Bay Consulting Services
P.O. Box 5902
Napa, CA 94581
Phone/Fax: (707) 254-9886

September 22, 2005

Ms. Normita Callison
Corporate Environmental Specialist
Pacific Coast Companies, Inc.
5550 Roseville Road
North Highlands, CA 95660

Re: Groundwater Monitoring Report –Third Quarter 2005
879 Wright Road, N, Santa Rosa, CA
SCDHS-EHD # 0001844

Dear Ms. Callison:

This report presents the results of the groundwater monitoring well sampling activities conducted during the first quarter 2005, at the above-referenced site. This work was conducted on behalf of Pacific Coast Building Products (PCBP) in response to letters from the Sonoma County Department of Environmental Health (SCDEH), dated January 14, 2003 and May 5, 2004. Discussions with Cliff Ives, SCDEH indicated that site closure can not be evaluated until residual source of impact has been removed and the remaining concentrations in the groundwater decrease to reduce potential risk to the existing water supply wells on and off the site. To evaluate the potential existence of residual source that may exist around the former tank excavation, over purging of the existing groundwater wells was conducted. The site background and findings from the work are described below.

SCOPE OF WORK

The scope of work for the investigation was to:

- Purge 10 well volumes from each well,
- Collect and analyze one groundwater sample from each monitoring well on site and from the domestic well (prior to wellhead treatment) for TPHg, BTEX, and selected fuel oxygenates and additives by EPA test method 8260B.
- Calculate the groundwater flow direction and gradient,
- Disposal of waste materials,
- Upload information to Geotracker in accordance with AB2886,
- Prepare this report.

SITE BACKGROUND

The site is utilized as a light industrial/commercial facility for the resale of roofing products as Alcal Santa Rosa, a Division of Alcal Arcade Contracting, Inc. under the parent company, Pacific Coast Companies, Inc. The property is located on the southwest corner of Wright Road and Sebastopol Freeway

(Interstate 12), Santa Rosa, California (Figure 1). Local topography is flat and the Site elevation is approximately 95 feet (ft) above mean sea level. Site facilities include a commercial store, several maintenance building and several warehouses (Figure 2). The property is owned by Pacific Coast Companies, Inc. The surrounding land use is light industrial and commercial.

SITE HISTORY

December 1993 Tank Removal: Two fuel underground storage tanks consisting of 2,000-gallon diesel and 2,000-gallon gasoline were removed in December 1993. Groundwater was encountered during tank removal at 7.5 feet below ground surface (bgs). Approximately 600 gallons of liquid was removed from the excavation and transported to a recycling facility. Laboratory analysis of soil samples collected from the excavation indicated up to 140 parts per million (ppm) of total petroleum hydrocarbons as gasoline (TPHg) and 240 ppm total petroleum hydrocarbons as diesel (TPHd). Laboratory results of one grab water sample collected from the tank excavation reported up to 1,700,000 µg/L TPHd and 150,000 µg/L TPHg.

March 1995 Preliminary Investigation: In 1995, ACC Environmental Consultants (ACC) conducted a preliminary investigation of the open tank excavation. A grab water sample and 10 sidewall soil samples collected from the excavation indicated no detectable concentrations of constituents above laboratory reporting limits. Approximately 10,000 gallons of liquid was removed from the excavation and discharged into the sanitary sewer. The tank excavation was backfilled will clean imported fill material.

July 1995 Well Installation: In July 1995, ACC conducted a subsurface investigation and installed three groundwater monitoring wells (MW-1 through MW-3). Laboratory results of soil collected during drilling indicated up to 14 ppm TPHg and 4.7 ppm TPHd. Periodic groundwater monitoring has been ongoing at the site since 1995. Historically, low to below detectable concentration of TPHg, BTEX, and MtBE were reported in the groundwater in wells MW-1 and MW-2. Laboratory results from MW-3 reported detectable concentrations of constituents. A water supply well located on site has been periodically sampled since 1996. Detectable concentrations were reported in the water supply well in 1999 and 2001.

June 2003, Well Installation: In June 2003, Bay Consulting Services (Bay) conducted a subsurface investigation and installed one additional monitoring well (MW-4). Laboratory results of soil collected during drilling indicated below laboratory detection limits of TPHg and BTEX and 0.1 ppm MtBE.

Groundwater Monitoring: Periodic groundwater monitoring and sampling began in 1995. A summary of the groundwater monitoring data is presented in Table 1. Three monitoring wells (MW-1 through MW-3) were sampled on a quarterly basis in 1995 and two quarters in 1996. In 1996, the sampling frequency was changed to semi-annual. Sampling of the onsite domestic well was included in 1996. Three events (2/1/99, 8/12/99, and 1/26/01) reported detectable concentrations of constituents in the water collected from the onsite water supply well. Groundwater samples have been analyzed for MtBE and fuel oxygenates and additives using EPA Method 8260 during the February and June 2003 sampling events. In

a letter dated May 5, 2004, SCDEH approved a modified sampling program which includes eliminating 1,2-DCA, EDB, TAME, and ETBE from the sampling program. In addition, in May 2004, Cliff Ives verbally approved suspending sampling of wells MW-1 and MW-2 and the post-treatment point in the water supply well until prior to closure. All wells will be sampled prior to closure.

FIRST QUARTER 2005 ACTIVITIES

Monitoring Activities

Field Activities: July 25, 2005, Blaine Tech Services, Inc (Blaine) of San Jose purged approximately 10 well volumes from each well and collected samples from all onsite wells. The July 2005 measurements were utilized to calculate the groundwater flow direction and gradient, presented in Figure 3. Well parameters were monitored during purging and sampling. Field notes of well monitoring are presented in Attachment A. The water levels and analytical data have been submitted to the Geotracker database.

Sample Analyses: Samples were obtained from all four onsite monitoring wells and from the domestic well prior to the treatment system. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), BTEX, oxygenates di-isopropyl ether (DIPE), methyl-tert-butyl ether (MTBE), and tert-butyl alcohol (TBA) by EPA Method 8260B. All analyses were performed by Kiff Analytical of Davis, California. The laboratory reports for groundwater sampling are included in Appendix B.

