	c at Time Samp	Nori	7-	1-1 C-11 D				
	36	ACC .	15	ital Gallons Pur		0	Time Sampl	ed .
Comments:					082	8		
ज्यातास्याः .			·		-	·		
					·			



Date of Report: 10/03/2005

Anju Farfan

TRC Alton Geoscience

21 Technology Drive

Irvine, CA 92618-2302

RE: 7124

BC Lab Number: 0509487

Enclosed are the results of analyses for samples received by the laboratory on 09/23/05 22:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Surratt

Client Service Rep

Authorized Signature

Project: 7124
Project Number: [none]

Project Manager: Anju Farfan

Reported: 10/03/05 16:28

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informa	tion		
0509487-01	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	 7124 MW-1 MW-1 Rick R. of TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	 Delivery Work Order (LabW: Global ID: 1000 Matrix: W Samle QC Type (SACode): CS Cooler ID:
0509487-02	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	 7124 MW-2 MW-2 Rick R. of TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	Delivery Work Order (LabW: Global ID: 1000 Matrix: W Samle QC Type (SACode): CS Cooler ID:
0509487-03	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	7124 MW-4 MW-4 Rick R. of TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	 Delivery Work Order (LabW: Global ID: 1000 Matrix: W Samle QC Type (SACode): CS Cooler ID:
0509487-04	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	7124 MW-3 MW-3 Rick R. of TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	 Delivery Work Order (LabW: Global ID: 1000 Matrix: W Samle QC Type (SACode): CS Cooler ID:

Project: 7124

Project Number: [none]

Project Manager: Anju Farfan

Reported: 10/03/05 16:28

BCL Sample ID: 0509487-01	Client Sam	ple Nam	e: 7124, M	W-1, M	IW-1, 9/23	/2005 7	:34:00AM, Ric	kR.					
-						Prep	Run		Instru-	• •	QC	MB	Lab
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	0.15	
Toluene	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
t-Arnyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
t-Buty! alcohol	ND	ug/L	10		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
Diisopropyl ether	ND	ug/L	0.50	*,**	EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
Ethanol	ND	ug/L	1000		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BO11108	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCI	L - UCL)	EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108		
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LC	L - UCL)	EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LC	L - UCL)	EPA-8260	09/28/05	09/30/05 01:42	MGC	MS-V5	1	BOI1108		

Project: 7124

Project Number: [none]

Project Manager: Anju Farfan

Reported: 10/03/05 16:28

BCL Sample ID: 05	509487-02	Client Sam	ple Nam	ne: 7124, MW-2	, MW-2, 9/23	/2005 7	:51:00AM, Ric	kR.					
Constituent		Result	Units	PQL MD	L Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52		MS-V5	1	BOI1108	ND	quais
1,2-Dibromoethane		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52		MS-V5	1	BOI1108	ND	
Ethylbenzene		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
Methyl t-butyl ether		10	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	0.15	
Toluene		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
Total Xylenes		ND	ug/L	1.0	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
t-Amyl Methyl ether		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
t-Butyl alcohol		ND	ug/L	10	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BO!1108	ND	
Diisopropyl ether		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
Ethanol		ND	ug/L	1000	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
Ethyl t-butyl ether		ND	ug/L	0.50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
Total Purgeable Petroleun Hydrocarbons	n	120	ug/L	50	EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane-d4 (Su	ırrogate)	105	%	76 - 114 (LCL - UC	L) EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108		
Toluene-d8 (Surrogate)		95.2	%	88 - 110 (LCL - UC	L) EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108		
4-Bromofluorobenzene (Si	urrogate)	106	%	86 - 115 (LCL - UC	L) EPA-8260	09/28/05	09/30/05 12:52	MGC	MS-V5	1	BOI1108		

