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Alameda County
Environmental Health

March 30, 2012

Ms. Karei Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT
CERTIFICATION
County Case # RO 209
VIP Service
3889 Castro Valley Blvd.
Castro Valley, CA**

Dear Ms. Detterman:

You will find enclosed one copy of the following document prepared by P&D Environmental, Inc.

- Semi-Annual Groundwater Monitoring and Sampling Report (December 1, 2011 Sampling Event) dated March 30, 2012 (document 0047.R50).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned document for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact my consultant Paul King at P&D Environmental, Inc. at (510) 658-6916.

Sincerely,

VIP Service



Lalji Patel

Enclosure

0047.L121

P&D ENVIRONMENTAL, INC.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

(510) 658-6916

March 30, 2012
Report 0047.R50

Mr. L.B. Patel
Mr. P. Gupta
VIP Service
385 Century Circle
Danville, CA 94526

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT
(DECEMBER 1, 2011 SAMPLING EVENT)
County Case # RO 209
VIP Service
3889 Castro Valley Blvd.
Castro Valley, CA

Gentlemen:

P&D Environmental, Inc. (P&D) is pleased to present this report documenting the monitoring of all wells for the site with the exception of OW6 which was inaccessible because of parked cars, and the sampling of wells MW3, EW1, OW1, OW3, OW5 and C3 on December 1, 2011. Monitoring of all accessible wells and sampling of the selected wells in the groundwater monitoring network was performed in accordance with recommendations set forth in P&D's Well Installation Report dated February 22, 2011 (document 0047.R47). Sampling was performed using low flow purge methods. The reporting period is for July through December 2011. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

Wells MW1 through MW3 have historically been sampled in accordance with a letter from the Alameda County Department of Environmental Health (ACDEH) dated March 18, 1994 for the subject site. Based upon a telephone conversation with Mr. Scott Seery of the ACDEH on July 31, 1995, the sampling of monitoring wells MW1 and MW2 was reduced to semi-annually. Based upon subsequent conversations, the sampling and monitoring of well MW3 was also reduced to semi-annually. In addition, it was agreed that no further analysis for Total Petroleum Hydrocarbons as Diesel (TPH-D) was required for well MW3.

In a letter dated July 24, 2009 from the ACDEH Mr. Paresh Khatri requested that P&D review historical groundwater sampling results and identify the quarter during which the highest chemical concentrations typically occur, and based on this evaluation select the appropriate semi-annual monitoring and sampling schedule (first and third quarters, or second and fourth quarters of each year). Based on our evaluation, the highest groundwater concentrations were encountered during the second and fourth quarters. The current monitoring and sampling of wells was performed on December 1, 2011 during the fourth quarter and continues the implementation of second and fourth quarter sampling.

BACKGROUND

It is P&D's understanding that the site was purchased by VIP Service in December 1984. Prior to purchase of the property by VIP Service, the site was operated as a retail gasoline station for an undetermined period of time. The site was operated by VIP Service as a retail gasoline station from the time of purchase until the tanks were removed by Accutite on April 26, 1993. The underground tank system consisted of three 10,000-gallon capacity gasoline tanks, two dispenser islands, and one 550-gallon waste oil tank. It is P&D's understanding that the fuel tanks contained leaded and unleaded gasoline while in use by VIP Service. In addition, VIP Service reported that diesel fuel was not stored at the site at any time.

Documentation of the installation of monitoring wells MW1 through MW3, associated soil boring, and associated sample results are presented in P&D's report 0047.R2 dated January 24, 1994. The locations of the monitoring wells are shown in Figure 2.

In response to a letter dated March 18, 1994 from Mr. Scott Seery of the ACDEH which commented upon the results of the initial groundwater sampling associated with the installation of the monitoring wells at the subject site, a quarterly groundwater monitoring and sampling program was initiated. Based upon subsequent conversations with Mr. Seery, the monitoring and sampling frequency was reduced to semi-annually.

A detailed discussion on the site background, and historical monitoring and sampling, and investigations are provide in P&D's Remedial Investigation and Feasibility Study (RI/FS) Work Plan dated May 17, 2005 (document 0047.W5), and P&D's Groundwater and Soil Gas Subsurface Investigation Report dated October 27, 2009 (document 0047.R42). On December 6 through 9, 2010 P&D oversaw the installation of dual phase extraction wells EW1 through EW3, observation wells OW1 and OW3 through OW6, soil vapor extraction wells C1 through C4, and soil vapor extraction wells F1 through F4 at and near the subject site. The wells were installed in accordance with procedures identified in P&D's Remedial Investigation and Feasibility Study (RI/FS) Work Plan dated May 17, 2005 (document 0047.W5), P&D's Remedial Investigation and Feasibility Study (RI/FS) Work Plan Addendum dated August 13, 2007 (document 0047.W5A), and documents referenced in an ACDEH August 20, 2010 letter approving installation of the wells. New wells EW1 through EW3, OW1 and OW3 through OW6, C1 through C4, and F1 through F4 were installed and surveyed in December 2010. Documentation of the installation of the new wells is provided in P&D's Well Installation Report dated February 22, 2011 (document 0047.R47). Based on the sample results from the initial sampling of the new wells, P&D recommended that semi-annual monitoring of all of the wells be performed and that semi-annual sampling of wells MW3, EW1, OW1, OW3, OW5 and C3 be performed. Additional recommendations related to additional investigation of the extent of petroleum hydrocarbons in soil gas and groundwater and potential vapor intrusion concerns are provided in P&D's February 22, 2011 Groundwater and Soil Gas Subsurface Investigation Report (document 0047.R46).

FIELD ACTIVITIES

On December 1, 2011 P&D personnel monitored groundwater monitoring wells MW1 through MW3, and wells EW1 through EW3, OW1 and OW3 through OW5, C1 through C4, and F1

through F4, located at and near the subject site. Well OW6 could not be monitored because a car was parked on top of the well. On December 1, 2011 wells MW3, EW1, OW1, OW3, OW5 and C3 were sampled by P&D personnel. The locations of the wells are shown in Figure 2.

The wells were monitored for depth to water to the nearest 0.01 foot using an electric water level indicator. The measured depth to groundwater on December 1, 2011 prior to purging wells for sampling ranged from 2.37 to 4.36 feet for wells located on the downgradient offsite property (wells EW1, EW2, OW1, OW3, C1, C2 and C3 at 3945 Castro Valley Boulevard) and ranged from 6.03 to 8.39 feet for wells located on the subject site property (MW1, MW2, MW3, EW3, OW4, OW5, C4, F1, F2 and F3). Well OW6 was inaccessible because of a parked car and was not monitored. Depth-to-water level measurements are presented in Table 1.

Prior to sampling, wells MW3, EW1, OW1, OW3, OW5 and C3 were purged using low flow purge procedures in accordance with U.S. EPA 1996 guidelines. Purging was performed with a peristaltic pump and new polyethylene tubing for a minimum of fifteen minutes at each sampling location. New silicone tubing was used in the pump rollers at each well. The bottom of the tubing was set at a depth of approximately three to six feet below the static water level in the well. Purging was performed at low flow rates of approximately 350 milliliters per minute to minimize turbulence and to minimize the likelihood of sediments in the samples. During purging operations, the field parameters of electrical conductivity, temperature, pH, turbidity, and depth to water were monitored and recorded on a groundwater monitoring/well purging data sheet for each well.

No petroleum hydrocarbon sheen was detected on the water purged from any of the purged wells, and no odor was detected in the water purged from wells MW3 and EW1. A slight hydrocarbon odor was detected on the water purged from well OW1, a moderate hydrocarbon odor was detected on the water purged from well OW3, and a moderate to strong petroleum hydrocarbon odor was detected on the water purged from wells OW5 and C3.

Once the wells had been purged for a minimum of fifteen minutes and the field parameters were observed to have stabilized, water samples were collected directly from the discharge tubing of the pump into 40-milliliter glass Volatile Organic Analysis (VOA) vials which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to ensure that no air bubbles were present.

The VOA vials were labeled and then transferred to a cooler with ice, until they were transported to the laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report. Water purged from the wells during purging operations was stored in a Department of Transportation (DOT) approved 55-gallon drum at the site pending appropriate disposal.

HYDROGEOLOGY

Groundwater level data collected during the monitoring period are presented in Table 1. The calculated groundwater flow direction using water level data from wells MW1, MW2 and MW3 at the site on December 1, 2011 and groundwater surface contours based on the measured depth to water in all of the wells on December 1, 2011 are shown on Figure 2.

Water levels were measured in the wells once during the reporting period prior to purging for sampling, with the exception of OW6 which was inaccessible because of a parked car. The measured depth to groundwater on December 1, 2011 prior to purging wells for sampling ranged from 2.37 to 4.36 feet for wells located on the downgradient offsite property (wells EW1, EW2, OW1, OW3, C1, C2, C3 and F4 at 3945 Castro Valley Boulevard) and ranged from 6.03 to 8.39 feet for wells located on the subject site property (MW1, MW2, MW3, EW3, OW4, OW5, C4, F1, F2 and F3). Depth-to-water level measurements are presented in Table 1.

The three groundwater monitoring wells MW1, MW2 and MW3 were installed in 1993 and were surveyed in 1993 relative to the North American Geodetic Vertical Datum of 1929 (NGVD 29). In February 2011 these three wells were resurveyed relative to the North American Vertical Datum of 1988 (NAVD 88). All of the new wells (EW1 through EW3; OW1, OW3 through OW6; C1 through C4; and F1 through F4) were surveyed in December 2010 relative to NAVD 88. All of the calculated groundwater surface elevations in Table 1 are relative to NAVD 88, and all of the calculated groundwater surface elevations in reports prior to 2011 for the site are relative to NGVD 29.