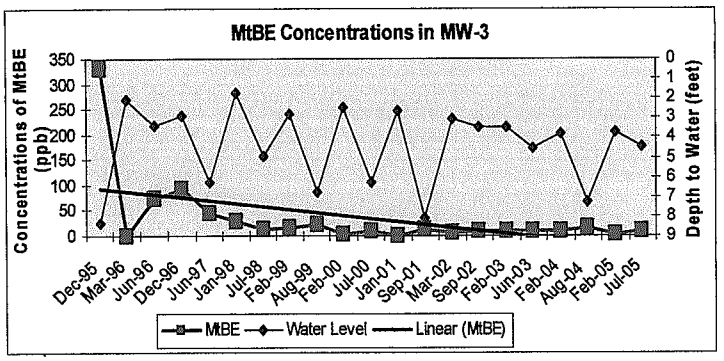
MONITORING RESULTS

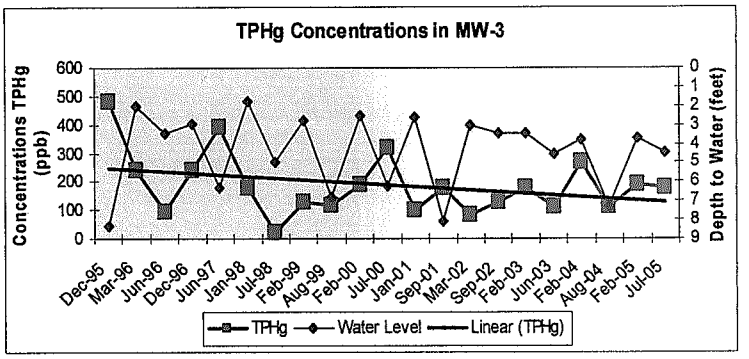
Groundwater Flow Direction: Based on the depth-to-water data collected on July 25, 2005, the groundwater flow direction varies to the South to Southeast with a gradient of 0.01 to 0.002 foot per foot (Figure 3). During this event, groundwater levels were reported between 4.45 to 6.28 feet bgs indicating approximately 0.44 to 0.95 foot decrease of water levels in the monitoring wells and 2.76 feet decrease in in the domestic well from the previous sampling event. The historical groundwater flow direction on site is to the west to north/northwest with isolated periods of south and southeast flow. Groundwater levels are seasonably elevated compared to historical water levels collected during this period. Table 2 presents the historical groundwater flow directions and gradients.

Groundwater Purging. To evaluate is residual groundwater impact exists around the former tank excavation, all four monitoring wells were over purged and approximately 10 well volumes were removed from each well prior to sample collection. Approximately 73.5 gallons of purge water was generated from the efforts and stored on site in labeled drums pending profiling for disposal.

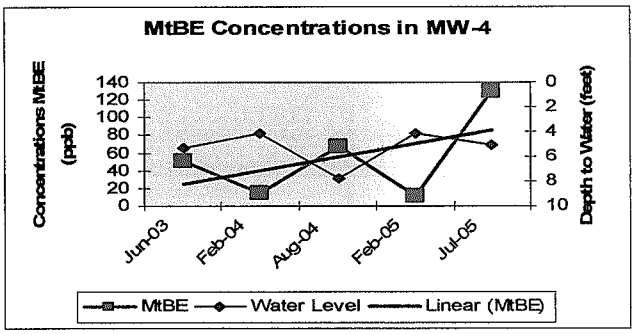
***Hydrocarbon Distribution in Groundwater*:** Below detectable concentrations of all constituents were reported in the sample collected from the domestic well. Below detectable concentrations of TPHg and BTEX were reported in MW1 and MW2. Only low detectable concentrations of MtBE up to 1.5 µg/L were reported in wells MW1 and MW2. Detectable concentrations of TPHg, Benzene, Ethylbenzene, and

MtBE were reported in MW3 at similar concentration as historical events. As illustrated in the below graphs, both TPHg and MtBE concentrations have decreased over time.





Results of the over purging efforts indicted that residual hydrocarbons exist in the groundwater around well MW4, located nearest the former tank excavation; whereas TPHg, MtBE, and TBA concentrations were reported to be the highest after over purging in MW-4. As reported in the adjacent graph, MtBE concentrations in MW-4 have illustrated an increase after overpurging.



Groundwater analytical results are summarized in Table 1, and hydrocarbon and MtBE concentrations are shown on Figure 3.

CONCLUSIONS

Analytical results for this event indicate that constituent concentrations have increased in well MW4 after the over purging event, whereas the concentrations in the surrounding wells, MW1 through MW3 were reported as similar to previous events. The over purging event, although limited, indicated that residual petroleum hydrocarbon may exist around the former tank excavation. No detectable constituents have been reported in the water supply well except for isolated events in 1999 and 2001 for MtBE and TPHg, respectively.

RECOMMENDATIONS

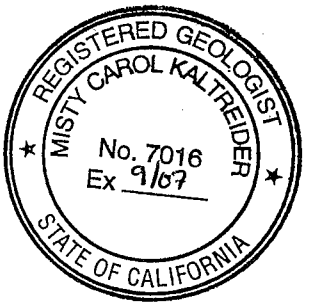
Fluctuations in TPHg and MtBE concentrations observed during seasonal water level changes may be due to residual impact around the former tank excavation. Discussions with Cliff Ives, SCDEH indicated that site closure can not be evaluated until residual source of impact has been removed and the remaining concentrations in the groundwater decrease to reduce potential risk to the existing water supply wells on and off the site. Interim remedial options should be evaluated for cost effective and beneficial approaches to reducing the groundwater impact around the former tank excavation and MW-4. After remedial efforts,

confirmation water sampling would be required for all the monitoring wells on a quarterly basis to verify remedial progress.

If you have any questions or comments regarding this report, please call me at (707) 254-9886 or (707) 337-3768 (cell phone).

Sincerely,

Bay Consulting Services, LLC



Misty C. Kaltreider, P.G.
Principal Geologist

Attachments:

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – Groundwater Contour Map

Table 1 – Groundwater Elevation and Analytical Data
Table 2 – Historical Groundwater Flow and Gradient

Appendix A – Groundwater Monitoring Field Data Sheets
Appendix B – Analytical Results for Groundwater

TABLE 1
Groundwater Monitoring Data and Analytical Results
Alcal Santa Rosa, 879 Wright Road, Santa Rosa

