R0482

ConocoPhillips

76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

October 25, 2004

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

Re: **Document Transmittal**
Fuel Leak Case
76 Station #7176
7850 Amador Valley Blvd
Dublin, CA

Dear Mr. Hwang:

Please find attached Miller Brook's *Quarterly Summary Report, dated 10/28/04* for the above referenced site. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or report is true and correct.

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

Sincerely,

Thomas H. Kosel

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

Attachment
cc: Jed Douglas, MB

MILLER BROOKS
Environmental, Inc.

October 28, 2004

Mr. Scott Seery
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: **Quarterly Summary Report-Third Quarter 2004**
Miller Brooks Environmental, Inc. Project No.: 06-459-7176-04

Dear Mr. Seery:

On behalf of ConocoPhillips Company (ConocoPhillips), Miller Brooks Environmental, Incorporated (Miller Brooks) is forwarding the quarterly summary report for the following location:

Service Station	**Location**
76 Service Station No. 7176 COP NO. WNO.1635	7850 Amador Valley Boulevard Dublin, California

Sincerely,
Miller Brooks Environmental, Incorporated

REGISTERED GEOLOGIST
JED A. DOUGLAS
NO. 7516
STATE OF CALIFORNIA

Jed Douglas, R.G. No. 7516
Senior Geologist

Attachment: Site Plan

cc: Mr. Thomas Kosel, ConocoPhillips

QUARTERLY SUMMARY REPORT
Third Quarter 2004

76 Service Station No. 7176
7850 Amador Valley Boulevard
Dublin, California

City/County ID #: ACHCS #RO0000482

County: Alameda

PREVIOUS ASSESSMENT

In November 1994, Unocal Corporation (Unocal) replaced the fuel underground storage tanks (USTs) and removed the used-oil UST and associated product piping. An oil/water separator was also decommissioned. No holes or signs of leakage were observed on the fuel USTs, however, eight holes up to 0.5 inches in diameter were observed in the used-oil UST. The soil sample analyzed from beneath the used-oil UST was reported as non detect for all analytes. The soil samples collected from beneath the fuel USTs indicate that petroleum hydrocarbons are present in the soil near the fuel UST cavity and product dispensers. Prior to the installation of the new USTs, two, six-inch diameter conductor casings were installed in the UST backfill material.

In October 1995, Unocal performed a soil and groundwater investigation that included drilling six soil borings (B1 through B6) and constructing three on-site groundwater monitoring wells (U1 through U3). Total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (TPHg), and benzene were present in the soil samples analyzed up to 25 milligrams per kilogram (mg/kg), 150 mg/kg, and 0.21 mg/kg, respectively.

During March 1998, Tosco Marketing Company (Tosco, now ConocoPhillips) performed an off-site soil and groundwater investigation that included installation of two off-site groundwater monitoring wells (MW4 and MW5). Petroleum hydrocarbons were not detected in the soil samples collected from these boreholes.

In June 2001, Environmental Resolutions Inc. (ERI) submitted an *Addendum to Request and Work Plan for Case Closure,* including hydrographs and concentration versus time graphs for select wells, and required agency closure summary forms.

SENSITIVE RECEPTORS

In August 2000, ERI submitted a *Request and Work Plan for Case Closure* presenting the results of a groundwater receptor survey and risk-based corrective action Tier II analysis and requesting closure of the environmental case. No active groundwater production wells were positively identified within the survey radius during the agency or field groundwater receptor surveys.

GROUNDWATER MONITORING AND SAMPLING

Groundwater beneath the site is currently monitored and sampled on a semi-annual basis during the first and third quarter of each year. During the July 2, 2004, monitoring and sampling event, groundwater was present beneath the site at depths ranging from 15.41 to 17.87 feet below the top of casing (TOC). The groundwater flow direction was reported towards the east at a gradient of 0.01 ft/ft. Historically, the groundwater flow direction has been reported towards the southeast. TPHg, TPHd, benzene, and methyl tertiary butyl ether (MTBE) were present in the groundwater at concentrations up to 5,700, 400, 1.4, and 6.6 micrograms per liter (µg/L), respectively.

REMEDIATION STATUS

Approximately 5,000 gallons of groundwater were removed from the fuel UST cavity during the 1994 UST replacement activities. A total of 15,511 gallons of groundwater have been removed historically from the site through periodic groundwater purging of the UST cavity. Approximately 1,863 tons of hydrocarbon-impacted soil were excavated and removed from the site during the 1994 UST replacement activities.

CHARACTERIZATION STATUS

The soil impact beneath the site is limited to a small area surrounding UST cavity and dispenser islands. Groundwater beneath the site is delineated, however there are elevated concentrations of TPHg and TPHd in well MW-4. These concentrations have shown a decreasing trend since 2001.

RECENT CORRESPONDENCE

There was no correspondence during the reporting period.

THIS QUARTER ACTIVITIES (Third Quarter 2004)

1. The monitoring well network was monitored and sampled by TRC Companies Inc. (TRC).

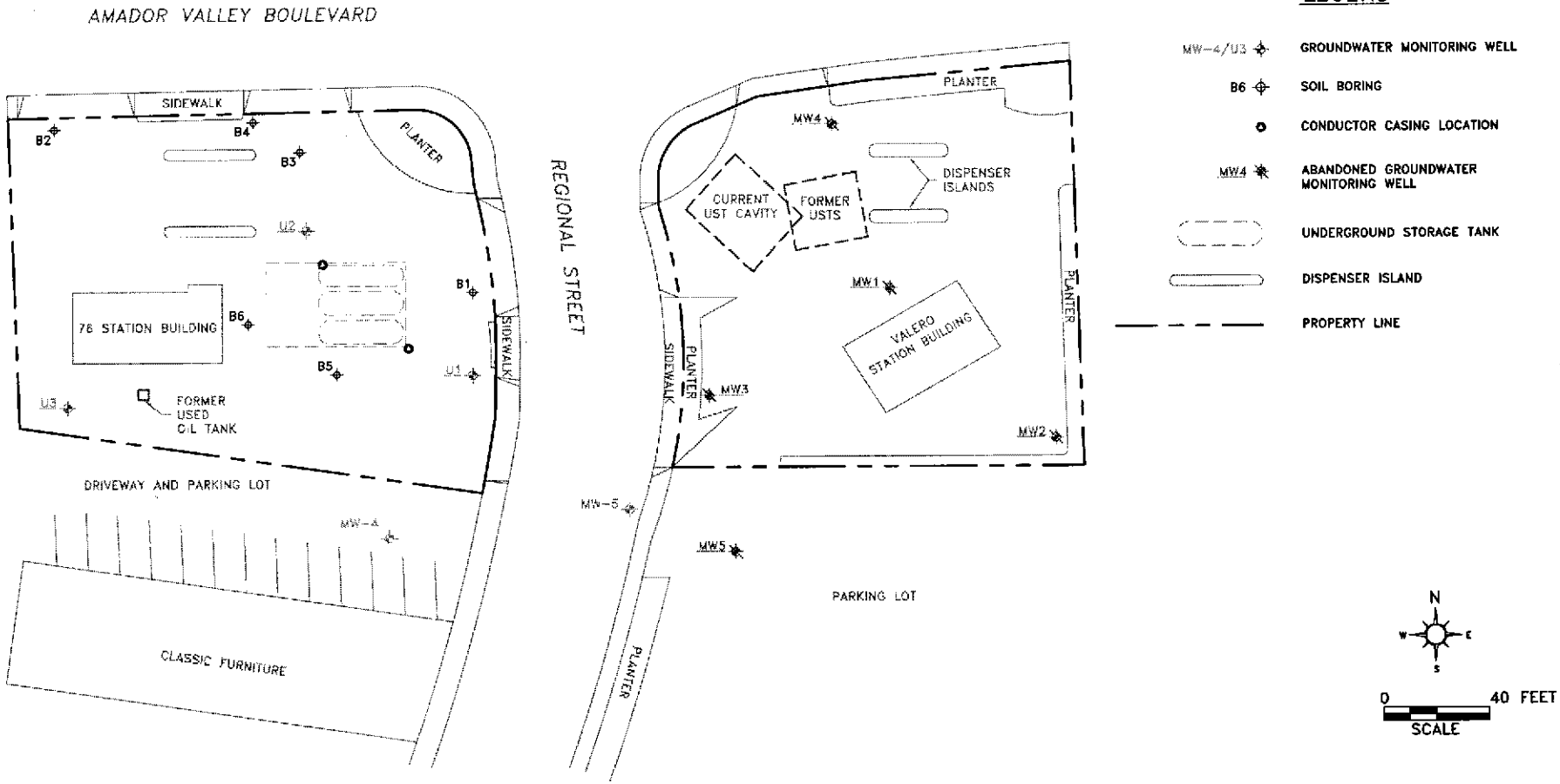
WASTE DISPOSAL SUMMARY

No waste was generated during this reporting period.

NEXT QUARTER ACTIVITIES (Fourth Quarter 2004)

1. Miller Brooks is currently awaiting a response from the Alameda County Health Care Services Agency to ConocoPhillips request for site closure, submitted in June 2001.

CONSULTANT: Miller Brooks Environmental, Incorporated



MILLER BROOKS Environmental, Inc.	DRAWN BY: DCN	SITE PLAN	FIGURE 2
720 SOUTHPOINT BLVD., SUITE 207 PETALUMA, CA. 94954 (707) 765-0466	DATE: 03/25/04 REVISED BY: REVISED: APPROVED BY: JAD	76 SERVICE STATION 7176 7850 AMADOR VALLEY BLVD. DUBLIN, CA	
PROJECT NO. 06-459-7176-04	DATE: 03/25/04	FILE: K:\DWGS\C-P\ NO. 7176 (7850 AMADOR BLVD.)\SITE PLAN DATE PLOTTED: 05/25/04	

R0482

TRC
Customer-Focused Solutions

August 4, 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 7176
7850 AMADOR VALLEY BLVD.
DUBLIN, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2004

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 7176, located at 7850 Amador Valley Blvd., Dublin, 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. Scott Seery, Alameda County Health Care Services
Mr. Paul Blank, ERI, Inc.
Mr. Jed Douglas, Miller Brooks Environmental

Enclosures
20-0400/7176R02.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-753-0101 • Fax 949-753-0111

TRC

Customer-Focused Solutions

QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2004

76 STATION 7176
7850 Amador Valley Blvd.
Dublin, California

Prepared For:

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

By:

Senior Project Geologist, Irvine Operations
August 4, 2004

21 Technology Drive • Irvine, California 92618
Telephone 949-753-0101 • Fax 949-753-0111

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 Figure 6: Dissolved-Phase TPH-D Concentration Map
Graphs	Benzene Concentrations vs. Time MTBE 8260B Concentrations vs. Time Groundwater Elevations vs. Time
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2004 through September 2004
76 Station 7176
7850 Amador Valley Blvd.
Dublin, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Report compiled by: **Tim Simpkins**
Date(s) of Gauging/Sampling Event: **07/02/04**

Sample Points

Groundwater wells: **5** onsite, **0** offsite wells gauged: **5** wells sampled: **5**
Purging method: **diaphragm pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **N/A**

Liquid Phase Hydrocarbons (LPH)

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

Hydrogeologic Parameters

Depth to groundwater (feet below TOC): Minimum: **15.41 feet** Maximum: **17.87 feet**
Average groundwater elevation (feet relative to available datum): **339.80**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, east**
Previous event: **0.003 ft/ft, southeast (02/04/04)**

Selected Laboratory Results

Wells with detected **benzene: 2** Wells **above MCL** (1.0 µg/l): **1**
Maximum reported benzene concentration: **1.4 µg/l (U-1)**

Wells with **MTBE** 4 Maximum: **6.6µg/l (U-2)**
Wells with **TPPH 8260B** 4 Maximum: **5,700µg/l (U-2)**

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.