Based on the water levels measured in wells MW1, MW2 and MW3 on December 1, 2011 the groundwater flow direction was to the west-northwest and the gradient was 0.011. Since the previous monitoring event on June 21, 2011 the groundwater flow direction has shifted slightly south and the gradient has remained the same at 0.011. Based on the measured depth to water in all of the wells, groundwater surface contours were identified as shown on Figure 2.

A retaining wall separates the upslope property at 3889 Castro Valley Boulevard (the subject site) from the 3945 Castro Valley Boulevard property (located immediately downslope from the subject site). The retaining wall increases in height with increasing distance from Castro Valley Boulevard. All of the wells identified as having water levels that are less than 4.00 feet from the top of well (with the exception of C2) are located on the downslope property (3945 Castro Valley Boulevard) with respect to the subject site.

LABORATORY RESULTS

The groundwater samples collected from wells MW3, EW1, OW1, OW3, OW5 and C3 were analyzed at McCampbell Analytical, Inc. in Pittsburg, California for Total Petroleum Hydrocarbons as Gasoline (TPH-G), and methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), using EPA Method 8021B in conjunction with modified EPA Method 8015B. The laboratory analytical results are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

MTBE was not detected in any of the groundwater samples collected from any of the wells, and no analytes were detected in the groundwater samples collected from wells MW3 and EW1. In wells OW1, OW3, OW5, and C3 TPH-G was detected at concentrations of 210, 410, 13,000, and 9,500 ug/L, respectively, and benzene was detected at concentrations of 9.1, 16, 300, and 2,000 ug/L, respectively.

Review of the laboratory analytical report shows that the laboratory described the TPH-G results for the samples collected from wells OW1, OW3, OW5, and C3 as consisting of weakly modified or unmodified gasoline.

DISCUSSION AND RECOMMENDATIONS

The wells were monitored and sampled once during the reporting period. Sampling was performed using U.S. EPA low flow purge methods. Based on water level measurements and samples obtained from the wells, groundwater surface elevation contours are shown in Figure 2, and groundwater TPH-G and benzene concentrations are shown in Figures 3 and 4, respectively. The detected concentrations of TPH-G and benzene associated with the December 1, 2011 sampling event are shown on Figures 3 and 4, and the contours shown on the figures are for the December 1, 2011 sample results. The reduced number of samples collected during the December 1, 2011 is intended to verify the plume perimeter and interior conditions.

Comparison of the June 21, 2011 sample results with the December 1, 2011 sample results (see Table 2) shows that all analytes remained not detected in wells MW3 and EW1 (with the exception of benzene in well MW3, which decreased); and that all detected analyte concentrations either remained unchanged or decreased in all of the wells where samples were collected with the exception of well OW3, where all analyte concentrations increased.

Although the downgradient extent of petroleum hydrocarbons is not fully defined in wells C3 and OW1, historical groundwater grab samples collected from boreholes P29 and P30 show that benzene was not detected at these downgradient locations and that petroleum hydrocarbons were not detected at these locations at concentrations exceeding their respective SFRWQCB May 2008 Table A groundwater ESL values. Similarly, benzene was not detected in historical groundwater grab samples collected from downgradient locations P29, P30 or P32 at concentrations exceeding the SFRWQCB May 2008 Table E-1 (groundwater screening level for evaluation of potential vapor intrusion concerns) ESL value of 540 ug/L for residential land use. Although elevated groundwater grab sample petroleum hydrocarbon concentrations have historically been detected at groundwater grab sample locations downgradient of the wells, groundwater grab samples from boreholes are intended for screening purposes only and may be positively biased from petroleum hydrocarbons adsorbed on sediments in the samples. The groundwater results from wells are considered to be representative of water quality in the vicinity of the site. For these reasons, the extent of petroleum hydrocarbons in groundwater exceeding the SFRWQCB May 2008 Table E-1 residential land use benzene concentration of 540 ug/L has been defined by the wells located at and near the subject site.

The C3 benzene groundwater sample result of 2,000 ug/L exceeds the SFRWQCB May 2008 Table E-1 ESL value of 540 ug/L for residential land use. P&D recommends that the semi-annual monitoring and sampling program be continued, with monitoring of all of the wells, and collection of samples from wells MW3, EW1, OW1, OW3, OW5 and C3 on a semi-annual basis. Continuation of the monitoring and sampling program should be re-evaluated upon regulatory agency review of P&D's May 17, 2005 Remedial Investigation/Feasibility Study Work Plan (document 0047.W5) implementation results. Recommendations related to additional investigation of the extent of petroleum hydrocarbons in soil gas and groundwater and potential vapor intrusion

concerns are provided under separate cover in P&D's February 22, 2011 Groundwater and Soil Gas Subsurface Investigation Report (document 0047.R46).

DISTRIBUTION

Copies of this report will be uploaded to the ACDEH and State Water Resources Control Board GeoTracker databases.

LIMITATIONS

This report was prepared solely for the use of VIP Service. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

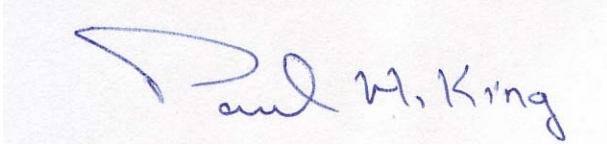
This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

March 30, 2012
Report 0047.R50

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,
P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/13

Attachments:

Table 1 - Summary of Well Monitoring Data
Table 2 - Summary of Groundwater Analytical Results

Figure 1 - Site Location Map
Figure 2 - Site Vicinity Map Detail Showing Groundwater Surface Contours
Figure 3 - Site Vicinity Map Showing TPH-Gasoline Concentrations In Groundwater
Figure 4 - Site Vicinity Map Showing Benzene Concentrations In Groundwater

Groundwater Monitoring/Well Purging Data Sheets
Laboratory Analytical Reports and Chain of Custody Documentation

PHK/sjc
0047.R50

TABLES

SUMMARY OF WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)	Sheen	Odor
MW1	12/1/2011	183.61#	8.39	175.22	Water Level Only	
	6/21/2011		7.87	175.74	Water Level Only	
	12/20/2010		7.27	176.34	None	None
	6/17/2010		7.63	175.98	None	None
	11/25/2009		7.66	175.95	None	None
	2/26/2009		8.64	174.97	None	None
	8/13/2008		9.56	174.05	None	None
	2/19/2008		8.47	175.14	None	None
	8/16/2007		9.01	174.60	None	None
	2/13/2007		6.85	176.76	None	None
	8/9/2006		7.47	176.14	None	None
	1/31/2006		7.53	176.08	None	None
	7/29/2005		7.90	175.71	None	None
	1/31/2005		8.37	175.24	None	None
	7/14/2004		9.47	174.14	None	None
	12/18/2003		9.26	174.35	None	None
	6/19/2003		9.00	174.61	None	None
	12/21/2002		9.09	174.52	None	None
	4/30/2002		9.03	174.58	None	None
	10/16/2001		9.33	174.28	None	None
	11/8/2000		9.04	174.57	None	None
	5/24/2000		7.97	175.64	None	None
	9/10/1999		8.79	174.82	None	None
	2/10/1999		7.72	175.89	None	None
	2/24/1998		6.61	177.00	None	None
	11/18/1997		9.71	173.90	None	None
	8/12/1997		9.39	174.22	None	None
	4/25/1997		8.37	175.24	None	None
	1/31/1997		7.62	175.99	None	None
	7/19/1996		8.81	174.80	None	None
	4/23/1996		8.17	175.44	None	None
	1/17/1996		9.66	173.95	None	None
	10/26/1995		10.00	173.61	None	None
	8/15/1995		9.23	174.38	None	None
	5/2/1995		8.56	175.05	None	None
	1/30/1995		9.50	174.11	None	None
	10/31/1994		11.55	172.06	None	None
	7/29/1994		10.86	172.75	None	None
	4/25/1994		10.70	172.91	None	None
	11/16/1993		11.63	171.98	None	None
	11/12/93*		11.53	172.08	None	None

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

Elevations are in feet above Mean Sea Level (NGVD 1929) prior to December 17, 2010 in all other reports.

(NAVD 1929 top of casing elevation for MW1, MW2, MW3 are 180.83, 179.70, and 178.98 feet, respectively.

ft. = Feet.

* = Depth to water measurements prior to groundwater monitoring well development.

SUMMARY OF WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)	Sheen	Odor
MW2						
	12/1/2011	182.48#	7.97	174.51	Water Level Only	
	6/21/2011		7.25	175.23	Water Level Only	
	12/20/2010		7.10	175.38	None	None
	6/17/2010		7.33	175.15	None	None
	11/25/2009		7.43	175.05	None	None
	2/26/2009		8.00	174.48	None	None
	8/13/2008		9.20	173.28	None	None
	2/19/2008		8.15	174.33	None	None
	8/16/2007		8.45	174.03	None	None
	2/13/2007		7.56	174.92	None	None
	8/9/2006		7.28	175.20	None	None
	1/31/2006		7.10	175.38	None	None
	7/29/2005		7.70	174.78	None	None
	1/31/2005		7.94	174.54	None	None
	7/14/2004		9.14	173.34	None	None
	12/18/2003		8.76	173.72	None	None
	6/19/2003		8.68	173.80	None	None
	12/21/2002		7.95	174.53	None	None
	4/30/2002		8.76	173.72	None	None
	10/16/2001		9.76	172.72	None	None
	11/8/2000		8.63	173.85	None	None
	5/24/2000		7.65	174.83	None	None
	9/10/1999		8.48	174.00	None	None
	2/10/1999		7.05	175.43	None	None
	2/24/1998		6.20	176.28	None	None
	11/18/1997		9.26	173.22	None	None
	8/12/1997		9.06	173.42	None	None
	4/25/1997		8.10	174.38	None	None
	1/31/1997		7.22	175.26	None	None
	7/19/1996		8.57	173.91	None	None
	4/23/1996		7.85	174.63	None	None
	1/17/1996		8.94	173.54	None	None
	10/26/1995		9.68	172.80	None	None
	8/15/1995		8.91	173.57	None	None
	5/2/1995		8.17	174.31	None	None
	1/30/1995		8.68	173.80	None	None
	10/31/1994		10.99	171.49	None	None
	7/29/1994		10.34	172.14	None	None
	4/25/1994		10.04	172.44	None	None
	11/16/1993		11.10	171.38	None	None
	11/12/1993*		10.95	171.53	None	None

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

Elevations are in feet above Mean Sea Level (NGVD 1929) prior to December 17, 2010 in all other reports.