Well ID	Sample Date	TOC (Ft.)	DTW (ft.)	GWE (msl)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	E. benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	TBA (ppb)	DIPE (ppb)	TAME (ppb)	ETBE (ppb)	1.2-DCA (ppb)	EDB (ppb)
MW-1	8/31/1995[1]	93.64	7.85	85.79	<50	<0.3	<0.3	<0.3	<0.3	44						
	12/5/1995	93.64	8.78	84.86	<50	<0.3	<0.3	<0.3	<0.3	25						
	3/5/1996	93.64	2.12	91.52	<50	<0.3	<0.3	<0.3	<0.3	44						
	6/5/1996	93.64	3.62	90.02	<50	<0.3	<0.3	<0.3	<0.3	24						
	12/13/1996	93.64	2.98	90.66	NA	NA	NA	NA	NA	NA						
	6/23/1997	93.64	6.66	86.98	NA	NA	NA	NA	NA	NA						
	1/15/1998	93.64	1.78	91.86	NA	NA	NA	NA	NA	NA						
	7/20/1998	93.64	5.32	88.32	NA	NA	NA	NA	NA	NA						
	2/1/1999	93.64	2.96	90.68	NA	NA	NA	NA	NA	NA						
	8/12/1999	93.64	7.00	86.64	NA	NA	NA	NA	NA	NA						
	2/1/2000	93.64	2.52	91.12	NA	NA	NA	NA	NA	NA						
	7/28/2000	93.64	6.56	87.08	NA	NA	NA	NA	NA	NA						
	1/26/2001	93.64	2.98	90.66	NA	NA	NA	NA	NA	NA						
	9/28/2001	93.64	8.29	85.35	<50	<0.5	<0.5	<0.5	<0.5	2.8						
	3/12/2002	93.64	3.33	90.31	NA	NA	NA	NA	NA	NA						
	9/16/2002	93.64	7.99	85.65	<50	<0.5	<0.5	<0.5	<0.5	4.1						
	2/13/2003	93.64	3.84	89.80	<50	<0.5	<0.5	<0.5	<0.5	5.7	<10	<5	<5	<5	<2	<2
	6/26/2003[2]	93.56	5.07	88.49	<50	<0.5	<0.5	<0.5	<0.5	5.7	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/10/2004	93.56	3.76	89.80	<50	<0.5	<0.5	<0.5	<0.5	3.4	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/24/2004	93.56	Not Measured		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/9/2004	93.56	7.81	85.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/21/2005	93.56	4.44	89.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2005	**93.56**	**4.88**	**88.68**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1.5**	**<5**	**<0.5**	**NA**	**NA**	**NA**	**NA**
MW-2	8/31/1995	93.50	7.69	85.81	<50	<0.3	<0.3	<0.3	<0.3	<0.3						
	12/5/1995	93.50	8.63	84.87	<50	<0.3	<0.3	<0.3	<0.3	<0.3						
	3/5/1996	93.50	2.13	91.37	<50	<0.3	<0.3	<0.3	<0.3	<0.3						
	6/5/1996	93.50	3.51	89.99	<50	<0.3	<0.3	<0.3	<0.3	<0.3						
	12/13/1996	93.50	3.00	90.50	NA	NA	NA	NA	NA	NA						
	6/23/1997	93.50	6.49	87.01	NA	NA	NA	NA	NA	NA						
	1/15/1998	93.50	1.79	91.71	NA	NA	NA	NA	NA	NA						
	7/20/1998	93.50	5.22	88.28	NA	NA	NA	NA	NA	NA						
	2/1/1999	93.50	2.95	90.55	NA	NA	NA	NA	NA	NA						
	8/12/1999	93.50	6.88	86.62	NA	NA	NA	NA	NA	NA						
	2/1/2000	93.50	2.58	90.92	NA	NA	NA	NA	NA	NA						
	7/28/2000	93.50	6.40	87.10	NA	NA	NA	NA	NA	NA						
	1/26/2001	93.50	2.98	90.52	NA	NA	NA	NA	NA	NA						
	9/28/2001	93.50	8.16	85.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5						
	3/12/2002	93.50	3.33	90.17	NA	NA	NA	NA	NA	NA						
	9/16/2002	93.50	7.82	85.68	<50	<0.5	<0.5	<0.5	<0.5	<0.5						

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Well ID	Sample Date	TOC (Ft.)	DTW (ft.)	GWE (msl)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	E. benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	TBA (ppb)	DIPE (ppb)	TAME (ppb)	ETBE (ppb)	1.2-DCA (ppb)	EDB (ppb)
MW-2	2/13/2003	93.50	3.77	89.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<5	<5	<5	<2	<2
	6/26/2003[2]	93.47	4.82	88.65	<50	<0.5	<0.5	<0.5	<0.5	1.3	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/10/2004	93.47	4.03	89.44	<50	<0.5	<0.5	<0.5	<0.5	1.2	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/24/2004	93.47	Not Measured		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/9/2004	93.47	7.18	86.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/21/2005	93.47	4.21	89.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2005	**93.47**	**4.97**	**88.50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1.3**	**<5**	**<0.5**	**NA**	**NA**	**NA**	**NA**
MW-3	12/5/1995	93.15	8.33	84.82	480	36	<0.3	<0.3	27	330						
	3/5/1996	93.15	2.06	91.09	240	19	<0.3	<0.3	<0.3	<0.5						
	6/5/1996	93.15	3.42	89.73	95	6.8	<0.3	5.3	2.5	74						
	12/13/1996	93.15	2.92	90.23	240	8.4	<0.5	12	3.5	93						
	6/23/1997	93.15	6.30	86.85	390	16	<0.5	26	6.9	44						
	1/15/1998	93.15	1.73	91.42	180	5.3	2.6	7.3	1.2	29						
	7/20/1998	93.15	4.93	88.22	<50	<0.5	<0.5	<0.5	<0.5	13						
	2/1/1999	93.15	2.81	90.34	130	0.62	3.3	1.2	1.1	15						
	8/12/1999	93.15	6.78	86.37	120	0.9	1.9	3.0	0.9	21						
	2/1/2000	93.15	2.50	90.65	190	0.82	2.0	4.0	0.61	4.1						
	7/28/2000	93.15	6.24	86.91	320	1.9	<0.5	1.0	<0.5	10						
	1/26/2001	93.15	2.64	90.51	100	<0.5	<0.5	1.5	<0.5	<0.5						
	9/28/2001	93.15	8.10	85.05	180	0.8	2.8	2.2	0.7	13						
	3/12/2002	93.15	3.03	90.12	83	1.0	1.2	<0.5	<0.5	7.4						
	9/16/2002	93.15	7.79	85.36	130	1.6	<0.5	0.8	<0.5	10						
	2/13/2003	93.15	3.43	89.72	180	2.2	0.6	0.5	<0.5	9.2	<10	<5	<5	<5	<2	<2
	6/26/2003[2]	93.12	4.56	88.56	110	<0.5	<0.5	<0.5	<0.5	9.2	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/10/2004	93.12	3.78	89.34	270	2.5	<0.5	0.56	<0.5	8.3	<5	0.53	<0.5	<0.5	<0.5	<0.5
	8/24/2004	93.12	7.30	85.82	110	<0.5	<0.5	<0.5	<0.5	17	<5	<0.5	NA	NA	NA	NA
	9/9/2004	93.12	7.66	85.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/21/2005	93.12	3.71	89.41	190	<0.5	<0.5	<0.5	<0.5	4.7	<5	<0.5	NA	NA	NA	NA
	7/25/2005	**93.12**	**4.45**	**88.67**	**180**	**0.72**	**<0.5**	**0.64**	**<0.5**	**10**	**<5**	**<0.5**	**NA**	**NA**	**NA**	**NA**
MW-4	6/26/2003	93.86	5.28	88.58	61	<0.5	<0.5	<0.5	<0.5	51	23	<0.5	<0.5	<0.5	<0.5	<0.5
	2/10/2004	93.86	4.17	89.69	<50	<0.5	<0.5	<0.5	<0.5	15	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/24/2004	93.86	7.79	86.07	<50	<0.5	<0.5	<0.5	<0.5	68	15	<0.5	NA	NA	NA	NA
	9/9/2004	93.86	8.01	85.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/21/2005	93.86	4.14	89.72	<50	<0.5	<0.5	<0.5	<0.5	11	<5	<0.5	NA	NA	NA	NA
	7/25/2005	**93.86**	**5.09**	**88.77**	**350**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**130**	**130**	**<0.5**	**NA**	**NA**	**NA**	**NA**
Domestic Well																
	12/13/1996		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
	6/23/1997		NM		<50	<0.5	<0.5	<0.5	<0.5	<20						
	1/15/1998		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						