Project Number: [none]
Project Manager: Anju Farfan

Reported: 10/03/05 16:28

BCL Sample ID: 050948	87-03	Client Sam	ole Nam	e: 7124, MV	N-4, M	W-4, 9/23	/2005 8	:07:00A <mark>M</mark> , Ric	kR.					
· · · · · · · · · · · · · · · · · · ·							Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
1,2-Dibromoethane		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
Ethylbenzene	•	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
Methyl t-butyl ether		34	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	0.15	
Toluene		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
Total Xylenes		ND	ug/L	1.0		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
t-Amyl Methyl ether		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BQI1108	ND	
t-Butyl alcohol		92	ug/L .	10		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
Diisopropyl ether		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	- Line -
Ethanol		ND	ug/L	1000		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
Ethyl t-butyl ether		ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
Total Purgeable Petroleum Hydrocarbons		1500	ug/L	50		EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane-d4 (Surroga	te)	100	%	76 - 114 (LCL	- UCL)	EPA-8260	09/28/05	09/30/05 13:25	MGC.	MS-V5	1	BOI1108		
Toluene-d8 (Surrogate)		101	%	88 - 110 (LCL	- UCL)	EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108		
4-Bromofluorobenzene (Surroga	ate)	95.2	%	86 - 115 (LCL	- UCL)	EPA-8260	09/28/05	09/30/05 13:25	MGC	MS-V5	1	BOI1108		

Project: 7124

Project Number: [none]

Project Manager: Anju Farfan

Reported: 10/03/05 16:28

BCL Sample ID: 0509487-0	4 Client Sam	ple Nam	ie: 7124, l	MW-3, M	1W-3, 9/23	/2005 8	:28:00AM, Ric	kR.					
_						Prep	Run		Instru-		QC	MB	Lab
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	···
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
Methyl t-butyl ether	160	ug/L	10		EPA-8260	09/28/05	09/29/05 20:41	MGC	MS-V5	20	BOI1108	3.0	A01
Toluene	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	·
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	····
t-Butyl alcohol	ND	ug/L	10		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	·
Ethanol	ND	ug/L	1000	T T T T T T T T T T T T T T T T T T T	EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108	ND	
Total Purgeable Petroleum Hydrocarbons	2400	ug/L	50		EPA-8260	09/28/05	09/30/05 13:58	MGC	M\$-V5	1	BOI1108	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LC	CL - UCL)	EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108		
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LC	CL - UCL)	EPA-8260	09/28/05	09/29/05 20:41	MGC	MS-V5	20	BOI1108		
Toluene-d8 (Surrogate)	104	%	88 - 110 (L0	CL - UCL)	EPA-8260	09/28/05	09/29/05 20:41	MGC	MS-V5	20	BOI1108		
Toluene-d8 (Surrogate)	104	%	88 - 110 (LC	CL - UCL)	EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LC	CL - UCL)	EPA-8260	09/28/05	09/30/05 13:58	MGC	MS-V5	1	BOI1108		
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LC	CL - UCL)	EPA-8260	09/28/05	09/29/05 20:41	MGC	MS-V5	20	BOI1108		



Project: 7124
Project Number: [none]

Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

										Contr	ol Limits
		•		Source		Spike			Percent		Percent
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals
Benzene	BO11108	BOI1108-MS1	Matrix Spike	ND	26.320	25.000	ug/L		105		70 - 130
		BOI1108-MSD1	Matrix Spike Duplicate	ND	26.210	25.000	ug/L	0.00	105	20	70 - 130
Toluene	BOI1108	BOI1108-MS1	Matrix Spike	ND	26.680	25.000	ug/L		107	`	70 - 130
		BOI1108-MSD1	Matrix Spike Duplicate	ND	26.510	25.000	ug/L	0.939	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BOI1108	BOI1108-MS1	Matrix Spike	ND	10.080	10.000	ug/L		101		76 - 114
		BOI1108-MSD1	Matrix Spike Duplicate	ND	10.150	10.000	ug/L		102		76 - 114
Toluene-d8 (Surrogate)	BOI1108	BOI1108-MS1	Matrix Spike	ND	10.100	10.000	ug/L	,	101		88 - 110
		BOI1108-MSD1	Matrix Spike Duplicate	ND	10.230	10.000	ug/L		102		88 - 110
4-Bromofluorobenzene (Surrogate)	BOI1108	BOI1108-MS1	Matrix Spike	ND	10.270	10.000	ug/L		103		86 - 115
		BOI1108-MSD1	Matrix Spike Duplicate	ND	10.580	10.000	ug/L		106		86 - 115