(NAVD 1929 top of casing elevation for MW1, MW2, MW3 are 180.83, 179.70, and 178.98 feet, respectively.

ft. = Feet.

* = Depth to water measurements prior to groundwater monitoring well development.

TABLE 1

SUMMARY OF WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)	Sheen	Odor
MW3						
	12/1/2011	181.72#	7.79	173.93	None	None
	6/21/2011		7.18	174.54	None	None
	12/20/2010		7.07	174.65	None	Slight-Moderate
	6/17/2010		7.28	174.44	None	Slight
	11/25/2009		7.42	174.30	None	Slight-Moderate
	2/26/2009		7.85	173.87	None	Slight-Moderate
	8/13/2008		8.92	172.80	Yes	Moderate
	2/19/2008		7.99	173.73	Yes	Moderate
	8/16/2007		8.41	173.31	No	Slight-Moderate
	2/13/2007		7.21	174.51	Yes	Slight-Moderate
	8/9/2006		7.27	174.45	Yes	Yes
	1/31/2006		7.14	174.58	None	Moderate-Strong
	7/29/2005		7.68	174.04	None	Strong
	1/31/2005		7.86	173.86	None	Moderate
	7/14/2004		8.91	172.81	None	None
	12/18/2003		8.55	173.17	None	Slight
	6/19/2003		8.48	173.24	None	Moderate
	12/21/2002		7.88	173.84	None	Strong
	4/30/2002		8.56	173.16	None	Strong
	10/16/2001		10.14	171.58	Yes	Moderate
	11/8/2000		8.45	173.27	Yes	Moderate
	5/24/2000		7.62	174.10	None	Slight
	9/10/1999		8.34	173.38	None	Slight
	2/10/1999		7.12	174.60	None	Moderate
	2/24/1998		6.55	175.17	Yes	Not Described
	11/18/1997		8.97	172.75	None	None
	8/12/1997		8.85	172.87	None	Strong
	4/25/1997		7.99	173.73	None	None
	1/31/1997		7.30	174.42	None	Not Described
	7/19/1996		8.42	173.30	None	None
	4/23/1996		7.76	173.96	None	Not Described
	1/17/1996		8.61	173.11	None	None
	10/26/1995		9.39	172.33	None	Not Described
	8/15/1995		8.62	173.10	None	None
	5/2/1995		8.04	173.68	Yes	None
	1/30/1995		8.46	173.26	Yes	Not described
	10/31/1994		10.58	171.14	None	None
	7/29/1994		10.03	171.69	None	Yes
	4/25/1994		9.64	172.08	None	None
	11/16/1993		10.63	171.09	None	Not Described
	11/12/93*		10.66	171.06	None	Yes

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).

Elevations are in feet above Mean Sea Level (NGVD 1929) prior to December 17, 2010 in all other reports.

(NAVD 1929 top of casing elevation for MW1, MW2, MW3 are 180.83, 179.70, and 178.98 feet, respectively.

ft. = Feet.

* = Depth to water measurements prior to groundwater monitoring well development.

SUMMARY OF WELL MONITORING DATA

Well No	Date	Top Of Casing Elevation (ft.)**	Depth To Water (ft.)	Water Table Elevation (ft.)	Change in Water Table Elevation (ft.)	Sheen	Odor
EW1	12/1/2011	175.51	2.37	173.14	-0.66	None	No
	6/21/2011		1.71	173.80	-0.12	None	No
	12/20/2010		1.59	173.92	0.51	None	Slight
	12/17/2010*		2.10	173.41			
EW2	12/1/2011	176.65	3.38	173.27	-0.64		Water Level Only
	6/21/2011		2.74	173.91	0.00		Water Level Only
	12/20/2010		2.74	173.91	0.44	None	Very Slight
	12/17/2010*		3.18	173.47			
EW3	12/1/2011	181.02	6.70	174.32	-0.80		Water Level Only
	6/21/2011		5.90	175.12	0.18		Water Level Only
	12/20/2010		6.08	174.94	0.49	None	No
	12/17/2010*		6.57	174.45			
OW1	12/1/2011	174.20	3.06	171.14	-0.10	None	Slight
	6/21/2011		2.96	171.24	-1.08	None	No
	12/20/2010		1.88	172.32	0.82	Yes	Very Slight
	12/17/2010*		2.70	171.50			
OW3	12/1/2011	176.70	3.99	172.71	-0.34	Moderate	No
	6/21/2011		3.65	173.05	-0.19	None	No
	12/20/2010		3.46	173.24	0.59	None	No
	12/17/2010*		4.05	172.65			
OW4	12/1/2011	180.74	6.28	174.46	-0.74		Water Level Only
	6/21/2011		5.54	175.20	0.21		Water Level Only
	12/20/2010		5.75	174.99	0.40	None	Slight
	12/17/2010*		6.15	174.59			
OW5	12/1/2011	180.52	6.45	174.07	-0.66	No	Moderate - Strong
	6/21/2011		5.79	174.73	0.03	No	Moderate - Strong
	12/20/2010		5.82	174.70	0.50	Yes	Moderate - Strong
	12/17/2010*		6.32	174.20			
OW6	12/1/2011	177.02		Car Parked On Top of Well			No Access
	6/21/2011		2.93	174.09	-0.07		Water Level Only
	12/20/2010		2.86	174.16	0.48	Yes	Moderate - Strong
	12/17/2010*		3.34	173.68			
C1	12/1/2011	177.37	3.80	173.57			Water Level Only
	6/21/2011			Car Parked On Top of Well			No Access
	12/20/2010		3.24	174.13	0.37	Yes	Moderate - Strong
	12/17/2010*		3.61	173.76			
C2	12/1/2011	177.72	4.36	173.36	-0.57		Water Level Only
	6/21/2011		3.79	173.93	0.05		Water Level Only
	12/20/2010		3.84	173.88	0.37	Yes	Slight - Moderate
	12/17/2010*		4.21	173.51			
C3	12/1/2011	176.41	3.48	172.93	-0.57	No	Moderate - Strong
	6/21/2011		2.91	173.50	0.11	No	Moderate - Strong
	12/20/2010		3.02	173.39	0.08	None	Very Slight
	12/17/2010*		3.10	173.31			
C4	12/1/2011	180.06	6.03	174.03	-0.66		Water Level Only
	6/21/2011		5.37	174.69	0.04		Water Level Only
	12/20/2010		5.41	174.65	0.49	Yes	Moderate - Strong
	12/17/2010*		5.90	174.16			
F1	12/1/2011	181.35	7.38	173.97	-0.81		Water Level Only
	6/21/2011		6.57	174.78	1.41		Water Level Only
	12/20/2010		7.98	173.37	0.29		Water Level Only
	12/17/2010*		8.27	173.08			
F2	12/1/2011	181.56	7.70	173.86	-0.73		Water Level Only
	6/21/2011		6.97	174.59	0.19		Water Level Only
	12/20/2010		7.16	174.40	0.37		Water Level Only
	12/17/2010*		7.53	174.03			
F3	12/1/2011	180.08	6.11	173.97	-0.69		Water Level Only
	6/21/2011		5.42	174.66	0.03		Water Level Only
	12/20/2010		5.45	174.63	0.50		Water Level Only
	12/17/2010*		5.95	174.13			
F4	12/1/2011	177.14	3.34	173.8			Water Level Only
	6/21/2011			Car Parked On Top of Well			No Access
	12/20/2010		3.26	173.88	-0.98		Water Level Only
	12/17/2010*		2.28	174.86			

NOTES:

Elevations are in feet above Mean Sea Level (NAVD 1988).
 * = Prior to well development.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8260B	EPA Method 8270C
MW1	12/1/2011								Monitored Only; No Sample Collected	
MW2	12/1/2011								Monitored Only; No Sample Collected	
MW3	12/1/2011	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW1	6/21/2011								Monitored Only; No Sample Collected	
MW2	6/21/2011								Monitored Only; No Sample Collected	
MW3	6/21/2011	N/A	ND-50	ND-5.0	3.8	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW1	12/20/2010	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	12/20/2010	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	12/20/2010	N/A	1,000.0	ND-20	370	5.5	28	38	All ND	All ND
MW1	6/17/2010	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	6/17/2010	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	6/17/2010	N/A	1,200	ND-45	350	9.7	31	43	All ND	All ND, except Naphthalene = 15
MW1	11/25/2009	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	11/25/2009	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	11/25/2009	N/A	1,300	ND-20	320	8.4	36	41	All ND	All ND, except Naphthalene = 12
MW1	2/26/2009	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	2/26/2009	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	2/26/2009	N/A	2,400	ND-50	500	14	54	43	All ND	All ND, except Naphthalene = 18
MW1	8/13/2008	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	8/13/2008	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	8/13/2008	N/A	8,700	ND-90	1,000	31	150	280	All ND, except 1,2-DCA = 0.55	All ND, except Naphthalene = 27
MW1	2/19/2008	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	2/19/2008	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	2/19/2008	N/A	4,300	ND-100	310	28	140	250	All ND	All ND, except Naphthalene = 37
MW1	8/16/2007	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	8/16/2007	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	8/16/2007	N/A	4,300	ND-50	760	30	120	210	All ND	All ND, except Naphthalene = 77 Bis(2-ethylhexyl) Phthalate = 34, 2-Methylnaphthalene = 35
MW1	2/13/2007	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	2/13/2007	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	2/13/2007	N/A	4,300	ND-50	610	14	94	130	All ND, except Benzene = 780, Ethylbenzene = 120, Xylenes = 150, Naphthalene = 22, n-Butyl benzene = 28, n-Propyl benzene = 32, 1,2,4-Trimethylbenzene = 92, 1,3,5-Trimethylbenzene = 31	All ND, except Naphthalene = 22
MW1	8/9/2006	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	8/9/2006	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	8/9/2006	N/A	2,900	ND-50	580	21	100	130	All ND	All ND, except Naphthalene = 29, 2-Methylnaphthalene = 11
MW1	1/31/2006	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	1/31/2006	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	1/31/2006	N/A	2,000	ND-15	470	14	71	77	All ND	All ND, except Naphthalene = 15.
MW1	7/29/2005	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	7/29/2005	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	7/29/2005	N/A	11,000	ND-110	2,100	77	350	410	All ND	All ND, except Naphthalene = 68, 2-Methylnaphthalene = 23

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8260B	EPA Method 8270C
MW1	1/31/2005	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	1/31/2005	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	1/31/2005	N/A	2,900	ND-30	960	13	37	89	All ND, except Benzene = 1,600 Toluene = 28, Ethylbenzene = 190 , Xylenes = 140 , Naphthalene = 62 , MTBE = 21 , n-Propyl benzene = 46, 1,2,4-Trimethyl Benzene = 43 Isopropylbenzene = 18	NA, All ND using EPA Method 8270C
MW1	7/14/2004	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	7/14/2004	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	7/14/2004	N/A	4,100	ND-50	380	37	120	150	All ND	NA, All ND using EPA Method 8270C, except Naphthalene = 55 , 2-Methylnaphthalene = 16
MW1	12/18/2003	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	12/18/2003	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	12/18/2003	N/A	9,700	ND<100	2,300	93	280	350	NA, All ND using EPA Method 8021B	NA, All ND using EPA Method 8270C, except Naphthalene = 63 , 2-Methylnaphthalene = 21
MW1	6/19/2003	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	6/19/2003	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	6/19/2003	N/A	16,000, a	ND<250	3,500	110	430	640	NA, All ND using EPA Method 8021B	NA, All ND using EPA Method 8270C, except Naphthalene = 56 , 2-Methylnaphthalene = 27 , Phenol = 24
MW1	12/21/2002	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	12/21/2002	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	12/21/2002	N/A	15,000, a	ND<450	3,200	180	480	1,000	NA, All ND using EPA Method 8021B, except 1,2-DCA = 11	NA, All ND using EPA Method 8270C, except Naphthalene = 35 , 2-Methylnaphthalene = 14
MW1	4/30/2002	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	4/30/2002	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	4/30/2002	N/A	11,000	ND<200	2,200	120	370	590	NA, All ND using EPA Method 8021B	NA, All ND using EPA Method 8270C, except Naphthalene = 33
MW1	10/16/2001	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	10/16/2001	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	10/16/2001	N/A	2,100	ND-20	520	30	77	130	NA, All ND using EPA Method 8016	NA, All ND using EPA Method 8270
MW1	11/8/2000	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	11/8/2000	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	11/8/2000	N/A	540	ND-10	150	6.9	18	29	NA, All ND using EPA Method 8010, except 1,2-DCA = 1.3	NA, All ND using EPA Method 8270
MW1	5/24/2000	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	5/24/2000	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	5/24/2000	N/A	2,100	32	470	27	62	130	NA, All ND using EPA Method 8010, except 1,2-DCA = 1.7	NA, All ND using EPA Method 8270
MW1	9/10/1999	N/A	ND-50	49	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	9/10/1999	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	9/10/1999	N/A	390	ND-10	98	7.3	12	28	NA, All ND using EPA Method 8010, except 1,2-DCA = 2.0	NA, All ND using EPA Method 8270
MW1	2/10/1999	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	2/10/1999	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	2/10/1999	N/A	4,100	ND<220	1,700	96	270	420	NA, All ND using EPA Method 8010, except 1,2-DCA = 2.8	NA, All ND using EPA Method 8270, except Naphthalene = 21
MW1	2/24/1998	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	2/24/1998	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	2/24/1998	N/A	19,000, a	ND<200	4,600	330	650	1,800	NA, All ND using EPA Method 8010, except 1,2-DCA = 11	NA, All ND using EPA Method 8270C, except Naphthalene = 83 , 2-Methylnaphthalene = 19 , Phenol = 23

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8200B	EPA Method 8270C
MW1	11/18/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	11/18/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	11/18/1997	N/A	2,100	ND-35	480	52	71	190	NA, All ND using EPA Method 8010, except 1,2-DCA = 2.1	NA, All ND using EPA Method 8270B, except Naphthalene = 87 2-Methylnaphthalene = 26
MW1	8/12/1997	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	8/12/1997	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	8/12/1997	N/A	16,000	ND-330	4,200	450	540	1,900	NA, All ND using EPA Method 8010, except 1,2-DCA = 9.1	NA, All ND using EPA Method 8270B, except Naphthalene = 66 Bis(2-ethylhexyl) Phthalate = 21 2-Methylnaphthalene = 24
MW1	4/25/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	4/25/1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	4/25/1997	N/A	30,000, a	ND-440	5,300	520	950	3,000	NA, All ND using EPA Method 8010, except 1,2-DCA = 12	NA, All ND using EPA Method 8270A, except Naphthalene = 66 2-Methylnaphthalene = 15 Phenol = 2.8 2,4-Dimethylphenol = 2.8 4-Methylphenol = 2.4
MW1	1/31/1997	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	1/31/1997	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	1/31/1997	N/A	5,500	63	1,600	100	190	410	NA, All ND using EPA Method 8010, except 1,2-DCA = 14	NA, All ND using EPA Method 8270A, except Naphthalene = 31 2-Methylnaphthalene = 4.8 Phenol = 9.4 2,4-Dimethylphenol = 2.8
MW1	7/19/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	7/19/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	7/19/1996	N/A	18,000, b	210	4,800	610	760	2,800	NA, All ND using EPA Method 801E	NA, All ND using EPA Method 8270, except Naphthalene = 100 2-Methylnaphthalene = 23 2,4-Dimethylphenol = 2.2
MW1	4/23/1996	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	4/23/1996	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	4/23/1996	N/A	9,700	150	2,900	170	380	680	NA, All ND using EPA Method 8010, except 1,2-DCA = 5.1	NA, All ND using EPA Method 8270, except Naphthalene = 56 Phenol = 25
MW1	1/17/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	1/17/1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	1/17/1996	N/A	21,000	260	4,100	370	520	1,500	NA, All ND using EPA Method 8010, except 1,2-DCA = 11	NA, All ND using EPA Method 8270, except Naphthalene = 32 Bis(2-ethylhexyl) Phthalate = 4.7 2-Methylnaphthalene = 10 Phenol = 2.2 2,4-Dimethylphenol = 2.9 4-Methylphenol = 5.1
MW1	10/26/1995	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	10/26/1995	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	10/26/1995	N/A	19,000	240	4,000	480	640	1,800	NA, All ND using EPA Method 8010, except 1,2-DCA = 11	NA, All ND using EPA Method 8270, except Naphthalene = 43
MW1	8/15/1995	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW2	8/15/1995	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW3	8/15/1995	N/A	7,000	N/A	2,400	250	260	730	NA, All ND using EPA Method 8010, except 1,2-DCA = 9.1	NA, All ND using EPA Method 8270, except Naphthalene = 19 2-Methylnaphthalene = 3.0 2,4-Dimethylphenol = 3.0 4-Methylphenol = 3.0
MW1	5/2/1995	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	5/2/1995	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	5/2/1995	840, c	18,000	N/A	5,400	390	650	1,700	NA, All ND using EPA Method 8010, except 1,2-DCA = 14	NA, All ND using EPA Method 3510, except Naphthalene = 62 2-Methylnaphthalene = 10
MW1	1/30/1995	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	1/30/1995	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	1/30/1995	700, c	24,000	N/A	7,600	350	900	2,200	NA, All ND using EPA Method 8010, except 1,2-DCA = 18	NA, All ND using EPA Method 3510, except Naphthalene = 118 2-Methylnaphthalene = 14