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	7/20/1998		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
	2/1/1999		NM		<50	<0.5	<0.5	<0.5	<0.5	1.9						
	8/12/1999		NM		<50	<0.5	<0.5	<0.5	0.6	<0.5						
	2/1/2000		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
	7/28/2000		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
	1/26/2001		NM		67	<0.5	<0.5	<0.5	<0.5	<0.5						
	9/28/2001		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
	3/12/2002		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
Domestic	9/16/2002		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5						
Well	2/13/2003		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<5	<5	<5	<2	<2
	6/26/2003[2,3]		NM		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/26/2003[4]		6.20		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/10/2004[3]		3.16		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/10/2004[4]		3.16		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/24/2004		8.69		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	NA	NA	NA	NA
	9/9/2004		8.88		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/21/2005		3.52		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	NA	NA	NA	NA
	7/25/2005		**6.28**		**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**NA**	**NA**	**NA**	**NA**

Notes: Groundwater Monitoring Data and analytical results prior to 6/26/2003 were compliled from reports prepared by ACC Environmental Consultants.

Current results are highlited

TOC = Top of Casing surveyed elevation
(ft.) = Feet
GWE = Groundwater Elevation
msl = Mean Sea Level
DTW = Depth to Water
TPHd = Total Petroleum Hydrocarbons as Diesel

TPHg = Total Petroleum Hydrocarbons as gasoline
(ppb) = Parts per billion
NA = Not analyzed
MtBE = Methyl tertiary butyl ether
TBA = Tertiary butyl alcohol
DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichlorothane
EDB = 1,2-Dibromoethane
NM = Not Measured

1 The original surveyed elevation (TOC) for well MW-1 was 93.64 (Ron Archer, 8/29/95). Whereas the groundwater monitoring reports prepared by ACC identified the TOC for well MW-1 as 94.64.

2 The wells were resurveyed by Virgil Chavez Land Surveying on 6/24/2003.

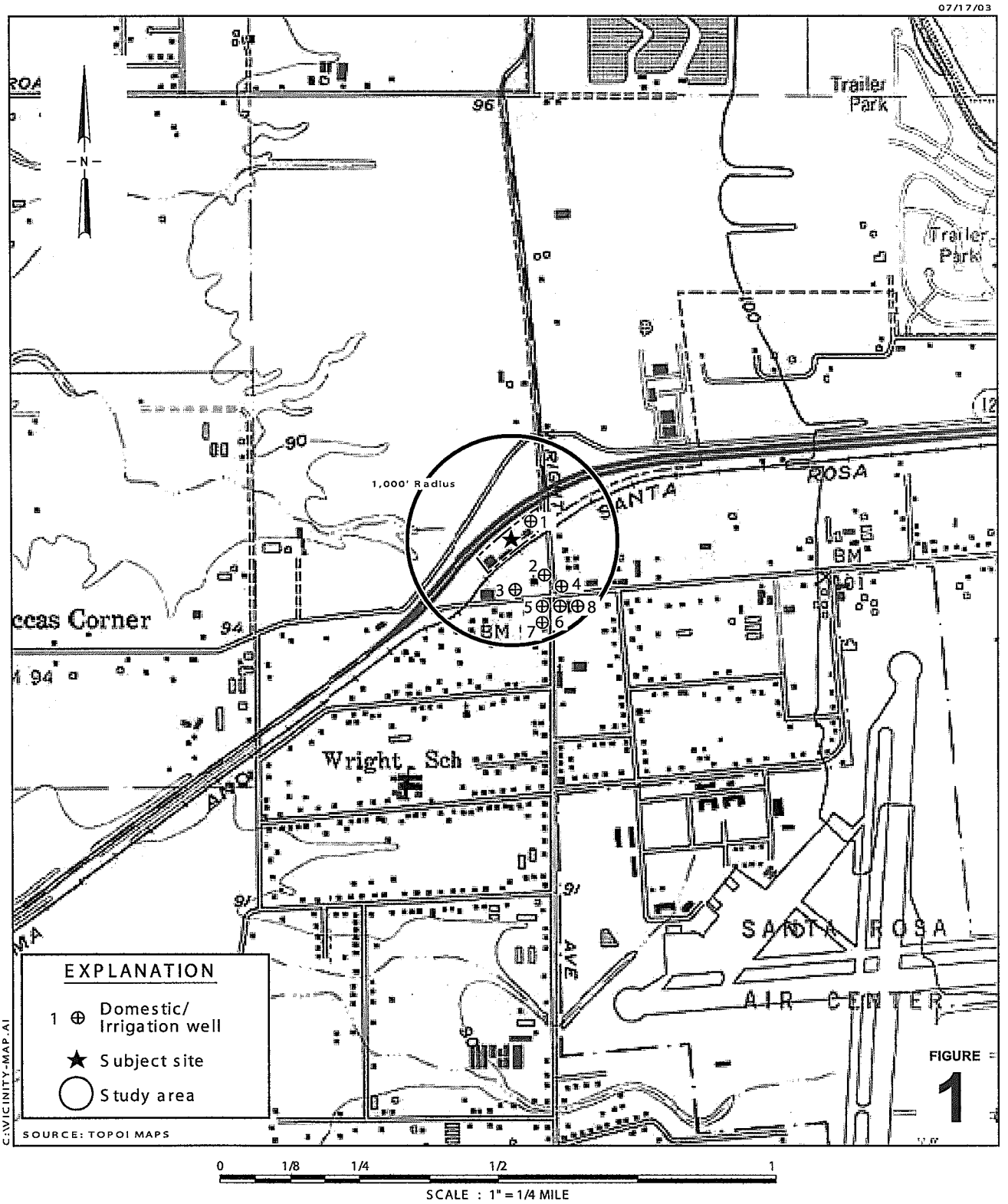
3 Sample collected from the domestic well, prior to the pressure tank and treatment system.