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. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

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

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: 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.

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 7176 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 2, 2004

76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-4		**(Screen Interval in feet: 10.0-25.0)**												
07/02/04	356.41	16.52	0.00	339.89	-0.97	--	170	ND<0.5	ND<0.5	ND<0.5	ND<1	--	0.83	
MW-5		**(Screen Interval in feet: 10.0-25.0)**												
07/02/04	355.03	15.41	0.00	339.62	-1.00	--	80	ND<0.5	ND<0.5	ND<0.5	ND<1	--	2.0	
U-1		**(Screen Interval in feet: 10.0-30.0)**												
07/02/04	355.59	16.57	0.00	339.02	-1.91	--	2600	0.56	ND<0.5	5.3	ND<1	--	5.4	
U-2		**(Screen Interval in feet: 10.0-30.0)**												
07/02/04	356.55	16.28	0.00	340.27	-0.92	--	5700	1.4	2.8	6.6	5.5	--	6.6	
U-3		**(Screen Interval in feet: 10.0-30.0)**												
07/02/04	358.09	17.87	0.00	340.22	-1.00	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1995 Through July 2004

76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-4	**(Screen Interval in feet: 10.0-25.0)**													
04/23/98	356.41	12.11	0.00	344.30	--	2500	--	5.9	6.4	16	31	ND	--	
07/08/98	356.41	13.70	0.00	342.71	-1.59	1000	--	ND	ND	ND	ND	ND	--	
10/05/98	356.41	15.18	0.00	341.23	-1.48	890	--	ND	ND	ND	14	ND	--	
01/04/99	356.41	16.39	0.00	340.02	-1.21	230	--	0.56	1.3	1.4	1.8	10	--	
04/05/99	356.41	14.61	0.00	341.80	1.78	620	--	ND	1.8	2.1	ND	6	9.3	
07/01/99	356.41	15.43	0.00	340.98	-0.82	700	--	2.1	ND	1.9	2.4	ND	21	
09/30/99	356.41	16.27	0.00	340.14	-0.84	582	--	2.6	1.3	1.98	ND	23.1	22.5	
01/03/00	356.41	17.50	0.00	338.91	-1.23	800	--	4.2	4.6	3.3	11	31	17	
04/04/00	356.41	13.91	0.00	342.50	3.59	710	--	2	1.3	4.4	2	21	22	
07/14/00	356.41	15.58	0.00	340.83	-1.67	490	--	0.89	1.3	0.85	1.8	21	12	
10/27/00	356.41	16.96	0.00	339.45	-1.38	598	--	ND	1.56	4.65	ND	15.4	14	
01/08/01	356.41	16.64	0.00	339.77	0.32	522	--	4.09	1.69	2.53	1.26	17.2	14.3	
04/03/01	356.41	--	0.00	--	--	575	--	ND	ND	ND	ND	14.0	11.6	
07/06/01	356.41	--	0.00	--	--	720	--	4.7	1.5	2.5	0.74	10	7.1	
10/05/01	356.41	--	0.00	--	--	650	--	4.3	1.2	1.1	1.8	5.9	5.4	
01/03/02	356.41	--	0.00	--	--	340	--	2.9	1.4	1.7	ND<1.0	ND<10/	3.1	
04/01/02	356.41	--	0.00	--	--	340	--	ND<0.50	2.7	ND<0.50	0.66	ND<5.0	2.2	
07/01/02	356.41	15.53	0.00	340.88	--	--	280	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.58	
01/24/03	356.41	14.52	0.00	341.89	1.01	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/28/03	356.41	15.47	0.00	340.94	-0.95	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1	ND<2	ND<2	
02/04/04	356.41	15.55	0.00	340.86	-0.08	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/02/04	356.41	16.52	0.00	339.89	-0.97	--	170	ND<0.5	ND<0.5	ND<0.5	ND<1	--	0.83	
MW-5	**(Screen Interval in feet: 10.0-25.0)**													

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1995 Through July 2004
76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-5 continued														
04/23/98	355.03	11.15	0.00	343.88	--	120	--	0.53	0.9	1	3.8	13	--	
07/08/98	355.03	12.63	0.00	342.40	-1.48	ND	--	ND	ND	ND	ND	12	--	
10/05/98	355.03	14.00	0.00	341.03	-1.37	ND	--	ND	ND	ND	ND	12	--	
01/04/99	355.03	15.21	0.00	339.82	-1.21	ND	--	ND	ND	ND	ND	ND	--	
04/05/99	355.03	13.76	0.00	341.27	1.45	ND	--	ND	ND	ND	ND	ND	ND	
07/01/99	355.03	14.48	0.00	340.55	-0.72	ND	--	ND	ND	ND	ND	ND	ND	
09/30/99	355.03	15.15	0.00	339.88	-0.67	50.8	--	ND	ND	ND	ND	ND	ND	
01/03/00	355.03	16.34	0.00	338.69	-1.19	ND	--	ND	ND	ND	ND	ND	ND	
04/04/00	355.03	12.90	0.00	342.13	3.44	ND	--	ND	ND	ND	ND	ND	ND	
07/14/00	355.03	14.48	0.00	340.55	-1.58	ND	--	ND	ND	ND	ND	ND	ND	
10/27/00	355.03	15.75	0.00	339.28	-1.27	ND	--	ND	ND	ND	ND	ND	ND	
01/08/01	355.03	15.25	0.00	339.78	0.50	ND	--	ND	ND	ND	ND	ND	ND	
04/03/01	355.03	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	ND	
07/06/01	355.03	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	ND	
10/05/01	355.03	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
01/03/02	355.03	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.6	
04/01/02	355.03	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	3.5	
07/01/02	355.03	14.51	0.00	340.52	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
01/24/03	355.03	13.53	0.00	341.50	0.98	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.3	
07/28/03	355.03	14.40	0.00	340.63	-0.87	--	ND<50	ND<0.50	ND<0.50	ND0.50	ND<1	3.4	3.4	
02/04/04	355.03	14.41	0.00	340.62	-0.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
07/02/04	355.03	15.41	0.00	339.62	-1.00	--	80	ND<0.5	ND<0.5	ND<0.5	ND<1	--	2.0	

U-1 **(Screen Interval in feet: 10.0-30.0)**

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1995 Through July 2004

76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
U-1 continued														
10/12/95	355.62	15.38	0.00	340.24	--	33000	--	1400	ND	1400	3100	--	--	
01/11/96	355.62	16.33	0.00	339.29	-0.95	8300	--	690	11	680	1500	--	--	
04/11/96	355.62	12.20	0.00	343.42	4.13	3200	--	110	ND	180	290	790	--	
07/10/96	355.62	13.84	0.00	341.78	-1.64	2600	--	81	4.4	210	230	510	--	
10/30/96	355.62	15.85	0.00	339.77	-2.01	2200	--	67	19	140	150	360	--	
01/27/97	355.62	12.20	0.00	343.42	3.65	4600	--	98	ND	360	290	150	--	
04/08/97	355.62	13.46	0.00	342.16	-1.26	2800	--	50	ND	220	140	ND	--	
07/17/97	355.62	15.30	0.00	340.32	-1.84	2300	--	30	4.5	140	94	190	--	
10/17/97	355.62	16.33	0.00	339.29	-1.03	1500	--	31	6.7	110	88	220	--	
01/19/98	355.62	14.34	0.00	341.28	1.99	3100	--	46	3.4	310	200	170	--	
04/23/98	355.59	11.16	0.00	344.43	3.15	3400	--	72	3.8	470	350	280	--	
07/08/98	355.59	12.67	0.00	342.92	-1.51	4500	--	51	ND	590	430	190	--	
10/05/98	355.59	14.57	0.00	341.02	-1.90	7500	--	53	ND	680	350	190	180	
01/04/99	355.59	15.35	0.00	340.24	-0.78	10000	--	ND	ND	1200	540	--	ND	
04/05/99	355.59	13.64	0.00	341.95	1.71	4900	--	34	ND	350	150	150	55	
07/01/99	355.59	14.39	0.00	341.20	-0.75	10000	--	45	ND	850	420	260	110	
09/30/99	355.59	15.32	0.00	340.27	-0.93	7150	--	ND	ND	415	84.4	ND	195	
01/03/00	355.59	16.51	0.00	339.08	-1.19	5400	--	28	8.4	180	33	160	120	
04/04/00	355.59	12.89	0.00	342.70	3.62	4800	--	30	ND	210	93	170	160	
07/14/00	355.59	14.56	0.00	341.03	-1.67	6200	--	41	16	170	32	170	120	
10/27/00	355.59	15.96	0.00	339.63	-1.40	3830	--	16.8	ND	68.6	7.99	55.2	38	
01/08/01	355.59	15.72	0.00	339.87	0.24	2410	--	14.7	4.3	30.5	5.04	34.5	9.33	
04/03/01	355.59	--	0.00	--	--	3,330	--	15.8	5.96	74.8	7.06	ND	13.3	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1995 Through July 2004
76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
U-1 continued														
07/06/01	355.59	--	0.00	--	--	4,300	--	23	6.4	57	6.8	58	36	
10/05/01	355.59	--	0.00	--	--	3,800	--	19	ND<5.0	19	ND<5.0	64	36	
01/03/02	355.59	--	0.00	--	--	4,500	--	25	ND<10	24	ND<10	ND<100	23	
04/01/02	355.59	--	0.00	--	--	5,300	--	36	6.7	48	12	93	59	
07/01/02	355.59	14.61	0.00	340.98	--	--	3,900	ND<0.50	ND<0.50	ND<0.50	3.9	--	23	
01/24/03	355.59	13.82	0.00	341.77	0.79	--	3,400	ND<2.5	ND<2.5	37	ND<5.0	--	21	
07/28/03	355.59	14.51	0.00	341.08	-0.69	--	7100	ND<2.5	ND<2.5	12	ND<5	13	13	
02/04/04	355.59	14.66	0.00	340.93	-0.15	--	4000	ND<0.50	ND<0.50	13	ND<1.0	--	9.6	
07/02/04	355.59	16.57	0.00	339.02	-1.91	--	2600	0.56	ND<0.5	5.3	ND<1	--	5.4	
U-2	**(Screen Interval in feet: 10.0-30.0)**													
07/08/95	356.59	12.68	0.00	343.91	--	17000	--	430	ND	2200	590	--	--	
10/12/95	356.59	16.01	0.00	340.58	-3.33	24000	--	310	60	1900	190	--	--	
01/11/96	356.59	17.06	0.00	339.53	-1.05	10000	--	210	55	1400	240	--	--	
04/11/96	356.59	12.75	0.00	343.84	4.31	7700	--	130	27	1100	110	340	--	
07/10/96	356.59	14.42	0.00	342.17	-1.67	5600	--	59	15	610	42	250	--	
10/30/96	356.59	16.82	0.00	339.77	-2.40	7700	--	67	35	1000	54	260	--	
01/27/97	356.59	12.91	0.00	343.68	3.91	1600	--	14	ND	130	7	100	--	
04/08/97	356.59	14.07	0.00	342.52	-1.16	4300	--	35	ND	400	16	ND	--	
07/17/97	356.59	15.96	0.00	340.63	-1.89	6200	--	17	22	410	ND	130	--	
10/17/97	356.59	17.03	0.00	339.56	-1.07	7100	--	71	26	520	50	ND	--	
01/19/98	356.59	15.10	0.00	341.49	1.93	5300	--	46	11	350	16	110	--	
04/23/98	356.55	11.74	0.00	344.81	3.32	3200	--	23	11	210	38	160	--	
07/08/98	356.55	13.27	0.00	343.28	-1.53	1600	--	34	8.5	100	7.4	190	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1995 Through July 2004