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample ID	Sampling Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8200B	EPA Method 8270C
MW1	10/31/1994	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	10/31/1994	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	10/31/1994	600, c	8,700	N/A	2,600	260	320	920	NA, All ND using EPA Method 8010, except 1,2-DCA = 19	NA, All ND using EPA Method 3510, except Naphthalene = 47, 2-Methylnaphthalene = 8
MW1	7/29/1994	N/A	ND-50	N/A	1.2	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	7/29/1994	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	7/29/1994	670, c	6,300	N/A	2,000	130	220	520	NA, All ND using EPA Method 8010, except 1,2-DCA = 17	NA, All ND using EPA Method 3510, except Naphthalene = 44, 2-Methylnaphthalene = 8
MW1	4/25/1994	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	4/25/1994	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	4/25/1994	2,100, c	17,000	N/A	4,800	470	290	1,600	NA, All ND using EPA Method 8010, except 1,2-DCA = 280	NA, All ND using EPA Method 8270, except Naphthalene = 84, 2-Methylnaphthalene = 13
MW1	11/16/1993	N/A	ND-50	N/A	2.2	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW2	11/16/1993	N/A	ND-50	N/A	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
MW3	11/16/1993	N/A	12,000	N/A	3,300	660	240	1,600	NA, All ND using EPA Method 8010, except 1,2-DCA = 37	NA, All ND using EPA Method 635, except Naphthalene = 42, 2-Methylnaphthalene = 15, 2,4-Dimethylphenol = 7.0, Phenol = 9.0, 4-Methylphenol = 5.0, 2-Methylphenol = 6.0, Benzyl alcohol = 6.0
EW1	12/1/2011	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
	6/21/2011	N/A	ND-50	ND-5.0	ND-0.5	ND-0.5	ND-0.5	ND-0.5	N/A	N/A
	12/20/2010	N/A	3,900, a	ND-90	770	58	220	440	N/A	N/A
EW2	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	99	ND-5.0	6.5	1.2	4.8	4.0	N/A	N/A
EW3	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	2,300	ND-50	190	15	31	72	N/A	N/A
OW1	12/1/2011	N/A	210	ND-5.0	9.1	2.4	11	ND-0.5	N/A	N/A
	6/21/2011	N/A	600	ND-10	50	2.4	25	7.8	N/A	N/A
	12/20/2010	N/A	450	ND-5.0	17	5.6	6.2	29	N/A	N/A
OW3	12/1/2011	N/A	410	ND-5.0	16	4.5	4.9	10	N/A	N/A
	6/21/2011	N/A	ND-30	ND-3.0	1.2	ND-0.5	0.82	ND-0.5	N/A	N/A
	12/20/2010	N/A	200, a	ND-5.0	2.1	7.7	5.7	35	N/A	N/A
OW4	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	1,700, b,c	ND-5.0	ND-0.5	8.2	60	170	N/A	N/A
OW5	12/1/2011	N/A	13,000	ND-130	300	150	720	3,500	N/A	N/A
	6/21/2011	N/A	16,000	ND-100	350	150	840	2,900	N/A	N/A
	12/20/2010	N/A	47,000	ND-500	330	300	1,900	8,500	N/A	N/A
OW6	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	18,000, a	ND-250	1,200	450	480	2,700	N/A	N/A
C1	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	45,000	ND-1,100	5,600	1,900	1,600	10,900	N/A	N/A
C2	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	20,000	ND-100	83	190	600	3,800	N/A	N/A
C3	12/1/2011	N/A	9,500	ND-350	2,000	61	410	790	N/A	N/A
	6/21/2011	N/A	11,000	ND-250	2,500	500	580	950	N/A	N/A
	12/20/2010	N/A	1,500	ND-30	300	7.3	47	72	N/A	N/A
C4	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010	N/A	47,000	ND-800	900	480	2,200	10,900	N/A	N/A
F1	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010								Monitored Only; No Sample Collected	
F2	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010								Monitored Only; No Sample Collected	
F3	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010								Monitored Only; No Sample Collected	
F4	12/1/2011								Monitored Only; No Sample Collected	
	6/21/2011								Monitored Only; No Sample Collected	
	12/20/2010								Monitored Only; No Sample Collected	
ESL ₁		100	100	5.0	1.0	40	30	20	1,2-DCA = 0.5, Benzene = 1.0, Toluene = 40, Ethylbenzene = 30, Xylenes = 20, Naphthalene = 17, MTBE = 5.0, n-Butyl benzene = None, n-Propyl benzene = None, 1,2,4-Trimethylbenzene = None, 1,3,5-Trimethylbenzene = None, Isopropylbenzene = None	Naphthalene = 17, 2-Methylnaphthalene = 2.1, 2,4-Dimethylphenol = 100, Phenol = 5.0, Bis(2-ethylhexyl) Phthalate = 4, 4-Methylphenol = None, 2-Methylphenol = None, Benzyl alcohol = None
ESL ₂		Use Soil Gas	Use Soil Gas	24,000	540	380,000	170,000	160,000	1,2-DCA = 200, Benzene = 540, Toluene = 380,000, Ethylbenzene = 170,000, Xylenes = 160,000, Naphthalene = 1,200, MTBE = 24,000, n-Butyl benzene = None, n-Propyl benzene = None, 1,2,4-Trimethylbenzene = None, 1,3,5-Trimethylbenzene = None, Isopropylbenzene = None	Naphthalene = 3,200, 2-Methylnaphthalene = 260,000, 2,4-Dimethylphenol = 2,500,000, Phenol = None, Bis(2-ethylhexyl) Phthalate = None, 4-Methylphenol = None, 2-Methylphenol = None, Benzyl alcohol = None

NOTES:
 TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 MTBE = Methyl-tert-butyl Ether
 ND = Not Detected
 N/A = Not Analyzed
 1,2-DCA = 1,2-Dichloroethane
 a = Laboratory analytical note: lighter than water immiscible sheen/product present.
 b = Laboratory analytical note: consists of aromatic aged diesel or gasoline range compounds
 c = Laboratory analytical note: consists of gasoline range compounds
 ESL₁ = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A - Groundwater Screening Levels, Groundwater is a current or potential source of drinking water
 ESL₂ = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table E-1 - Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns, Residential Land Use
BOLD = Concentration in excess of applicable ESL₁ value.
Underlined = Concentration in excess of applicable ESL₂ value.
 Results are in µg/L (micrograms per liter), unless otherwise indicated.

FIGURES

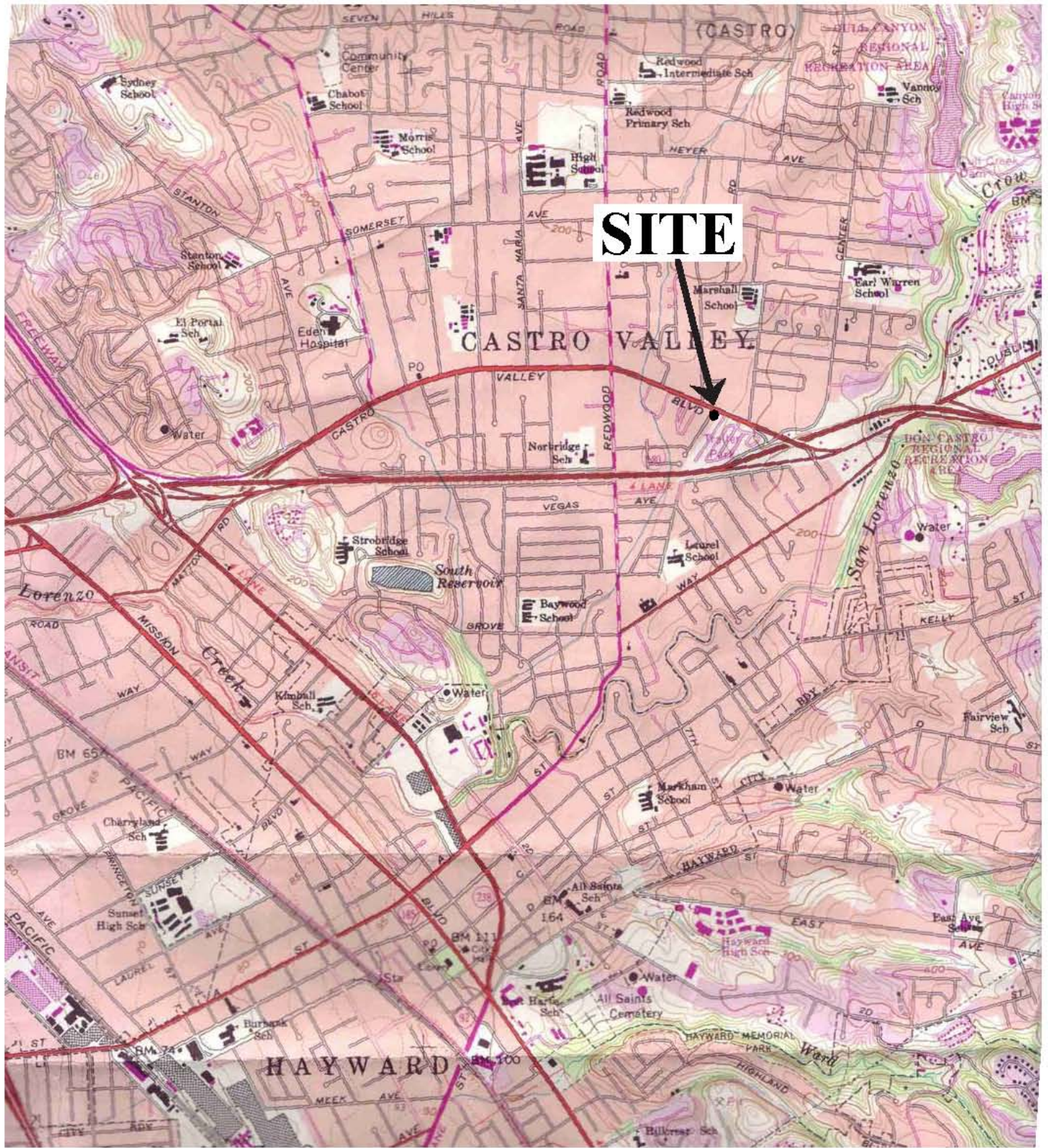
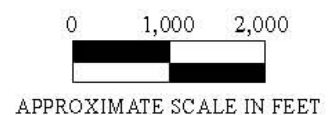


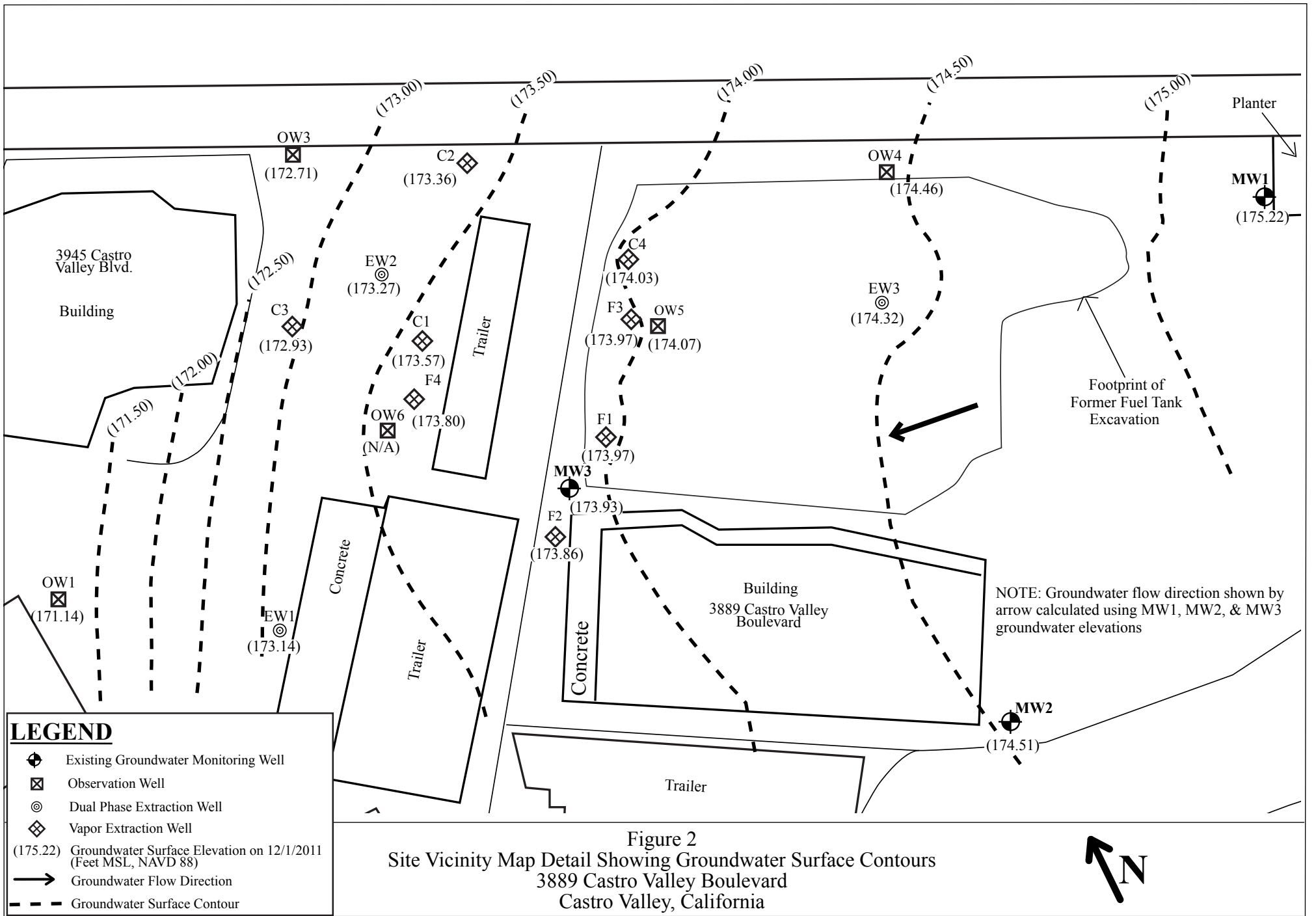
Figure 1
 Site Location Map
 3889 Castro Valley Boulevard
 Castro Valley, California



Base Map From:
 U.S. Geological Survey 7.5 Minute
 Quadrangle Hayward, California
 Topomap Photorevised 1980

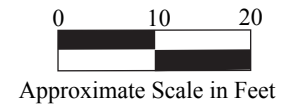
P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610





Base Map from:
 P&D Environmental
 October 1993, January and June 1995, September 2008;
 Kier & Wright Inc. Survey, September 2001;
 and Google Earth, June 2007

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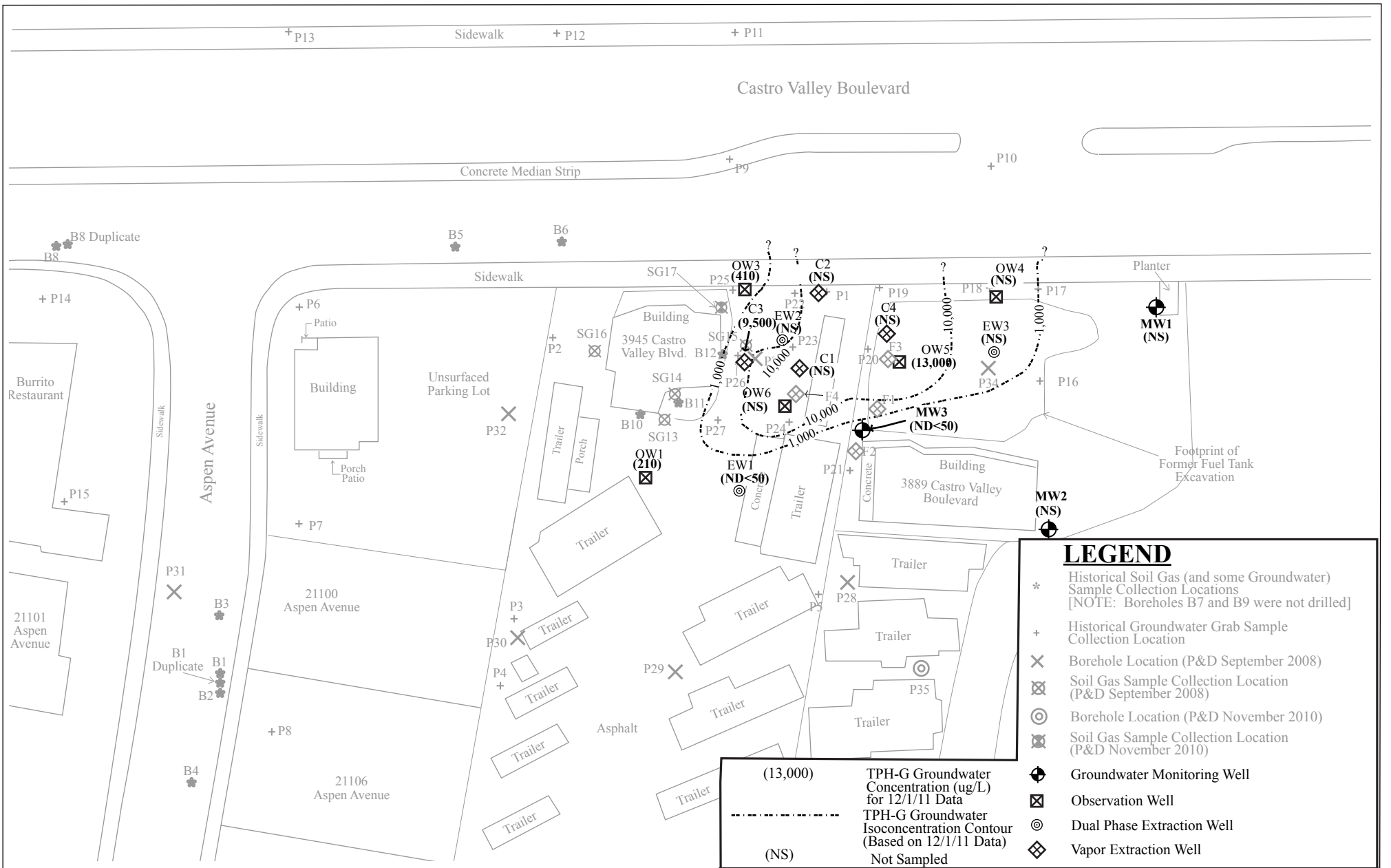
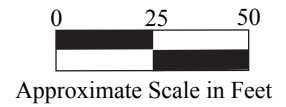


Figure 3
 Site Vicinity Map Showing TPH-Gasoline Concentrations in Groundwater
 3889 Castro Valley Boulevard
 Castro Valley, California



Base Map from:
 P&D Environmental
 October 1993, January and June 1995, September 2008;
 Kier & Wright Inc. Survey, September 2001;
 and Google Earth, June 2007

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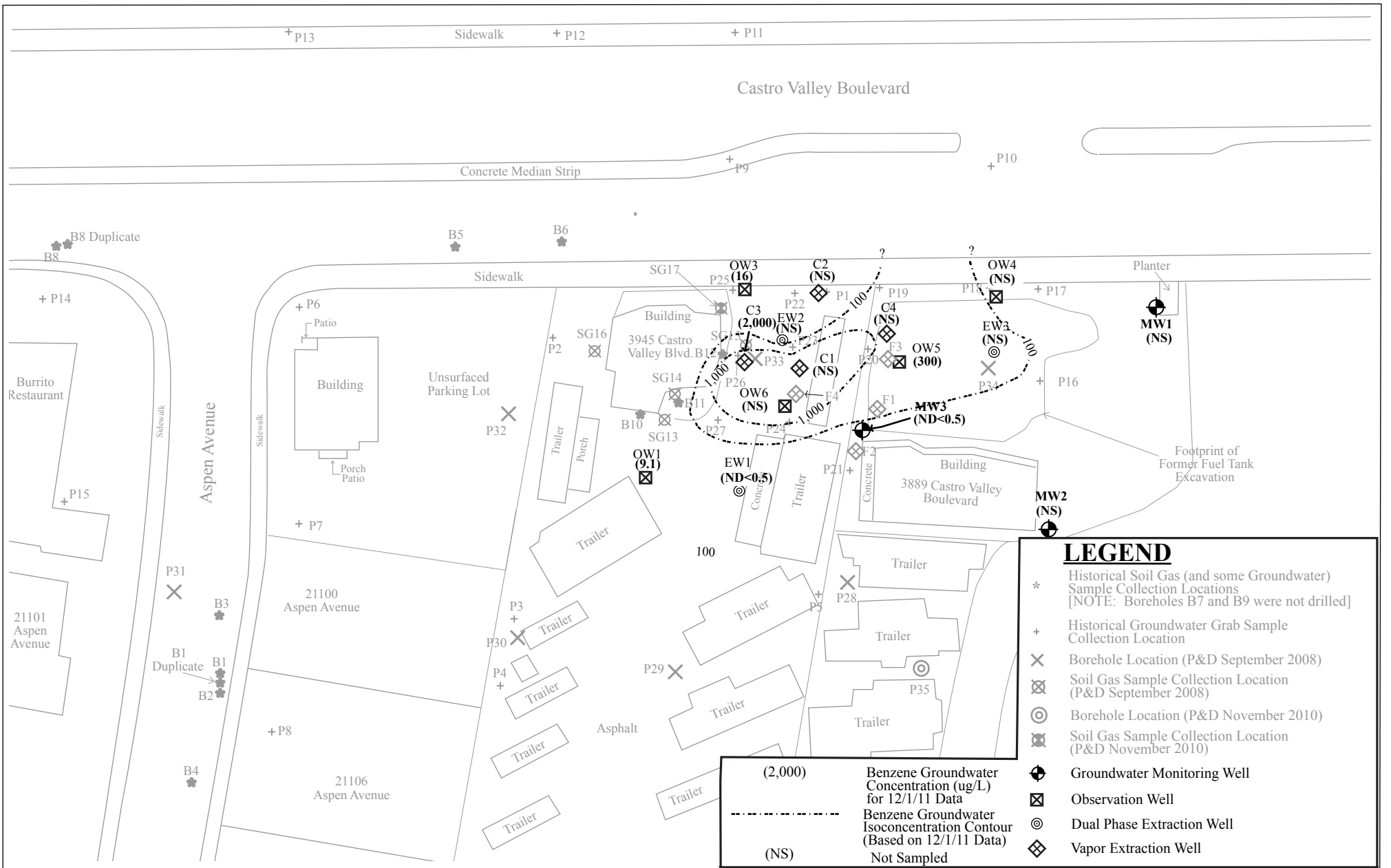
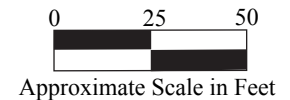