4 Sample collected from the domestic well, post pressure and treatment system.

TABLE 2
Historical Groundwater Gradient and Flow Direction

Date Monitored	Gradient (foot/foot)	Flow Direction
8/31/1995	0.003	West
12/5/1995	0.001	Southwest
3/5/1996	0.009	Northwest
6/5/1996	0.006	West/Northwest
12/13/1996	0.008	Northwest
6/23/1997	0.003	West
1/15/1998	0.009	Northwest
7/20/1998	0.001	West/Northwest
2/1/1999	0.007	Northwest
8/12/1999	0.006	West/Northwest
2/1/2000	0.008	Northwest
7/28/2000	0.008	West
1/26/2001	0.008	North/Northwest
9/28/2001	0.006	West/Northwest
3/12/2002	0.004	Northwest
9/16/2002	0.006	West/Northwest
2/13/2003	0.001	Northwest
6/26/2003	0.003	Southwest
2/10/2004	0.01-0.02	Northwest - Northeast
9/9/2004	0.0026	West
2/22/2005	0.017	Southwest-South
7/25/2005	0.01-0.002	Southwest-South

Notes: Groundwater Gradient and Flow directions prior to 6/26/2003 were adjusted according to the resurveyed elevations.



Vicinity Map

879 Wright Road

Santa Rosa, California

1,000 Foot Radius

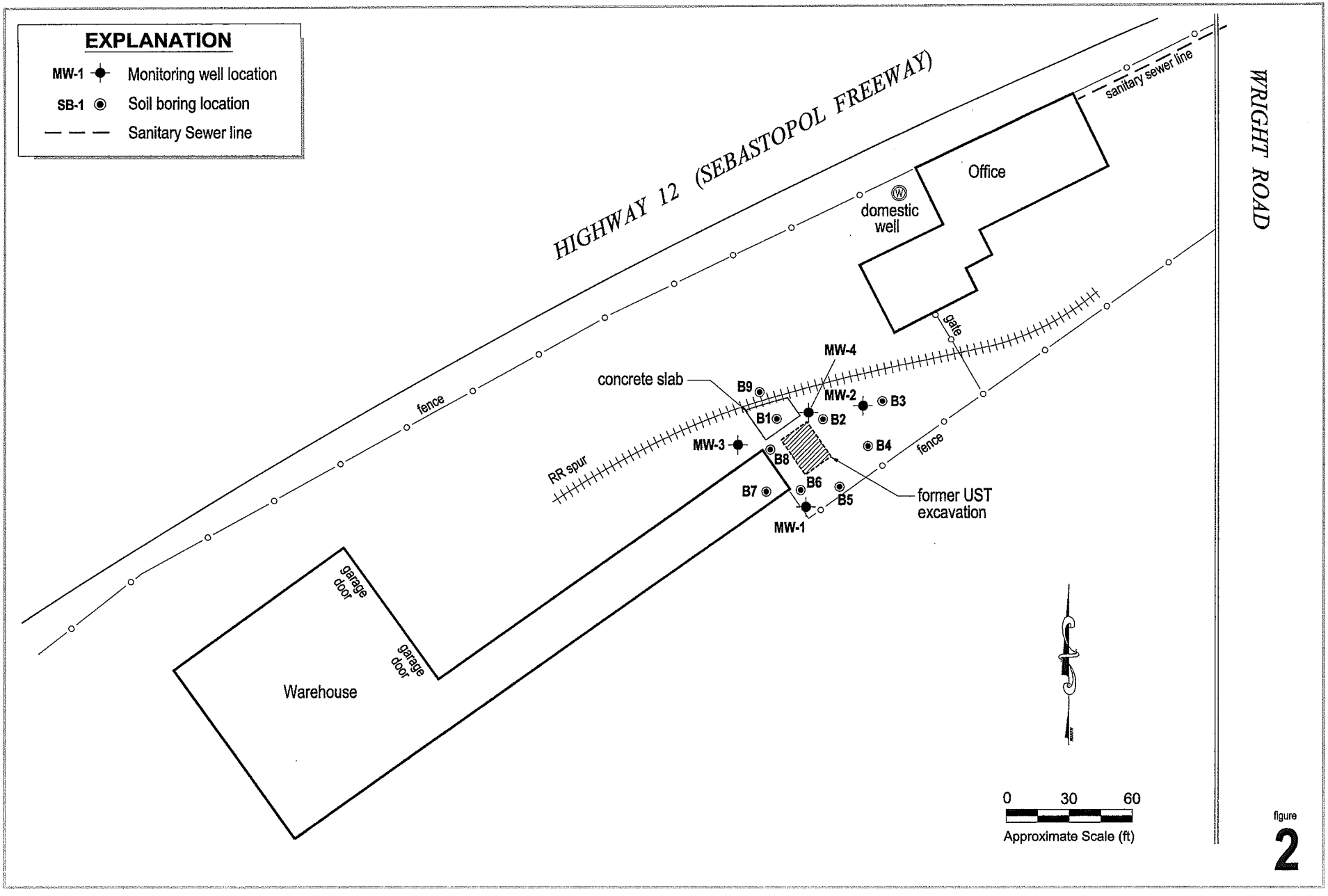
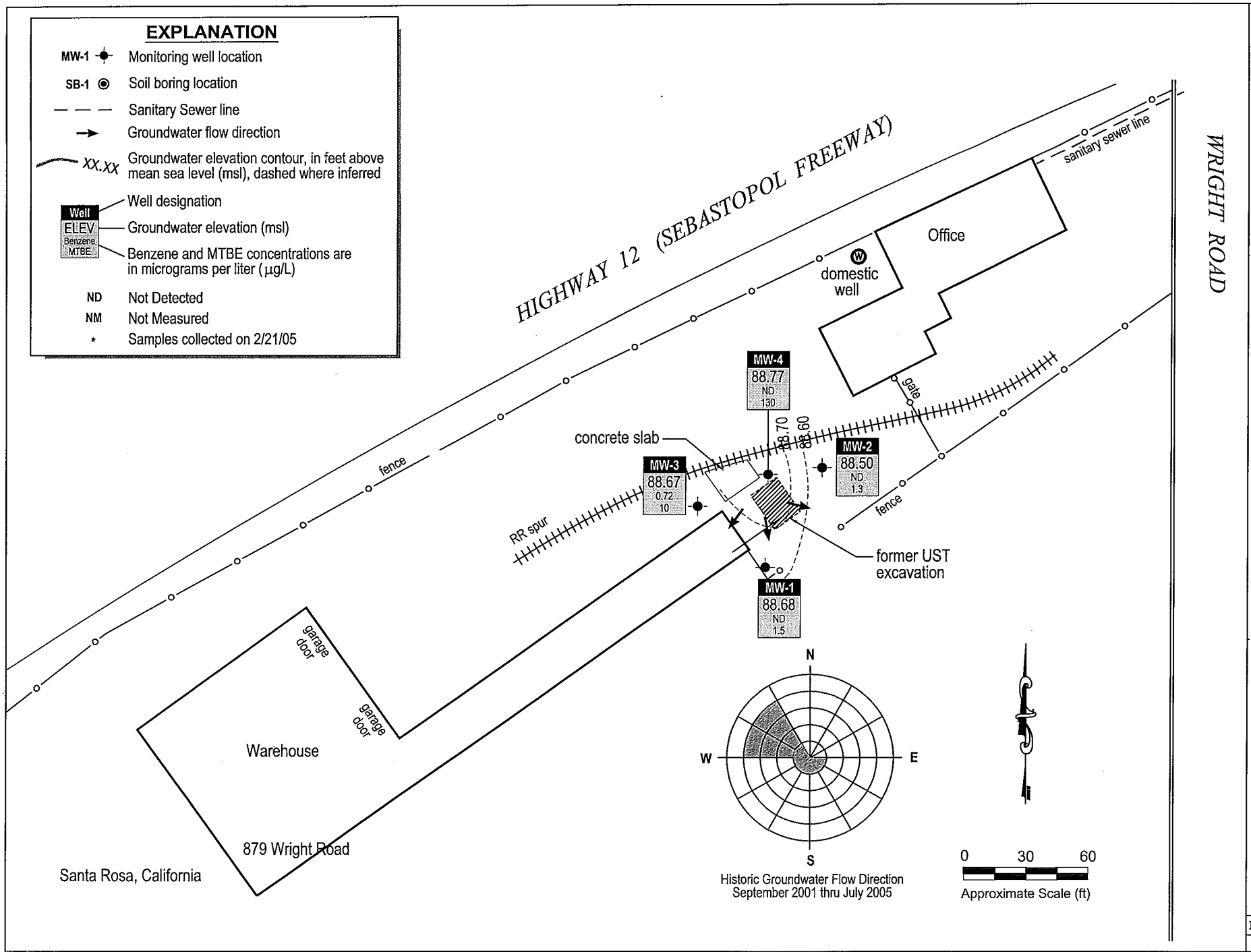


figure 2

Site Plan

879 Wright Road
Santa Rosa, California



BAY CONSULTING SERVICES
41 SEA BREEZE CT.
NAPA, CA 94559

Groundwater Contour Map

DATE: 7/25/05
SCALE: N.T.S.

SITE PLAN
FIGURE
3

ATTACHMENT A

GROUNDWATER MONITORING FIELD DATA SHEETS

S[illegible] or Purge Water Drum Lo[illegible]

Client: Misty Kaltreider

Site Address: 879 Wright Rd S.R.

STATUS OF DRUM(S) UPON ARRIVAL						
Date	6/19/03	6/26/03	2.10.04	8/24/04	2-21-05	7/25/05
Number of drum(s) empty:						
Number of drum(s) 1/4 full:					1	1
Number of drum(s) 1/2 full:		1		1 soil 1 water		
Number of drum(s) 3/4 full:			1			
Number of drum(s) full:				1 soil		
Total drum(s) on site:	0			3	1	1
Are the drum(s) properly labeled?		YES	NO	NO	YES	YES
Drum ID & Contents:			—	—	Purge H2O	Purge water
If any drum(s) are partially or totally filled, what is the first use date:		6/29/03	unknown	—		—

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	6/19/03	6/26/03		8/24/04		7/25/05
Number of drums empty:						
Number of drum(s) 1/4 full:			1	1 water	1	1
Number of drum(s) 1/2 full:	1	1		1 soil 1 water		
Number of drum(s) 3/4 full:			1			2
Number of drum(s) full:		1		1 soil		
Total drum(s) on site:			2	4	1	3
Are the drum(s) properly labeled?	Yes	Yes	Yes	Yes	YES	YES
Drum ID & Contents:	Purge water		Purge water	1 soil - Hazmat Drums 1 water - purgewater 1 water - rinsewater		Purge water

LOCATION OF DRUM(S)	
Describe location of drum(s):	~~Mulch withheld~~ Behind warehouse SW End of property ✓ 2 other Drums found mixed w/ pallets MKS not Blaine Tech Drums. (owner may question)

FINAL STATUS						
Number of new drum(s) left on site this event	1	0	1	1	Ø	2
Date of inspection:	6/19/03	6/26/03	2.10.04	8/24/04	2-21-05	7/25/05
Drum(s) labelled properly:	Yes	Yes	Yes	Yes	YES	YES
Logged by BTS Field Tech:	BM	BM	MKS	RM	KB	PR
Office reviewed by:				JK 8/31/04	JK 2-25-05	JK 7-27-05

WELL GAUGING DATA

Project # ~~0525~~ 050725-RC1 Date 7/25/05 Client Misty Kaltreider

Site 879 Wright Rd., Santa Rosa

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					4.48	14.05	TOC	
MW-2	2					4.47	14.20		
MW-3	2					4.45	14.40		
MW-4	2					5.09	17.40		
Domestic Well	4					6.28	—		

WELLHEAD INSPECTION CHECKLIST

Client Misty Kaltrieder Date 7/25/05

Site Address 879 Wright Rd, Santa Rosa

Job Number 050725-RC1 Technician R. CLARK

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
mw-1	X	X						
mw-2	–				M			
mw-3	–							
mw-4								
Domestic Well	X							