76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
U-2 continued														
10/05/98	356.55	14.90	0.00	341.65	-1.63	2900	--	37	8.4	110	7.3	78	--	
01/04/99	356.55	15.94	0.00	340.61	-1.04	2200	--	35	ND	17	ND	86	--	
04/05/99	356.55	14.19	0.00	342.36	1.75	4900	--	21	77	130	310	100	6.9	
07/01/99	356.55	14.98	0.00	341.57	-0.79	1500	--	7.6	ND	ND	ND	ND	35	
09/30/99	356.55	16.00	0.00	340.55	-1.02	256	--	1.85	ND	2.42	ND	26.3	29.8	
01/03/00	356.55	17.20	0.00	339.35	-1.20	3400	--	23	13	ND	44	46	14	
04/04/00	356.55	13.50	0.00	343.05	3.70	3600	--	34	17	56	ND	59	25	
07/14/00	356.55	15.23	0.00	341.32	-1.73	3100	--	16	13	15	10	100	19	
10/27/00	356.55	16.74	0.00	339.81	-1.51	4180	--	30.4	10.2	14.6	ND	55.5	15	
01/08/01	356.55	16.68	0.00	339.87	0.06	3300	--	33.5	7.32	3.49	ND	66.7	7.49	
04/03/01	356.55	--	0.00	--	--	4,290	--	32.4	9.91	20.1	ND	66.6	18.1	
07/06/01	356.55	--	0.00	--	--	4,700	--	35	11	12	5.3	62	19	
10/05/01	356.55	--	0.00	--	--	3,600	--	31	9.6	8.7	6.9	62	13	
01/03/02	356.55	--	0.00	--	--	4,600	--	34	11	15	5.8	62	7.5	
04/01/02	356.55	--	0.00	--	--	3,500	--	38	9.3	10	6.5	87	18	
07/01/02	356.55	15.24	0.00	341.31	--	--	4,500	ND<0.50	ND<0.50	5.0	1.7	--	ND<0.50	
01/24/03	356.55	14.31	0.00	342.24	0.93	--	2,300	1.1	1.5	6.9	2.4	--	5.9	
07/28/03	356.55	15.18	0.00	341.37	-0.87	--	5600	ND<2.5	ND<2.5	3.4	ND<5	ND<10	ND<10	
02/04/04	356.55	15.36	0.00	341.19	-0.18	--	4400	ND<5.0	ND<5.0	7.0	ND<10	--	ND<20	
07/02/04	356.55	16.28	0.00	340.27	-0.92	--	5700	1.4	2.8	6.6	5.5	--	6.6	
U-3	**(Screen Interval in feet: 10.0-30.0)**													
07/08/95	358.13	14.58	0.00	343.55	--	1100	--	0.57	2.1	1.7	2.4	--	--	
10/12/95	358.13	17.60	0.00	340.53	-3.02	560	--	ND	0.87	0.7	1.1	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1995 Through July 2004
76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
U-3 continued														
10/05/01	358.09	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
01/03/02	358.09	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
04/01/02	358.09	--	0.00	--	--	ND<50	--	ND<0.50	1.1	ND<0.50	1.2	ND<5.0	ND<2.0	
07/01/02	358.09	16.77	0.00	341.32	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	ND<2.018	
01/24/03	358.09	15.75	0.00	342.34	1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	ND<2.019	
07/28/03	358.09	16.74	0.00	341.35	-0.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1	ND<2	ND<2	
02/04/04	358.09	16.87	0.00	341.22	-0.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/02/04	358.09	17.87	0.00	340.22	-1.00	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7176

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-4									
07/08/98	1400	--	--	--	--	--	--	--	--
01/04/99	71	--	--	--	--	--	--	--	--
04/05/99	340	--	ND	ND	ND	ND	ND	ND	ND
07/01/99	260	--	ND	ND	ND	ND	ND	ND	ND
09/30/99	420	--	ND	ND	ND	ND	ND	ND	ND
01/03/00	250	--	ND	ND	ND	ND	ND	ND	ND
04/04/00	460	--	ND	ND	ND	ND	ND	ND	ND
07/14/00	220	--	ND	ND	ND	ND	ND	ND	ND
10/27/00	160	--	ND	ND	ND	ND	ND	ND	ND
01/08/01	--	--	ND	ND	ND	ND	ND	ND	ND
04/03/01	180	--	ND	ND	ND	ND	ND	ND	ND
07/06/01	230	--	ND	ND	ND	ND	ND	ND	ND
10/05/01	180	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<1,000	ND<2.0
01/03/02	390	--	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	ND<1.0
04/01/02	160	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	ND<2.0
07/01/02	130	--	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<25	ND<0.50
01/24/03	52	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	ND<2.0
07/28/03	110	--	ND<2	ND<2	ND<100	ND<2	ND<2	ND<500	ND<2
02/04/04	94	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
07/02/04	ND<200	ND<0.5	ND<0.5	ND<1	ND<12	ND<1	ND<1	ND<800	--
MW-5									
07/08/98	170	--	--	--	--	--	--	--	--
01/04/99	ND	--	--	--	--	--	--	--	--
04/05/99	ND	--	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	--	ND	ND	ND	ND	ND	ND	ND
09/30/99	60.4	--	ND	ND	ND	ND	ND	ND	ND

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7176

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-5 continued									
01/03/00	ND	--	ND	ND	ND	ND	ND	ND	ND
04/04/00	69	--	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	--	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	--	ND	ND	ND	ND	ND	ND	ND
01/08/01	--	--	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	--	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	--	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<50	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<1,000	ND<2.0
01/03/02	ND<51	--	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	ND<1.0
04/01/02	ND<50	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	ND<2.0
07/01/02	ND<60	--	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<25	ND<0.50
01/24/03	ND<50	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	ND<2.0
07/28/03	ND<50	--	ND<2	ND<2	ND<100	ND<2	ND<2	ND<500	ND<2
02/04/04	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
07/02/04	ND<200	ND<0.5	ND<0.5	ND<1	ND<12	ND<1	ND<1	ND<800	--
U-1									
10/12/95	4200	--	--	--	--	--	--	--	--
01/11/96	8200	--	--	--	--	--	--	--	--
04/11/96	5630	--	--	--	--	--	--	--	--
07/10/96	2200	--	--	--	--	--	--	--	--
10/30/96	560	--	--	--	--	--	--	--	--
01/27/97	2300	--	--	--	--	--	--	--	--
04/08/97	1300	--	--	--	--	--	--	--	--
07/17/97	460	--	--	--	--	--	--	--	--
10/17/97	510	--	--	--	--	--	--	--	--
01/19/98	1900	--	--	--	--	--	--	--	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7176

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-1 continued									
07/08/98	2000	--	--	--	--	--	--	--	--
01/04/99	2700	--	--	--	--	--	--	--	--
04/05/99	920	--	ND	ND	ND	ND	ND	ND	ND
07/01/99	2700	--	ND	ND	ND	ND	ND	ND	ND
09/30/99	2360	--	ND	ND	ND	ND	ND	ND	ND
01/03/00	2000	--	ND	ND	ND	ND	ND	ND	ND
04/04/00	990	--	ND	ND	ND	ND	ND	ND	ND
07/14/00	2800	--	ND	ND	ND	ND	ND	ND	ND
10/27/00	1400	--	ND	ND	ND	ND	ND	ND	ND
01/08/01	--	--	ND	ND	ND	ND	ND	ND	ND
04/03/01	1,500	--	ND	ND	ND	ND	ND	ND	ND
07/06/01	1,600	--	ND	ND	ND	ND	ND	ND	ND
10/05/01	2,500	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<1,000	ND<2.0
01/03/02	2,200	--	ND<5.0	ND<5.0	ND<100	ND<5.0	ND<5.0	ND<2,500	ND<5.0
04/01/02	1,800	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	ND<10
07/01/02	2,100	--	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<25	ND<0.50
01/24/03	2,100	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	ND<10
07/28/03	2100	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	ND<10
02/04/04	1300	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
07/02/04	400	ND<0.5	ND<0.5	ND<1	ND<12	ND<1	ND<1	ND<800	--
U-2									
07/08/95	4700	--	--	--	--	--	--	--	--
10/12/95	3600	--	--	--	--	--	--	--	--
01/11/96	8600	--	--	--	--	--	--	--	--
04/11/96	1900	--	--	--	--	--	--	--	--
07/10/96	2300	--	--	--	--	--	--	--	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7176

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-3									
07/08/95	710	--	--	--	--	--	--	--	--
10/12/95	470	--	--	--	--	--	--	--	--
01/11/96	260	--	--	--	--	--	--	--	--
04/11/96	ND	--	--	--	--	--	--	--	--
07/10/96	ND	--	--	--	--	--	--	--	--
10/30/96	ND	--	--	--	--	--	--	--	--
01/27/97	ND	--	--	--	--	--	--	--	--
04/08/97	ND	--	--	--	--	--	--	--	--
07/17/97	ND	--	--	--	--	--	--	--	--
10/17/97	63	--	--	--	--	--	--	--	--
01/19/98	68	--	--	--	--	--	--	--	--
07/08/98	80	--	--	--	--	--	--	--	--
01/04/99	ND	--	--	--	--	--	--	--	--
04/05/99	ND	--	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	--	ND	ND	ND	ND	ND	ND	ND
09/30/99	ND	--	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	--	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	--	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	--	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	--	ND	ND	ND	ND	ND	ND	ND
01/08/01	--	--	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	--	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	--	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<50	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<1,000	ND<2.0
01/03/02	ND<52	--	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	ND<1.0
04/01/02	ND<50	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	ND<2.0