Figure 4
 Site Vicinity Map Showing Benzene Concentrations in Groundwater
 3889 Castro Valley Boulevard
 Castro Valley, California



Base Map from:
 P&D Environmental
 October 1993, January and June 1995, September 2008;
 Kier & Wright Inc. Survey, September 2001;
 and Google Earth, June 2007

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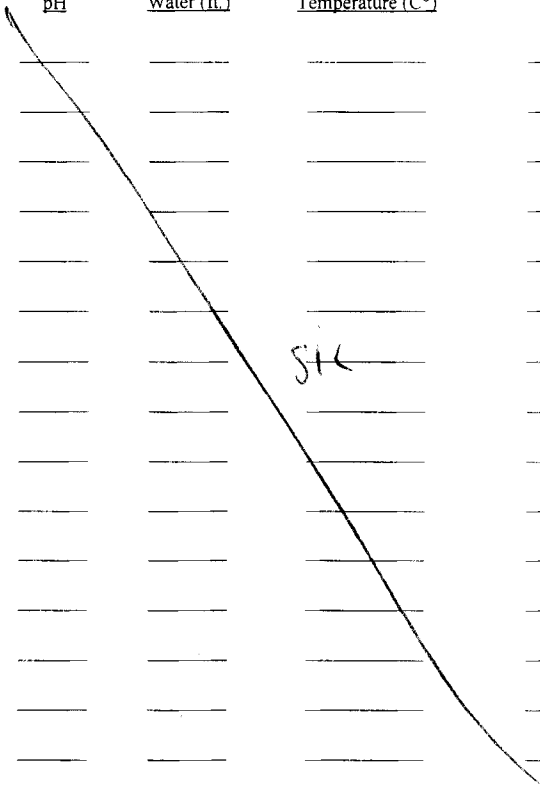
**GROUNDWATER MONITORING /WELL
PURGING DATA SHEETS**

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 8.39
 Well Depth (ft.) 20.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. MW1
 Date 12/1/11
 Sheen N/A
 Free Product Thickness Ø
 Sample Collection Method Monitored Only; No Sample Collected

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)



NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/-3%
 Turbidity = +/- 10%

monitored only; No sample collected.

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 7.97
 Well Depth (ft.) 20.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. MW2
 Date 12/1/11
 Sheen N/A
 Free Product Thickness ∅
 Sample Collection Method Monitored Only; No sample collected

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)

NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/-3%
 Turbidity = +/- 10%

Monitored only; No sample collected

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VLP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 7.79
Well Depth (ft.) 20.0
Well Diameter 2"
Flow Rate (mL/minute) 350
Start Purge Time 1600

Well No. MW3
Date 12/1/2011
Sheen NONE
Free Product Thickness Ø
Sample Collection Method Peristaltic Pump & DEDICATED P.TUBING

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)
1601	350	6.77	7.96	18.8	1,278	1.09
1604	1,400	6.77	8.01	18.7	1,274	0.00
1607	2,450	6.74	8.05	18.7	1,269	0.00
1610	3,500	6.77	8.08	18.8	1,281	0.00
1613	4,550	6.73	8.09	18.9	1,280	0.00
1616	5,600	6.75	8.10	18.9	1,274	0.00
1618	6,300	END PURGE				

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

MW3 COLLECTED AT 1625 NO ODOR OR SHEEN.
INLET TO TUBING SET AT APPROX. 11 FEET BELOW TOP OF CASING

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 2.37
Well Depth (ft.) 20.0
Well Diameter 4"
Flow Rate (mL/minute) 350
Start Purge Time 1523

Well No. EW1
Date 12/1/11
Sheen NONE
Free Product Thickness Ø
Sample Collection Method Peristaltic
pump + NEW PE TUBING

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)
1524	350	8.36	2.52	19.0	674	1.18
1527	1,400	8.23	2.81	18.4	622	4.26
1531	2,800	8.19	3.34	18.5	627	6.64
1534	3,850	8.16	3.74	18.3	630	4.94
1537	4,900	8.17	4.04	18.3	631	10.80
1540	5,950	END PURGE				

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

EW1 COLLECTED AT 1545 NO ODNR OR SHEEN
INLET TO TUBING SET AT APPROX. 7 FEET BELOW TOP OF CASING

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley

Well No. EW2

Job Number 0047

Date 12/1/11

TOC to Water (ft.) 3.38

Sheen N/A

Well Depth (ft.) 25.0

Free Product Thickness ∅

Well Diameter 4"

Sample Collection Method _____

Flow Rate (mL/minute) N/A

Monitored only; No sample collected

Start Purge Time N/A

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>

512

NOTES
Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/- 3%
 Turbidity = +/- 10%

Monitored only; No sample collected.

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 6.70
 Well Depth (ft.) 23.0
 Well Diameter 4"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. EW3
 Date 12/1/11
 Sheen N/A
 Free Product Thickness Ø
 Sample Collection Method Monitored Only; No sample collected

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)

SIC

NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/- 3%
 Turbidity = +/- 10%

Monitored only; no sample collected.

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VHS Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 3.06
Well Depth (ft.) 20.0
Well Diameter 2"
Flow Rate (mL/minute) 350
Start Purge Time 1412

Well No. OW1
Date 12/1/11
Sheen NONE
Free Product Thickness 0
Sample Collection Method Peristaltic
pumps DEDICATED PE TUBING

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (uS/cm)	Turbidity (NTU)
1413	350	7.06	3.70	19.2	1,624	15.58
1416	1,400	6.98	4.35	18.8	1,600	12.21
1419	2,450	6.95	4.98	18.6	1,586	11.11
1423	3,850	6.92	5.10	18.1	1,445	8.47
1427	5,250	6.88	5.78	18.7	1,490	6.60
1428	5,600	END PURGE				

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

OW1 COLLECTED @ 1435 SLIGHT ODOR, NO SHEEN
INLET TO TUBING SET AT APPROX. 5 FEET BELOW TOP OF CASING

1

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 3.99
Well Depth (ft.) 20.0
Well Diameter 2"
Flow Rate (mL/minute) 350
Start Purge Time 1340

Well No. OW3
Date 12/1/11
Sheen NONE
Free Product Thickness Ø
Sample Collection Method Peristaltic Pump & NEW PETUBING

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)
1341	350	6.92	4.51	20.6	1,459	3.85
1344	1,400	6.62	4.80	19.5	1,425	2.75
1347	2,450	6.78	5.05	19.3	1,419	1.23
1350	3,500	6.82	5.35	19.5	1,423	1.31
1353	4,550	6.78	5.56	19.6	1,417	1.33
1355	5,250	END PURGE				

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

OW3 SAMPLE COLLECTED AT 1405 MODERATE ODOR, NO SHEEN
INLET TO TUBING SET AT APPROX. 10 FEET BELOW TOP OF CASING.

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIL Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 6.28
 Well Depth (ft.) 20.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. 0W4
 Date 12/1/11
 Sheen N/A
 Free Product Thickness Ø
 Sample Collection Method Monitored only; No sample collected.

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>

Diagonal line with handwritten 'sic' in the center.

NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/- 3%
 Turbidity = +/- 10%

Monitored only; No sample collected.

6

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 6.45
Well Depth (ft.) 20.0
Well Diameter 2"
Flow Rate (mL/minute) 350
Start Purge Time 1637

Well No. OW5
Date 12/1/11
Sheen NONE
Free Product Thickness 0
Sample Collection Method Resistivity
Pump

Time	Vol. Purged (ml.)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)
1638	350	6.79	6.60	19.8	1,343	6.13
1641	1,400	6.76	6.67	20.6	1,336	8.03
1644	2,100	6.74	6.68	20.6	1,350	4.39
1647	3,500	6.69	6.72	20.9	1,359	4.71
1650	4,550	6.66	6.75	20.9	1,348	5.03
1652	5,250	END PURGE				

NOTES

Stability Parameters OW5 COLLECTED AT 1700 MODERATE TO STRONG, NO SHEEN.
p.H. = +/- 0.1
Sp. Conductivity = +/- 3% INLET TO TUBING SET AT APPROX. 11 FEET BELOW TOP OF CASING
Turbidity = +/- 10%

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.)
 Well Depth (ft.) 20.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. OW6
 Date 12/1/11
 Sheen N/A
 Free Product Thickness N/A
 Sample Collection Method

~~SIC Monitoring Only~~
Inaccessible; Car parked on top of well

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (uS/cm)	Turbidity (NTU)

SIC

NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/-3%
 Turbidity = +/- 10%

*Inaccessible; ~~well~~ ^{SIC}
 Car parked on top of well.*

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 3.80
Well Depth (ft.) 13.0
Well Diameter 2"
Flow Rate (mL/minute) N/A
Start Purge Time N/A

Well No. C1
Date 12/1/11
Sheen N/A
Free Product Thickness Ø
Sample Collection Method Monitored Only; No Sample Collected

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (uS/cm)</u>	<u>Turbidity (NTU)</u>

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/-3%
Turbidity = +/- 10%

Monitored only; No sample collected.

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 4.36
 Well Depth (ft.) 13.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. C2
 Date 12/1/11
 Sheen N/A
 Free Product Thickness Ø
 Sample Collection Method Monitored only, No sample collected.

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>

SIC

NOTES
 Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/-3%
 Turbidity = +/- 10%

Monitored only; No sample collected.

4

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 3.48
Well Depth (ft.) 13.0
Well Diameter 2"
Flow Rate (mL/minute) 350
Start Purge Time 1448

Well No. C3
Date 12/1/11
Sheen NONE
Free Product Thickness 0
Sample Collection Method Peristaltic
pump + DEDICATED RETUBING

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)
1449	350	6.68	3.92	21.3	1311	29.43
1452	1,400	6.78	4.83	20.4	872	13.59
1455	2,450	6.73	5.49	19.9	864	7.72
1458	3,500	6.64	5.85	19.7	959	5.74
1503	5,250	6.62	6.18	19.9	1048	7.79
1506	6,300	6.60	6.32	19.7	1091	2.48
1507	6,650	END PURGE				

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/-3%
Turbidity = +/- 10%

C3 COLLECTED AT 1515 MODERATE TO STRONG ODOOR, NO SHEEN
INLET TO TUBING SET AT APPROX. 10 FEET BELOW TOP OF CASING

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 6.03
Well Depth (ft.) 13.0
Well Diameter 2"
Flow Rate (mL/minute) N/A
Start Purge Time N/A

Well No. C4
Date 12/1/11
Sheen N/A
Free Product Thickness Ø
Sample Collection Method Monitored only; No sample collected.

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>

SIC

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

Monitored only; No sample collected

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley

Well No. F1

Job Number 0047

Date 12/1/11

TOC to Water (ft.) 7.38

Sheen N/A

Well Depth (ft.) 9.0

Free Product Thickness Ø

Well Diameter 2"

Sample Collection Method _____

Flow Rate (mL/minute) N/A

Monitored only; No sample collected

Start Purge Time N/A

Time	Vol. Purged (mL)	pH	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm)	Turbidity (NTU)

SIC

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

Monitored only; no sample collected.

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Service, Castro Valley
Job Number 0047
TOC to Water (ft.) 7.70
Well Depth (ft.) 9.0
Well Diameter 2"
Flow Rate (mL/minute) N/A
Start Purge Time N/A

Well No. F2
Date 12/1/11
Sheen N/A
Free Product Thickness Ø
Sample Collection Method Monitored only; No sample collected

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%

Monitored only; No sample collected.

**P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet**

Site Name Former VIP Service, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 6.11
 Well Depth (ft.) 9.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. F3
 Date 12/1/11
 Sheen N/A
 Free Product Thickness 0
 Sample Collection Method Monitored only; No sample collected.

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>

Sic

NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/-3%
 Turbidity = +/- 10%

Monitored only; no sample collected.

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name Former VIP Services, Castro Valley
 Job Number 0047
 TOC to Water (ft.) 3.34
 Well Depth (ft.) 9.0
 Well Diameter 2"
 Flow Rate (mL/minute) N/A
 Start Purge Time N/A

Well No. F4
 Date 12/1/11
 Sheen N/A
 Free Product Thickness Ø
 Sample Collection Method Monitored only; No sample collected.

<u>Time</u>	<u>Vol. Purged (mL)</u>	<u>pH</u>	<u>Depth to Water (ft.)</u>	<u>Temperature (C°)</u>	<u>Electrical Conductivity (µS/cm)</u>	<u>Turbidity (NTU)</u>

SIC

NOTES

Stability Parameters
 p.H. = +/- 0.1
 Sp. Conductivity = +/- 3%
 Turbidity = +/- 10%

Monitored only; No sample collected

**LABORATORY REPORTS
AND CHAIN OF CUSTODY
DOCUMENTATION**



Analytical Report

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service Castro Valley	Date Sampled: 12/01/11
		Date Received: 12/02/11
	Client Contact: Paul King	Date Reported: 12/07/11
	Client P.O.:	Date Completed: 12/06/11

WorkOrder: 1112068

December 07, 2011

Dear Paul:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#0047; VIP Service Castro Valley,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

CHAIN OF CUSTODY RECORD

1112068

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER:

0047

PROJECT NAME:

VIP Service,
Costa Valley

SAMPLED BY: (PRINTED & SIGNATURE)

Steve Carneck

[Signature]

NUMBER OF CONTAINERS

ANALYSIS(ES):

TPH-G + MBTEX by 8021B

PRESERVATIVE

REMARKS

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION
SLATT C3	12/1/11	1515	H ₂ O	
EW1	↓	1545	↓	
MW3	↓	1625	↓	
OW1	↓	1435	↓	
OW3	↓	1405	↓	
OW5	↓	1700	↓	

SLATT C3

12/1/11

1515

H₂O

5

X

ICE Normal Turnover

EW1

1545

5

X

MW3

1625

5

X

OW1

1435

5

X

OW3

1405

5

X

OW5

1700

5

X

ICE/GOOD CONDITION 4.8
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 PRESERVATION: VOAS O&G METALS OTHER

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE

12/3/11

TIME

1545

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment) 6
 Total No. of Containers (This Shipment) 30

LABORATORY:

McCampbell Analytical

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE

12/3/11

TIME

1815

RECEIVED BY: (SIGNATURE)

[Signature]

LABORATORY CONTACT:

Angelabedelius (877) 252-9262

LABORATORY PHONE NUMBER:

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE

TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

All voas preserved w/ HCL.

↓
↓
+
+
+
+
X

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1112068

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Paul King
 P & D Environmental
 55 Santa Clara, Ste.240
 Oakland, CA 94610
 (510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
 cc:
 PO:
 ProjectNo: #0047; VIP Service Castro Valley

Bill to:

Accounts Payable
 P & D Environmental
 55 Santa Clara, Ste.240
 Oakland, CA 94610

Requested TAT: 5 days

Date Received: 12/02/2011

Date Printed: 12/02/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1112068-001	C3	Water	12/1/2011 15:15	<input type="checkbox"/>	A												
1112068-002	EW1	Water	12/1/2011 15:45	<input type="checkbox"/>	A												
1112068-003	MW3	Water	12/1/2011 16:25	<input type="checkbox"/>	A												
1112068-004	OW1	Water	12/1/2011 14:35	<input type="checkbox"/>	A												
1112068-005	OW3	Water	12/1/2011 14:05	<input type="checkbox"/>	A												
1112068-006	OW5	Water	12/1/2011 17:00	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTX_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **12/2/2011 6:53:32 PM**
 Project Name: **#0047; VIP Service Castro Valley** Checklist completed and reviewed by: **Zoraida Cortez**
 WorkOrder N°: **1112068** Matrix: Water Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 4.8°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0047; VIP Service Castro Valley	Date Sampled: 12/01/11
	Client Contact: Paul King	Date Received: 12/02/11
	Client P.O.:	Date Extracted: 12/05/11-12/06/11
		Date Analyzed: 12/05/11-12/06/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1112068

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	C3	W	9500	ND<350	2000	61	410	790	10	107	d1
002A	EW1	W	ND	ND	ND	ND	ND	ND	1	102	
003A	MW3	W	ND	ND	ND	ND	ND	ND	1	103	
004A	OW1	W	210	ND	9.1	2.4	11	ND	1	115	d1
005A	OW3	W	410	ND	16	4.5	4.9	10	1	104	d1
006A	OW5	W	13,000	ND<130	300	150	720	2500	10	117	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
 d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 63168

WorkOrder: 1112068

EPA Method: SW8021B/8015Bm		Extraction: SW5030B							Spiked Sample ID: 1112083-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) £	ND	60	102	102	0	101	98.6	2.50	70 - 130	20	70 - 130	20
MTBE	ND	10	106	108	1.88	100	105	5.12	70 - 130	20	70 - 130	20
Benzene	ND	10	96.4	97	0.609	96.2	96.5	0.404	70 - 130	20	70 - 130	20
Toluene	ND	10	99	99.6	0.605	98.4	99.4	0.966	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	104	104	0	103	106	3.00	70 - 130	20	70 - 130	20
Xylenes	ND	30	107	107	0	106	108	2.11	70 - 130	20	70 - 130	20
%SS:	107	10	90	91	0.858	92	91	1.52	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 63168 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112068-001A	12/01/11 3:15 PM	12/05/11	12/05/11 11:10 PM	1112068-002A	12/01/11 3:45 PM	12/05/11	12/05/11 10:11 PM
1112068-003A	12/01/11 4:25 PM	12/05/11	12/05/11 10:41 PM	1112068-004A	12/01/11 2:35 PM	12/05/11	12/05/11 11:40 PM
1112068-005A	12/01/11 2:05 PM	12/06/11	12/06/11 12:10 AM	1112068-006A	12/01/11 5:00 PM	12/06/11	12/06/11 2:08 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 £ TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.