NOTES: mw-2 Lid Broken; Needs lock No lid on wellbox; mw-3 2/2 Bolts stripped

WELL MONITORING DATA SHEET

BTS #: 050725-BC1	Client: Misty Kaltreider
Sampler: Phil Clark	Date: 7/25/2005
Well I.D.: mw-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 14.05	Depth to Water (DTW): 4.88
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.71	

Purge Method: Bailer / Disposable Bailer / Postive Air Displacement ✓ / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer 9.17 / Disposable Bailer ✓ / Extraction Port / Dedicated Tubing / Other: _____

1.5 (Gals.) X	10	=	15 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1204	70.0	7.0	986.5	103	3	
1207	69.7	6.8	963.2	85	6	
1210	68.9	6.8	939.0	49	9	
1214	68.8	6.9	931.2	41	12	
1217	68.9	6.8	934.6	38	15	

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Date: 7/25/05 Sampling Time: 1220 Depth to Water: 6.10

Sample I.D.: mw-1 Laboratory: KIFF

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D OXY's Other: TBA, DIPE

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

BTS #: 050725-BC1	Client: Misty Kaltreider
Sampler: Phil Clark	Date: 7/25/2005
Well I.D.: mw-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.20	Depth to Water (DTW): 4.47
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.82	

Purge Method: Bailer / Disposable Bailer / Postive Air Displacement ✓ / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer 14.23 / Disposable Bailer ✓ / Extraction Port / Dedicated Tubing / Other: _____

2.25 (Gals.) X	10	=	22.5 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1136	70.8	7.1	1007	611	4.5	
1140	70.0	7.1	1009	365	9	
1145	70.3	6.9	1024	341	13.5	
1150	71.2	7.0	1032	239	18	
1155	69.1	7.0	1041	229	22.5	

Did well dewater? Yes (No) Gallons actually evacuated: 22.5

Sampling Date: 7/25/05 Sampling Time: 1200 Depth to Water: 7.0

Sample I.D.: mw-2 Laboratory: KIFF

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D OXY's Other: TBA, DIPE

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

BTS #: 050725-BC1	Client: Misty Kaltreider
Sampler: Phil Clark	Date: 7/25/2005
Well I.D.: mw-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 14.40	Depth to Water (DTW): 4.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.44	

Purge Method: Bailer, Disposable Bailer, Postive Air Displacement ✓, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer ✓, Extraction Port, Dedicated Tubing, Other: _____

9.95

1.6 (Gals.) X 10 = 16 Gals.
1 Case Volume — Specified Volumes — Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1041	72.3	6.3	1071	182	3.2	
1044	70.6	6.7	1056	137	6.4	
1048	70.2	6.8	1045	126	9.6	
1052	70.2	6.8	1039	92	12.8	
1056	70.0	6.8	1044	81	16	

Did well dewater? Yes (No) Gallons actually evacuated: 16

Sampling Date: 7/25/05 Sampling Time: 1100 Depth to Water: 6.20

Sample I.D.: mw-3 Laboratory: KIFF

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D OXY's Other: TBA, DIPE

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

BTS #: 050725-BC1	Client: Misty Kaltreider
Sampler: Phil Clark	Date: 7/25/2005
Well I.D.: mw-4	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD): 17.40	Depth to Water (DTW): 5.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.56	

Purge Method: Bailer, Disposable Bailer, Postive Air Displacement ✓, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer 12.31, Disposable Bailer ✓, Extraction Port, Dedicated Tubing, Other: _____

2 (Gals.) X 10 = 20 Gals.
1 Case Volume, Specified Volumes, Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1103	71.5	7.0	962.6	>1000	4	
1110	72.4	7.1	1053	178	8	
1115	72.2	7.0	1105	155	12	
1120	72.0	6.9	1134	70	16	
1125	71.7	6.9	1140	68	20	

Did well dewater? Yes No Gallons actually evacuated: 20

Sampling Date: 7/25/05 Sampling Time: 1130 Depth to Water: 7.05

Sample I.D.: mw-4 Laboratory: KIFF

Analyzed for: TPH-G BTEX MTBE TPH-D OXY's Other: TBA, DIPE

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

BTS #: 050725-BC1	Client: Misty Kaltreider
Sampler: Phil Clark	Date: 7/25/2005
Well I.D.: Domestic Well Pre	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 6.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, ~~Disposable Bailer~~, ~~Postive Air Displacement~~, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer, Extraction Port ✓, Dedicated Tubing, Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
~~1130~~	~~70.8~~	~~7.1~~	~~1001~~	—	—	—
1135	76.2	7.3	694.9	6.5	—	—

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Date: 7/25/05 Sampling Time: 1135 Depth to Water: —

Sample I.D.: Domestic well pre Laboratory: KIFF

Analyzed for: TPH-G BTEX MTBE TPH-D OXY's Other: TBA DIPE

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. _____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Misty Kaltreider

Company / Address: Bay Consulting Services

Phone #: 707.252.2107

Fax #: 707.254.9886

Project #: 050725-BC1

P.O. #:

Project Name: 79 Wright Rd. Santa Rosa, CA

Project Address:

California EDF Report? ☑ Yes ☐ No

Sampling Company Log Code: BTSR

Global ID: T0609700415

EDF Deliverable To (Email Address): bayconsulting@sbcglobal.net

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	Matrix: Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	MTBE, TBA, DIPE (EPA 8260B)	7 Oxygenates(EPA 8260B)	Lead Scav(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons(EPA 8260B)	Volatile Organics Full List(EPA 8260B)	Volatile Organics(EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)				TAT	For Lab Use Only
																														☐ 12 hr	
																														☐ 24 hr	
																														☐ 48hr	
																														☐ 72 hr	
																														☑ 1 wk	
MW-1	7/25	1220	3					x			x					x	x	x												1 wk	
MW-2	7/25	1200	3					x			x					x	x	x												1 wk	
MW-3	7/25	1100	3					x			x					x	x	x												1 wk	
MW-4	7/25	1130	3					x			x					x	x	x												1 wk	
Domestic well pre	7/25	1135	3					x			x					x	x	x												1 wk	

Relinquished by:	Date	Time	Received by:
[signature]	7/26/05	1505	
	07/26/05	1501	Martin Wilhoaus
	07-26-05	1501	Kiff Analytical LLC

Remarks:

Bill to: Misty Kaltreider

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Pink - Originator

Rev: 051805

ATTACHMENT B

ANALYTICAL RESULTS

KIFF Analytical LLC

Report Number : 45008
Date : 8/2/2005

Misty Kaltreider
Bay Consulting Services
41 Sea Breeze Ct.
Napa, CA 94559

Subject : 5 Water Samples
Project Name : 879 Wright Rd. Santa Rosa, CA
Project Number : 050725-BC1

Dear Ms. Kaltreider,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 45008

Date : 8/2/2005

Project Name : **879 Wright Rd. Santa Rosa, CA**

Project Number : **050725-BC1**

Sample : **MW-1** Matrix : Water Lab Number : 45008-01

Sample Date :7/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/27/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/27/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/27/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/27/2005
Methyl-t-butyl ether (MTBE)	**1.5**	0.50	ug/L	EPA 8260B	7/27/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/27/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/27/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/27/2005
Toluene - d8 (Surr)	94.2		% Recovery	EPA 8260B	7/27/2005
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	7/27/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45008

Date : 8/2/2005

Project Name : **879 Wright Rd. Santa Rosa, CA**

Project Number : **050725-BC1**

Sample : **MW-2** Matrix : Water Lab Number : 45008-02

Sample Date :7/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	**1.3**	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	93.4		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45008

Date : 8/2/2005

Project Name : **879 Wright Rd. Santa Rosa, CA**

Project Number : **050725-BC1**

Sample : **MW-3** Matrix : Water Lab Number : 45008-03

Sample Date :7/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.72**	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	**0.64**	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	**10**	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	**180**	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	93.6		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45008

Date : 8/2/2005

Project Name : **879 Wright Rd. Santa Rosa, CA**

Project Number : **050725-BC1**

Sample : **MW-4** Matrix : Water Lab Number : 45008-04

Sample Date :7/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	**130**	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	**130**	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	**350**	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	93.8		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45008

Date : 8/2/2005

Project Name : **879 Wright Rd. Santa Rosa, CA**

Project Number : **050725-BC1**

Sample : **Domestic Well Pre** Matrix : Water Lab Number : 45008-05

Sample Date :7/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	7/28/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45008

Date : 8/2/2005

QC Report : Method Blank Data

Project Name : **879 Wright Rd. Santa Rosa, CA**

Project Number : **050725-BC1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	99.3		%	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	107		%	EPA 8260B	7/28/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/28/2005
Toluene - d8 (Surr)	94.8		%	EPA 8260B	7/28/2005
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	7/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/27/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/27/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/27/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/27/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/27/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/27/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/27/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/27/2005
Toluene - d8 (Surr)	92.3		%	EPA 8260B	7/27/2005
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	7/27/2005

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45008

Date : 8/2/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **879 Wright Rd. Santa**

Project Number : **050725-BC1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45000-01	<0.50	40.0	40.0	43.3	40.3	ug/L	EPA 8260B	7/28/05	108	101	7.18	70-130	25
Toluene	45000-01	<0.50	40.0	40.0	37.2	41.4	ug/L	EPA 8260B	7/28/05	92.9	104	10.8	70-130	25
Tert-Butanol	45000-01	360	200	200	582	583	ug/L	EPA 8260B	7/28/05	112	112	0.579	70-130	25
Methyl-t-Butyl Ether	45000-01	49	40.0	40.0	94.2	88.3	ug/L	EPA 8260B	7/28/05	112	97.8	14.0	70-130	25
Benzene	45001-01	48	40.0	40.0	88.4	85.9	ug/L	EPA 8260B	7/28/05	102	95.3	6.40	70-130	25
Toluene	45001-01	1.2	40.0	40.0	39.2	38.6	ug/L	EPA 8260B	7/28/05	95.0	93.4	1.72	70-130	25
Tert-Butanol	45001-01	<5.0	200	200	200	203	ug/L	EPA 8260B	7/28/05	100	102	1.41	70-130	25
Methyl-t-Butyl Ether	45001-01	<0.50	40.0	40.0	37.8	37.0	ug/L	EPA 8260B	7/28/05	94.6	92.4	2.31	70-130	25
Benzene	45008-01	<0.50	40.0	40.0	38.3	38.4	ug/L	EPA 8260B	7/27/05	95.8	95.9	0.0726	70-130	25
Toluene	45008-01	<0.50	40.0	40.0	35.7	35.8	ug/L	EPA 8260B	7/27/05	89.2	89.4	0.214	70-130	25
Tert-Butanol	45008-01	<5.0	200	200	189	190	ug/L	EPA 8260B	7/27/05	94.4	94.9	0.552	70-130	25
Methyl-t-Butyl Ether	45008-01	1.5	40.0	40.0	45.2	44.8	ug/L	EPA 8260B	7/27/05	109	108	0.779	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45008

Date : 8/2/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **879 Wright Rd. Santa**

Project Number : **050725-BC1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/28/05	106	70-130
Toluene	40.0	ug/L	EPA 8260B	7/28/05	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/28/05	112	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/28/05	102	70-130
Benzene	40.0	ug/L	EPA 8260B	7/28/05	106	70-130
Toluene	40.0	ug/L	EPA 8260B	7/28/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/28/05	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/28/05	102	70-130
Benzene	40.0	ug/L	EPA 8260B	7/27/05	97.6	70-130
Toluene	40.0	ug/L	EPA 8260B	7/27/05	90.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/27/05	96.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/27/05	111	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 45008

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Misty Kaltreider**

California EDF Report? ☑ Yes ☐ No

Company / Address: **Bay Consulting Services**

Sampling Company Log Code: **BTSR**

Phone #: **707.252.2107** Fax #: **707.254.9886**

Global ID: **T0609700415**

Project #: 050725-BC1 P.O. #:

EDF Deliverable To (Email Address): bayconsulting@sbcglobal.net

Project Name: **879 Wright Rd. Santa Rosa, CA**

Sampler Signature:

Project Address:

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	MTBE, TBA, DIPE (EPA 8260B)	7 Oxygenates(EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons(EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics(EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	TAT	For Lab Use Only
MW-1	7/25	1220	3					x			x					x	x	x										1 wk	01
MW-2	7/25	1200	3					x			x					x	x	x										1 wk	02
MW-3	7/25	1100	3					x			x					x	x	x										1 wk	03
MW-4	7/25	1130	3					x			x					x	x	x										1 wk	04
Domestic well pre	7/25	1135	3					x			x					x	x	x										1 wk	05

Relinquished by:	Date	Time	Received by:
[signature]	7/26/05	1505	
	07/26/05	1501	Martin W Lehmann
	07-26-05	1505	Kiff Analytical LLC

Remarks:

Bill to: **Misty Kaltreider**

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
5	MIW	07-26-05	1500	1R-3	Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805