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 7176

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-3 continued									
07/01/02	1,500	--	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<25	ND<0.50
01/24/03	ND<50	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	ND<2.0
07/28/03	ND<50	--	ND<2	ND<2	ND<100	ND<2	ND<2	ND<500	ND<2
02/04/04	90	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
07/02/04	ND<200	ND<0.5	ND<0.5	ND<1	ND<12	ND<1	ND<1	ND<800	--

FIGURES

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Dublin Quadrangle

VICINITY MAP

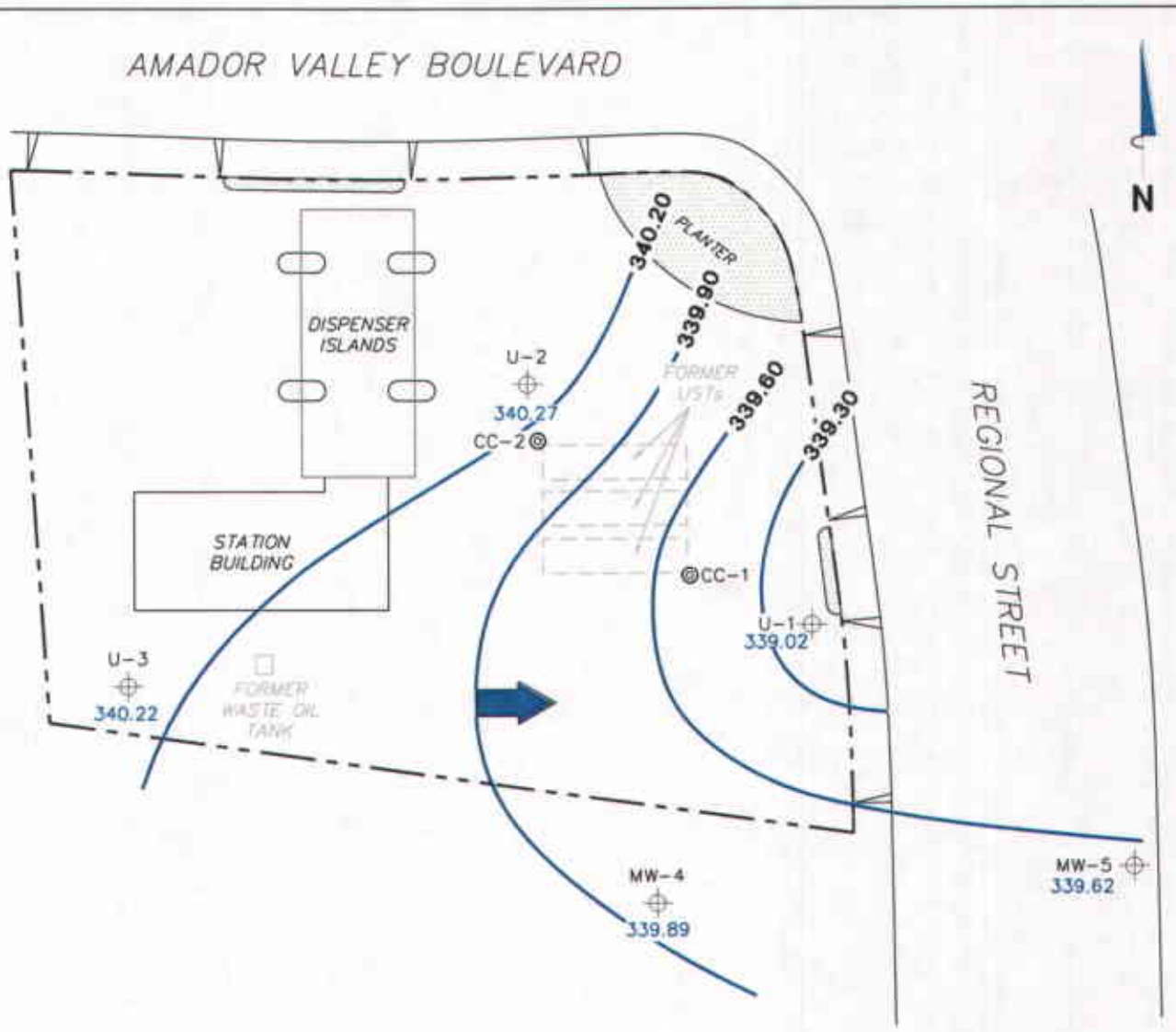
76 Station 7176
7850 Amador Valley Boulevard
Dublin, California

FIGURE 1

TRC

PS = 1:1

Graphics on Irvine-fs1(L:)\VICINITY MAPS\7176vm.dwg 2/26/04 jw



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.

LEGEND

MW-5 ⊕ Monitoring Well with Groundwater Elevation (feet)

CC-2 ◎ Conductor Casing

340.20 — Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
July 2, 2004

76 Station 7176
7850 Amador Valley Boulevard
Dublin, California

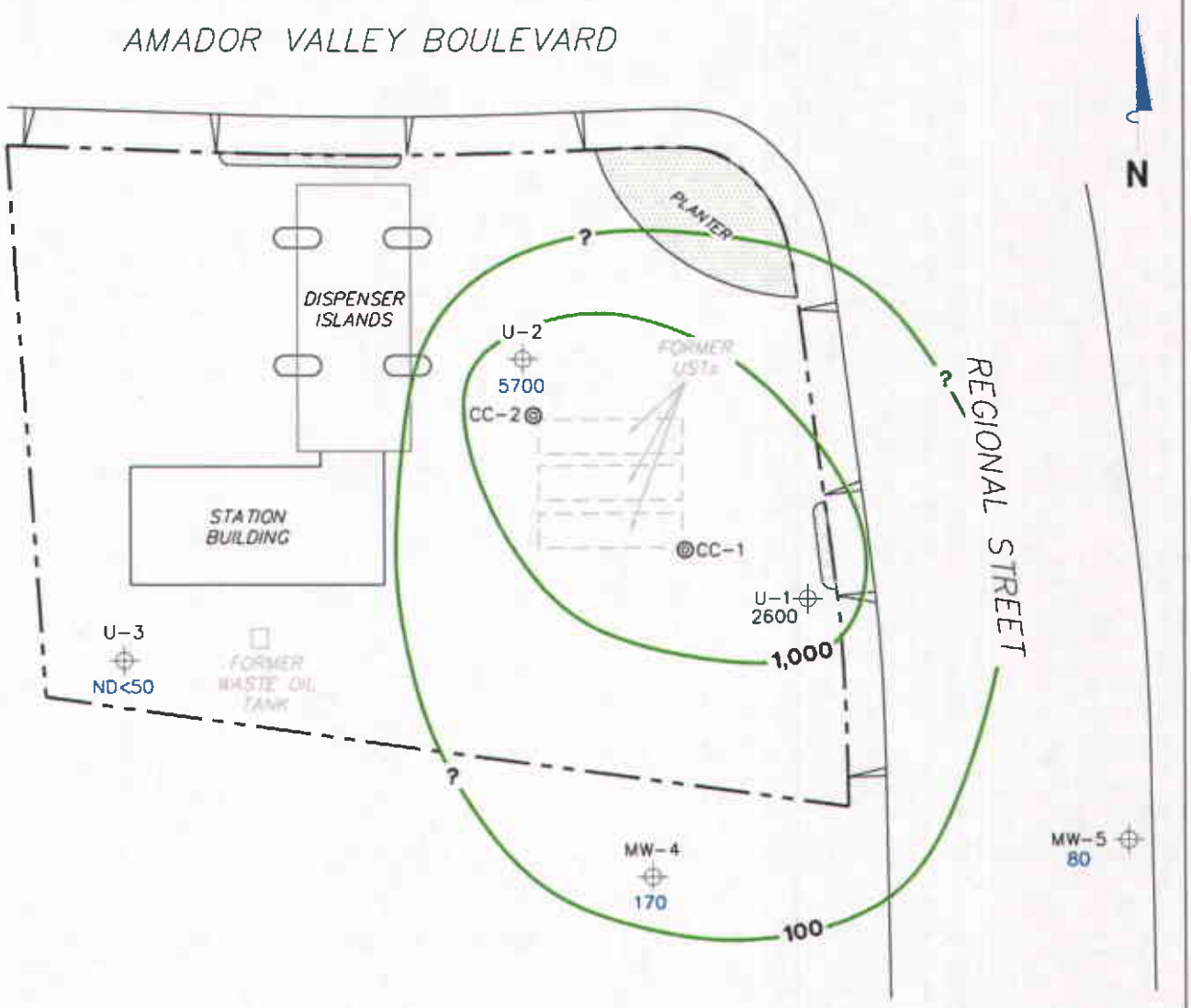
TRC

SCALE (FEET)
0 40

FIGURE 2

PS=1:1 7176-003

Graphics on Irine-fs1(L:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-7000\7176+\7176-QMS.dwg 4/6/04 bbs



NOTES:

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

LEGEND

MW-5 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

CC-2 ◎ Conductor Casing

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

DISSOLVED-PHASE TPPH CONCENTRATION MAP
July 2, 2004

76 Station 7176
7850 Amador Valley Boulevard
Dublin, California

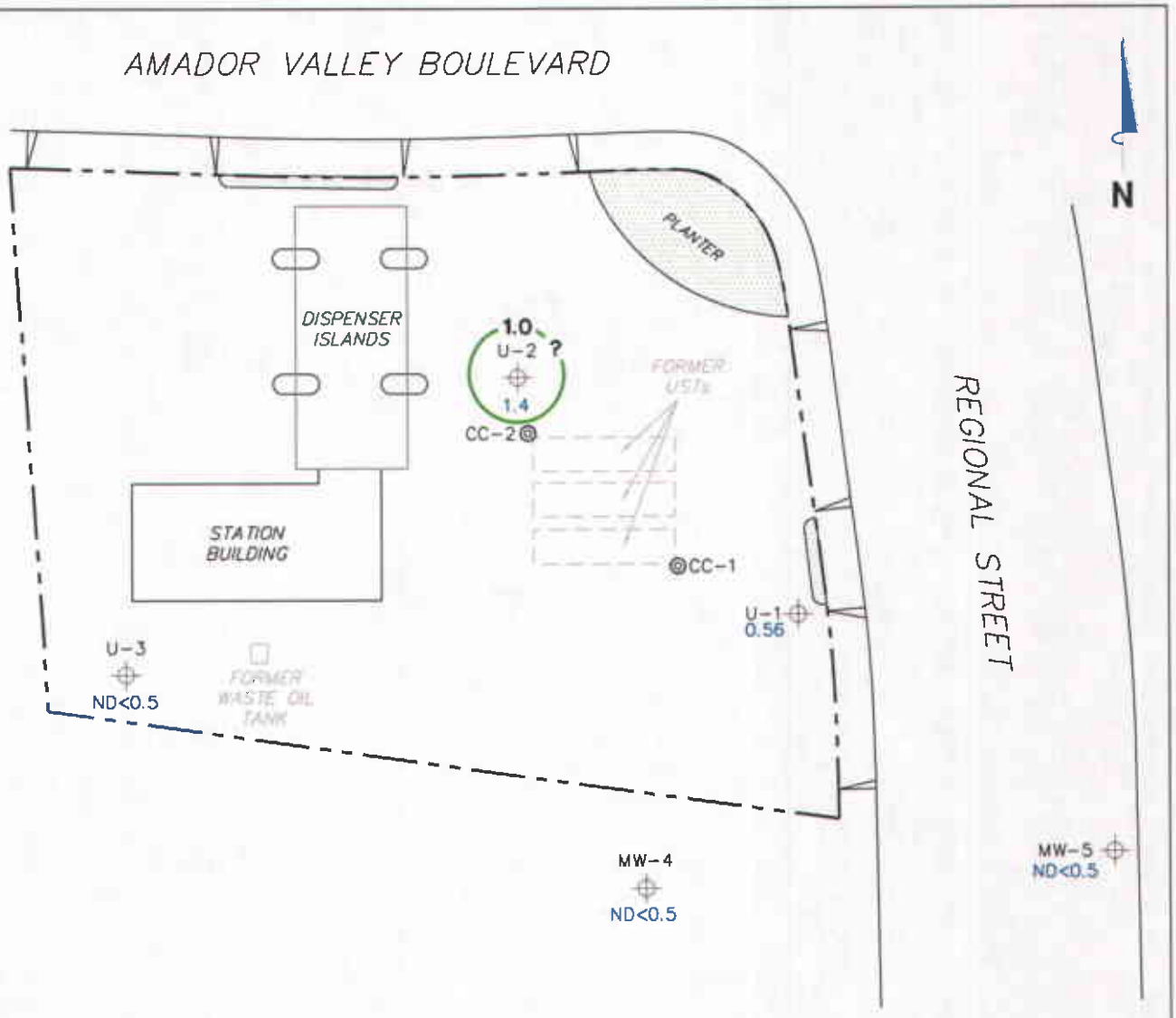
TRC

SCALE (FEET)
0 40

FIGURE 3

PS=1:1 7176-003

Graphics on Irine-fs1(L:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-7000\7176+\7176-OMS.dwg 4/6/04 bbs



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank.

LEGEND

MW-5 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

CC-2 ◎ Conductor Casing

1.0 Dissolved-Phase Benzene Contour (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
July 2, 2004

76 Station 7176
7850 Amador Valley Boulevard
Dublin, California

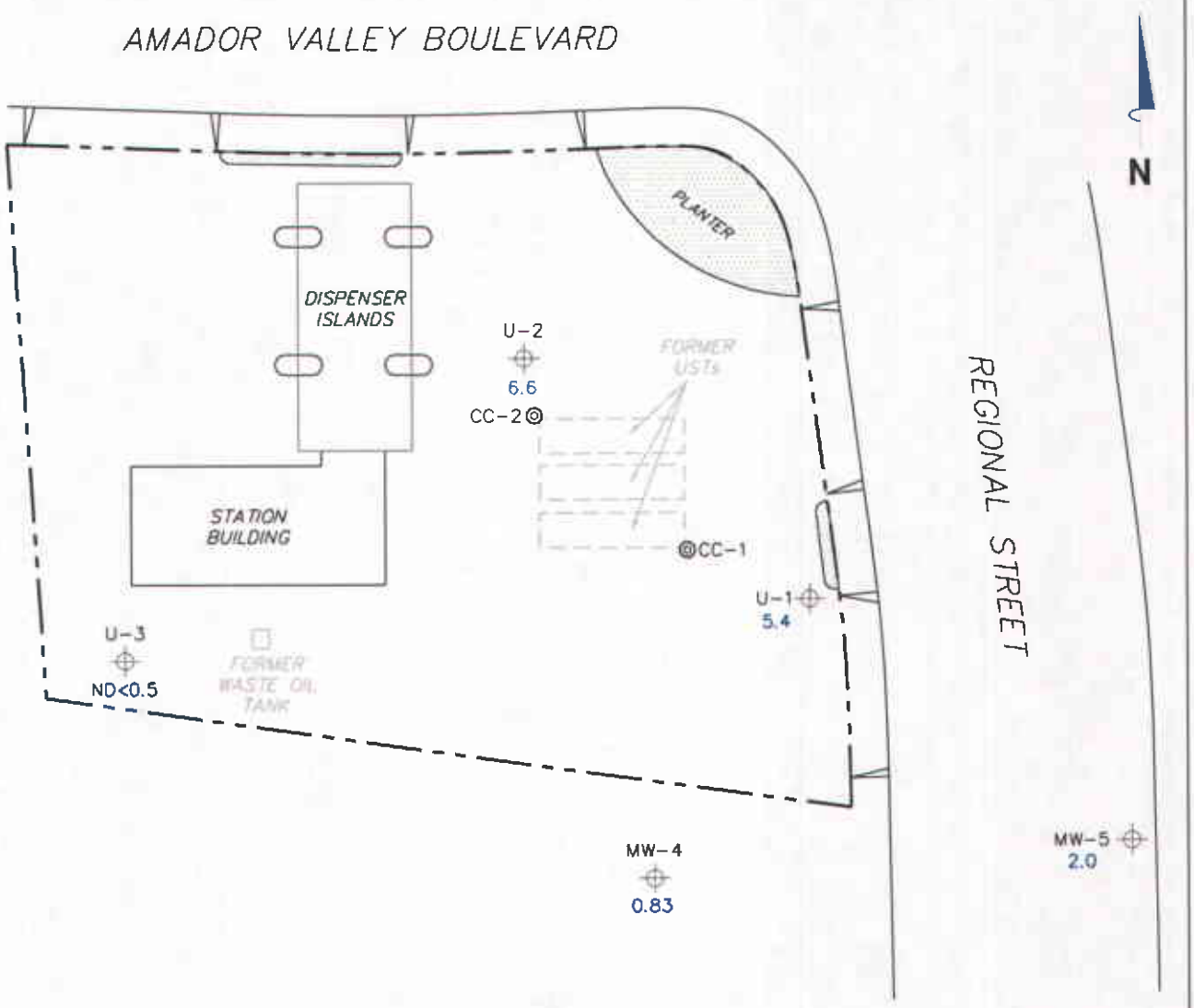
TRC

SCALE (FEET)
0 40

FIGURE 4

PS=1:1 7176-003

Graphics on Irine-fs1(L:)\GRAPHICS\Projects By..\20-xxxx\20-0400\x-7000\7176+\7176-QMS.dwg 4/6/04 bbs



NOTES:

MTBE = methyl tertiary butyl ether.
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.

LEGEND

MW-5 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

CC-2 ◎ Conductor Casing

DISSOLVED-PHASE MTBE CONCENTRATION MAP
July 2, 2004

76 Station 7176
7850 Amador Valley Boulevard
Dublin, California

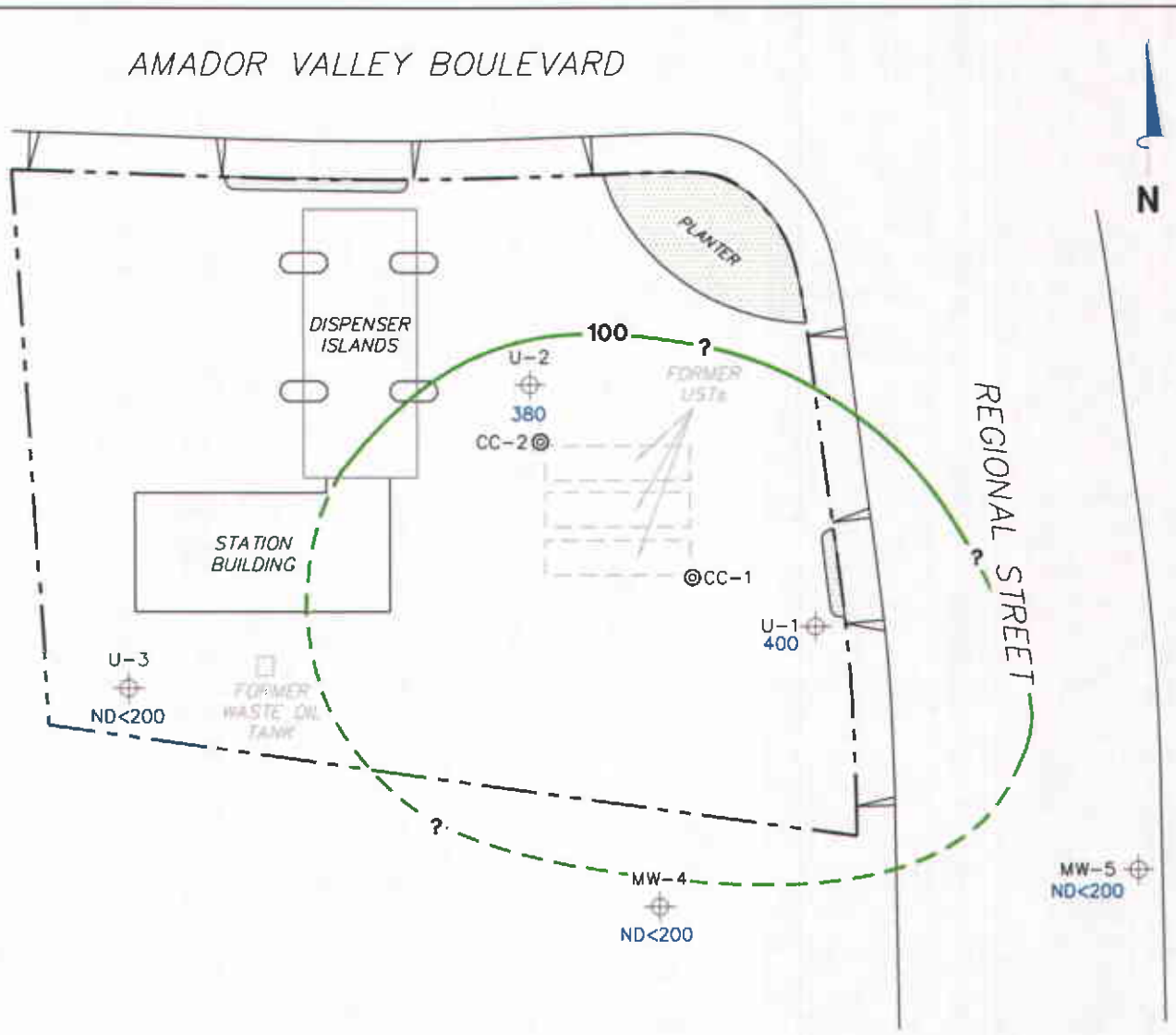
TRC

SCALE (FEET)
0 40

FIGURE 5

PS=1:1 7176-003

Graphics on Irine-fs1(L:)\GRAPHICS\Projects By..\20-xxxx\20-0400\x-7000\7176+\7176-QMS.dwg 8/17/04 jb



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-D = total petroleum hydrocarbons as diesel. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Dashes indicate contour based on non-detect at elevated detection limit. Results obtained using EPA Method 8015M.