Reported: 10/03/05 16:28

Project: 7124

Project Number: [none]
Project Manager: Anju Farfan

Reported: 10/03/05 16:28

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

									Control	Limits	
Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Percent RPD Recovery	RPD	Lab Quals
Benzene	BOI1108	BOI1108-BS1	LCS	25.860	25.000	0.50	ug/L	103	70 - 130		
Toluene	BOI1108	BOI1108-BS1	LCS	25.630	25.000	0.50	ug/L	103	70 - 130		· · · · · · · · · · · · · · · · · · ·
1,2-Dichloroethane-d4 (Surrogate)	BOI1108	BOI1108-BS1	LCS	10.400	10.000		ug/L	104	76 - 114		
Tolueлe-d8 (Surrogate)	BOI1108	BOI1108-BS1	LCS	10.190	10.000		ug/L	102	88 - 110		
4-Bromofluorobenzene (Surrogate)	BOI1108	BOI1108-BS1	LCS	10.740	10.000		ug/L	107	86 - 115		

Project: 7124

Project Number: [none]

Project Manager: Anju Farfan Reported: 10/03/05 16:28

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.12	
1,2-Dibromoethane	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.25	
Ethylbenzene	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.13	
Methyl t-butyl ether	BOI1108	BOI1108-BLK1	0.15000	ug/L	0.50	0.15	M03
Toluene	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.15	
Total Xylenes	BOI1108	BOI1108-BLK1	ND	ug/L	1.0	0.40	
t-Arnyl Methyl ether	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.31	
t-Butyl alcohol	BOI1108	BOI1108-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.25	
Ethanol	BOI1108	BOI1108-BLK1	ND	ug/L	1000	110	
Ethyl t-butyl ether	BOI1108	BOI1108-BLK1	ND	ug/L	0.50	0.27	
Total Purgeable Petroleum Hydrocarbons	BOI1108	BOI1108-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BOI1108	BOI1108-BLK1	111	%	76 - 114 (I	CL - UCL)	
Toluene-d8 (Surrogate)	BOI1108	BOI1108-BLK1	101	%	88 - 110 (I	CL - UCL)	
4-Bromofluorobenzene (Surrogate)	BOI1108	BOI1108-BLK1	99.0	%	86 - 115 (I	_CL - UCL)	

Project: 7124

Project Number: [none]

Project Manager: Anju Farfan

Reported: 10/03/05 16:28

Notes and Definitions

M03	Analyte detected in the Method Blank at a level between the PQL and the MDL.
-----	--

J Estimated value

A01 PQL's and MDL's are raised due to sample dilution.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

BC LABORATORIES INC.		SAN	IPLE REC	EIPT FOI	RM	Rev. No.	10 01/2	1/04 F	age	01
Submission #: 05- 948	2 P	roject C	ode:			TB	Batch #			
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BC Lab Field Service 2 Other C	7 (Specify	v)			Box			er □{Sp	ecify)	
		·								
Refrigerant: Ice 🗹 Blue Ice 🛭	None	e 🖸 💢 🤆	Other []	Comme	nts:					
	Containe	re 🗇	None	Comme	nte:					
Intact? Yes O No D		5 No		Commi	::1163.					
All samples received? Yes Ø No □	Alf sample	s container	rs intact? Y	65/87 No	0	Descrip	lion(s) matc			
COC Received	Į.	Ice C	hest ID 1	1/W		sivīty		Date/T	ime <u>9/23</u>	2245
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Sample Numbering Completed By: you Date/Time: 9/24 0/00

BC LABORATORIES, INC.

4100 Atlas Court D Bakersfield, CA 93303 (361) 327-4911 © FAX (661) 327-1918

CHAIN OF CUSTODY

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		#05-	9487			Arinl	ys s	Re	que	ste	a		
: Phillips 66 / Unoca	Consultant Firm: TF	₹६		İ	ťΩ		u d))				
Iress: 101 St. Threenation (1 Technology Not). Irvine, CA 926 Attn: Anju Fall V: OAKIAND 4-digit site#: Workorder # te: CA Zip: Project #: U Ilips 66 /Unocal Mgr: Stampler Nam O# Sample Description Field Point Nam			- papali, a papali (A. Mala), e filado i defalha se	Ground- water (S)	Gas by		O.	8260B			08		Requested
v: OAKIAND 4-digit s Workere te: CA Zip: Project: Ilips 66 /Unocal Mgr: Siampler ord Sample Description Field Point 1 MW-1 2 MW-2 3 MW-4 9 MW-3		Ц	of pulps or printer to seeme terminals and annuals.	(V/VV)	M.	± 10 € 5	Q I	in in	10		165		S.
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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.