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Fax 916.638.8385

January 31, 2006

Mr. Don Hwang  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

RE: **Semi-Annual Summary Report – April 2005 Through September 2005**  
Delta Project No. C1Q-5760-601

Dear Mr. Hwang:

Delta Environmental Consultants, Inc. (Delta) is submitting this Semi-Annual Summary Report – April 2005 Through September 2005 and forwarding TRC's *Semi-Annual Monitoring Report, April 2005 Through September 2005*, dated October 7, 2005, for the following location.

**Service Station**

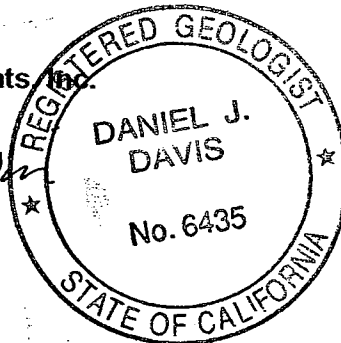
76 Service Station No. 5760

**Location**

376 Lewelling Boulevard  
San Lorenzo, California

Sincerely,  
Delta Environmental Consultants, Inc.

Daniel J. Davis, R.G.  
Senior Project Manager



Enclosure

cc: Ms. Shelby Lathrop, ConocoPhillips (electronic copy)

A member of:





76 Broadway  
Sacramento, California 95818

**RECEIVED**

By loprojectop at 2:16 pm, Mar 01, 2006

January 17, 2006

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

Re: **Report Transmittal**  
**Semi-Annual Summary Report – April 2005 Through September 2005**  
**76 Service Station 5760**  
**376 Lewelling Boulevard**  
**San Lorenzo, CA**

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

Attachment

**SEMI-ANNUAL SUMMARY REPORT**  
**April 2005 Through September 2005**  
**76 Service Station No. 5760**  
**376 Lewelling Boulevard.**  
**San Lorenzo, California**

**PREVIOUS ASSESSMENT**

The underground storage tanks (USTs) were removed and replaced in November 1987. At that time monitoring well U-1 was installed in response to the contamination observed during the UST replacement. Information on the installation of well U-1 is documented in a report *Well Installation* prepared by Woodward-Clyde Consultants dated March 25, 1988.

Three additional monitoring wells (U-2, U-3 and U-4) were installed in August 1990 by GeoStrategies Incorporated (GSI). The installation of these wells is documented in a report *Monitoring Well Installation Report* prepared by GSI dated November 16, 1990.

In March 1992 GSI installed four offsite monitoring wells (U-5 through U-8) to further delineate the groundwater hydrocarbon plume. The installation of these wells is documented in a report *Well Installation Report* prepared by GSI dated June 15, 1992.

An additional offsite well, U-9, was installed by GSI in May 1993. The installation of this well is documented in a report *Well Installation Report* prepared by GSI dated August 9, 1993

In September 1993, twelve borings were drilled as part of a property divestment program. Due to hydrocarbon impacted soils being encountered, three of the borings were converted to vapor extraction wells.

In March 1994, the delineation of hydrocarbon-impacted soils was completed with the installation of two additional soil borings.

Between August 8 and 13, 1994, a soil vapor extraction (SVE) feasibility test was conducted by Pacific Environmental Group (PEG). The results of the test showed SVE to be an applicable technology for removal of petroleum hydrocarbons from soil and groundwater below at site.

In September 1995 a combination SVE and groundwater treatment (GWT) system was constructed at the site. Start-up activities for the GWT system began on October 3, 1995. SVE system start-up and continuous GWT operation began in mid-October 1995. The system continued to operate until February 1997 when it was shut down due to diminishing incremental benefit.

**MONITORING AND SAMPLING**

Groundwater sampling began in the second quarter 1988. In the first quarter 1990, quarterly monitoring and sampling began and continued at quarterly intervals until March 1996 when the frequency changed to semi-annual. Monitoring well U-4 is currently monitored and is not sampled. Groundwater samples are analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MtBE), and ethanol.

Monitoring and sampling was conducted on August 2, 2005 for monitor wells U-1 and U-3; monitoring only was conducted for wells U-2 and U-4. Offsite wells U-6 and U-7 were covered during street repaving in 1999; however, these wells were accessed September 8, 2005 for monitoring and sampling. Wells U-8 and U-9 are monitored semi-annually; sampling of these wells is conducted annually during the first quarter event.

## **REMEDIATION STATUS**

In September 1995 a combination SVE and groundwater treatment (GWT) system was constructed at the site. Start-up activities for the GWT system began on October 3, 1995. SVE system start-up and continuous GWT operation began in mid-October 1995. The system continued to operate until February 1997 when it was shut down due to diminishing incremental benefit.

## **CHARACTERIZATION STATUS**

Contamination in soil has been adequately assessed. The groundwater hydrocarbon plume, composed primarily of TPPH and located in the southwest portion of the property, is considered stable. During the March 2005 sampling event the maximum dissolved TPPH concentration was reported at 11,000 micrograms per liter ( $\mu\text{g/l}$ ) in the groundwater sample from well U-1. Benzene and MtBE concentrations were below detection limits in each sampled well.

### April 2005 through September 2005

The groundwater elevation decreased an average 0.75 feet since the March 2005 sampling event with depths to groundwater ranging from 13.47 feet (U-9) to 16.62 feet (U-2) below top of casing (TOC).

The groundwater gradient was 0.007 ft/ft and the flow direction southwest.

### Petroleum Hydrocarbon Concentrations

TPPH was reported in samples from wells U-1 and U-3 at 11,000  $\mu\text{g/l}$  and 6,300  $\mu\text{g/l}$ , respectively. The reported concentrations in wells U-1 and U-3 are consistent with those of the previous three sampling events.

Benzene was not reported in any samples above laboratory detection limits. The detection limits varied from  $<10 \mu\text{g/l}$  (U-1) TO  $<0.50 \mu\text{g/l}$  (U-6, U-7).

MtBE was not reported in any samples above laboratory detection limits. The detection limits varied from  $<10 \mu\text{g/l}$  (U-1) TO  $<0.50 \mu\text{g/l}$  (U-6, U-7).

## **RECENT CORRESPONDENCE**

No regulatory correspondence was sent or received during the period April 2005 through September 2005.

**This semi-annual period activities (April 2005 through September 2005)**

1. TRC conducted the semi-annual monitoring and sampling event on August 2 and September 8, 2005, and prepared a Semi-Annual Monitoring Report, April 2005 through September 2005, dated October 7, 2005.

**Next semi-annual period activities (October 2005 through March 2006)**

1. TRC will conduct the semi-annual monitoring and sampling the first quarter 2006.
2. Delta will maintain dialogue with Alameda County regarding potential closure.

**CONSULTANT:** Delta Environmental Consultants, Inc.

**TRC**  
Customer-Focused Solutions



October 10, 2005

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL  
  
SITE: 76 STATION 5760  
376 LEWELLING BOULEVARD  
SAN LORENZO, CALIFORNIA  
  
RE: SEMI-ANNUAL MONITORING REPORT  
APRIL 2005 THROUGH SEPTEMBER 2005

Dear Mr. Kosel:

Please find enclosed our Semi-Annual Monitoring Report for 76 Station 5760, located at 376 Lewelling Boulevard, San Lorenzo, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in black ink that reads "Anju Farfan". The signature is fluid and cursive.

Anju Farfan  
QMS Operations Manager

CC: Mr. Jan Wagoner, Delta Environmental (2 copies)

Enclosures  
20-0400/5760R05.QMS



Customer-Focused Solutions

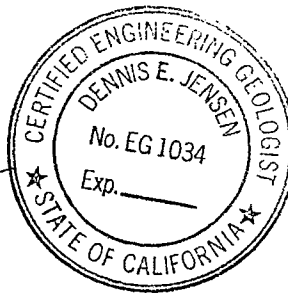
**SEMI-ANNUAL MONITORING REPORT  
APRIL 2005 THROUGH SEPTEMBER 2005**

76 STATION 5760  
376 Lewelling Boulevard  
San Lorenzo, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations  
October 7, 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 Benzene Concentrations vs. Time
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations



**Summary of Gauging and Sampling Activities**  
**April 2005 through September 2005**  
**76 Station 5760**  
**376 Lewelling Road**  
**San Lorenzo, CA**

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Project Coordinator: **Thomas H. Kosel**                      Water Sampling Contractor: **TRC**  
Telephone: **916-558-7666**                                      Compiled by: **Valentina Tobon**  
Date(s) of Gauging/Sampling Event: **08/02/05, 09/08/05**

**Sample Points**

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Groundwater wells:        **4** onsite,        **5** offsite        Wells gauged: **9**        Wells sampled: **4**  
Purging method: **Diaphragm pump**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**        Type: **n/a**

**Liquid Phase Hydrocarbons (LPH)**

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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**

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Depth to groundwater (below TOC):        Minimum: **13.47 feet**        Maximum: **16.62 feet**  
Average groundwater elevation (relative to available local datum): **24.20 feet**  
Average change in groundwater elevation since previous event: **-0.75 feet**  
Interpreted groundwater gradient and flow direction:  
Current event: **0.007 ft/ft, southwest**  
Previous event: **0.008 ft/ft, southwest (03/01/05)**

**Selected Laboratory Results**

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Wells with detected **Benzene**:        **0**                      Wells above MCL (1.0 µg/l): **n/a**  
Maximum reported benzene concentration: **n/a**  
  
Wells with **TPPH 8260B**                      **2**                      Maximum: **11,000 µg/l (U-1)**  
Wells with **MTBE**                                      **0**

**Notes:**

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U-2=Monitored only, U-4=Monitored Only, U-5=Sampled Annually, U-6=Paved over on 8/2/05, U-7=Paved over on 8/2/05, U-8=Sampled annually, U-9=Sampled annually,

# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

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

### ANALYTES

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

### NOTES

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

### REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 5760 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**  
**August 2, 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-1</b>	<b>(Screen Interval in feet: 10.5-30.5)</b>													
08/02/05	40.20	15.44	0.00	24.76	-0.74	--	11000	ND<10	ND<10	780	2600	--	ND<10	
<b>U-2</b>	<b>(Screen Interval in feet: 15.0-30.0)</b>													
08/02/05	41.26	16.62	0.00	24.64	--	--	--	--	--	--	--	--	--	Monitored only
<b>U-3</b>	<b>(Screen Interval in feet: 15.0-25.0)</b>													
08/02/05	39.26	14.93	0.00	24.33	-0.75	--	6300	ND<2.5	ND<2.5	320	970	--	ND<2.5	
<b>U-4</b>	<b>(Screen Interval in feet: 15.0-28.0)</b>													
08/02/05	40.25	15.82	0.00	24.43	-0.85	--	--	--	--	--	--	--	--	Monitored Only
<b>U-5</b>	<b>(Screen Interval in feet: 15.0-30.0)</b>													
08/02/05	39.31	15.02	0.00	24.29	-0.64	--	--	--	--	--	--	--	--	Sampled Annually
<b>U-6</b>	<b>(Screen Interval in feet: 13.0-28.0)</b>													
09/08/05	37.68	13.98	0.00	23.70	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	Paved over on 8/2/05
<b>U-7</b>	<b>(Screen Interval in feet: 15.0-35.0)</b>													
09/08/05	37.11	13.59	0.00	23.52	--	--	ND<50	ND<0.50	0.89	ND<0.50	1.7	--	ND<0.50	Paved over on 8/2/05
<b>U-8</b>	<b>(Screen Interval in feet: 15.0-30.0)</b>													
08/02/05	38.57	14.31	0.00	24.26	-0.75	--	--	--	--	--	--	--	--	Sampled annually
<b>U-9</b>	<b>(Screen Interval in feet: 13.0-28.0)</b>													
08/02/05	37.31	13.47	0.00	23.84	-0.79	--	--	--	--	--	--	--	--	Sampled annually

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-1 (Screen Interval in feet: 10.5-30.5)</b>														
02/09/88	--	--	--	--	--	93000	--	3600	11000	--	20000	--	--	
03/20/90	--	--	--	--	--	36000	--	2100	5500	1900	9300	--	--	
06/05/90	--	--	--	--	--	46000	--	2300	5500	2500	11000	--	--	
08/24/90	--	--	--	--	--	27000	--	1200	1800	1400	5500	--	--	
12/05/90	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
03/04/91	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
06/03/91	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
09/19/91	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
12/04/91	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
03/05/92	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
04/07/92	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
08/06/92	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
11/20/92	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to free product
02/12/93	--	--	--	--	--	70000	--	2200	8400	3100	18000	--	--	
06/04/93	40.51	16.72	0.00	23.79	--	35000	--	1300	5700	900	9200	--	--	
09/09/93	40.51	17.77	0.00	22.74	-1.05	67000	--	2900	18000	6200	32000	--	--	
12/02/93	40.20	18.36	0.01	21.85	-0.89	--	--	--	--	--	--	--	--	Not sampled due to free product