LEGEND

MW-5 ⊕ Monitoring Well with Dissolved-Phase TPH-D Concentration (µg/l)

CC-2 ◎ Conductor Casing

-100- Dissolved-Phase TPH-D Contour (µg/l)

DISSOLVED-PHASE TPH-D CONCENTRATION MAP
July 2, 2004

76 Station 7176
7850 Amador Valley Boulevard
Dublin, California

TRC

SCALE (FEET)
0 40

FIGURE 6

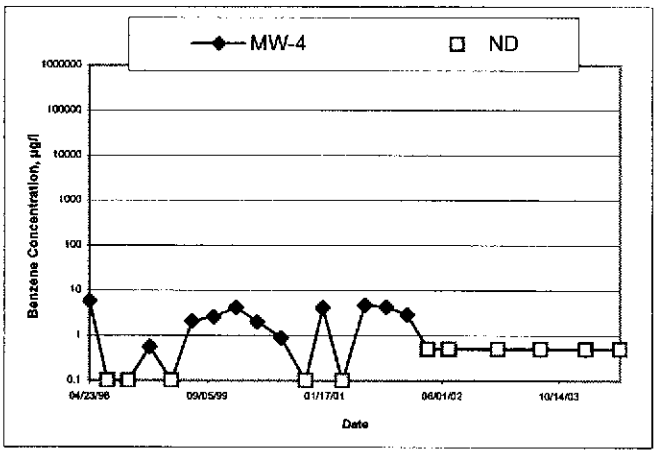
PS=1:1 7176-003

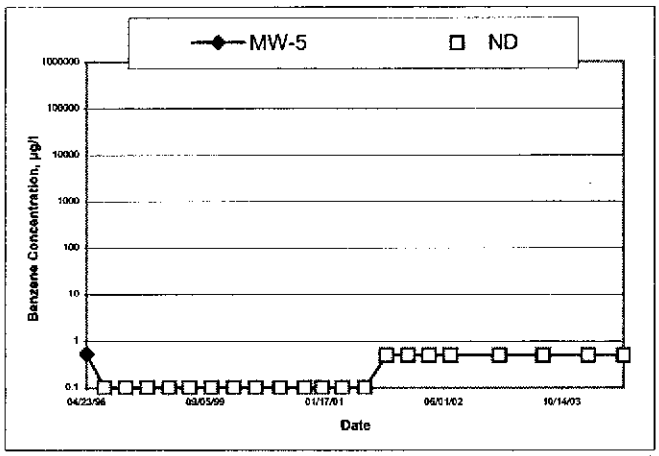
Graphics on Irine-fs1(L:)\GRAPHICS\Projects By..\20-xxxx\20-0400\x-7000\7176+\7176-OMS.dwg 4/6/04 bbs

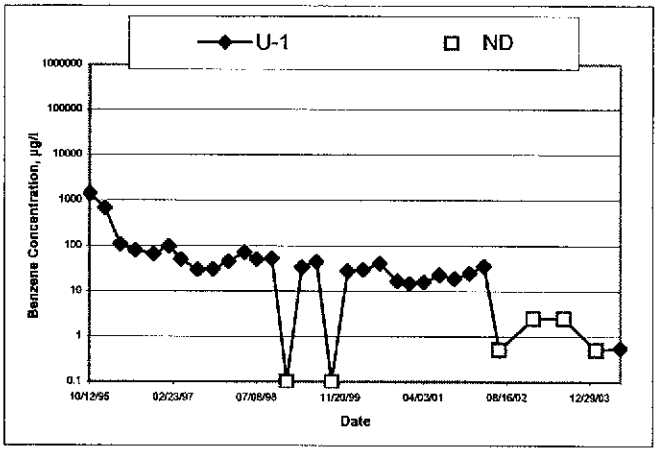
GRAPHS

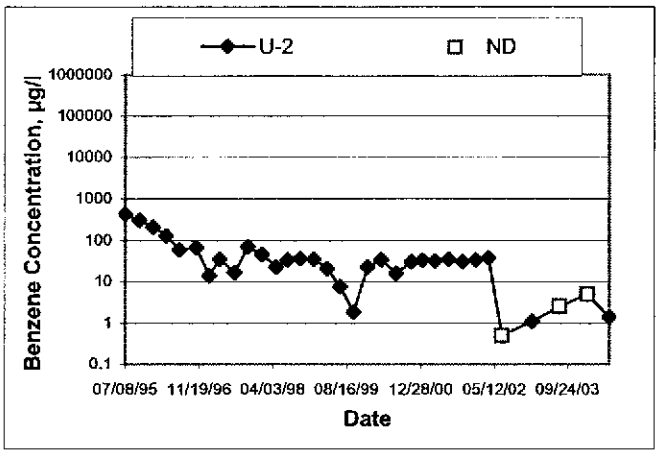
Benzene Concentrations vs Time

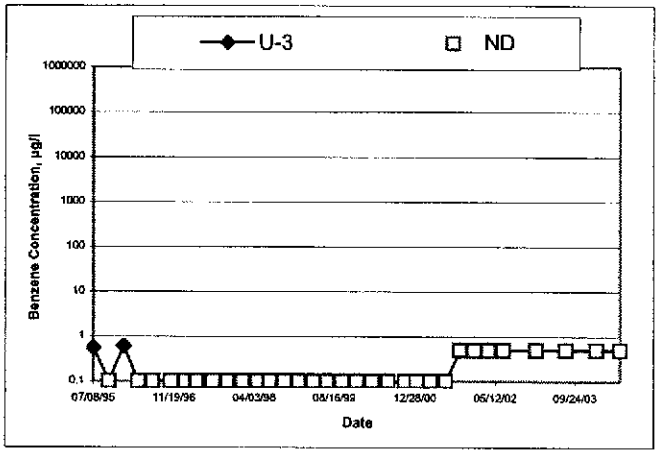
76 Station 7176





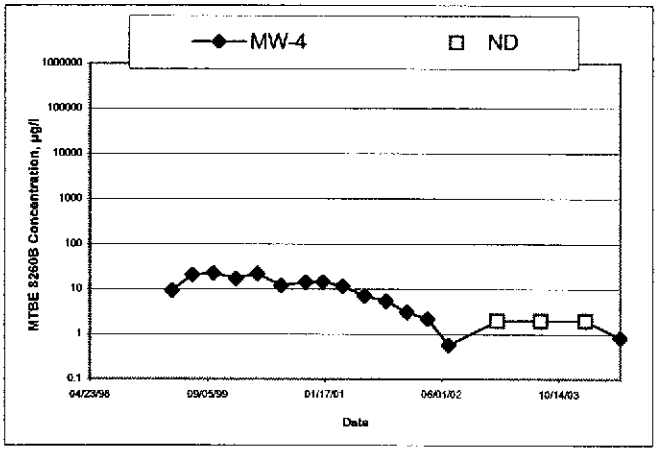


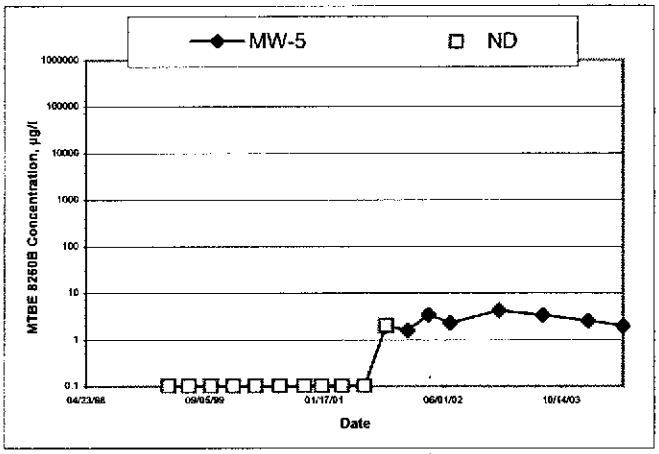


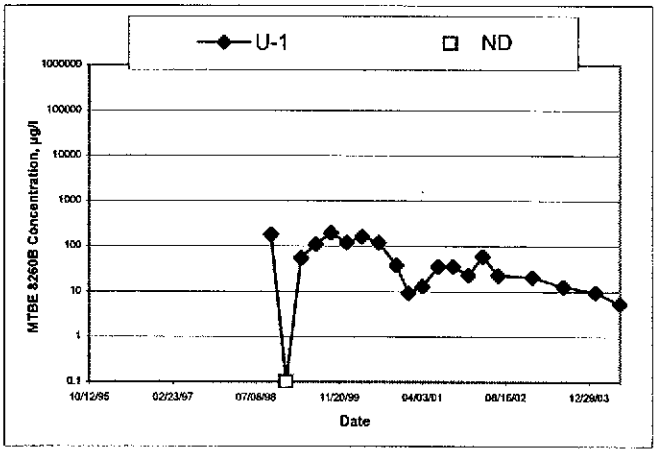


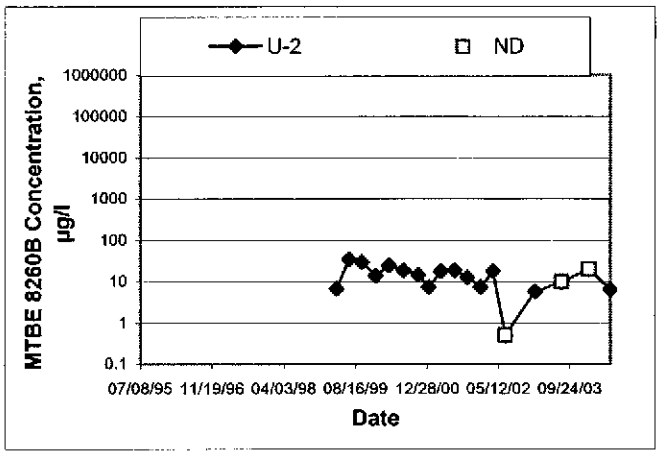
MTBE 8260B Concentrations vs Time

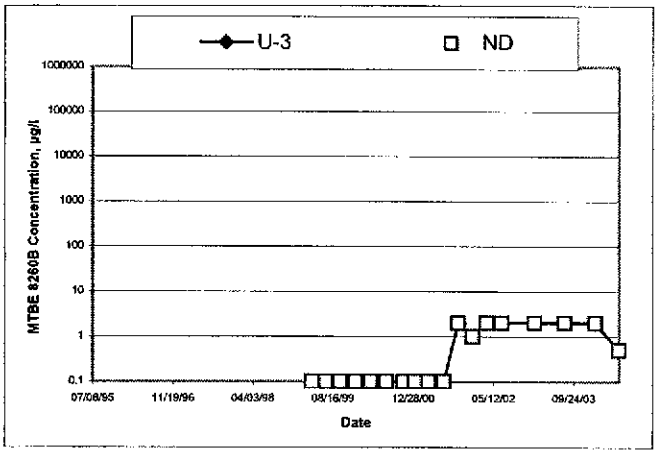
76 Station 7176



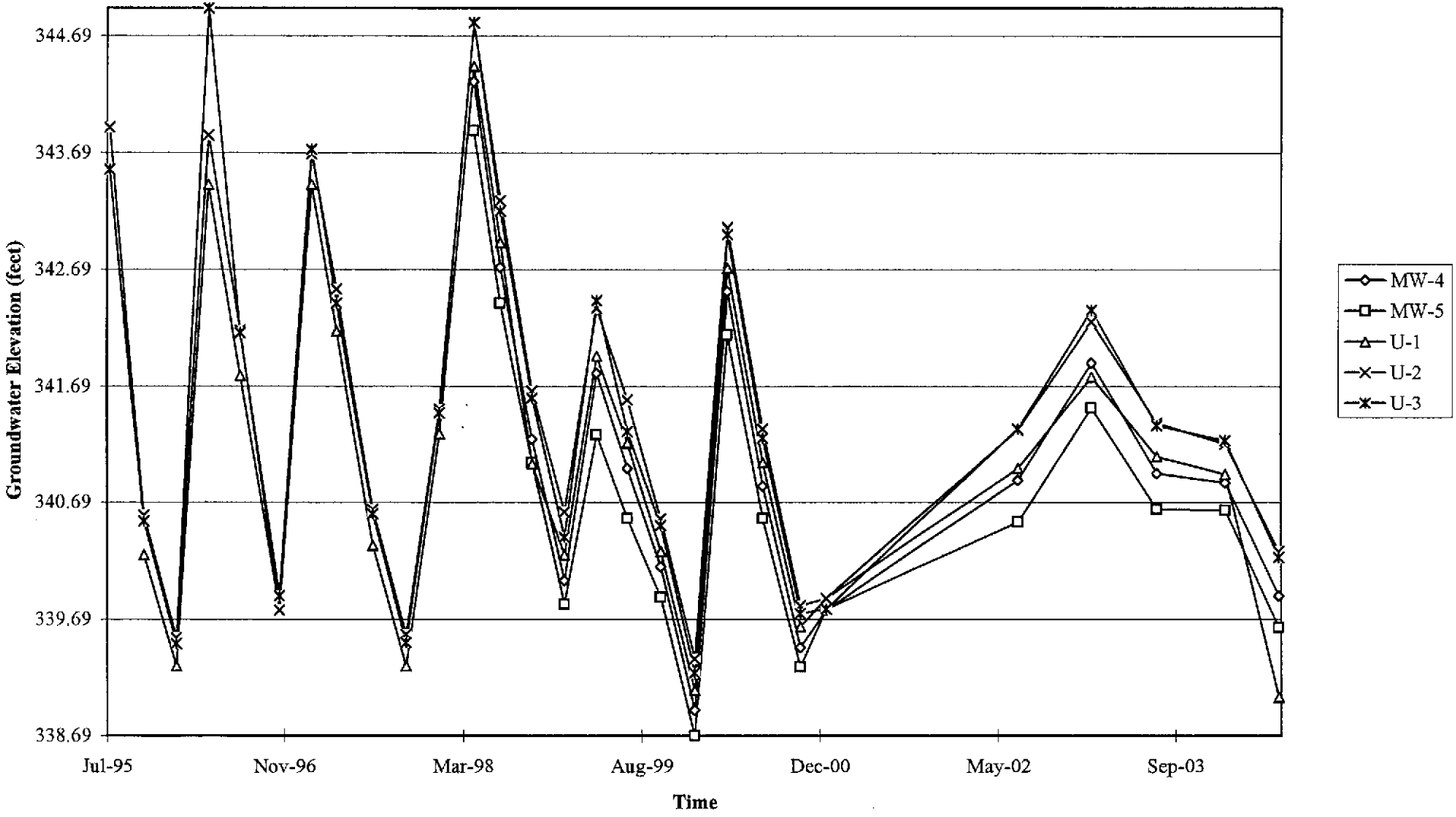








Groundwater Elevations vs. Time
76 Station 7176



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: J. KEARNS Job #/Task #: 41052001 / FA26 Date: 8/2/04

Site # 7176 Project Manager A. COLLINS Page 1 of 1

Well #	Grade	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-4		✓	25.11	16.52	Ø	Ø	0614	2"
~~MW-3~~			25.20	17.87	Ø	Ø	0639	2" 1/2 BOLTS BAD 1/2 STRIPPED BAD
U-2			26.29	16.28	Ø	Ø	0709	2" 1/2 STRIPPED BAD
~~MW-5~~			24.49	15.41	Ø	Ø	0552	2" NO BOLTS (PAVED)
~~U-1~~		↓	27.24	16.57	Ø	Ø	0732	2" 2/2 STRIPPED BAD

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

GROUNDWATER SAMPLING FIELD NOTES

Technician: J. KEARNS

Site: 7174 Project No.: 41050001 Date: 7/2/04

Well No.: MW-9 Purge Method: DIA

Depth to Water (feet): 15.41 Depth to Product (feet): ø

Total Depth (feet): 24.49 LPH & Water Recovered (gallons): ø

Water Column (feet): 9.08 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.23 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0541			1	716	19.6	6.67		
			2	708	19.7	6.67		
	0544		3	699	20.0	6.67		

Static at Time Sampled		Total Gallons Purged	Time Sampled
15.45		3	0552

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:

GROUNDWATER SAMPLING FIELD NOTES

Technician: J. KEARNS

Site: 7174 Project No.: 410570301 Date: 7/2/04

Well No.: MW-4
Depth to Water (feet): 16.52
Total Depth (feet): 25.11
Water Column (feet): 8.59
80% Recharge Depth (feet): 18.24

Purge Method: DIA
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	Turbidity	D.O.
0604			1	672	18.5	6.75		
			2	674	19.4	6.74		
	0607		3	669	20.1	6.72		

Static at Time Sampled		Total Gallons Purged		Time Sampled	
16.60		3		0614	

Comments:

Well No.: U-3
Depth to Water (feet): 17.87
Total Depth (feet): 28.20
Water Column (feet): 10.33
80% Recharge Depth (feet): 19.94

Purge Method: DIA
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	Turbidity	D.O.
0628			2	648	19.6	6.82		
			4	645	20.2	6.81		
	0633		6	646	20.4	6.79		

Static at Time Sampled		Total Gallons Purged		Time Sampled	
18.05		6		0639	

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: J.REAMS

Site: 7176 Project No.: 4C050001 Date: 7/2/14

Well No.: U-2
Depth to Water (feet): 16.28
Total Depth (feet): 25.29
Water Column (feet): 10.01
80% Recharge Depth (feet): 18.28

Purge Method: DIA
Depth to Product (feet): Ø
LPH & Water Recovered (gallons): Ø
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	Turbidity	D.O.
0657			2	646	20.1	6.53		
			4	647	20.5	6.53		
	0701		6	641	20.6	6.52		

Static at Time Sampled	Total Gallons Purged	Time Sampled
16.38	6	0709

Comments:

Well No.: U-1
Depth to Water (feet): 16.57
Total Depth (feet): 27.24
Water Column (feet): 10.67
80% Recharge Depth (feet): 18.70

Purge Method: DIA
Depth to Product (feet): Ø
LPH & Water Recovered (gallons): Ø
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	Turbidity	D.O.
0718			2	549	20.2	6.63		
			4	556	20.9	6.61		
	0723		6	571	21.0	6.59		

Static at Time Sampled	Total Gallons Purged	Time Sampled
16.68	6	0732

Comments:

BC Laboratories, Inc.

Cover Report

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Project Number: 7176
COC Number:
BCL Number: 04-06880

Dear Ms. Farfan:

This report contains the analytical results for the samples received under chain of custody by BC Laboratories, Inc. The samples were logged into the Laboratory Information Management System (LIMS) and BC Lab numbers were assigned to each sample. The result of the temperature check, condition of the samples and any other discrepancies were recorded on the cooler receipt form.

All applicable quality control procedures met method-specific acceptance criteria, except as noted on the following analytical and quality control reports.

This report shall not be reproduced except in full, without written approval of the laboratory.

California DOHS Certification #1186

Steven Bennett

Authorized Signature

BC Laboratories, Inc

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 06:14
Sampling Location	---	**Sample Depth**	---
Sampling Point	MW-4	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-1

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	< PQL	ug/L	0.5	0.13	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
1,2-Dibromoethane	< PQL	ug/L	0.5	0.16	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
1,2-Dichloroethane	< PQL	ug/L	0.5	0.13	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
Ethylbenzene	< PQL	ug/L	0.5	0.14	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
Toluene	< PQL	ug/L	0.5	0.12	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
Total Xylenes	< PQL	ug/L	1	0.40	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
t-Amyl Methyl ether	< PQL	ug/L	1	0.11	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	320-100582	ND	
t-Butyl alcohol	< PQL	ug/L	12	8.7	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	320-100582	ND	
Diisopropyl ether	< PQL	ug/L	1	0.15	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	320-100582	ND	
Ethanol	< PQL	ug/L	800	33	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	320-100582	ND	
Ethyl t-butyl ether	< PQL	ug/L	1	0.092	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	320-100582	ND	
Methyl t-butyl ether	0.83	ug/L	0.5	0.15	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616	ND	
TPH Gas	170	ug/L	50	5.7	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	388-100271	ND	

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
1,2-Dichloroethane-d4	104	%	76-114	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616		
Toluene-d8	93	%	88-110	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616		
4-Bromofluorobenzene	99	%	86-115	8260	07/09/04	07/09/04	15:43	LAM	MS-V4	1	319-100616		

California DOHS Certification #1186

BC Laboratories, Inc

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Fuel Identification / Quantitation Summary (EPA Method 8015M)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 06:14
Sampling Location	---	**Sample Depth**	---
Sampling Point	MW-4	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-1

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	< PQL	ug/L	200.	66.	8015M	07/13/04	07/19/04	13:46	MAA	GC-13A	1			

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Tetracosane	93	%	48-124	8015M	07/13/04	07/19/04	13:46	MAA	GC-13A	1			

Comments
C13-C22 analyzed as diesel.

California DOHS Certification #1186

BC Laboratories, Inc

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 06:39
Sampling Location	---	**Sample Depth**	---
Sampling Point	U-3	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-2

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	< PQL	ug/L	0.5	0.13	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
1,2-Dibromoethane	< PQL	ug/L	0.5	0.16	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
1,2-Dichloroethane	< PQL	ug/L	0.5	0.13	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
Ethylbenzene	< PQL	ug/L	0.5	0.14	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
Toluene	< PQL	ug/L	0.5	0.12	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
Total Xylenes	< PQL	ug/L	1	0.40	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
t-Amyl Methyl ether	< PQL	ug/L	1	0.11	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	320-100582	ND	
t-Butyl alcohol	< PQL	ug/L	12	8.7	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	320-100582	ND	
Diisopropyl ether	< PQL	ug/L	1	0.15	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	320-100582	ND	
Ethanol	< PQL	ug/L	800	33	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	320-100582	ND	
Ethyl t-butyl ether	< PQL	ug/L	1	0.092	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	320-100582	ND	
Methyl t-butyl ether	< PQL	ug/L	0.5	0.15	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616	ND	
TPH Gas	< PQL	ug/L	50	5.7	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	388-100271	ND	

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
1,2-Dichloroethane-d4	99	%	76-114	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616		
Toluene-d8	91	%	88-110	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616		
4-Bromofluorobenzene	93	%	86-115	8260	07/13/04	07/13/04	04:47	LAM	MS-V4	1	319-100616		

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BC Laboratories, Inc

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Fuel Identification / Quantitation Summary (EPA Method 8015M)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 06:39
Sampling Location	---	**Sample Depth**	---
Sampling Point	U-3	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-2

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	< PQL	ug/L	200.	66.	8015M	07/13/04	07/19/04	14:15	MAA	GC-13A	1			

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Tetracosane	82	%	48-124	8015M	07/13/04	07/19/04	14:15	MAA	GC-13A	1			

Comments

C13-C22 analyzed as diesel.