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-1, continued</b>														
03/09/94	40.20	17.20	0.00	23.00	1.15	45000	--	930	4100	2000	11000	--	--	
06/09/94	40.20	17.42	0.00	22.78	-0.22	59000	--	5200	1300	5200	15000	--	--	
09/07/94	40.20	18.17	0.00	22.03	-0.75	41000	--	1600	6200	3100	16000	--	--	
12/05/94	40.20	16.67	0.00	23.53	1.50	1300	--	55	20	16	330	--	--	
03/09/95	40.20	15.82	0.00	24.38	0.85	49000	--	860	3200	1900	10000	1500	--	
06/13/95	40.20	14.70	0.00	25.50	1.12	53000	--	1400	5000	2500	14000	2800	--	
09/12/95	40.01	16.77	0.00	23.24	-2.26	43000	--	910	2700	1700	9600	1400	--	
12/14/95	40.20	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible; system not running
03/20/96	40.20	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible; system not running
03/22/96	40.20	--	--	--	--	13000	--	200	590	640	4000	790	--	
09/24/96	40.20	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible; system not running
03/27/97	40.20	15.29	0.00	24.91	--	1300	--	8	ND	ND	400	ND	--	
09/23/97	40.20	17.20	0.00	23.00	-1.91	2000	--	15	ND	ND	530	ND	--	
03/10/98	40.20	12.68	0.00	27.52	4.52	2200	--	19	4.8	ND	980	38	--	
09/04/98	40.20	16.84	0.00	23.36	-4.16	5300	--	53	ND	410	620	ND	--	
03/04/99	40.20	13.04	0.00	27.16	3.80	1500	--	19	ND	56	110	310	--	
09/13/99	40.20	17.14	0.00	23.06	-4.10	5850	--	32.7	ND	520	925	ND	--	
03/21/00	40.20	14.36	0.00	25.84	2.78	4820	--	17.4	7.74	297	1370	ND	--	
09/18/00	40.20	16.72	0.00	23.48	-2.36	647	--	6.44	ND	22.3	6.86	22.2	--	
10/13/00	40.20	16.85	0.00	23.35	-0.13	--	--	--	--	--	--	--	29	
03/16/01	40.20	15.84	0.00	24.36	1.01	4950	--	1.73	1.77	429	536	613	--	
09/04/01	40.20	17.16	0.00	23.04	-1.32	11000	--	25	ND<10	1100	1800	370	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-1 continued</b>														
03/18/02	40.20	15.60	--	24.60	1.56	8100	--	ND<20	ND<20	740	1300	ND<200	--	
09/17/02	40.20	17.35	0.00	22.85	-1.75	--	4200	ND<2.5	ND<2.5	120	43	--	280	
03/28/03	40.20	15.72	0.00	24.48	1.63	--	560	ND<0.50	ND<0.50	0.96	ND<1.0	--	69	
09/05/03	40.20	16.77	--	23.43	-1.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2	
03/04/04	40.20	14.64	0.00	25.56	2.13	--	20000	ND<20	ND<20	1900	8300	--	ND<80	
09/09/04	40.20	16.64	0.00	23.56	-2.00	--	22000	ND<20	ND<20	1800	6100	--	ND<20	
03/01/05	40.20	14.70	0.00	25.50	1.94	--	25000	ND<13	ND<13	1900	6800	--	ND<13	
08/02/05	40.20	15.44	0.00	24.76	-0.74	--	11000	ND<10	ND<10	780	2600	--	ND<10	
<b>U-2 (Screen Interval in feet: 15.0-30.0)</b>														
08/23/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
03/04/91	--	--	--	--	--	ND	--	ND	0.9	ND	2.6	--	--	
06/03/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
09/19/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/04/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
03/05/92	--	--	--	--	--	ND	--	ND	0.36	ND	ND	--	--	
04/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/20/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/04/93	41.62	17.59	0.00	24.03	--	ND	--	ND	ND	ND	ND	--	--	
09/09/93	41.62	18.68	0.00	22.94	-1.09	ND	--	ND	ND	ND	ND	--	--	
12/02/93	41.26	19.23	0.00	22.03	-0.91	ND	--	ND	ND	ND	ND	--	--	
03/09/94	41.26	18.05	0.00	23.21	1.18	62	--	1.1	5.4	1.1	9.7	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-2 continued</b>														
04/13/94	41.26	18.18	0.00	23.08	-0.13	ND	--	ND	ND	ND	ND	--	--	
06/09/94	41.26	18.26	0.00	23.00	-0.08	ND	--	ND	ND	ND	ND	--	--	
09/07/94	41.26	19.28	0.00	21.98	-1.02	ND	--	ND	0.63	ND	0.61	--	--	
12/05/94	41.26	18.82	0.00	22.44	0.46	ND	--	ND	ND	ND	ND	--	--	
03/09/95	41.26	16.96	0.00	24.30	1.86	ND	--	ND	ND	ND	ND	ND	--	
06/13/95	41.26	16.71	0.00	24.55	0.25	ND	--	ND	ND	ND	ND	ND	--	
09/12/95	41.26	17.80	0.00	23.46	-1.09	ND	--	ND	ND	ND	ND	ND	--	
12/14/95	41.26	18.18	0.00	23.08	-0.38	ND	--	ND	ND	ND	ND	ND	--	
03/20/96	41.26	15.02	0.00	26.24	3.16	--	--	--	--	--	--	--	--	
09/24/96	41.26	17.90	0.00	23.36	-2.88	--	--	--	--	--	--	--	--	
03/27/97	41.26	16.45	0.00	24.81	1.45	ND	--	ND	ND	ND	ND	ND	--	
09/23/97	41.26	18.40	0.00	22.86	-1.95	--	--	--	--	--	--	--	--	
03/10/98	41.26	13.79	0.00	27.47	4.61	ND	--	ND	ND	ND	ND	ND	--	
09/04/98	41.26	17.98	0.00	23.28	-4.19	--	--	--	--	--	--	--	--	
03/04/99	41.26	14.96	0.00	26.30	3.02	ND	--	ND	ND	ND	ND	ND	--	
09/13/99	41.26	18.25	0.00	23.01	-3.29	--	--	--	--	--	--	--	--	
03/21/00	41.26	15.54	0.00	25.72	2.71	ND	--	ND	ND	ND	ND	ND	--	
09/18/00	41.26	17.55	0.00	23.71	-2.01	--	--	--	--	--	--	--	--	
03/16/01	41.26	17.06	0.00	24.20	0.49	--	--	--	--	--	--	--	--	
09/04/01	41.26	18.39	0.00	22.87	-1.33	--	--	--	--	--	--	--	--	
03/18/02	41.26	16.87	--	24.39	1.52	--	--	--	--	--	--	--	--	
09/17/02	41.26	18.33	0.00	22.93	-1.46	--	--	--	--	--	--	--	--	
03/28/03	41.26	16.95	0.00	24.31	1.38	--	--	--	--	--	--	--	--	
09/05/03	41.26	18.00	0.00	23.26	-1.05	--	--	--	--	--	--	--	--	Monitored Only



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-2 continued</b>														
03/04/04	41.26	16.17	0.00	25.09	1.83	--	--	--	--	--	--	--	--	Monitored Only
09/09/04	41.26	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible-car parked on well
03/01/05	41.26	--	--	--	--	--	--	--	--	--	--	--	--	Car parked on well
08/02/05	41.26	16.62	0.00	24.64	--	--	--	--	--	--	--	--	--	Monitored only
<b>U-3 (Screen Interval in feet: 15.0-25.0)</b>														
08/23/90	--	--	--	--	--	110000	--	4400	13000	2800	17000	--	--	
12/05/90	--	--	--	--	--	69000	--	1900	3500	1600	9800	--	--	
01/18/91	--	--	--	--	--	51000	--	1700	3100	1500	7500	--	--	
03/04/91	--	--	--	--	--	84000	--	1400	10000	2900	17000	--	--	
06/03/91	--	--	--	--	--	130000	--	5800	19000	4600	24000	--	--	
09/19/91	--	--	--	--	--	61000	--	3300	9700	2800	15000	--	--	
12/04/91	--	--	--	--	--	75000	--	2500	6100	1900	11000	--	--	
03/05/92	--	--	--	--	--	160000	--	5300	15000	5400	26000	--	--	
04/07/92	--	--	--	--	--	97000	--	6100	16000	5400	28000	--	--	
08/06/92	--	--	--	--	--	140000	--	5100	13000	5000	23000	--	--	
11/20/92	--	--	--	--	--	50000	--	3200	4700	1900	10000	--	--	
02/12/93	--	--	--	--	--	80000	--	3700	9400	3700	18000	--	--	
06/04/93	39.64	15.48	0.00	24.16	--	92000	--	2900	8700	4300	20000	--	--	
09/09/93	39.64	17.04	0.00	22.60	-1.56	110000	--	2800	10000	6500	31000	--	--	
12/02/93	39.26	17.55	0.00	21.71	-0.89	110000	--	3200	7700	5600	26000	--	--	
03/09/94	39.26	16.35	0.00	22.91	1.20	120000	--	4500	8300	5600	28000	--	--	
06/09/94	39.26	16.60	0.00	22.66	-0.25	120000	--	3300	6100	5200	26000	--	--	
09/07/94	39.26	17.61	0.00	21.65	-1.01	100000	--	2400	4900	4200	21000	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-3 continued</b>														
12/05/94	39.26	17.08	0.00	22.18	0.53	140000	--	3100	5100	4900	21000	--	--	
03/09/95	39.26	15.20	0.00	24.06	1.88	100000	--	2300	3300	4800	21000	54000	--	
06/13/95	39.26	15.11	0.00	24.15	0.09	64000	--	1700	1500	3800	18000	900	--	
09/12/95	39.26	16.11	0.00	23.15	-1.00	69000	--	1700	820	4000	19000	29000	--	
12/14/95	39.26	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible; system not running
03/20/96	39.26	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible; system not running
03/22/96	39.26	--	--	--	--	15000	--	150	490	480	3100	400	--	
09/24/96	39.26	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible; system not running
03/27/97	39.26	14.77	0.00	24.49	--	110	--	ND	ND	ND	0.62	9.6	--	
09/23/97	39.26	16.74	0.00	22.52	-1.97	ND	--	ND	ND	ND	ND	ND	--	
03/10/98	39.26	12.18	0.00	27.08	4.56	ND	--	ND	ND	ND	3.1	ND	--	
09/04/98	39.26	16.46	0.00	22.80	-4.28	ND	--	ND	ND	1.2	2.3	ND	--	
03/04/99	39.26	13.48	0.00	25.78	2.98	ND	--	ND	ND	ND	ND	ND	--	
09/13/99	39.26	16.71	0.00	22.55	-3.23	ND	--	ND	1.77	ND	1.06	9.08	--	
03/21/00	39.26	13.87	--	25.39	2.84	18700	--	ND	ND	1290	4770	ND	--	
09/18/00	39.26	16.12	0.00	23.14	-2.25	ND	--	ND	ND	ND	ND	ND	--	
03/16/01	39.26	15.35	0.00	23.91	0.77	2310	--	ND	ND	184	618	ND	--	
09/04/01	39.26	16.71	0.00	22.55	-1.36	340	--	0.95	ND<0.50	8.1	18	ND<5.0	--	
03/18/02	39.26	15.11	--	24.15	1.60	6500	--	ND<10	ND<10	390	1400	ND<100	--	
09/17/02	39.26	17.67	0.00	21.59	-2.56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.0	
03/28/03	39.26	15.25	0.00	24.01	2.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/05/03	39.26	16.30	0.00	22.96	-1.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-3 continued</b>														
03/04/04	39.26	14.11	0.00	25.15	2.19	--	14000	ND<10	ND<10	940	3500	--	ND<40	
09/09/04	39.26	16.22	0.00	23.04	-2.11	--	1300	ND<2.5	ND<2.5	66	160	--	ND<2.5	
03/01/05	39.26	14.18	0.00	25.08	2.04	--	14000	ND<5.0	ND<5.0	690	2000	--	ND<5.0	
08/02/05	39.26	14.93	0.00	24.33	-0.75	--	6300	ND<2.5	ND<2.5	320	970	--	ND<2.5	
<b>U-4 (Screen Interval in feet: 15.0-28.0)</b>														
08/23/90	--	--	--	--	--	ND	--	ND	1.0	ND	1.8	--	--	
12/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/18/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
03/04/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/03/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
09/19/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/04/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
03/05/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/20/92	--	--	--	--	--	ND	--	ND	2.5	ND	ND	--	--	
02/12/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/04/93	40.53	16.73	0.00	23.80	--	ND	--	ND	ND	ND	ND	--	--	
09/09/93	40.53	16.89	0.00	23.64	-0.16	ND	--	ND	ND	ND	ND	--	--	
12/02/93	40.25	18.46	0.00	21.79	-1.85	ND	--	ND	ND	ND	2.6	--	--	
03/09/94	40.25	17.30	0.00	22.95	1.16	ND	--	1.4	4.7	1.1	8.1	--	--	
04/13/94	40.25	17.44	0.00	22.81	-0.14	ND	--	ND	ND	ND	ND	--	--	
06/09/94	40.25	17.53	0.00	22.72	-0.09	ND	--	ND	ND	ND	ND	--	--	
09/07/94	40.28	18.52	0.00	21.76	-0.96	ND	--	ND	1.1	ND	1.0	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-4 continued</b>														
12/05/94	40.28	18.08	0.00	22.20	0.44	ND	--	ND	ND	ND	ND	--	--	
03/09/95	40.28	16.16	0.00	24.12	1.92	ND	--	ND	ND	ND	ND	ND	--	
06/13/95	40.25	15.95	0.00	24.30	0.18	ND	--	ND	ND	ND	ND	2.7	--	
09/12/95	40.25	17.10	0.00	23.15	-1.15	ND	--	ND	ND	ND	ND	ND	--	
12/14/95	40.25	17.43	0.00	22.82	-0.33	ND	--	ND	ND	ND	ND	1.3	--	
03/20/96	40.25	14.93	0.00	25.32	2.50	--	--	--	--	--	--	--	--	
09/24/96	40.25	17.19	0.00	23.06	-2.26	--	--	--	--	--	--	--	--	
03/27/97	40.25	15.66	0.00	24.59	1.53	ND	--	ND	ND	ND	ND	ND	--	
09/23/97	40.25	17.69	0.00	22.56	-2.03	--	--	--	--	--	--	--	--	
03/10/98	40.25	12.99	0.00	27.26	4.70	ND	--	ND	ND	ND	ND	ND	--	
09/04/98	40.25	17.28	0.00	22.97	-4.29	--	--	--	--	--	--	--	--	
03/04/99	40.25	14.17	0.00	26.08	3.11	ND	--	ND	ND	ND	ND	ND	--	
09/13/99	40.25	17.55	0.00	22.70	-3.38	--	--	--	--	--	--	--	--	
03/21/00	40.25	14.74	0.00	25.51	2.81	ND	--	ND	ND	ND	ND	ND	--	
09/18/00	40.25	16.88	0.00	23.37	-2.14	--	--	--	--	--	--	--	--	
03/16/01	40.25	16.32	0.00	23.93	0.56	--	--	--	--	--	--	--	--	
09/04/01	40.25	17.70	0.00	22.55	-1.38	--	--	--	--	--	--	--	--	
03/18/02	40.25	16.08	--	24.17	1.62	--	--	--	--	--	--	--	--	
09/17/02	40.25	16.56	0.00	23.69	-0.48	--	--	--	--	--	--	--	--	
03/28/03	40.25	16.15	0.00	24.10	0.41	--	--	--	--	--	--	--	--	
09/05/03	40.25	17.20	0.00	23.05	-1.05	--	--	--	--	--	--	--	--	Monitored Only
03/04/04	40.25	15.39	0.00	24.86	1.81	--	--	--	--	--	--	--	--	Monitored Only
09/09/04	40.25	16.98	0.00	23.27	-1.59	--	--	--	--	--	--	--	--	Monitored Only
03/01/05	40.25	14.97	0.00	25.28	2.01	--	--	--	--	--	--	--	--	Monitor Only

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-4 continued</b>														
08/02/05	40.25	15.82	0.00	24.43	-0.85	--	--	--	--	--	--	--	--	Monitored Only
<b>U-5 (Screen Interval in feet: 15.0-30.0)</b>														
04/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/20/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/04/93	39.61	16.05	0.00	23.56	--	ND	--	ND	ND	ND	ND	--	--	
09/09/93	39.61	16.90	0.00	22.71	-0.85	ND	--	ND	ND	ND	ND	--	--	
12/02/93	39.31	17.66	0.00	21.65	-1.06	ND	--	ND	ND	ND	ND	--	--	
03/09/94	39.31	16.45	0.00	22.86	1.21	71	--	1.7	6.3	1.5	10	--	--	
04/13/94	39.31	16.64	0.00	22.67	-0.19	ND	--	ND	ND	ND	ND	--	--	
06/09/94	39.31	16.70	0.00	22.61	-0.06	ND	--	ND	ND	ND	ND	--	--	
09/07/94	39.31	17.73	0.00	21.58	-1.03	ND	--	ND	0.73	ND	0.84	--	--	
12/05/94	39.31	17.23	0.00	22.08	0.50	ND	--	ND	ND	ND	ND	--	--	
03/09/95	39.31	15.35	0.00	23.96	1.88	ND	--	ND	ND	ND	ND	ND	--	
06/13/95	39.31	15.16	0.00	24.15	0.19	ND	--	ND	ND	ND	ND	0.87	--	
09/12/95	39.31	16.30	0.00	23.01	-1.14	ND	--	ND	ND	ND	ND	ND	--	
12/14/95	39.31	16.56	0.00	22.75	-0.26	ND	--	ND	ND	ND	ND	ND	--	
03/20/96	39.31	14.07	0.00	25.24	2.49	--	--	--	--	--	--	--	--	
09/24/96	39.31	16.55	0.00	22.76	-2.48	--	--	--	--	--	--	--	--	
03/27/97	39.31	14.85	0.00	24.46	1.70	ND	--	ND	ND	ND	ND	ND	--	
09/23/97	39.31	16.90	0.00	22.41	-2.05	--	--	--	--	--	--	--	--	Sampled annually
03/10/98	39.31	12.21	0.00	27.10	4.69	ND	--	ND	ND	ND	ND	ND	--	
09/04/98	39.31	16.57	0.00	22.74	-4.36	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-5 continued</b>														
03/04/99	39.31	13.42	0.00	25.89	3.15	ND	--	ND	0.67	ND	ND	ND	--	
09/13/99	39.31	17.02	0.00	22.29	-3.60	--	--	--	--	--	--	--	--	
03/21/00	39.31	13.93	0.00	25.38	3.09	ND	--	ND	ND	ND	ND	ND	--	
09/18/00	39.31	16.17	0.00	23.14	-2.24	--	--	--	--	--	--	--	--	
03/16/01	39.31	15.51	0.00	23.80	0.66	ND	--	ND	ND	ND	ND	ND	--	
09/04/01	39.31	16.88	0.00	22.43	-1.37	--	--	--	--	--	--	--	--	
03/18/02	39.31	15.25	--	24.06	1.63	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
09/17/02	39.31	16.71	0.00	22.60	-1.46	--	--	--	--	--	--	--	--	Sampled annually
03/28/03	39.31	15.21	0.00	24.10	1.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/05/03	39.31	16.26	0.00	23.05	-1.05	--	--	--	--	--	--	--	--	Sampled annually
03/04/04	39.31	14.79	0.00	24.52	1.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/09/04	39.31	16.30	0.00	23.01	-1.51	--	--	--	--	--	--	--	--	Monitored Only
03/01/05	39.31	14.38	0.00	24.93	1.92	--	ND<50	ND<0.50	ND<0.50	0.53	2.0	--	ND<0.50	
08/02/05	39.31	15.02	0.00	24.29	-0.64	--	--	--	--	--	--	--	--	Sampled Annually
<b>U-6 (Screen Interval in feet: 13.0-28.0)</b>														
04/07/92	--	--	--	--	--	6600	--	90	ND	820	1200	--	--	
08/06/92	--	--	--	--	--	9200	--	160	ND	360	150	--	--	
11/20/92	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
02/12/93	--	--	--	--	--	2600	--	27	ND	120	51	--	--	
06/04/93	37.94	14.45	0.00	23.49	--	13000	--	100	38	450	320	--	--	
09/09/93	37.94	15.56	0.00	22.38	-1.11	6300	--	29	ND	120	34	--	--	
12/02/93	37.68	16.08	0.00	21.60	-0.78	2100	--	12	1.6	21	1.1	--	--	
03/09/94	37.68	14.90	0.00	22.78	1.18	2200	--	11	8.2	24	16	--	--	
06/09/94	37.68	15.18	0.00	22.50	-0.28	2600	--	16	ND	29	ND	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-6 continued</b>														
09/07/94	37.68	16.20	0.00	21.48	-1.02	16004	--	ND	ND	ND	ND	--	--	
12/05/94	37.68	15.60	0.00	22.08	0.60	450	--	ND	ND	ND	ND	--	--	
03/09/95	37.68	13.74	0.00	23.94	1.86	2500	--	29	ND	70	120	320	--	
06/13/95	37.68	13.73	0.00	23.95	0.01	1300	--	ND	ND	20	46	5400	--	
09/12/95	37.68	14.85	0.00	22.83	-1.12	ND	--	ND	ND	ND	ND	6600	--	
12/14/95	37.68	14.89	0.00	22.79	-0.04	760	--	ND	ND	7	8.4	1100	--	
03/20/96	37.68	12.41	0.00	25.27	2.48	52	--	1.1	0.98	ND	0.75	1200	--	
09/24/96	37.68	15.06	0.00	22.62	-2.65	ND	--	ND	ND	ND	ND	750	--	
03/27/97	37.68	13.48	0.00	24.20	1.58	ND	--	ND	ND	ND	ND	150	--	
09/23/97	37.68	15.36	0.00	22.32	-1.88	66	--	0.81	ND	ND	ND	150	--	
03/10/98	37.68	10.90	0.00	26.78	4.46	ND	--	ND	ND	ND	ND	18	--	
09/04/98	37.68	14.85	0.00	22.83	-3.95	ND	--	ND	ND	ND	ND	ND	--	
03/04/99	37.68	12.10	0.00	25.58	2.75	ND	--	ND	ND	ND	ND	6.5	--	
09/13/99	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
03/21/00	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/18/00	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
03/16/01	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/04/01	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
03/18/02	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/17/02	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-6 continued</b>														
09/05/03	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
03/04/04	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
09/09/04	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
03/01/05	37.68	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate-Paved over
09/08/05	37.68	13.98	0.00	23.70	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	Paved over on 8/2/05
<b>U-7 (Screen Interval in feet: 15.0-35.0)</b>														
04/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/20/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/04/93	37.49	14.17	0.00	23.32	--	ND	--	ND	ND	ND	ND	--	--	
09/09/93	37.49	15.23	0.00	22.26	-1.06	ND	--	ND	ND	ND	ND	--	--	
12/02/93	37.11	15.61	0.00	21.50	-0.76	ND	--	ND	ND	ND	ND	--	--	
03/09/94	37.11	14.45	0.00	22.66	1.16	ND	--	1.4	4.4	0.96	7.5	--	--	
04/13/94	37.11	14.63	0.00	22.48	-0.18	ND	--	ND	ND	ND	ND	--	--	
06/09/94	37.11	14.70	0.00	22.41	-0.07	ND	--	ND	ND	ND	ND	--	--	
09/07/94	37.11	15.72	0.00	21.39	-1.02	ND	--	ND	ND	ND	ND	--	--	
12/05/94	37.11	15.10	0.00	22.01	0.62	ND	--	ND	ND	ND	ND	--	--	
03/09/95	37.11	13.36	0.00	23.75	1.74	ND	--	ND	ND	ND	ND	ND	--	
06/13/95	37.11	13.33	0.00	23.78	0.03	ND	--	ND	ND	ND	ND	3.5	--	
09/12/95	37.11	14.40	0.00	22.71	-1.07	ND	--	ND	ND	ND	ND	ND	--	
12/14/95	37.11	14.39	0.00	22.72	0.01	ND	--	ND	ND	ND	ND	1.4	--	
03/20/96	37.11	11.96	0.00	25.15	2.43	--	--	--	--	--	--	--	--	
09/24/96	37.11	14.59	0.00	22.52	-2.63	--	--	--	--	--	--	--	--	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-7 continued</b>														
03/27/97	37.11	13.08	0.00	24.03	1.51	ND	--	ND	ND	ND	ND	ND	--	
09/23/97	37.11	14.90	0.00	22.21	-1.82	--	--	--	--	--	--	--	--	
03/10/98	37.11	10.46	0.00	26.65	4.44	ND	--	ND	ND	ND	ND	ND	--	
09/04/98	37.11	14.42	0.00	22.69	-3.96	--	--	--	--	--	--	--	--	
03/04/99	37.11	11.64	0.00	25.47	2.78	ND	--	ND	ND	ND	ND	6.6	--	
09/13/99	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
03/21/00	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/18/00	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
03/16/01	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/04/01	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/17/02	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible covered with asphalt
09/05/03	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
03/04/04	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
09/09/04	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
03/01/05	37.11	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate-Paved over
09/08/05	37.11	13.59	0.00	23.52	--	--	ND<50	ND<0.50	0.89	ND<0.50	1.7	--	ND<0.50	Paved over on 8/2/05
<b>U-8 (Screen Interval in feet: 15.0-30.0)</b>														
04/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-8 continued</b>														
06/04/93	38.94	15.26	0.00	23.68	--	ND	--	ND	ND	ND	ND	--	--	
09/09/93	38.94	16.38	0.00	22.56	-1.12	ND	--	ND	ND	ND	ND	--	--	
12/02/93	38.57	16.80	0.00	21.77	-0.79	ND	--	ND	ND	ND	ND	--	--	
03/09/94	38.57	15.62	0.00	22.95	1.18	ND	--	1.2	3.7	0.79	6.1	--	--	
04/13/94	38.57	15.80	0.00	22.77	-0.18	ND	--	ND	0.78	ND	0.98	--	--	
06/09/94	38.57	15.86	0.00	22.71	-0.06	ND	--	ND	ND	ND	ND	--	--	
09/07/94	38.57	16.87	0.00	21.70	-1.01	ND	--	ND	ND	ND	ND	--	--	
12/05/94	38.57	16.32	0.00	22.25	0.55	ND	--	ND	ND	ND	ND	--	--	
03/09/95	38.57	14.56	0.00	24.01	1.76	ND	--	ND	ND	ND	ND	ND	--	
06/13/95	38.57	14.40	0.00	24.17	0.16	ND	--	ND	ND	ND	ND	ND	--	
09/12/95	38.57	15.50	0.00	23.07	-1.10	ND	--	ND	ND	ND	ND	ND	--	
12/14/95	38.57	15.67	0.00	22.90	-0.17	ND	--	ND	ND	ND	ND	ND	--	
03/20/96	38.57	13.25	0.00	25.32	2.42	--	--	--	--	--	--	--	--	
09/24/96	38.57	15.75	0.00	22.82	-2.50	--	--	--	--	--	--	--	--	
03/27/97	38.57	14.18	0.00	24.39	1.57	ND	--	ND	ND	ND	ND	ND	--	
09/23/97	38.57	16.05	0.00	22.52	-1.87	--	--	--	--	--	--	--	--	Sampled annually
03/10/98	38.57	11.63	0.00	26.94	4.42	ND	--	ND	ND	ND	ND	ND	--	
09/04/98	38.57	15.81	0.00	22.76	-4.18	--	--	--	--	--	--	--	--	
03/04/99	38.57	12.81	0.00	25.76	3.00	ND	--	ND	ND	ND	ND	ND	--	
09/13/99	38.57	16.37	0.00	22.20	-3.56	--	--	--	--	--	--	--	--	
03/21/00	38.57	13.25	0.00	25.32	3.12	ND	--	ND	ND	ND	ND	ND	--	
09/18/00	38.57	15.31	0.00	23.26	-2.06	--	--	--	--	--	--	--	--	
03/16/01	38.57	14.71	0.00	23.86	0.60	ND	--	ND	ND	ND	ND	ND	--	
09/04/01	38.57	16.01	0.00	22.56	-1.30	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-8 continued</b>														
03/18/02	38.57	14.46	--	24.11	1.55	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
09/17/02	38.57	15.93	0.00	22.64	-1.47	--	--	--	--	--	--	--	--	Sampled annually
03/28/03	38.57	14.40	0.00	24.17	1.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/05/03	38.57	15.46	0.00	23.11	-1.06	--	--	--	--	--	--	--	--	Sampled annually
03/04/04	38.57	13.98	0.00	24.59	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/09/04	38.57	15.53	0.00	23.04	-1.55	--	--	--	--	--	--	--	--	Monitored Only
03/01/05	38.57	13.56	0.00	25.01	1.97	--	ND<50	ND<0.50	ND<0.50	0.80	2.8	--	ND<0.50	
08/02/05	38.57	14.31	0.00	24.26	-0.75	--	--	--	--	--	--	--	--	Sampled annually
<b>U-9 (Screen Interval in feet: 13.0-28.0)</b>														
06/04/93	37.88	14.67	0.00	23.21	--	2100	--	ND	ND	ND	ND	--	--	
09/09/93	37.88	15.79	0.00	22.09	-1.12	1200	--	ND	ND	ND	ND	--	--	
12/02/93	37.31	15.93	0.00	21.38	-0.71	ND	--	ND	ND	ND	ND	--	--	
03/09/94	37.31	14.74	0.00	22.57	1.19	5700	--	ND	ND	ND	ND	--	--	
04/13/94	37.31	14.96	0.00	22.35	-0.22	ND	--	ND	ND	ND	ND	--	--	
06/09/94	37.31	15.05	0.00	22.26	-0.09	2900	--	ND	ND	ND	ND	--	--	
09/07/94	37.31	16.06	0.00	21.25	-1.01	2700	--	ND	ND	ND	ND	--	--	
12/05/94	37.31	15.43	0.00	21.88	0.63	3700	--	ND	ND	ND	ND	--	--	
03/09/95	37.31	13.50	0.00	23.81	1.93	2500	--	ND	ND	ND	ND	5800	--	
06/13/95	37.31	13.63	0.00	23.68	-0.13	ND	--	ND	ND	ND	ND	1200	--	
09/12/95	37.31	14.73	0.00	22.58	-1.10	ND	--	ND	ND	ND	ND	1600	--	
12/14/95	37.31	14.67	0.00	22.64	0.06	ND	--	ND	ND	ND	ND	4400	--	
03/20/96	37.31	12.27	0.00	25.04	2.40	ND	--	ND	ND	ND	ND	480	--	
09/24/96	37.31	14.92	0.00	22.39	-2.65	ND	--	ND	ND	ND	ND	ND	--	
03/27/97	37.31	13.36	0.00	23.95	1.56	ND	--	ND	ND	ND	ND	42	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 1988 Through September 2005**  
**76 Station 5760**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>U-9 continued</b>														
09/23/97	37.31	15.28	0.00	22.03	-1.92	ND	--	ND	ND	ND	ND	ND	--	
03/10/98	37.31	10.86	0.00	26.45	4.42	ND	--	ND	ND	ND	3.1	ND	--	
09/04/98	37.31	15.03	0.00	22.28	-4.17	ND	--	ND	ND	ND	ND	ND	--	
03/04/99	37.31	11.95	0.00	25.36	3.08	ND	--	ND	ND	ND	ND	ND	--	
09/13/99	37.31	15.61	0.00	21.70	-3.66	ND	--	ND	1.67	ND	1.01	7.85	--	
03/21/00	37.31	12.38	0.00	24.93	3.23	ND	--	ND	ND	ND	ND	ND	--	
09/18/00	37.31	14.87	0.00	22.44	-2.49	ND	--	ND	1.42	ND	1.06	ND	--	
03/16/01	37.31	13.85	0.00	23.46	1.02	ND	--	ND	ND	ND	ND	ND	--	
09/04/01	37.31	15.22	0.00	22.09	-1.37	--	--	--	--	--	--	--	--	Sampled annually
03/18/02	37.31	13.56	--	23.75	1.66	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
09/17/02	37.31	15.14	0.00	22.17	-1.58	--	--	--	--	--	--	--	--	Sampled annually
03/28/03	37.31	13.61	0.00	23.70	1.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/05/03	37.31	14.64	0.00	22.67	-1.03	--	--	--	--	--	--	--	--	Sampled annually
03/04/04	37.31	13.07	0.00	24.24	1.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/09/04	37.31	14.75	0.00	22.56	-1.68	--	--	--	--	--	--	--	--	Monitored Only
03/01/05	37.31	12.68	0.00	24.63	2.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.1	
08/02/05	37.31	13.47	0.00	23.84	-0.79	--	--	--	--	--	--	--	--	Sampled annually

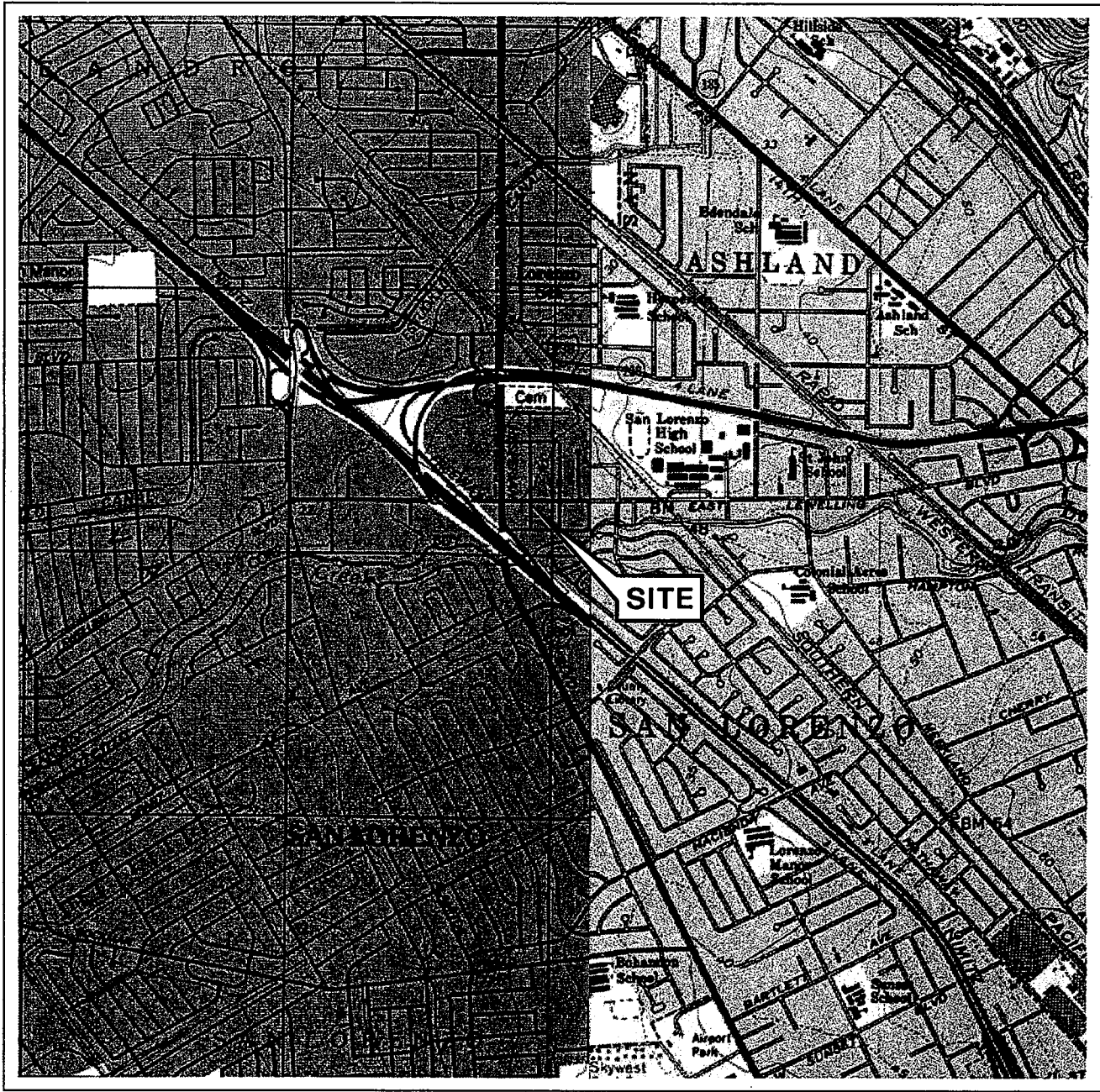
**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 5760**

Date Sampled	1,1-Dichloroethane (µg/l)	EDB (µg/l)	Pre-Purge DO (mg/l)	Post Purge DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
<b>U-1</b>									
03/27/97	--	--	2.41	2.35	--	--	--	--	--
10/13/00	ND	ND	--	--	ND	ND	ND	ND	ND
09/17/02	ND<10	ND<10	--	--	ND<10	ND<500	ND<10	ND<10	ND<2500
09/05/03	--	--	--	--	--	--	--	--	ND<500
03/04/04	--	--	--	--	--	--	--	--	ND<20000
09/09/04	--	--	--	--	--	--	--	--	ND<2000
03/01/05	--	--	--	--	--	--	--	--	ND<1300
08/02/05	--	--	--	--	--	--	--	--	ND<1000
<b>U-2</b>									
03/27/97	--	--	4.36	4.49	--	--	--	--	--
<b>U-3</b>									
03/27/97	--	--	3.18	3.32	--	--	--	--	--
09/05/03	--	--	--	--	--	--	--	--	ND<500
03/04/04	--	--	--	--	--	--	--	--	ND<10000
09/09/04	--	--	--	--	--	--	--	--	ND<250
03/01/05	--	--	--	--	--	--	--	--	ND<500
08/02/05	--	--	--	--	--	--	--	--	ND<250
<b>U-4</b>									
03/27/97	--	--	3.32	3.26	--	--	--	--	--
<b>U-5</b>									
03/27/97	--	--	3.74	3.77	--	--	--	--	--
03/04/04	--	--	--	--	--	--	--	--	ND<500
03/01/05	--	--	--	--	--	--	--	--	ND<50
<b>U-6</b>									
03/20/96	--	--	3.85	3.89	--	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 5760**

Date Sampled	1,1-Dichloroethane (µg/l)	EDB (µg/l)	Pre-Purge DO (mg/l)	Post Purge DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
<b>U-6 continued</b>									
09/24/96	--	--	3.73	3.81	--	--	--	--	--
03/27/97	--	--	4.43	4.36	--	--	--	--	--
09/23/97	--	--	--	4.14	--	--	--	--	--
03/10/98	--	--	--	3.95	--	--	--	--	--
09/08/05	--	--	--	--	--	--	--	--	ND<1000
<b>U-7</b>									
03/27/97	--	--	3.29	3.38	--	--	--	--	--
09/08/05	--	--	--	--	--	--	--	--	ND<1000
<b>U-8</b>									
03/27/97	--	--	3.04	3.11	--	--	--	--	--
03/04/04	--	--	--	--	--	--	--	--	ND<500
03/01/05	--	--	--	--	--	--	--	--	ND<50
<b>U-9</b>									
03/20/96	--	--	4.02	4	--	--	--	--	--
09/24/96	--	--	3.85	3.98	--	--	--	--	--
03/27/97	--	--	3.65	3.57	--	--	--	--	--
09/23/97	--	--	--	3.8	--	--	--	--	--
03/10/98	--	--	--	3.62	--	--	--	--	--
03/04/04	--	--	--	--	--	--	--	--	ND<500
03/01/05	--	--	--	--	--	--	--	--	ND<50

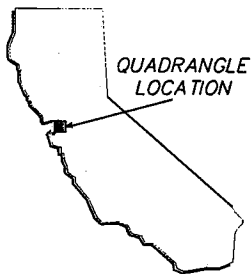
# FIGURES



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



SCALE 1:24,000



**VICINITY MAP**

76 Station 5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

**SOURCE:**

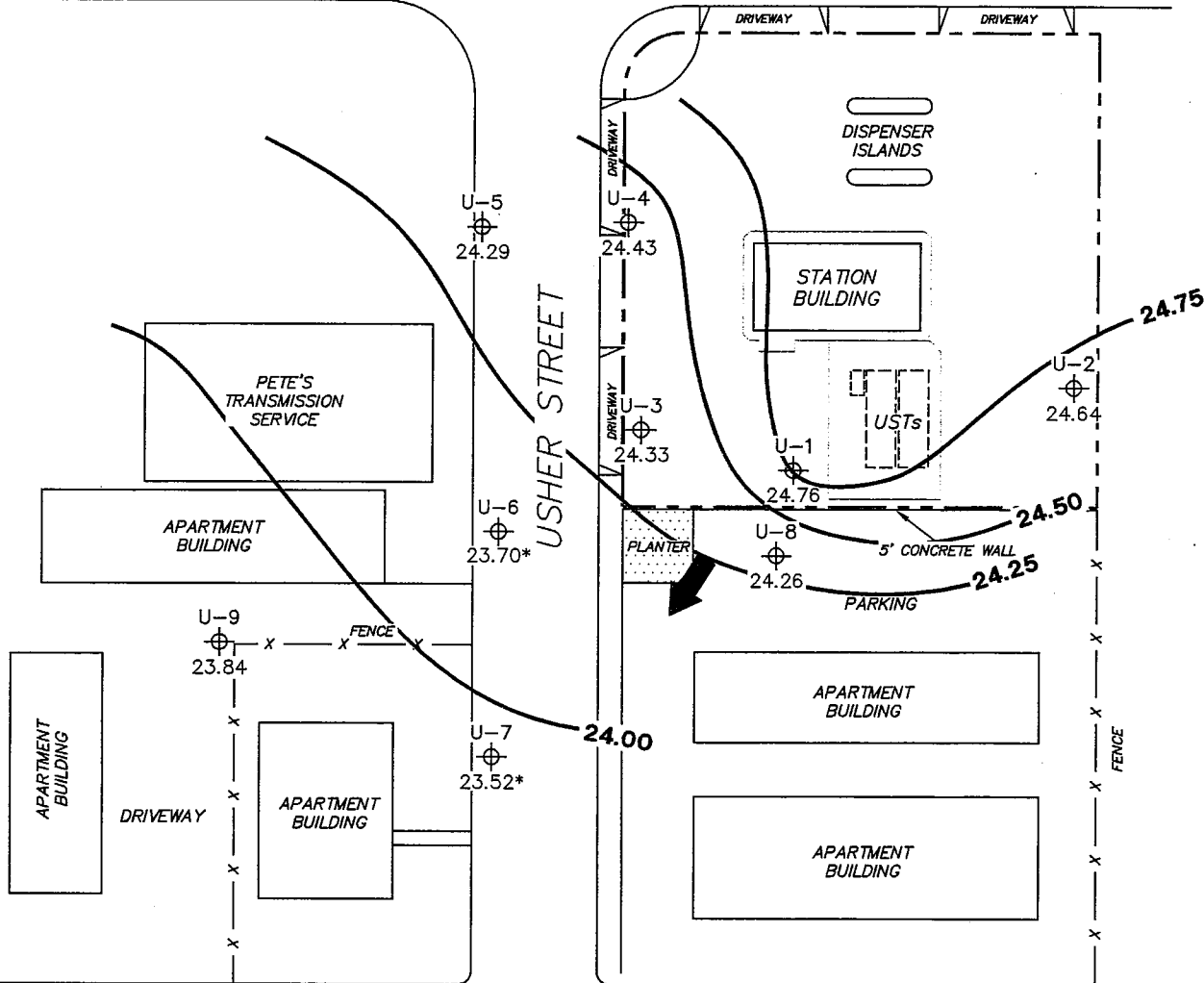
United States Geological Survey  
 7.5 Minute Topographic Map:  
 Hayward Quadrangle

**FIGURE 1**

**TRC**



LEWELLING BOULEVARD



ALBION AVENUE

**NOTES:**

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank.  
 \* = not included in groundwater contour interpretation; gauged on 9/8/05.

**LEGEND**

U-9 Monitoring Well with Groundwater Elevation (feet)

24.75 Groundwater Elevation Contour

General Direction of Groundwater Flow

**GROUNDWATER ELEVATION  
 CONTOUR MAP  
 August 2, 2005**

76 Station 5760  
 376 Lewelling Boulevard  
 San Lorenzo, California



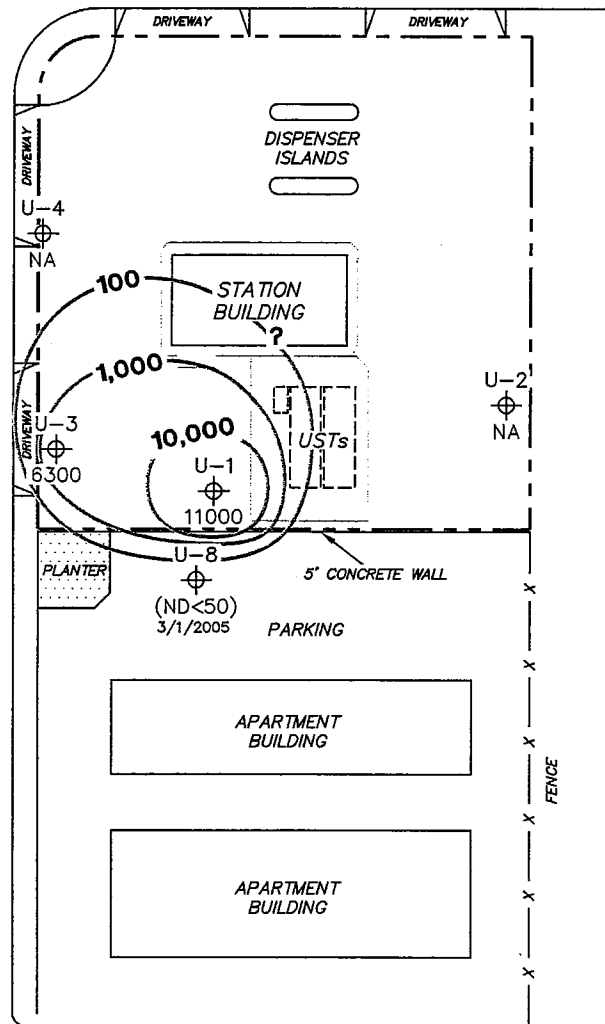
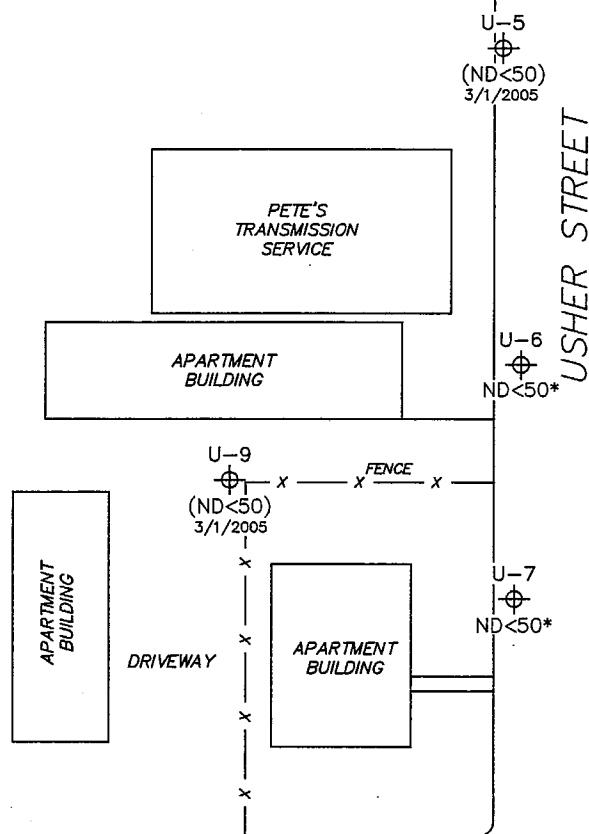
SCALE (FEET)



**FIGURE 2**

PS=1:15760-003

LEWELLING BOULEVARD



ALBION AVENUE

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  
 TPPH = total purgeable petroleum hydrocarbons.  
 µg/l = micrograms per liter. NA = not analyzed, measured or collected. ND = not detected at limit indicated on official laboratory report.  
 ( ) = representative of historical value.  
 UST = underground storage tank. \* = sampled on 9/8/05. Results obtained using EPA Method 8260B.

**LEGEND**

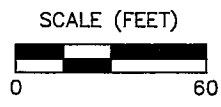
U-9 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

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

**DISSOLVED-PHASE TPPH CONCENTRATION MAP August 2, 2005**

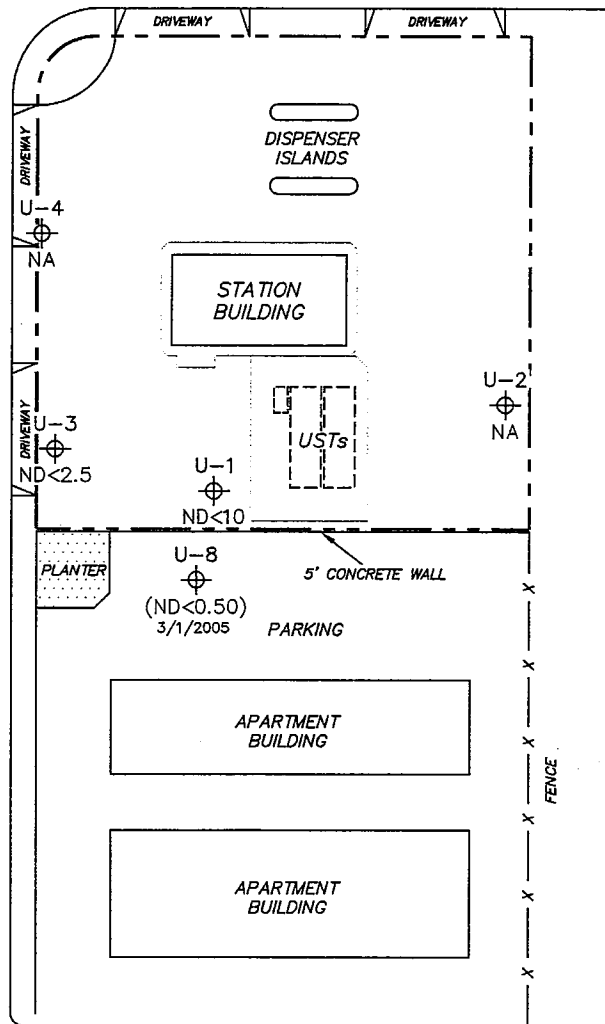
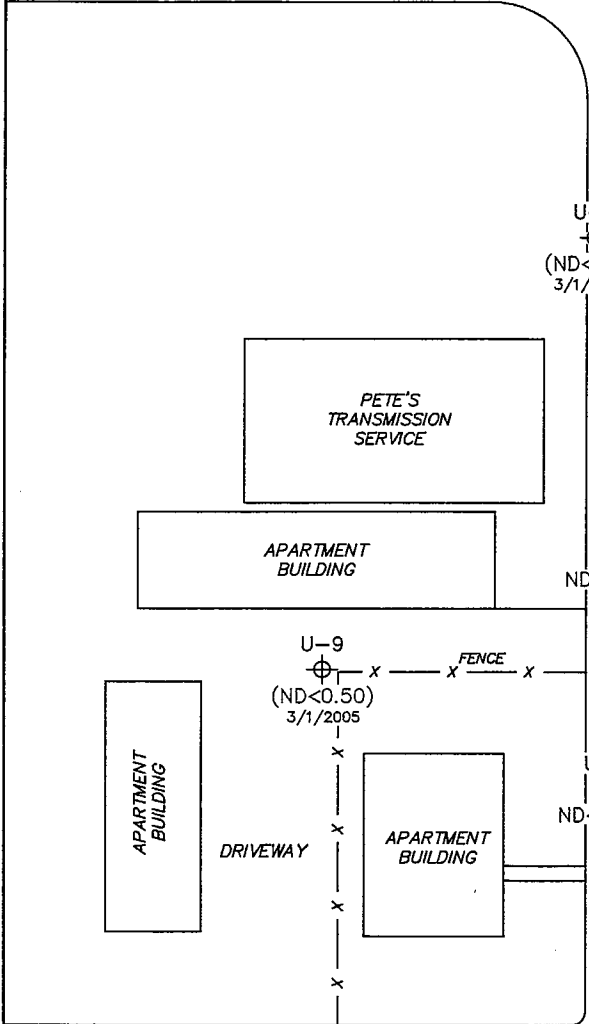
76 Station 5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

PS=1:15760-003



**FIGURE 3**

LEWELLING BOULEVARD



ALBION AVENUE

**NOTES:**

µg/l = micrograms per liter. NA = not analyzed, measured or collected. ND = not detected at limit indicated on official laboratory report.  
 ( ) = representative of historical value.  
 UST = underground storage tank. \* = sampled on 9/8/05.

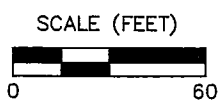
**LEGEND**

U-9 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

**DISSOLVED-PHASE BENZENE  
 CONCENTRATION MAP  
 August 2, 2005**

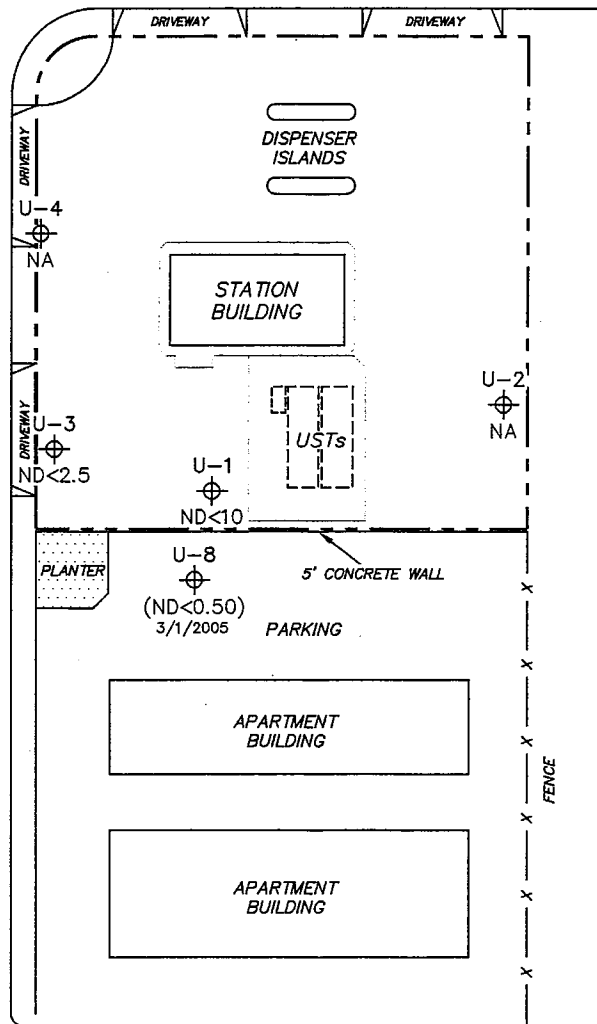
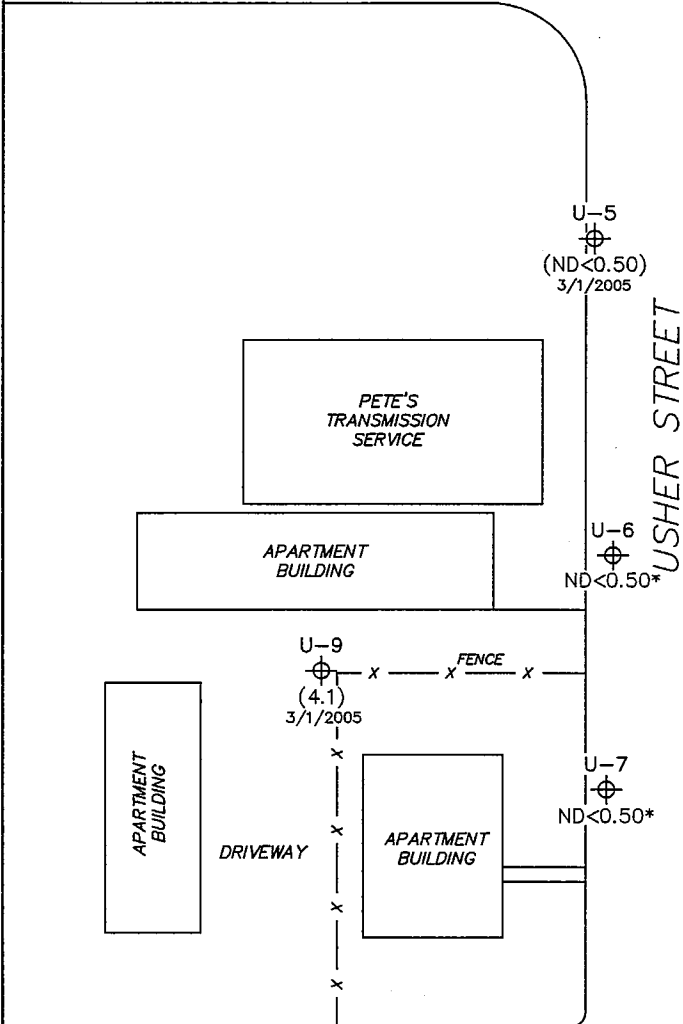
76 Station 5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

PS=1:15760-003



**FIGURE 4**

LEWELLING BOULEVARD



ALBION AVENUE

**NOTES:**

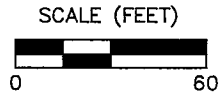
MTBE = methyl tertiary butyl ether.  
 µg/l = micrograms per liter. NA = not analyzed, measured or collected. ND = not detected at limit indicated on official laboratory report.  
 ( ) = representative of historical value.  
 UST = underground storage tank. \* = sampled on 9/8/05. Results obtained using EPA Method 8260B.

**LEGEND**

U-9 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

**DISSOLVED-PHASE MTBE CONCENTRATION MAP**  
**August 2, 2005**

76 Station 5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

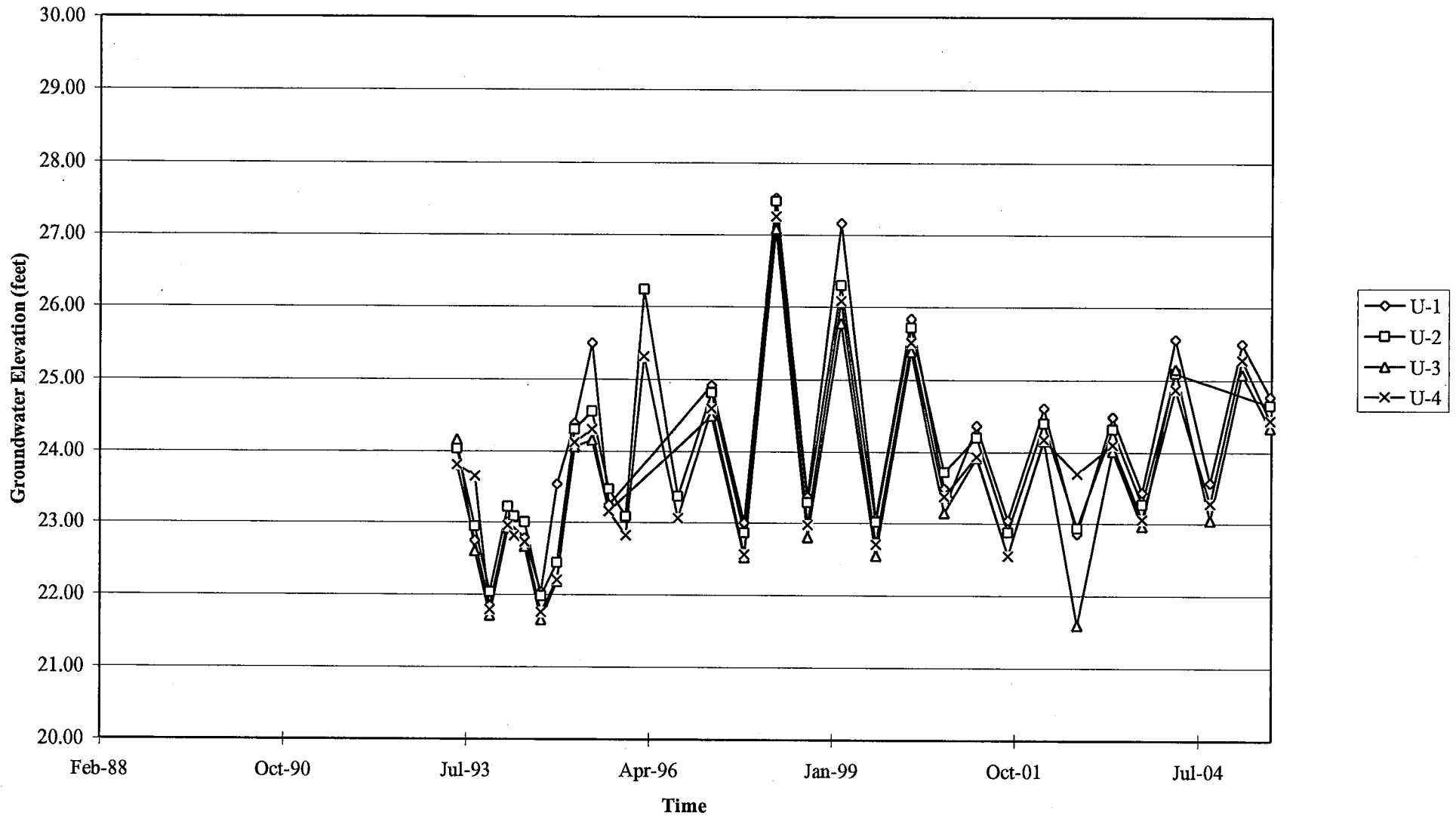


**FIGURE 5**

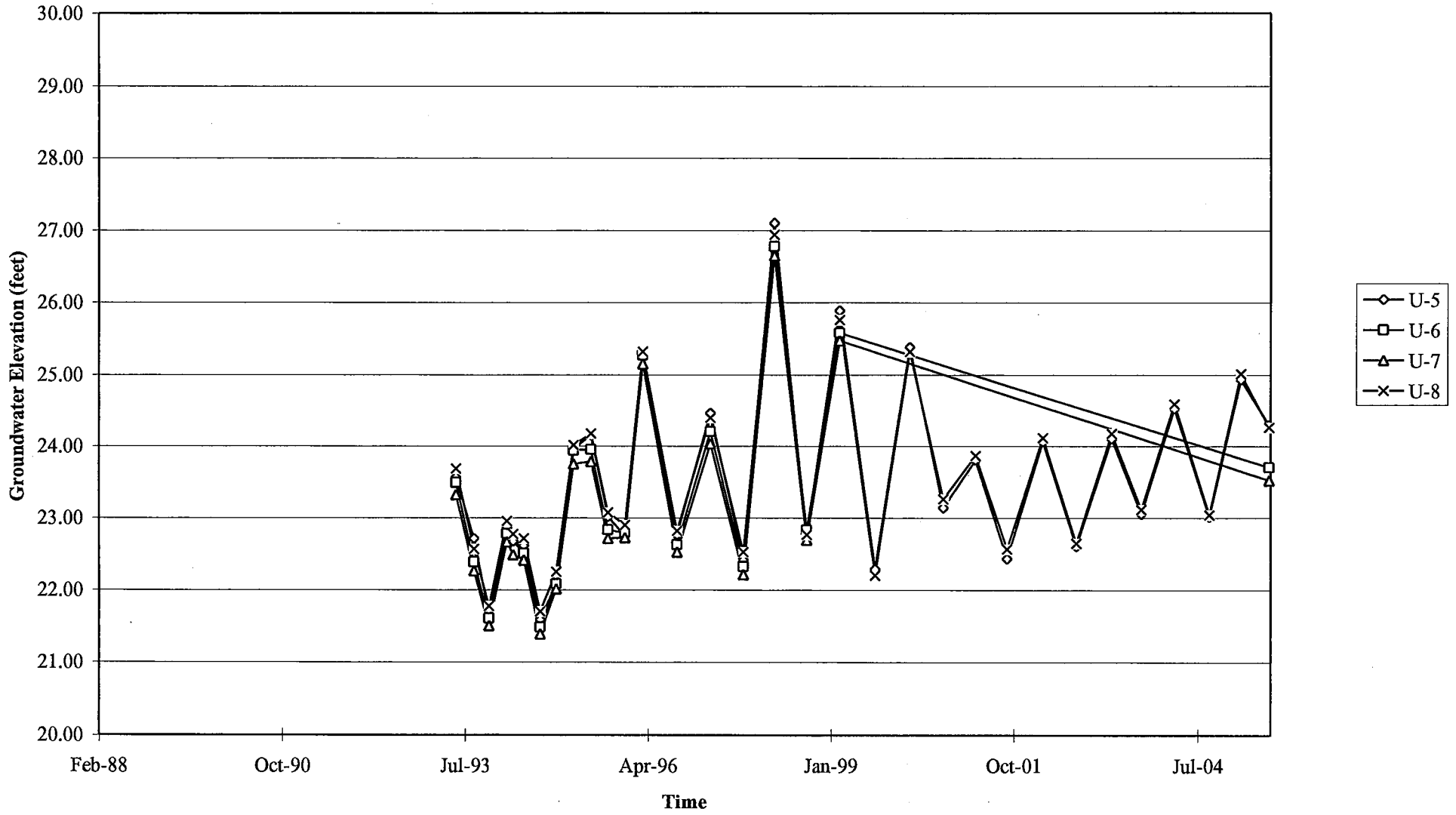
PS=1:1 5760-003

# GRAPHS

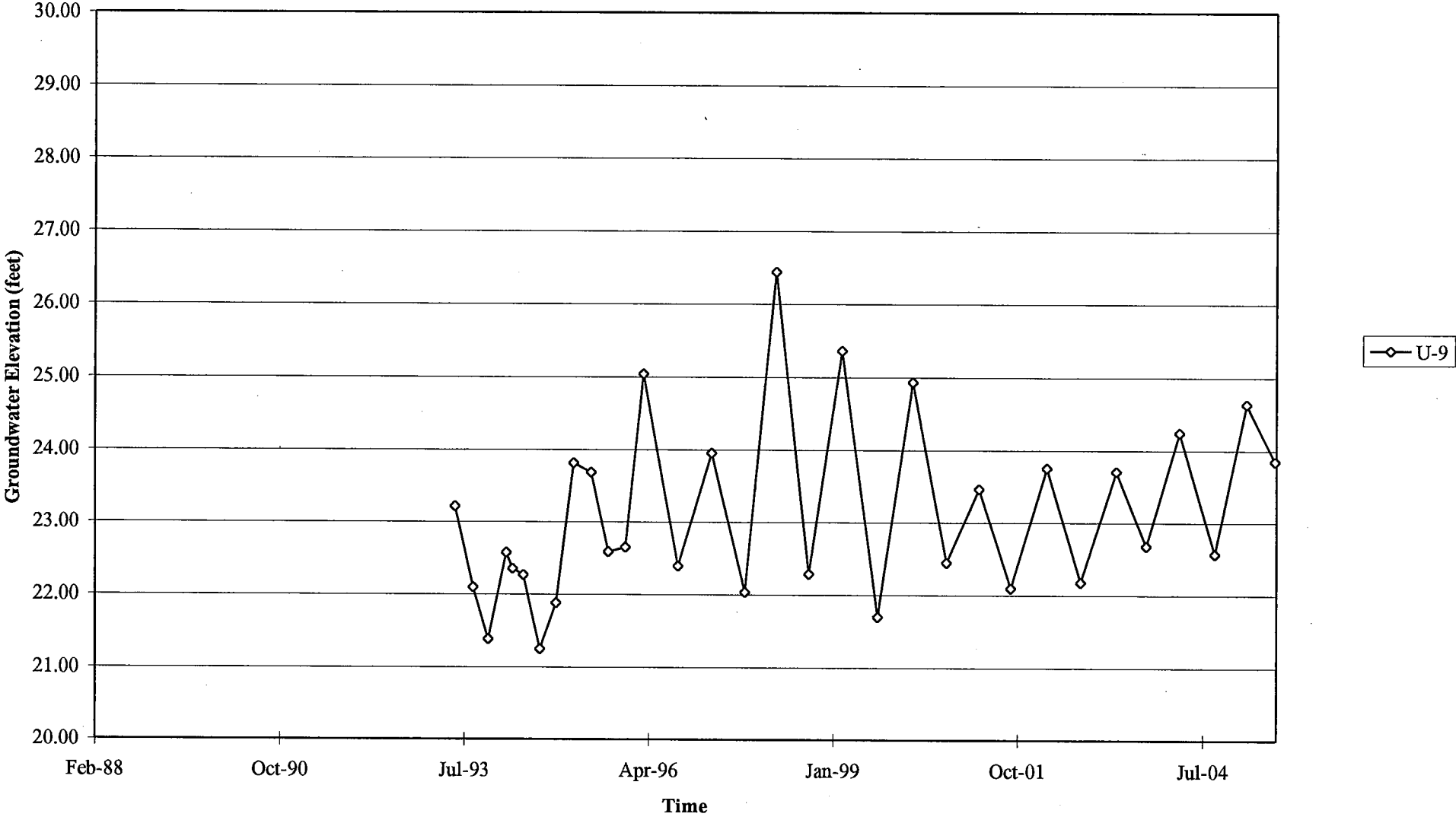
Groundwater Elevations vs. Time  
76 Station 5760



Groundwater Elevations vs. Time  
76 Station 5760

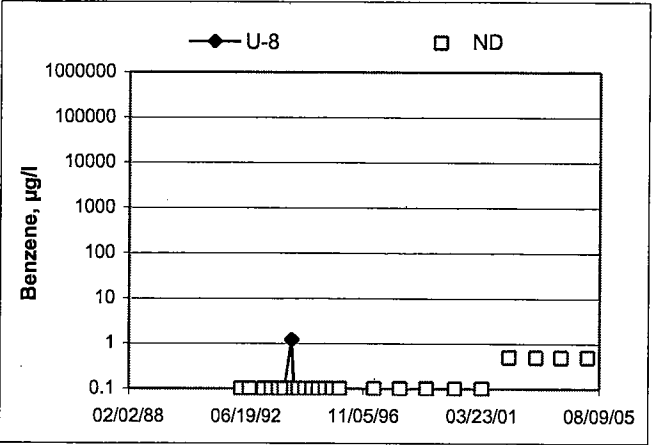
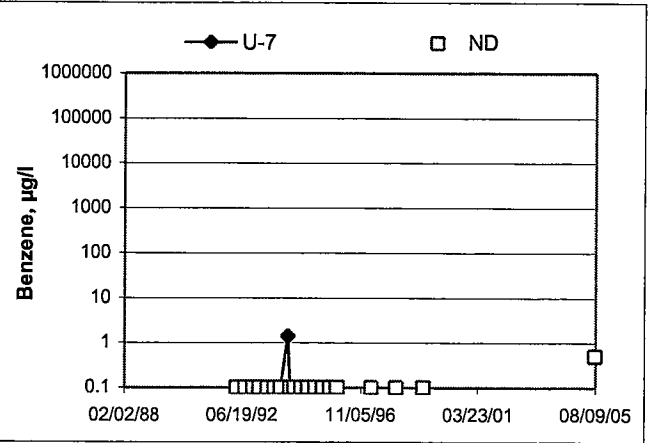
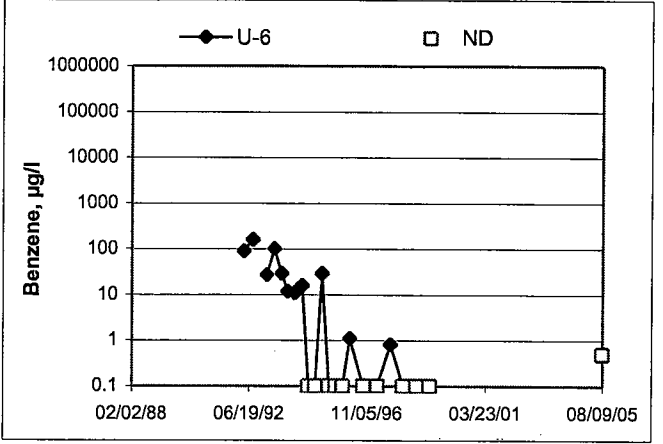
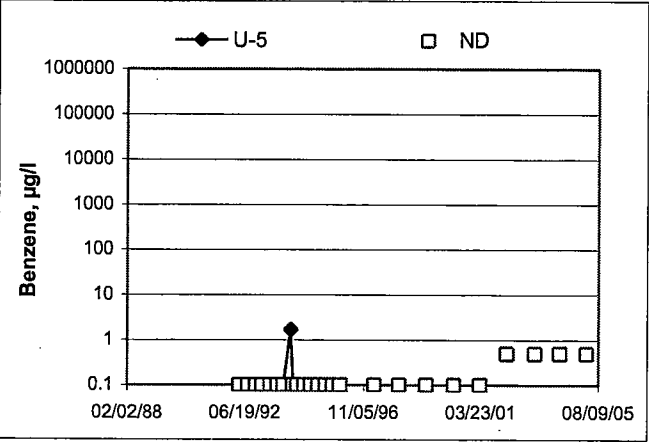
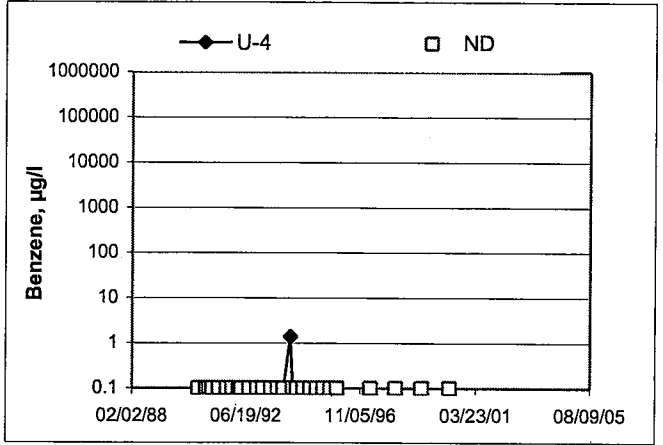
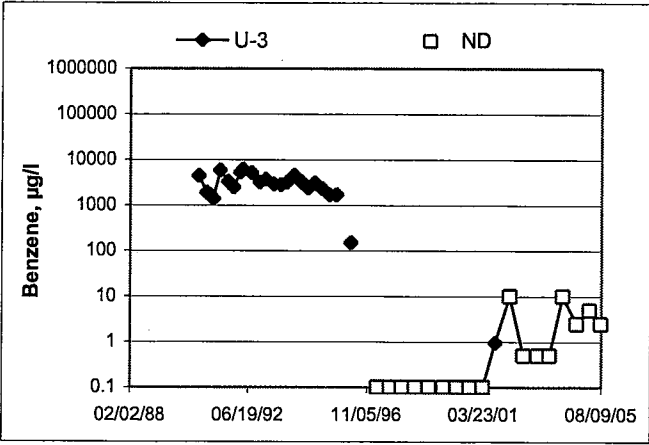
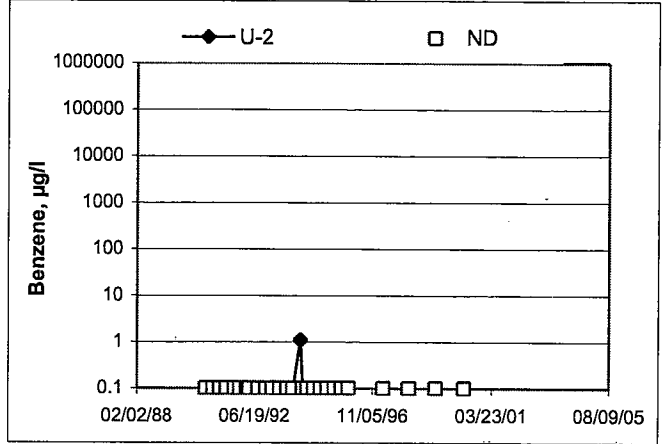
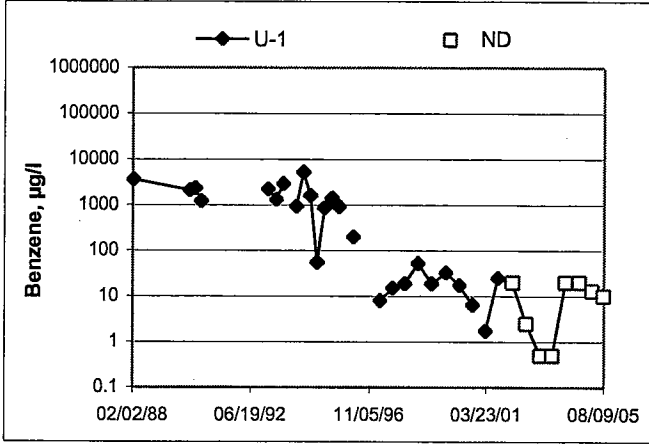


Groundwater Elevations vs. Time  
76 Station 5760

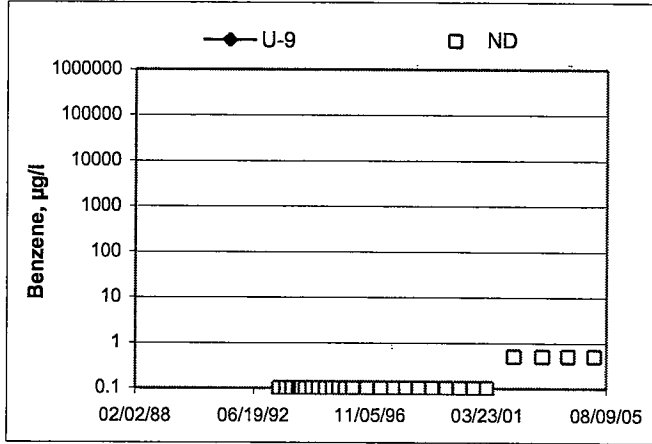




Benzene Concentrations vs Time  
76 Station 5760



**Benzene Concentrations vs Time**  
76 Station 5760



# 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.

# FIELD MONITORING DATA SHEET

Technician: D. [Signature]

Job #/Task #: 405000/FA20

Date: 08/02/05

Site # 5760

Project Manager A. Collins

Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
U-8	0747	✓	29.77	14.31	∅	∅	N/A	2"
U-1	0855		29.12	15.44			0935	3"
U-2	0846		29.89	16.62			N/A	
U-3	0756		24.78	14.93			1208	
U-4	0804		27.88	15.82			N/A	↓
U-5	0811		28.49	15.02			N/A	2"
U-9	0818	↓	28.09	13.47	↓	↓	N/A	↓
U-6								PAVED OVER
U-7								PAVED OVER

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

GROUNDWATER SAMPLING FIELD NOTES

Technician: 1 DAK

Site: S760

Project No.: 4105001/FA20

Date: 11/02/05

Well No.: U-3

Purge Method: DA

Depth to Water (feet): 14.93

Depth to Product (feet): 0

Total Depth (feet): 24.78

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.85

Casing Diameter (Inches): 3"

80% Recharge Depth (feet): 16.90

1 Well Volume (gallons): 4

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0945			4	846	21.6	8.32		
			8	805	20.0	7.37		
	0954		12	830	21.2	8.30		
Static at Time Sampled		Total Gallons Purged		Time Sampled				
14.97		12		1008				
Comments:								

Well No.: U-1

Purge Method: DA

Depth to Water (feet): 15.44

Depth to Product (feet): 0

Total Depth (feet): 29.12

LPH & Water Recovered (gallons): 0

Water Column (feet): 13.68

Casing Diameter (Inches): 3"

80% Recharge Depth (feet): 18.17

1 Well Volume (gallons): 5

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0917			5	857	20.4	7.55		
			10	804	19.4	7.34		
	0929		15	786	20.1	7.91		
Static at Time Sampled		Total Gallons Purged		Time Sampled				
15.45		15		0935				
Comments:								

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 08/02/05 STATION NUMBER: 5760  
NAME OF TECH: B. BARN CALLED GORDON: A. Collins, J. Kerns  
CALLED PM: \_\_\_\_\_ NAME OF PM CALLED: \_\_\_\_\_

WELL NUMBER: U-6 STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_  
Marked for USA AND POTTED  
ON Pavement were Well Box  
IS PAVED OVER

WELL NUMBER: U-7 STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_  
Marked for USA AND POTTED  
ON Pavement were Well Box  
IS PAVED OVER

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

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

# FIELD MONITORING DATA SHEET

Technician: *R. AS1*

Job #/Task #: *405000 / F120*

Date: *09/08/05*

Site # *5760*

Project Manager *A. Collins*

Page *1* of *1*

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
<i>U-6</i>	<i>1235</i>	<i>✓</i>	<i>28.26</i>	<i>13.98</i>	<i>φ</i>	<i>φ</i>	<i>1310</i>	<i>2"</i>
<i>U-7</i>	<i>1245</i>	<i>✓</i>	<i>34.93</i>	<i>13.59</i>	<i>✓</i>	<i>✓</i>	<i>1326</i>	<i>✓</i>

FIELD DATA COMPLETE <i>✓</i>	QA/QC <i>✓</i>	CQC <i>✓</i>	WELL BOX CONDITION SHEETS
WTT CERTIFICATE	MANIFEST	DRUM INVENTORY <i>✓</i>	TRAFFIC CONTROL



GROUNDWATER SAMPLING FIELD NOTES

Technician: SAS

Site: 5760

Project No.: YIAS0001 / FAZ0

Date: 09/08/05

Well No.: U-6

Purge Method: DIA

Depth to Water (feet): 13.98

Depth to Product (feet): 0

Total Depth (feet): 28.26

LPH & Water Recovered (gallons): 0

Water Column (feet): 14.28

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.83

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.
1255			2	617	28.7	7.66		
			4	676	25.2	7.89		
	1303		6	667	24.4	8.02		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
1403		6			1310			
Comments: <u>Water Was Clear During ALL THREE Well Volumes</u>								

Well No.: U-7

Purge Method: DIA

Depth to Water (feet): 13.59

Depth to Product (feet): 0

Total Depth (feet): 34.83

LPH & Water Recovered (gallons): 0

Water Column (feet): 21.24

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.84

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1316			3	589	20.6	7.6		
			6	596	19.1	7.07		
	1322		9	597	19.6	7.79		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
1363		9			1326			
Comments: <u>Water Was Clear During ALL THREE Well Volumes</u>								

TRC Alton Geoscience- Irvine

August 22, 2005

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips # 5760

Site: 376 Lewelling Blvd. San Lorenzo, CA

Attached is our report for your samples received on 08/03/2005 13:00

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/17/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

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

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
U-1	08/02/2005 09:35	Water	1
U-3	08/02/2005 10:08	Water	2

Severn Trent Laboratories, Inc.

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

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08/22/2005 16:10

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

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Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	U-1	Lab ID:	2005-08-0114 - 1
Sampled:	08/02/2005 09:35	Extracted:	8/14/2005 01:03
Matrix:	Water	QC Batch#:	2005/08/13-2C.65
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	11000	1000	ug/L	20.00	08/14/2005 01:03	
Benzene	ND	10	ug/L	20.00	08/14/2005 01:03	
Toluene	ND	10	ug/L	20.00	08/14/2005 01:03	
Ethylbenzene	780	10	ug/L	20.00	08/14/2005 01:03	
Total xylenes	2600	20	ug/L	20.00	08/14/2005 01:03	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	08/14/2005 01:03	
Ethanol	ND	1000	ug/L	20.00	08/14/2005 01:03	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.3	73-130	%	20.00	08/14/2005 01:03	
Toluene-d8	93.8	81-114	%	20.00	08/14/2005 01:03	

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

TRC Alton Geoscience- Irvine

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Irvine, CA 92718

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Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: U-3	Lab ID: 2005-08-0114 - 2
Sampled: 08/02/2005 10:08	Extracted: 8/14/2005 01:29
Matrix: Water	QC Batch#: 2005/08/13-2C.65
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	6300	250	ug/L	5.00	08/14/2005 01:29	
Benzene	ND	2.5	ug/L	5.00	08/14/2005 01:29	
Toluene	ND	2.5	ug/L	5.00	08/14/2005 01:29	
Ethylbenzene	320	2.5	ug/L	5.00	08/14/2005 01:29	
Total xylenes	970	5.0	ug/L	5.00	08/14/2005 01:29	
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	08/14/2005 01:29	
Ethanol	ND	250	ug/L	5.00	08/14/2005 01:29	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.5	73-130	%	5.00	08/14/2005 01:29	
Toluene-d8	92.2	81-114	%	5.00	08/14/2005 01:29	

Severn Trent Laboratories, Inc.

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08/22/2005 16:10

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

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
MB: 2005/08/13-2C.65-050			QC Batch # 2005/08/13-2C.65		
			Date Extracted: 08/13/2005 18:50		
Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	08/13/2005 18:50	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/13/2005 18:50	
Benzene	ND	0.5	ug/L	08/13/2005 18:50	
Toluene	ND	0.5	ug/L	08/13/2005 18:50	
Ethylbenzene	ND	0.5	ug/L	08/13/2005 18:50	
Total xylenes	ND	1.0	ug/L	08/13/2005 18:50	
Ethanol	ND	50	ug/L	08/13/2005 18:50	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.6	73-130	%	08/13/2005 18:50	
Toluene-d8	95.4	81-114	%	08/13/2005 18:50	

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

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/08/13-2C.65			
LCS	2005/08/13-2C.65-024		Extracted: 08/13/2005			Analyzed: 08/13/2005 18:24			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.9		25	91.6			65-165	20		
Benzene	23.8		25	95.2			69-129	20		
Toluene	26.1		25	104.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	432		500	86.4			73-130			
Toluene-d8	484		500	96.8			81-114			

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08/22/2005 16:10

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

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Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2005/08/13-2C.65</b>
<b>MS/MSD</b>		Lab ID:	2005-08-0141 - 001
MS:	2005/08/13-2C.65-045	Extracted:	08/13/2005
		Analyzed:	08/13/2005 20:45
		Dilution:	1.00
MSD:	2005/08/13-2C.65-011	Extracted:	08/13/2005
		Analyzed:	08/13/2005 21:11
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	53.3	55.1	34.1	25	76.8	84.0	9.0	65-165	20		
Benzene	21.4	19.6	ND	25	85.6	78.4	8.8	69-129	20		
Toluene	23.6	22.1	ND	25	94.4	88.4	6.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	453	466		500	90.7	93.3		73-130			
Toluene-d8	484	471		500	96.7	94.2		81-114			

Severn Trent Laboratories, Inc.

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08/22/2005 16:10



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

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 5760

Received: 08/03/2005 13:00

Site: 376 Lewelling Blvd. San Lorenzo, CA

**Legend and Notes**

**Analysis Flag**

L2

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

STL-San Francisco

# ConocoPhillips Chain Of Custody Record

117250

1220 Quarry Lane  
Pleasanton, CA 94566

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

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

**0114**  
**2005-08-0114**

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

ConocoPhillips Work Order Number

1468 TRC 501

ConocoPhillips Cost Object

DATE: 08/02/05

PAGE: 1 of 1

SAMPLER COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 5760	GLOBAL ID NO.:
ADDRESS: 21 Technology Drive, Irvine CA 92618		SITE ADDRESS (Stream and Dry): 376 Leveling Blvd San Lorenzo, CA		CONOCOPHILLIPS SITE MANAGER: T. Thomson
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan		EDF DELIVERABLE TO (If not Designated): Peter Thomson, TRC pthomson@trcsolutions.com		PHONE NO.: 949-341-7400
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: afarfan@trcsolutions.com	E-MAIL: LAB USE ONLY	

SAMPLER NAME(S) (Print): DAST	CONSULTANT PROJECT NUMBER: 41050001/FA20	REQUESTED ANALYSES
----------------------------------	---	--------------------

TURNAROUND TIME (CALENDAR DAYS):  
 14 DAYS  7 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDF IS NEEDED

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHd Extractable	8260B - TPHg/BTEX/TEXMIBE	8260B - TPHg/BTEX/8 Oxygenates	8260B - TPHg/BTEX/8 Oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M/8021B - TPHg/BTEXMIBE	Lead	OTotal	CSTLC	CTCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes  4	TEMPERATURE DATA RECEIPT (°C)	
		DATE	TIME																
	U-1	8/2	0735	Gw	3														3 Vans w/ fuel
	U-3	↓	↓	↓	↓														↓ ↓ ↓

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 08/02/05	Time: 12:00
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 8-3-05	Time: 11:25
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 8-3-05	Time: 1300



**Laboratories, Inc**

Date of Report: 09/28/2005

Anju Farfan

TRC Alton Geoscience

21 Technology Drive  
Irvine, CA 92618-2302

RE: 5760

BC Lab Number: 0508934

Enclosed are the results of analyses for samples received by the laboratory on 09/08/05 21:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa Surratt", written over a horizontal line.

Contact Person: Vanessa Surratt

Client Service Rep

A handwritten signature in black ink, consisting of several loops and strokes, written over a horizontal line.

Authorized Signature



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

**Reported:** 09/28/05 13:24

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Delivery Work Order (LabW):
0508934-01	COC Number:	---		09/08/05 21:15	Global ID: T0600101469
	Project Number:	5760		Sampling Date: 09/08/05 13:10	Matrix: W
	Sampling Location:	U-6		Sample Depth: ---	Sample QC Type (SACode): CS
	Sampling Point:	U-6		Sample Matrix: Water	Cooler ID:
Sampled By:	Basi Foster of TRCI				
0508934-02	COC Number:	---		09/08/05 21:15	Global ID: T0600101469
	Project Number:	5760		Sampling Date: 09/08/05 13:26	Matrix: W
	Sampling Location:	U-7		Sample Depth: ---	Sample QC Type (SACode): CS
	Sampling Point:	U-7		Sample Matrix: Water	Cooler ID:
Sampled By:	Basi Foster of TRCI				



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/28/05 13:24

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0508934-01		Client Sample Name: 5760, U-6, U-6, 9/8/2005 1:10:00PM, Basi Foster											
Constituent	Result	Units	PQL	MDL	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	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
Ethanol	ND	ug/L	1000		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407	ND	
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407		
Toluene-d8 (Surrogate)	94.6	%	88 - 110 (LCL - UCL)		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407		
4-Bromofluorobenzene (Surrogate)	90.3	%	86 - 115 (LCL - UCL)		EPA-8260	09/12/05	09/13/05 19:46	MWB	MS-V9	1	BOI0407		



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/28/05 13:24

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0508934-02		Client Sample Name: 5760, U-7, U-7, 9/8/2005 1:26:00PM, Basi Foster											
Constituent	Result	Units	PQL	MDL	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	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
Toluene	0.89	ug/L	0.50		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
Total Xylenes	1.7	ug/L	1.0		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
Ethanol	ND	ug/L	1000		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407	ND	
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407		
Toluene-d8 (Surrogate)	96.5	%	88 - 110 (LCL - UCL)		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407		
4-Bromofluorobenzene (Surrogate)	89.2	%	86 - 115 (LCL - UCL)		EPA-8260	09/12/05	09/13/05 20:13	MWB	MS-V9	1	BOI0407		



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/28/05 13:24

## Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Benzene	BOI0407	BOI0407-MS1	Matrix Spike	ND	17.440	25.000	ug/L		69.8		70 - 130 Q03
		BOI0407-MSD1	Matrix Spike Duplicate	ND	17.070	25.000	ug/L	2.17	68.3	20	70 - 130 Q03
Toluene	BOI0407	BOI0407-MS1	Matrix Spike	ND	21.520	25.000	ug/L		86.1		70 - 130
		BOI0407-MSD1	Matrix Spike Duplicate	ND	21.760	25.000	ug/L	1.04	87.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BOI0407	BOI0407-MS1	Matrix Spike	ND	10.260	10.000	ug/L		103		76 - 114
		BOI0407-MSD1	Matrix Spike Duplicate	ND	10.190	10.000	ug/L		102		76 - 114
Toluene-d8 (Surrogate)	BOI0407	BOI0407-MS1	Matrix Spike	ND	9.6500	10.000	ug/L		96.5		88 - 110
		BOI0407-MSD1	Matrix Spike Duplicate	ND	9.6100	10.000	ug/L		96.1		88 - 110
4-Bromofluorobenzene (Surrogate)	BOI0407	BOI0407-MS1	Matrix Spike	ND	9.8000	10.000	ug/L		98.0		86 - 115
		BOI0407-MSD1	Matrix Spike Duplicate	ND	9.5600	10.000	ug/L		95.6		86 - 115



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/28/05 13:24

### Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BOI0407	BOI0407-BS1	LCS	17.550	25.000	0.50	ug/L	70.2		70 - 130		
Toluene	BOI0407	BOI0407-BS1	LCS	22.480	25.000	0.50	ug/L	89.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BOI0407	BOI0407-BS1	LCS	10.740	10.000		ug/L	107		76 - 114		
Toluene-d8 (Surrogate)	BOI0407	BOI0407-BS1	LCS	9.7700	10.000		ug/L	97.7		88 - 110		
4-Bromofluorobenzene (Surrogate)	BOI0407	BOI0407-BS1	LCS	10.040	10.000		ug/L	100		86 - 115		





TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/28/05 13:24

## 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	BOI0407	BOI0407-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	BOI0407	BOI0407-BLK1	ND	ug/L	0.50	0.14	
Methyl t-butyl ether	BOI0407	BOI0407-BLK1	ND	ug/L	0.50	0.15	
Toluene	BOI0407	BOI0407-BLK1	ND	ug/L	0.50	0.15	
Total Xylenes	BOI0407	BOI0407-BLK1	ND	ug/L	1.0	0.40	
Ethanol	BOI0407	BOI0407-BLK1	ND	ug/L	1000	110	
Total Purgeable Petroleum Hydrocarbons	BOI0407	BOI0407-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BOI0407	BOI0407-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BOI0407	BOI0407-BLK1	96.6	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BOI0407	BOI0407-BLK1	80.5	%	86 - 115 (LCL - UCL)		S09



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 5760  
Project Number: [none]  
Project Manager: Anju Farfan

**Reported:** 09/28/05 13:24

**Notes and Definitions**

- S09 The surrogate recovery on the sample for this compound was not within the control limits
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- J Estimated value
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Submission #: 05-8934

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  Containers  None  Intact? Yes  No  Intact? Yes  No  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: PLW - Temperature: 4.7 °C Thermometer ID: 48

Emissivity: .97 Container: J05

Date/Time: 9/8/05 Analyst Init: ARM

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various test types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: ARM Date/Time: 9/8/05 DUIS

BC LABORATORIES, INC.

4100 Arden Court □ Bakersfield, CA 93303  
 (661) 327-4911 □ FAX (661) 327-1913

CHAIN OF CUSTODY

# 8934

Analysis Requested

Circle one: Phillips 66 / <u>Unocal</u>		Consultant Firm: TRC		MATRIX (GV)	STEX/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TPH DIESEL by 8015 8260 full list w/ MTBE & oxygenates BTEX/MTBE/OXYS BY 8260B ETHANOL by 8260B TPPH by 8260B BTEX / MTBE by 8260B	Turnaround Time Requested
Address:		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan		Ground-water (G)		
City:		4-digit site#: 5760 Workorder #: 1468 TRC 501		Soil (S)		
State: CA Zip:		Project #: 41050001 / F420 To 6060101469 BF		Waste-water (W)		
Phillips 66 / Unocal Mgr: <u>THOMAS KOSAL</u>		Sampler Name: <u>Rasi</u>		Sludge (SL)		
Lab#	Sample Description	Field Point Name	Date & Time Sampled			
1	U-6	5760 (1310)	09/08/05	GW	X	5TD
2	U-7	↓ ↓ (1326)	↓ ↓	↓	↓	↓

CHK BY	DISTRIBUTION
	SUB-OUT <input type="checkbox"/>

Comments  GLOBAL ID <u>T0600101469</u>	Relinquished by signature 	Received by <u>Ross Decker</u>	Date & Time <u>09/08/05 1505</u>
	Relinquished by signature <u>Ross Decker BC LAB</u>	Received by <u>Chris J. McOff</u>	Date & Time <u>09-8-05, 1755</u>
	Relinquished by signature <u>Chris J. McOff</u>	Received by <u>Andrea R.</u>	Date & Time <u>9/8/05 2115</u>

(G) = ANALYSIS (C) = CONTAINER (P) = PLE

## **STATEMENTS**

### **Purge Water Disposal**

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

### **Limitations**

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