California DOHS Certification #1186

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21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 07:09
Sampling Location	---	**Sample Depth**	---
Sampling Point	U-2	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-3

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	1.4	ug/L	0.5	0.13	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
1,2-Dibromoethane	< PQL	ug/L	0.5	0.16	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
1,2-Dichloroethane	< PQL	ug/L	0.5	0.13	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
Ethylbenzene	6.6	ug/L	0.5	0.14	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
Toluene	2.8	ug/L	0.5	0.12	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
Total Xylenes	5.5	ug/L	1	0.40	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	S09
t-Amyl Methyl ether	< PQL	ug/L	1	0.11	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
t-Butyl alcohol	< PQL	ug/L	12	8.7	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	320-100582	ND	
Diisopropyl ether	< PQL	ug/L	1	0.15	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	320-100582	ND	
Ethanol	< PQL	ug/L	800	33	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	320-100582	ND	
Ethyl t-butyl ether	< PQL	ug/L	1	0.092	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	320-100582	ND	
Methyl t-butyl ether	6.6	ug/L	0.5	0.15	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616	ND	
TPH Gas	5700	ug/L	3000	290	8260	07/09/04	07/09/04	22:42	LAM	MS-V4	50	388-100271	ND	A01

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
1,2-Dichloroethane-d4	105	%	76-114	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616		
Toluene-d8	112	%	88-110	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616		S09
4-Bromofluorobenzene	100	%	86-115	8260	07/10/04	07/10/04	05:12	LAM	MS-V4	1	319-100616		

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Volatile Organic Analysis (EPA Method 8260)

Sample Description	7176, U-2, 07/02/2004 @ 07:09, J. KEARNS

Flag	Explanations
A01	PQL's and MDL's are raised due to sample dilution.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

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IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Fuel Identification / Quantitation Summary (EPA Method 8015M)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 07:09
Sampling Location	---	**Sample Depth**	---
Sampling Point	U-2	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-3

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	380	ug/L	200.	66.	8015M	07/13/04	07/19/04	14:44	MAA	GC-13A	1			A52

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Tetracosane	96	%	48-124	8015M	07/13/04	07/19/04	14:44	MAA	GC-13A	1			

Flag	Explanations
A52	Chromatogram not typical of diesel.

Comments

C13-C22 analyzed as diesel.

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Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 05:52
Sampling Location	---	**Sample Depth**	---
Sampling Point	MW-5	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-4

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	< PQL	ug/L	0.5	0.13	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
1,2-Dibromoethane	< PQL	ug/L	0.5	0.16	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
1,2-Dichloroethane	< PQL	ug/L	0.5	0.13	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
Ethylbenzene	< PQL	ug/L	0.5	0.14	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
Toluene	< PQL	ug/L	0.5	0.12	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
Total Xylenes	< PQL	ug/L	1	0.40	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
t-Amyl Methyl ether	< PQL	ug/L	1	0.11	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	320-100582	ND	
t-Butyl alcohol	< PQL	ug/L	12	8.7	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	320-100582	ND	
Diisopropyl ether	< PQL	ug/L	1	0.15	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	320-100582	ND	
Ethanol	< PQL	ug/L	800	33	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	320-100582	ND	
Ethyl t-butyl ether	< PQL	ug/L	1	0.092	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	320-100582	ND	
Methyl t-butyl ether	2.0	ug/L	0.5	0.15	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616	ND	
TPH Gas	80	ug/L	50	5.7	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	388-100271	ND	A53

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
1,2-Dichloroethane-d4	107	%	76-114	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616		
Toluene-d8	95	%	88-110	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616		
4-Bromofluorobenzene	90	%	86-115	8260	07/09/04	07/09/04	16:39	LAM	MS-V4	1	319-100616		

BC Laboratories, Inc

Volatile Organic Analysis (EPA Method 8260)

Sample Description	7176, MW-5, 07/02/2004 @ 05:52, J. KEARNS

Flag	Explanations
A53	Chromatogram not typical of gasoline.

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21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Fuel Identification / Quantitation Summary (EPA Method 8015M)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 05:52
Sampling Location	---	**Sample Depth**	---
Sampling Point	MW-5	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-4

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	< PQL	ug/L	200.	66.	8015M	07/13/04	07/19/04	15:13	MAA	GC-13A	1			

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Tetracosane	86	%	48-124	8015M	07/13/04	07/19/04	15:13	MAA	GC-13A	1			

Comments

C13-C22 analyzed as diesel.

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Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 07:32
Sampling Location	---	**Sample Depth**	---
Sampling Point	U-1	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-5

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	0.56	ug/L	0.5	0.13	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
1,2-Dibromoethane	< PQL	ug/L	0.5	0.16	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
1,2-Dichloroethane	< PQL	ug/L	0.5	0.13	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
Ethylbenzene	5.3	ug/L	0.5	0.14	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
Toluene	< PQL	ug/L	0.5	0.12	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
Total Xylenes	< PQL	ug/L	1	0.40	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
t-Amyl Methyl ether	< PQL	ug/L	1	0.11	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	320-100582	ND	
t-Butyl alcohol	< PQL	ug/L	12	8.7	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	320-100582	ND	
Diisopropyl ether	< PQL	ug/L	1	0.15	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	320-100582	ND	
Ethanol	< PQL	ug/L	800	33	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	320-100582	ND	
Ethyl t-butyl ether	< PQL	ug/L	1	0.092	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	320-100582	ND	
Methyl t-butyl ether	5.4	ug/L	0.5	0.15	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616	ND	
TPH Gas	2600	ug/L	500	57	8260	07/09/04	07/09/04	22:14	LAM	MS-V4	10	388-100271	ND	A01

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
1,2-Dichloroethane-d4	107	%	76-114	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616		
Toluene-d8	104	%	88-110	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616		
4-Bromofluorobenzene	111	%	86-115	8260	07/10/04	07/10/04	01:30	LAM	MS-V4	1	319-100616		

BC Laboratories, Inc

Volatile Organic Analysis (EPA Method 8260)

Sample Description	7176, U-1, 07/02/2004 @ 07:32, J. KEARNS

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

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21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Fuel Identification / Quantitation Summary (EPA Method 8015M)

COC Number	---	**Receive Date/Time**	07/06/2004 @ 20:30
Project Number	7176	**Sampling Date/Time**	07/02/2004 @ 07:32
Sampling Location	---	**Sample Depth**	---
Sampling Point	U-1	**Sample Matrix**	Groundwater
Sampled By	J. KEARNS	**BCL Sample ID**	04-06880-5

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	400	ug/L	200.	66.	8015M	07/13/04	07/19/04	16:11	MAA	GC-13A	1			

Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Tetracosane	84	%	48-124	8015M	07/13/04	07/19/04	16:11	MAA	GC-13A	1			

Comments

C13-C22 analyzed as diesel.

California DOHS Certification #1186

BC Laboratories, Inc.

B C LABORATORIES
QUALITY CONTROL REPORT

Method 8260

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
ANJU FARFAN

Date of Report: 07/16/2004
Sample Matrix: Groundwater
QC Batch ID: 200406880-1*8260

Samples Affected: 04-06880-1 - 04-06880-5

Constituents	Method Blank Readings	Units	MS % Rec	MSD % Rec	Spike R.P.D.	LCS % Rec	Spike %Rec Control Limits	Precision Control Limits	LCS % Rec Control Limits
Benzene	< 0.5	µg/L	100.	101.	1.	97.	70 - 130	20	70 - 130
Toluene	< 0.5	µg/L	101.	101.	0.	97.	70 - 130	20	70 - 130

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference
LCS = Laboratory Control Sample

Quality Control Officer

Sharen Mauer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
ANJU FARFAN

Date of Report: 07/21/2004
Sample Matrix: Groundwater
QC Batch ID: 200406880-1*DIESEL

Samples Affected: 04-06880-1 - 04-06880-5

Constituents	Method Blank Readings	Units	MS % Rec	MSD % Rec	Spike R.P.D.	LCS % Rec	Spike %Rec Control Limits	Precision Control Limits	LCS % Rec Control Limits
Diesel Range Organics (C12 - C24)	<200.	µg/L	98.	93.	5.	99.	48 - 138	30	76 - 125

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference
LCS = Laboratory Control Sample

Quality Control Officer

Danette Bohm

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 10 01/21/04 Page 1 Of 2

Submission #: 04-06880 | Project Code: | TB Batch #

SHIPPING INFORMATION

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Ice Chest ID _____ Temperature: 1.5 °C Thermometer ID: TH080

Emissivity 0.93 Container QHA

Date/Time 7-6-04 2025 Analyst Init SLC

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M	1,2	1,2	1	1,2						
QT QA/QC										
QT AMBER			2							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____

Sample Numbering Completed By: OTO Date/Time: 7/7/04 0900

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 10 01/21/04 Page 2 Of 2

Submission #: 04-06880 | Project Code: | TB Batch #

SHIPPING INFORMATION

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Ice Chest ID _____ Temperature: 2.2 °C Thermometer ID: TH080
Emissivity 0.93 Container QHA
Date/Time 7-16-04 2025 Analyst Init SLC

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	3 (3)	3 (3)	3 (3)	3 (3)	3 (3)	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M					1, 2					
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____
Sample Numbering Completed By: OTO Date/Time: 7/16/04 0900

CHK BY | DISTRIBUTION

BC LABORATORIES, INC.

4100 Atlas Court ▯ Bakersfield CA 93308
(661) 327-4911 ▯ FAX (661) 327-1918

CHAIN OF CUSTODY

04-06880

Analysis Requested

Circle one: Phillips 66 / Unocal	Consultant Firm: TRC	MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge
Address: 7650 Amador Valley Blvd.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan	
City: Dublin	4-digit site#: 7176	
	Workorder # 1635TRC500	
State: CA Zip:	Project #: 41050001	
Phillips 66 /Unocal Mgr: Thomas Kosel	Sampler Name J. Kleaens	

Lab#	Sample Description	Field Point Name	Date Sampled	Time	MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015M	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/EDB by 8260B	ETHANOL by 8260B	TPPH by 8260B	8 Oxys by 8260	Turnaround Time Requested 3 days w/ HC, 2(1L) AMBERS
-1	MW-4		7/2/04	0614	G.W.			X		X		X	X	STD
-2	U-3			0639										
-3	U-2			0709										
-4	MW-5			0552										
-5	U-1			0732										

Comments: * PWN TPH-D w/ SILICA GEL CLEANUP ON HITS *

GLOBAL ID T0600101863

Relinquished by (Signature)	Received by	Date & Time
	REFRIGERATOR	7/2/04 0915
	Z. Johnson	7-6-04 14:03
Z. Johnson	Shelly Carlson	7-6-04 2030

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE