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**EVALUATION OF SITE CONTAMINATION
AND RECENT GROUNDWATER SAMPLING
ONE COLOR COMMUNICATIONS
1001 42ND STREET, OAKLAND, CALIFORNIA**

OCTOBER 22, 2003

Prepared for:

**ONE Color Communications
1001 42nd Street
Oakland, CA 94608**

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Alameda County
Environmental Health

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1. INTRODUCTION

Block Environmental Services, Inc. (BES) prepared the following report on behalf of ONE Color Communications (ONE) for submission to the Alameda County Department of Environmental Health (ADEH) and the San Francisco Bay Regional Water Quality Control Board (RWQCB). The scope of work covered in this report addresses the request by ACDEH for additional groundwater sampling at the ONE property. Included in the report are a summary of all available historical documentation regarding site contamination, investigation, and clean-up activities, a description of the procedures and results from the recent groundwater sampling event of all of the site's remaining wells conducted by BES, and a discussion of these results as well as trends at the site.

2. SITE LOCATION AND DESCRIPTION

The ONE Color Communicaitons site is approximately 1 mile east of the San Francisco Bay on the north edge of Oakland, with the Oakland/Emeryville common boundary passing through the ONE and Dunne Paints properties (Figure 1). Land use in the area is both light industrial and residential.

The ONE facility is located at 1001 42nd Street in Oakland and extends across the eastern portion of the block to 41st Street. The property was formerly owned by Boysen Paint Company, which began manufacturing paints and varnish on the property in the mid-1930's (NAC, 1998). Boysen was merged into the Ameritone Paint Corporation, a wholly owned subsidiary of Grow Group, Inc., in 1980. In May 1981, Mr. and Mrs. Kozel purchased the property from Grow Group. Boysen ceased operations in 1990 and subsequently Oakland National Engraving Company began operating a printing business on the property. From the late 1980's until July, 1993, a portion of the property was also occupied by Rockridge Antiques (Rockridge), which used the former etching room to refinish antiques, and stripped furniture in a trough near a former truck loading dock on 41st Street. Oakland National Engraving changed its name to ONE Color Communications, Inc. in January 1994 and currently occupies the property.

3. BACKGROUND

3.1 Previous Investigations

At least two former underground storage tanks (USTs) were associated with the ONE property. A 10,000 gallon UST that had stored mineral spirits (a.k.a. paint thinner or stoddard solvent) was located in the truck loading area. This tank was excavated in the first half of 1987. Two soil samples collected from below the former UST indicated concentrations of total hydrocarbons of 6.5 and 43.5 mg/kg, of benzene of 0.07 mg/kg and non-detect, of toluene of 0.6 mg/kg (both), and of xylenes of 17.6 and 4.3 mg/kg (4M Construction, 1987). A monitoring well, MW-LD4, was installed adjacent to the loading dock. Details of the removal of this tank and the date of

well installation are unknown. It appears that MW-LD4 was constructed in the excavation pit using the same methods as for MW-D1 and MW-D2, described later in this report.

In 1987, O.H. Materials Corp. (OHM) began investigating a UST located under the sidewalk along 41st Street. The tank was reportedly used by the former Boysen Paint Company to store mineral spirits. Following a ground penetrating radar survey for underground utilities and the installation of a temporary monitoring well during 1988 and 1989, approximately 610 gallons of solvents, sludge, and water were pumped from the tank and disposed of in April, 1990. In May, 1990 monitoring well MW-B1 was installed at the western end of the UST. Compounds detected in the first groundwater sample collected included 57,000 µg/L of Total Petroleum Hydrocarbon (TPH) of unknown type and 11.4 µg/L of methylene chloride (ESC, 1993). On September 30, 1991, Aqua Terra Technologies (ATT) collected groundwater samples from MW-B1 (identified as MW-41st in their report) and MW-LD4 (ATT, 1992). The laboratory analysis for MW-B1 indicated 18,000 µg/L TPH-g, 29,000 µg/L kerosene, 5.6 µg/L toluene, 250 µg/L ethylbenzene, 980 µg/L total xylenes, and non-detect for all volatile organic compounds (VOCs), and halogenated organic compounds, including methylene chloride.

In May 1993 ESC began activities to close the tank in place. After removing the sidewalk and fill, the tank was measured to have a capacity of 8,000 gallons. Signs of weakness and holes were found in the tank piping and soil discoloration was observed in the product-line trench. Approximately 25 tons of soil were excavated from above the tank and hauled for disposal. Soil samples collected in the excavation pit around the tank and piping contained TPH matching the mineral spirit standard, however the samples were not quantified using this standard. The samples did not contain detectable levels of VOCs except for low levels of xylenes (400 to 800 µg/L) in the west, east, and pipeline soil samples. A total of 39 cubic yards of cement slurry was pumped into the tank to fill it. The excavation pit was backfilled with pea gravel and the sidewalk replaced.

ESC installed three more monitoring wells (MW-B2, MW-B3, and MW-B4) in May of 1993. These wells are all located in 41st Street and nearly form a line running east to west. On June 10, 1993 and again on September 29, 1993 ESC sampled the five monitoring wells on ONE property, as well as two wells on California Linen property and two wells on Dunne Paints property. Results from both sampling events did not indicate detectable levels of VOCs in any wells at ONE. The September sample analysis was the only one to quantify levels of TPH as mineral spirits, indicating concentrations of 290,000 µg/L in MW-B2, 43,000 µg/L in MW-B1, and between 700 and 2,400 µg/L in the remaining wells at ONE.

A stormwater drainage system at ONE included two steel-lined concrete sumps located adjacent to the former truck loading area. Rockridge utilized a trough in this area to strip furniture using a solvent mixture containing methylene chloride. Sludge found in the bottom of the smaller sump was sampled by ESC in May 1993. ESC reported Total Petroleum Hydrocarbons (TPH) concentrations as a non-gasoline mix at 130,000 µg/L, toluene concentration at 1,100 µg/L, ethylbenzene at 1,400 µg/L, xylene at 14,000 µg/L, trichloroethylene (TCE) at 460 µg/L and methylene chloride at 17,000 µg/L in the sludge found at the bottom of the sump (ESC, August,

1993). The larger sump contained about 110 gallons of liquid, which was removed from the sump on August 10, 1993. The liquid was manifested and sent for recycling by Rockridge. ONE sampled and analyzed the liquid waste in the sump using EPA Method 624. The liquid contained 79,000 µg/L methylene chloride, 12,000 µg/L TCE, and trace amounts of 1,2-dichloroethylene (DCE).

BES conducted a field investigation in 1994 to determine whether methylene chloride or TCE had contaminated soil or groundwater adjacent to the sumps. This involved drilling a boring adjacent and downgradient to the sumps, collecting soil samples at 3 and 8 feet below ground surface (bgs), and installing a monitoring well (BES-1). No halogenated VOCs (including methylene chloride and TCE) were found in the groundwater above the method detection limit. However, TCE was found in the three-foot soil sample at 9.5 µg/kg and in the eight-foot soil sample at 13 µg/kg. TPH as diesel and as mineral spirits were found in the groundwater, and TPH as mineral spirits was found in the eight-foot soil sample. Based on the data from this investigation, it was concluded that the sumps held their integrity since methylene chloride was not detected in soil or groundwater (BES, 1994). The two sumps were cleaned and filled with concrete in October 1995. A closure report for the sumps was submitted to ADEH in November 1995 (BES, 1995).

Methylene chloride was detected in the groundwater in only one well at one sampling event in May 1990. No other sampling events have detected methylene chloride or any other halogenated organic compounds in any groundwater wells at the site.

Table A (attached) summarizes all groundwater analytical data for the site for the chemicals of concern.

3.2 Hydrogeology

3.2.1 Geologic Setting

The site soils consist of Quaternary Alluvium overlying Franciscan bedrock. Bedrock is likely to occur at a depth of 50 feet or greater beneath the site, creating an impermeable aquitard, or perch, for groundwater. On this portion of the low-lying Bay Plain in close proximity to San Francisco Bay, the site soils can be expected to consist primarily of fine grain silts and clays, termed “Bay Mud”. Bay Mud is predominantly composed of unconsolidated, olive gray, blue gray, or black silty clay, created by the deposition of sediments carried by San Joaquin and Sacramento River. Permeability is generally low except where lenses of sand occur (Miller, 1989; Hageman-Aguiar, 1992).

3.2.2 Site Hydrogeology

Lithologic logs for borings drilled throughout the site indicate that the soil consist primarily of fine-grained sediments which fall into the category of Bay Mud. In a temporary well drilled to 20 feet bgs adjacent to the 8,000 gallon tank at ONE, soils were brown and gray clay for the

entire depth, with increasing silt content beginning at 16 feet (OHM, 1988). Logs for MW-B2, MW-B3, and MW-B4 identify layers containing varying levels of gravel and silt as their primary constituents down to 14 feet bgs (ESC, 1993). Grading to finer particles, but still mostly sand, occurred to depths between 21 and 22 feet. Below this depth, clayey silt was observed in each well to final boring depths of 25 feet. The lithologic log for MW BES1 indicates silty sand to 7 feet, sandy silt to 24 feet, and clayey silt to 30 feet bgs (BES, 1994).

3.2.3 Hydraulic Gradient

ESC recorded groundwater levels in each of nine wells throughout the area, monthly, between June and November 1993 (ESC, 1994). These measurements are summarized in Table B (attached). In their analysis of the groundwater elevation data, measurements from MW-D1, MW-D2, and MW-LD4 were discarded due to the unconventional construction of these wells in non-native fill. The significant variation in hydraulic conductivity between this fill (reportedly pea gravel) and the native soil, along with the size of the excavation pits in which the fill and wells were placed, indicate that groundwater elevations from these wells are not likely to be representative of the actual height of the groundwater table. BES-1 was constructed subsequent to the collection of this data.

Water table elevations decreased over the dry summer months and increased as rain events from mid-October through mid-November recharged the water table. The difference in the maximum and minimum average elevations was 1.05 feet over the period. The direction of groundwater flow appeared to vary from southwest to west over the six-month period. However, because the gradient is slight and the monitoring wells are located almost linearly and close to each other, a precise determination of the flow direction is not possible. ESC reviewed Alameda County well inventory reports in August, 1993 in an attempt to locate other wells within a one-mile radius of the site that might provide further groundwater elevation data, but no other wells of any kind could be found within the radius.

In general, the magnitude of the hydraulic gradient varied too much over the entire site to provide an exact quantification. The gradient under 41st Street between ONE and Dunne Paints, exhibited by wells MW-B1, MW-B2, MW-B3, and MW-B4, ranged between approximately 0.045 and 0.004 ft/ft in the direction of groundwater flow, with an average of 0.013 ft/ft. The gradient between wells MW-1 and MW-2 at California Linen varied between 0.019 and 0.031 ft/ft, although the exact direction, and therefore the actual groundwater gradient, is uncertain.

4. RECENT GROUNDWATER SAMPLING

4.1 Sampling of Existing Monitoring Wells

On May 28, 2003 BES collected depth to groundwater measurements, purged, and collected groundwater samples from five of the eight remaining monitoring wells on and adjacent to the subject property, MW-B2, MW-B3, MW-B4, MW-B1, BES-1 (Figure 1). During the sample

event, MW-B1 was identified and sampled. The well cover for MW-B1 was not marked and consequently has not been sampled since 1993. MW-LD4 was not sampled at this event because the details of the well construction are unknown and the quality of the sample data cannot be verified. The depth to static water was measured in each well prior to purging using an electrically activated audible water level indicator accurate to 0.01 inches (Table 2). These measurements were used to calculate the volume of water in each well casing. A centrifugal pump and hose was used to purge at least three well casing volumes of water prior to sampling. Well purge water was placed in fifty-five gallon drums for storage and disposal, pending receipt of analytical test results.

Samples were collected with a new Teflon disposable bailer and a new length of nylon string for each well. Groundwater samples were retained in pre-cleaned, 1-liter, amber glass containers and 40 milliliter clear glass VOA's with Hydrochloric acid preservative, supplied by the laboratory. Samples were labeled and stored in an ice-filled cooler until delivery to the laboratory. The groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPHd), gasoline (TPHg), and mineral sprits (TPHms) using EPA Method 8015. The groundwater samples were also analyzed for volatile organic compounds (VOC's), including methyl-t-butyl ether (MTBE), using EPA Method 8260. Mc Campbell Laboratories in Concord, CA completed the laboratory analysis. Copies of the well sampling logs with depth to groundwater measurements and purging information are included in Appendix A.

All of the monitoring wells, except MW-B3, had floating product and odor. The strongest odor was observed in MW-B2 and MW-BES1. Table 1 gives a summary of the analytical results from the May 28, 2003 groundwater-sampling event.

Table 1: Summary of Compounds Detected on May 28, 2003 Sampling Event
All Data in µg/L (ppb)

Well No.	TPH-d	TPH-g	TPH-ms	tert-Butyl benzene	sec-Butyl benzene	1,1-Dichloro ethane	Vinyl Chloride	trans-1,2-Dichloro ethylene	MTBE	cis-1,2-Dichloro ethylene
MW-B3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-B4	7,000	1,400	990	2.8	ND	ND	1.8	ND	ND	ND
MW-B2	22,000	1,600	1,100	3.2	3.2	ND	ND	ND	ND	ND
MW-B1	1,100,000	37,000	26,000	23	ND	ND	ND	ND	ND	ND
MW-BES1	19,000	84,000	60,000	4.4	ND	1.5	20	2.1	ND	17

With the exception of MW-B2, concentrations of TPH mineral spirits (TPH-ms) were all lower than those measured during prior sample events (Figure 2). However, TPH gasoline (TPH-g) and TPH diesel (TPH-d) were present at higher concentrations. VOCs were also found in MW-B4, MW-B2, and MW-BES1 and were not present in previous sampling events. Vinyl Chloride was the only contaminant found above the Risk Based Screening Levels (RBSLs) for the San Francisco Regional Water Quality Board (RWQCB). A summary of the RBSLs is presented in

Table 2. MW-B3, which is the farthest down gradient from the ONE site, was non-detect (ND) for all chemicals analyzed.

Table 2: Summary of RBSLs for the Site

Chemical	Residential Soils (µg/kg)	Commercial / Industrial Soils (µg/kg)	Groundwater (µg/L)
TPH-gasoline	400,000	400,000	500
TPH-middle distillates	500,000	500,000	640
TPH-residual fuels	500,000	1,000,000	640
1,1-Dichloroethane	550	1,900	47
cis-1,2-Dichloroethylene	270	7,700	590
trans-1,2-Dichloroethylene	530	15,000	590
Vinyl Chloride	11.0	40.0	4.9

Due to the level of VOCs found in MW-BES1, BES collected an additional groundwater sample from MW-BES1 on June 18, 2003 to confirm the accuracy of the laboratory data. The groundwater sample was collected in the same manner as in the May 28, 2003 sample event. STL Laboratories in Pleasanton, CA completed the laboratory analysis.

Floating product and a strong odor was present in MW BES-1 during both the June and May 2003 sampling events. Table 3 provides a summary of the analytical results from the groundwater-sampling events for MW BES-1 on May 28, 2003 and June 18, 2003.

Table 3: Summary of Compounds Detected in BES-1 on May 28, 2003 and June 18, 2003
All Data in mg/L (ppm)

Well No. BES-1	TPH-d	TPH-g	TPH-ms	tert-Butyl benzene	sec-Butyl benzene	1,1-Dichloro ethane	Vinyl Chloride	trans-1,2-Dichloro ethylene	MTBE	cis-1,2-Dichloro ethylene
May 28, 2003	19.0	84.0	60.0	0.0044	ND	0.0015	0.02	0.0021	ND	0.017
June 18, 2003	N/A	5.3	120.0	ND	ND	ND	0.018	ND	ND	0.014

TPH gasoline decreased by approximately 95% in the June 2003 sample event. However, TPH mineral spirits doubled in concentration and VOCs were only slightly lower than the results from the May 2003 sample event (Figure 2).

4.2 Groundwater Gradient

Depth to groundwater measurements made prior to well sampling and the corresponding water table elevations are shown in Table 4.

Table 4: Groundwater Elevation Data, May 28, 2003
Elevations are given in feet above mean sea level (msl)

Well No.	Depth to Well (feet)	TOC Elevation (msl)	Depth to Water (feet)	Groundwater Elevation
MW-B3	20.88	49.02	5.00	44.02
MW-B4	21.5	49.74	6.0	43.74
MW-B2	23.35	50.77	6.40	44.37
MW-B1	19.88	49.92	5.5	44.42
MW-BES1	30.00	*	11.2	*

* Elevation of well casing has not been surveyed

Groundwater elevations measured on May 28, 2003 were similar to those measured on the last sampling event (BES, July 2000). The water table elevations ranged from a maximum of 44.42 and a minimum of 43.74 feet msl, corresponding to MW-B1 and MW-B4 (Figure 3). The data indicates that the flow direction can generally be described as to the southwest (Figure 4). As seen in previous sampling events, MW-B4 continues to be at a lower elevation than MW-B3 and MW-B2 even though it is almost linearly between the two wells. This localized condition may be brought about by the presence of a higher permeability layer (i.e. sand lens) within surrounding soils.

5. CONCLUSION

In general, groundwater concentrations for TPH mineral spirits have been decreasing at the site since the monitoring program began approximately 10 years ago. The concentration of TPH mineral spirit in MW-B2 increased in the latest sample event but remain in low levels. Since the last sample event, groundwater concentrations for TPH gasoline and diesel have increased in all of the wells except for MW-B3. The latest sample results indicate the presence of VOCs in MW-BES1 but do not appear to be migrating offsite. Although the mineral spirit concentrations doubled in the June 18, 2003 sample event, the results from the previous sample events indicate a decreasing trend since 1998. A summary of groundwater data from all past and current sample events is presented in Table A. A copy of the data reports from the May 28, 2003 and June 18, 2003 sampling event are provided in Appendix B.

6. REFERENCES

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TABLE

TABLE A: Summary of Groundwater Sampling Analyses ONE, California Linen, and Dunne Quality Paints, Oakland/Emeryville, California
All Concentrations in ug/L

Well No.	Date	TPH-d	TEPH (non-diesel)*	TPH-g	TPPH (non-gasoline)**	Kerosene	Mineral Spirits	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	1,1-Dichloroethylene (DCE)	Methylene Chloride	tert-Butyl benzene	sec-Butyl benzene	Vinyl Chloride	1,1-Dichloro ethane	trans-1,2-Dichloro ethane	cis-1,2-Dichloro ethane
MW-B1	9/30/1991	ND < 50	-	18,000	-	29,000	-	5	250	6	980	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/10/1993	-	27,000	-	57,000	-	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/29/1993	-	-	-	-	-	43,000	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/28/2003	1,100,000	-	37,000	-	-	26,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-B2	6/10/1993	-	3,800	-	1,400	-	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/29/1993	-	-	-	-	-	290,000	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/1998	ND < 1,000	-	ND	2,400	ND < 1,000	150,000	ND	ND	ND	ND	ND < 250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/1999	-	-	-	-	-	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/28/2003	22,000	-	1,600	-	-	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	3.2	ND	ND	ND	ND
MW-B3	6/10/1993	-	1,700	-	510	-	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/29/1993	-	-	-	-	-	2,400	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/1998	ND	-	ND	830	ND	120	ND	ND	ND	ND	ND < 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/1999	-	-	-	-	-	ND < 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/28/2003	ND	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-B4	6/10/1993	-	36,000	-	36,000	-	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/29/1993	-	-	-	-	-	1,400	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/1998	1,000	-	ND	2,700	ND	7,500	ND	ND	ND	ND	ND < 50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/1999	-	-	-	-	-	5,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/28/2003	7,000	-	1,400	-	-	990	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	1.8	ND	ND	ND
BES-1	4/21/1994	18,000	-	-	-	-	12,000	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/1998	ND < 1,000	-	***	-	ND < 1,000	78,000	ND	ND	ND	ND	ND < 250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/1999	-	-	-	-	-	72,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/28/2003	19,000	-	-	-	-	60,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	6/18/2003	*	-	5,300	-	-	120,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	ND	20	1.5	2.1	17
MW-LB4	9/30/1991	-	-	-	-	-	-	2.0	9.0	3.1	24	-	-	-	-	-	-	-	-	-	-	-
	6/10/1993	-	21,000	-	1,100	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
	9/29/1993	-	-	-	-	-	700	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/1998	170	-	ND	83	ND	130	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/1999	-	-	-	-	-	440,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/13/2000(g)	-	-	-	-	-	630,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D1	8/26/1988	-	-	-	-	-	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/18/1989	-	-	-	-	-	ND < 1,000	ND	ND	2.0	1.8	-	-	-	-	-	-	-	-	-	-	-
	4/24/1989	-	-	-	-	-	ND < 1,000	ND	ND	1.1	-	-	-	-	-	-	-	-	-	-	-	-
	2/21/1990	ND	-	ND	-	ND	ND < 100	ND	0.4	ND	1.3	-	-	-	-	-	-	-	-	-	-	-
	6/10/1992	ND	-	ND	-	ND	ND < 50	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
	6/10/1993	-	220	-	230	-	-	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-
	9/24/1993	ND	-	ND	-	-	ND < 50	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-
	9/29/1993	-	-	-	-	-	110	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-
	12/14/1999	-	-	-	-	-	ND < 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-D2	8/26/1988	-	-	-	-	-	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/18/1989		-	-	-	-	-	ND < 1,000	ND	ND	6.3	12	-	-	-	-	-	-	-	-	-	-	-
4/24/1989		-	-	-	-	-	ND < 1,000	ND	ND	7.7	-	-	-	-	-	-	-	-	-	-	-	-
2/21/1990		-	-	-	-	-	300	ND	0.3	ND	1.5	-	-	-	-	-	-	-	-	-	-	-
6/10/1992		ND	-	ND	-	-	76	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
6/10/1993		-	9,100	-	6,200	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
9/24/1993		ND	-	ND	-	-	ND < 50	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-
9/29/1993		-	-	-	-	-	220	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
12/10/1998		ND	-	ND	95	ND	180	ND	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-
12/14/1999		-	-	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HP-1	12/14/1999(a)	-	-	-	-	-	21,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/13/2000(a)	-	-	-	-	-	ND < 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	HP-2	1/13/2000(a)	-	-	-	-	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	HP-3	12/15/1999(a)	-	-	-	-	ND < 56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HP-4	1/13/2000(a)	-	-	-	-	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

* - Not Tested
ND - Non Detectable

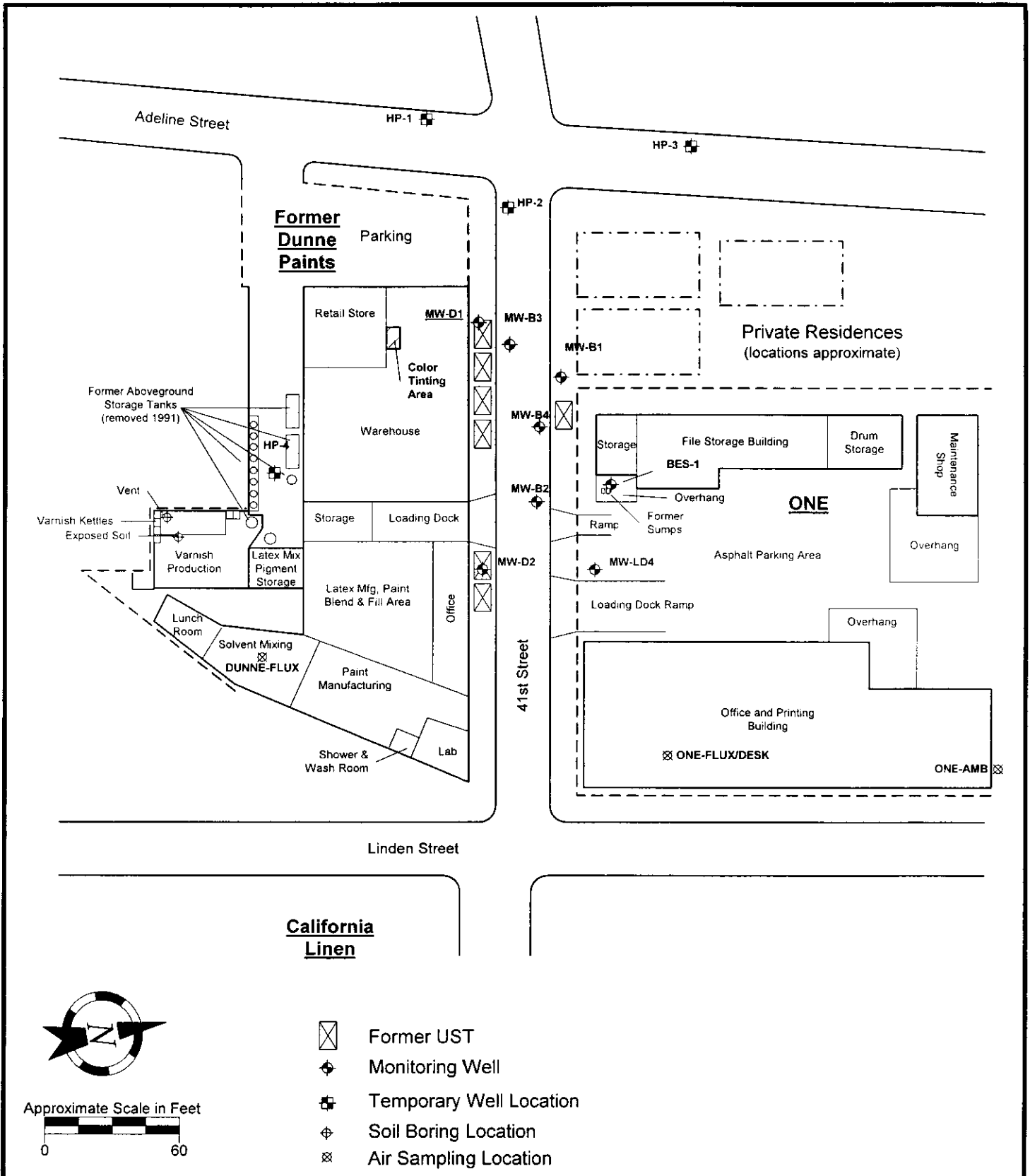
* TPH chromatogram pattern indicated a mix of TPH carbon chains not typical of the diesel range
** TPH chromatogram pattern indicated a mix of TPH carbon chains not typical of the gasoline range
*** Insufficient quantity of sample for analysis
**** Discrepancy in elevation surveys
g Grab Sample

**TABLE B: Summary of Comprehensive Site Depth to Groundwater Measurements,
ONE, Oakland/Emeryville, California**

All measurements in feet.

Well No.	Date	Depth of Well (bgs)	TOC Elevation (msl)	Depth to Water (bgs)	Ground-water Elevation (msl)	Well No.	Date	Depth of Well (bgs)	TOC Elevation (msl)	Depth to Water (bgs)	Ground-water Elevation (msl)
MW-B1	6/10/1993	19.88	49.92	6.14	43.78	MW-B1	10/20/1993	19.88	49.92	6.69	43.23
MW-B2	6/10/1993	23.35	50.77	6.75	44.02	MW-B2	10/20/1993	23.35	50.77	7.25	43.52
MW-B3	6/10/1993	20.88	49.02	6.85	42.17	MW-B3	10/20/1993	20.88	49.02	6.24	42.78
MW-B4	6/10/1993	21.50	49.74	6.00	43.74	MW-B4	10/20/1993	21.50	49.74	6.11	43.63
MW-LD4	6/10/1993	10.60	51.51	6.98	44.53	MW-LD4	10/20/1993	10.60	51.51	7.37	44.14
MW-D1	6/10/1993	12.50	50.56	5.29	45.27	MW-D1	10/20/1993	12.50	50.56	6.20	44.36
MW-D2	6/10/1993	12.55	50.56	6.25	44.31	MW-D2	10/20/1993	12.55	50.56	6.48	44.08
MW-1	6/10/1993	22.00	53.89	7.41	46.48	MW-1	10/20/1993	22.00	53.89	7.98	45.91
MW-2	6/10/1993	22.60	54.06	9.24	44.82	MW-2	10/20/1993	22.60	54.06	9.18	44.88
MW-B1	7/8/1993	19.88	49.92	6.64	43.28	MW-B1	11/23/1993	19.88	49.92	6.65	43.27
MW-B2	7/8/1993	23.35	50.77	6.91	43.86	MW-B2	11/23/1993	23.35	50.77	7.26	43.51
MW-B3	7/8/1993	20.88	49.02	6.05	42.97	MW-B3	11/23/1993	20.88	49.02	6.18	42.84
MW-B4	7/8/1993	21.50	49.74	6.14	43.60	MW-B4	11/23/1993	21.50	49.74	6.38	43.36
MW-LD4	7/8/1993	10.60	51.51	7.18	44.33	MW-LD4	11/23/1993	10.60	51.51	7.32	44.19
MW-D1	7/8/1993	12.50	50.56	5.67	44.89	MW-D1	11/23/1993	12.50	50.56	6.08	44.48
MW-D2	7/8/1993	12.55	50.56	6.37	44.19	MW-D2	11/23/1993	12.55	50.56	6.44	44.12
MW-1	7/8/1993	22.00	53.89	7.70	46.19	MW-1	11/23/1993	22.00	53.89	7.92	45.97
MW-2	7/8/1993	22.60	54.06	9.04	45.02	MW-2	11/23/1993	22.60	54.06	9.21	44.85
MW-B1	8/24/1993	19.88	49.92	6.69	43.23	MW-B2	12/10/1998	23.35	50.77	6.43	44.34
MW-B2	8/24/1993	23.35	50.77	7.22	43.55	MW-B3	12/10/1998	20.88	49.02	4.94	44.08
MW-B3	8/24/1993	20.88	49.02	6.21	42.81	MW-B4	12/10/1998	21.50	49.74	6.20	43.54
MW-B4	8/24/1993	21.50	49.74	6.34	43.40	MW-LD4	12/10/1998	10.60	51.51	6.14	45.37
MW-LD4	8/24/1993	10.60	51.51	7.31	44.20	BES-1	12/10/1998	30.00	-	10.18	-
MW-D1	8/24/1993	12.50	50.56	6.01	44.55	MW-D2	12/10/1998	12.55	50.56	5.68	44.88
MW-D2	8/24/1993	12.55	50.56	6.47	44.09	MW-1	12/10/1998	22.00	53.89	7.08	46.81
MW-1	8/24/1993	22.00	53.89	7.70	46.19	MW-2	12/10/1998	22.60	54.06	9.54	44.52
MW-2	8/24/1993	22.60	54.06	9.24	44.82						
MW-B1	9/29/1993	19.88	49.92	8.46	41.46	MW-B2	12/14/1999	23.35	50.77	6.50	44.27
MW-B2	9/29/1993	23.35	50.77	8.80	41.97	MW-B3	12/14/1999	20.88	49.02	5.08	43.94
MW-B3	9/29/1993	20.88	49.02	7.74	41.28	MW-B4	12/14/1999	21.50	49.74	6.05	43.69
MW-B4	9/29/1993	21.50	49.74	7.97	41.77	MW-LD4	12/14/1999	10.60	51.51	6.52	44.99
MW-LD4	9/29/1993	10.60	51.51	7.43	44.08	BES-1	12/14/1999	30.00	-	10.98	-
MW-D1	9/29/1993	12.50	50.56	7.69	42.87	MW-D1	12/14/1999	12.50	49.35	4.60	44.75
MW-D2	9/29/1993	12.55	50.56	7.96	42.60	MW-D2	12/14/1999	12.55	50.56	5.80	44.76
MW-1	9/29/1993	22.00	53.89	7.84	46.05						
MW-2	9/29/1993	22.60	54.06	9.39	44.67	MW-B1	5/28/2003	19.88	49.92	5.5	44.42
						MW-B2	5/28/2003	23.35	50.77	6.4	44.37
						MW-B3	5/28/2003	20.88	49.02	5	44.02
						MW-B4	5/28/2003	21.5	49.74	6	43.74
						MW-BES1	5/28/2003	30	-	11.2	-

FIGURES



BES

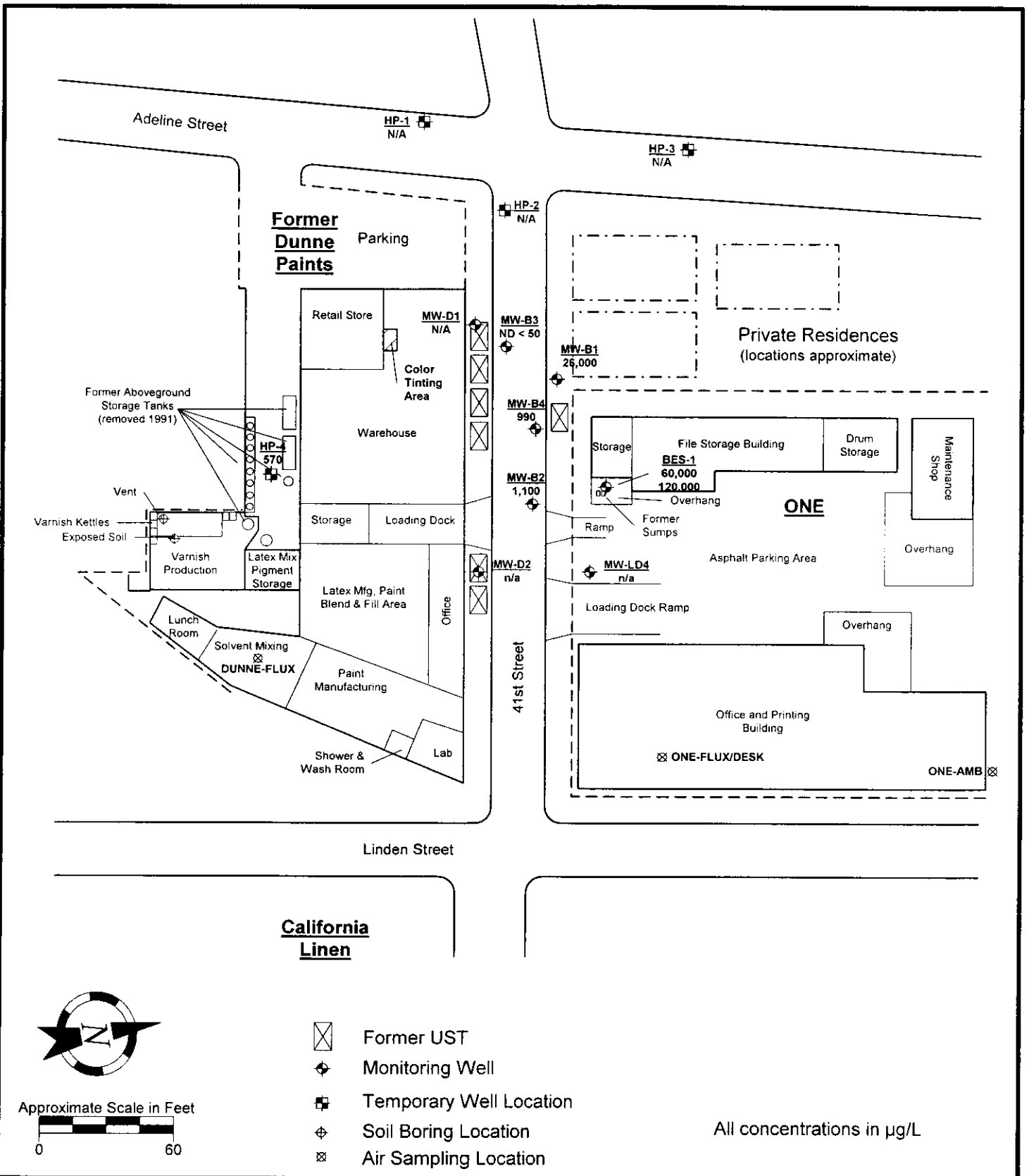
Block Environmental Services, Inc.
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax: 686-0399

Figure 1: Groundwater Well Locations

ONE/Former Dunne Paints
 41st Street at Adeline and Linden
 Oakland/Emerville, California

Project No. 9813

June 2003

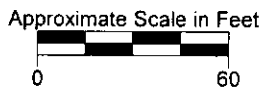
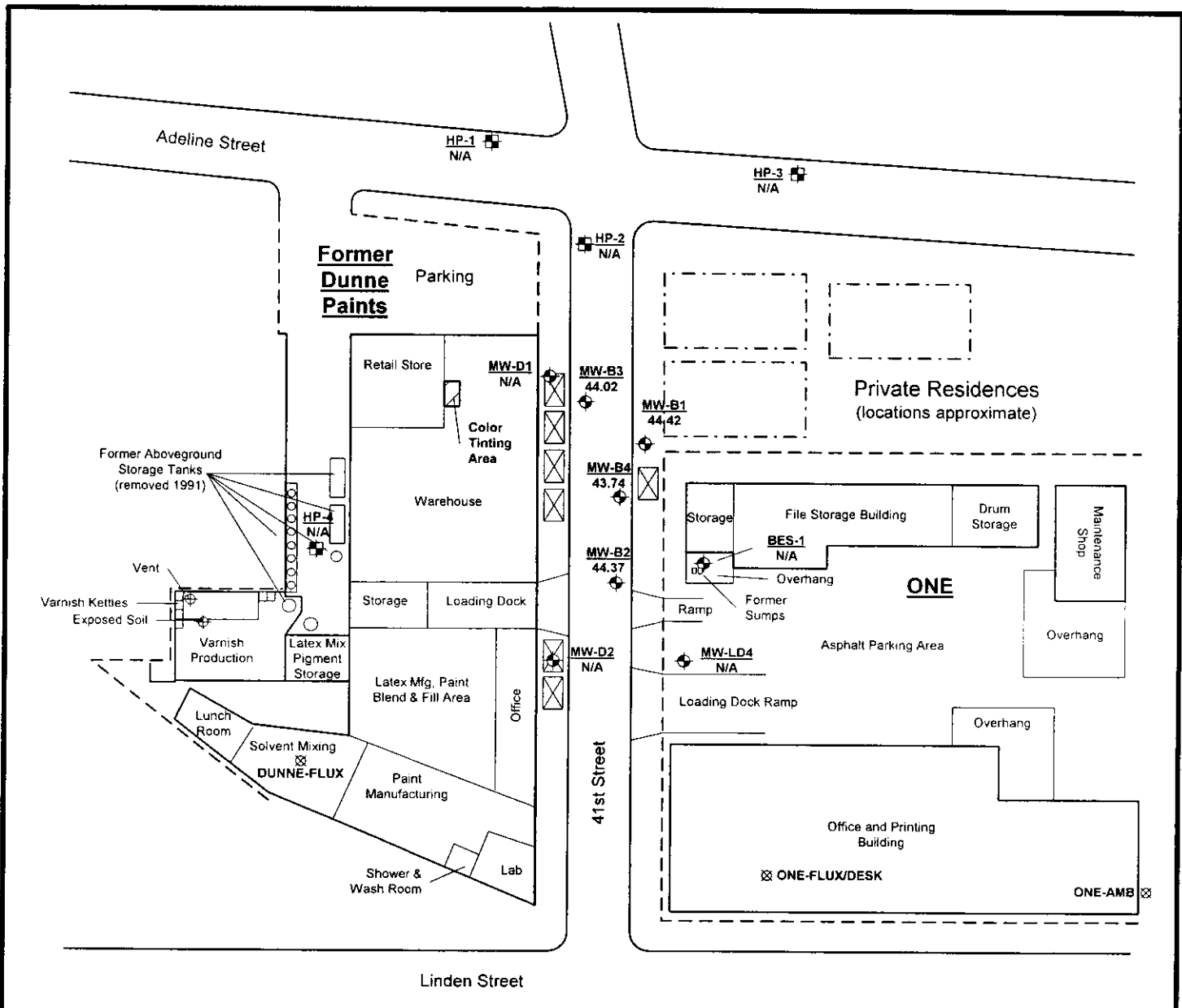


BES
 Block Environmental Services, Inc.
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax: 686-0399

Figure 2: Site Map with TPH-ms Concentrations in Groundwater Sampled May 28, 2003 and June 18, 2003

ONE/Former Dunne Paints
 41st Street at Adeline and Linden
 Oakland/Emerville, California

Project No. 9813	June 2003
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- ⊠ Former UST
- ⊕ Monitoring Well
- ⊞ Temporary Well Location
- ⊕ Soil Boring Location
- ⊗ Air Sampling Location

All measurements in feet

BES

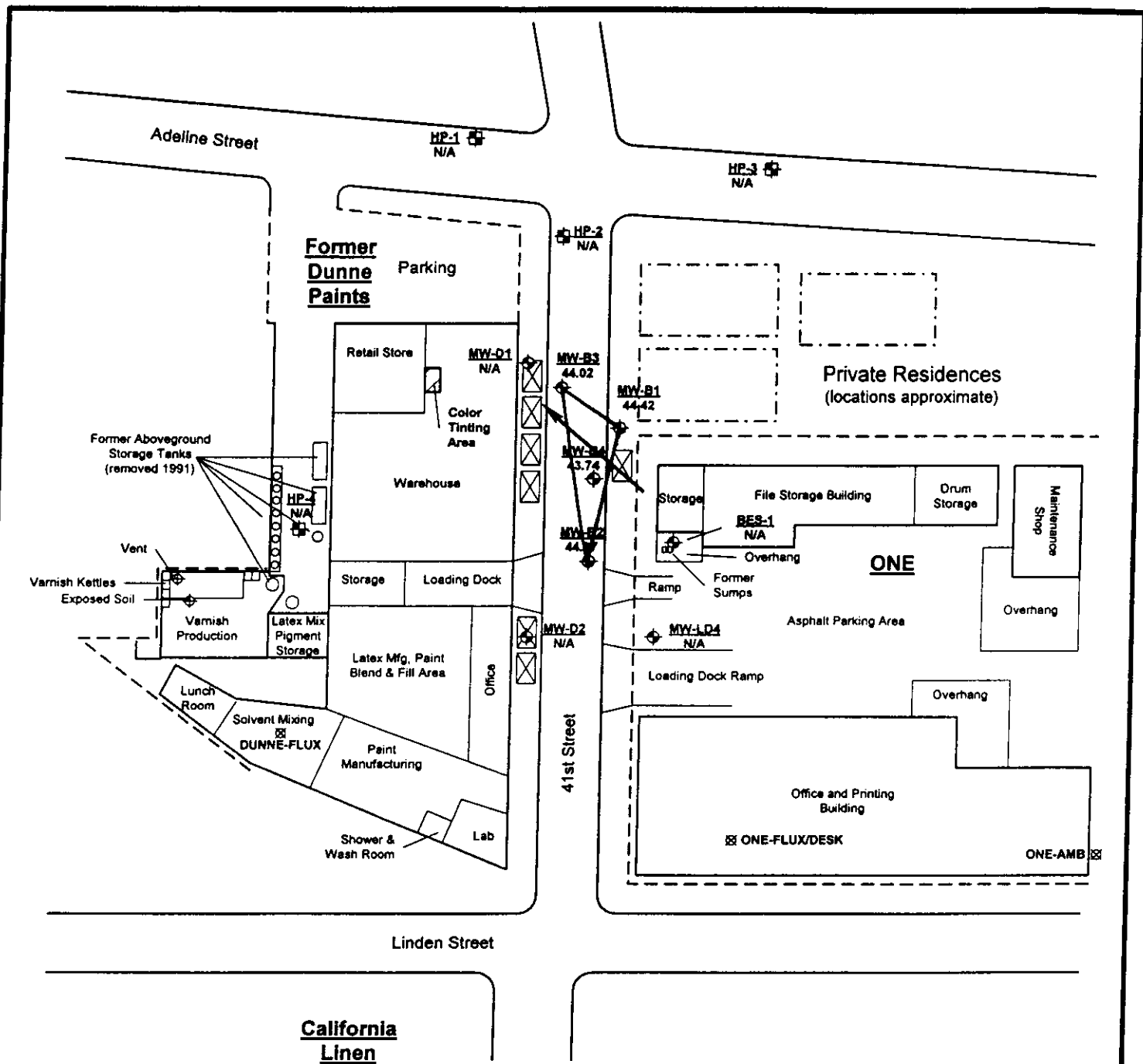
Block Environmental Services, Inc.
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax: 686-0399

**Figure 3: May 28, 2003
 Groundwater Elevations**

ONE/Former Dunne Paints
 41st Street at Adeline and Linden
 Oakland/Emerville, California

Project No. 9813

June 2003



- ☒ Former UST
- ⊕ Monitoring Well
- ⊕ Temporary Well Location
- ⊕ Soil Boring Location
- ⊗ Air Sampling Location

All measurements in feet

BES

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 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax: 686-0399

**Figure 4: May 28, 2003
 Groundwater Gradient**

ONE/Former Dunne Paints
 41st Street at Adeline and Linden
 Oakland/Emerville, California

Project No. 9813 June 2003

APPENDIX A



BLOCK ENVIRONMENTAL SERVICES
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax (925) 686-0399

WATER QUALITY SAMPLING INFORMATION

Project Name ONE

Well No. MWB1

Date 5-28-03 Sample No. _____

Samplers Name S. Castro, S. Stenehjem

Sampling Location 41st St., Emeryville

Sampling Method TPHg, TAl_d, TPHms, MTBE, VOC

Analyses Requested grab bailer

Number and Types of Sample Bottles Used 2-1L, 6x40mL

Method of Shipment _____

Purge Vol. = 6.90

GROUNDWATER

SURFACE WATER

Well Diameter (in.) 2"

Stream Width _____

Well Depth (ft.) ~~20~~ 19.88

Stream Depth _____

Depth to Water, Static 5.9

Stream Velocity _____

Height of Water Column in Well 14.9

Last Rain _____

Water Volume in Well 2.30

Well Volume Multipliers

2-inch = 0.16 gal/ft
 4-inch = 0.65 gal/ft

5-inch = 1.02 gal/ft
 6-inch = 1.47 gal/ft

Time	Depth to Water (ft)	Volume Withdrawn (gal)	Temp. (°C)	Salinity (ppt)	pH (S.U.)	COND (mhos/cm)	Remarks

Purging: 7 gal, trouble w/recharging, dirty + strong gas odor



BLOCK ENVIRONMENTAL SERVICES
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax (925) 686-0399

WATER QUALITY SAMPLING INFORMATION

Project Name ONE

Well No. MWB2

Date 5.28.03 Sample No. _____

Samplers Name S. Castro, S. Stenehjem

Sampling Location # 41st St, Emeryville

Sampling Method grab-bailor

Analyses Requested _____

Number and Types of Sample Bottles Used 2-1L, 6-~~100~~ 40mL w/HCL

Method of Shipment _____

Purge Vol = 8.24

GROUNDWATER

SURFACE WATER

Well Diameter (in.) 2"

Stream Width _____

Well Depth (ft.) 23.5

Stream Depth _____

Depth to Water, Static 6.4

Stream Velocity _____

Height of Water Column in Well 17.10 16.95

Last Rain _____

Water Volume in Well 2.74

Well Volume Multipliers

2-inch = 0.16 gal/ft
 4-inch = 0.65 gal/ft

5-inch = 1.02 gal/ft
 6-inch = 1.47 gal/ft

Time	Depth to Water (ft)	Volume Withdrawn (gal)	Temp. (°C)	Salinity (ppt)	pH (S.U.)	COND (mhos/cm)	Remarks

Purging: brown
airily at first then cloudy i gas odor, Sheen
1L, brown water



BLOCK ENVIRONMENTAL SERVICES
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax (925) 686-0399

WATER QUALITY SAMPLING INFORMATION

Project Name ONE Well No. MW B3

Date 5-28-03 Sample No. MWB3-1,2,3

Samplers Name S. Stenehjem, S. Castro

Sampling Location 41st

Sampling Method Grab bailor

Analyses Requested _____

Number and Types of Sample Bottles Used 2 = IL, 6 = UOA

Method of Shipment _____

Purge Vol = 7.62'

GROUNDWATER

SURFACE WATER

Well Diameter (in.) 2"

Stream Width _____

Well Depth (ft.) 20.88'

Stream Depth _____

Depth to Water, Static 5.00'

Stream Velocity _____

Height of Water Column in Well 15.88'

Last Rain _____

Water Volume in Well 2.54

Well Volume Multipliers

2-inch = 0.16 gal/ft 5-inch = 1.02 gal/ft
 4-inch = 0.65 gal/ft 6-inch = 1.47 gal/ft

Time	Depth to Water (ft)	Volume Withdrawn (gal)	Temp. (°C)	Salinity (ppt)	pH (S.U.)	COND (mhos/cm)	Remarks
12:00	5'						No odor

Purging: 8gal purge, brown at first then slight milky



BLOCK ENVIRONMENTAL SERVICES
 2451 Estand Way
 Pleasant Hill, CA 94523
 (925) 682-7200 Fax (925) 686-0399

WATER QUALITY SAMPLING INFORMATION

Project Name ONE

Well No. MWB4

Date 5.28.03 Sample No. _____

Samplers Name S. Castro, S. Stenehjem

Sampling Location 41st St.

Sampling Method Grab bailor

Analyses Requested TPHg, TPHms, TPHd, VOCs, MTBE

Number and Types of Sample Bottles Used 2x 1L, 6x 40mL

Method of Shipment _____

Purge Vol = 7.44

GROUNDWATER

SURFACE WATER

Well Diameter (in.) 2"

Stream Width _____

Well Depth (ft.) 21.5'

Stream Depth _____

Depth to Water, Static 6'

Stream Velocity _____

Height of Water Column in Well 15.5

Last Rain _____

Water Volume in Well 2.48

Well Volume Multipliers

2-inch = 0.16 gal/ft
 4-inch = 0.65 gal/ft

5-inch = 1.02 gal/ft
 6-inch = 1.47 gal/ft

Time	Depth to Water (ft)	Volume Withdrawn (gal)	Temp. (°C)	Salinity (ppt)	pH (S.U.)	COND (mhos/cm)	Remarks

Purging: 8 gal, ~~cloud~~ no color, ~~no~~ oil sheen, slight odor

APPENDIX B



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

Block Environmental 2451 Estand Way Pleasant Hill, CA 94523	Client Project ID: #One; Ground Water Monitoring	Date Sampled: 05/28/03
		Date Received: 05/29/03
	Client Contact: Ron Block	Date Extracted: 05/30/03-06/02/03
	Client P.O.:	Date Analyzed: 05/30/03-06/02/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0305444

Lab ID	0305444-001B
Client ID	MWB3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	5.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Xylenes	ND	1.0	0.5	Trichlorofluoromethane	ND	1.0	0.5
1,2,3-Trichloropropane	ND	1.0	0.5	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	5.0
Vinyl Chloride	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	100	%SS2:	103
%SS3:	103		

Comments:

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Block Environmental 2451 Estand Way Pleasant Hill, CA 94523	Client Project ID: #One; Ground Water Monitoring	Date Sampled: 05/28/03
	Client Contact: Ron Block	Date Received: 05/29/03
	Client P.O.:	Date Extracted: 05/30/03-06/02/03
		Date Analyzed: 05/30/03-06/02/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0305444

Lab ID	0305444-002B
Client ID	MWB4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	2.8	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	5.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Xylenes	ND	1.0	0.5	Trichlorofluoromethane	ND	1.0	0.5
1,2,3-Trichloropropane	ND	1.0	0.5	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	5.0
Vinyl Chloride	1.8	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	111	%SS2:	101
%SS3:	97.0		

Comments:

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Block Environmental 2451 Estand Way Pleasant Hill, CA 94523	Client Project ID: #One; Ground Water Monitoring	Date Sampled: 05/28/03
		Date Received: 05/29/03
	Client Contact: Ron Block	Date Extracted: 05/30/03-06/02/03
	Client P.O.:	Date Analyzed: 05/30/03-06/02/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0305444

Lab ID	0305444-003B
Client ID	MWB2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	3.2	1.0	0.5
tert-Butyl benzene	3.2	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	5.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Xylenes	ND	1.0	0.5	Trichlorofluoromethane	ND	1.0	0.5
1,2,3-Trichloropropane	ND	1.0	0.5	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	5.0
Vinyl Chloride	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	97.2	%SS2:	99.8
%SS3:	105		

Comments: h

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Block Environmental 2451 Estand Way Pleasant Hill, CA 94523	Client Project ID: #One; Ground Water Monitoring	Date Sampled: 05/28/03
	Client Contact: Ron Block	Date Received: 05/29/03
	Client P.O.:	Date Extracted: 05/30/03-06/02/03
		Date Analyzed: 05/30/03-06/02/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0305444

Lab ID	0305444-004B
Client ID	MWB1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2.5	5.0	5.0	Benzene	ND<2.5	5.0	0.5
Bromobenzene	ND<2.5	5.0	0.5	Bromochloromethane	ND<2.5	5.0	0.5
Bromodichloromethane	ND<2.5	5.0	0.5	Bromoform	ND<2.5	5.0	0.5
Bromomethane	ND<2.5	5.0	0.5	2-Butanone (MEK)	ND<5.0	5.0	1.0
n-Butyl benzene	ND<2.5	5.0	0.5	sec-Butyl benzene	ND<2.5	5.0	0.5
tert-Butyl benzene	23	5.0	0.5	Carbon Disulfide	ND<2.5	5.0	0.5
Carbon Tetrachloride	ND<2.5	5.0	0.5	Chlorobenzene	ND<2.5	5.0	0.5
Chloroethane	ND<2.5	5.0	0.5	2-Chloroethyl Vinyl Ether	ND<2.5	5.0	0.5
Chloroform	ND<2.5	5.0	0.5	Chloromethane	ND<2.5	5.0	0.5
2-Chlorotoluene	ND<2.5	5.0	0.5	4-Chlorotoluene	ND<2.5	5.0	0.5
Dibromochloromethane	ND<2.5	5.0	0.5	1,2-Dibromo-3-chloropropane	ND<2.5	5.0	0.5
1,2-Dibromoethane (EDB)	ND<2.5	5.0	0.5	Dibromomethane	ND<2.5	5.0	0.5
1,2-Dichlorobenzene	ND<2.5	5.0	0.5	1,3-Dichlorobenzene	ND<2.5	5.0	0.5
1,4-Dichlorobenzene	ND<2.5	5.0	0.5	Dichlorodifluoromethane	ND<2.5	5.0	0.5
1,1-Dichloroethane	ND<2.5	5.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND<2.5	5.0	0.5
1,1-Dichloroethene	ND<2.5	5.0	0.5	cis-1,2-Dichloroethene	ND<2.5	5.0	0.5
trans-1,2-Dichloroethene	ND<2.5	5.0	0.5	1,2-Dichloropropane	ND<2.5	5.0	0.5
1,3-Dichloropropane	ND<2.5	5.0	0.5	2,2-Dichloropropane	ND<2.5	5.0	0.5
1,1-Dichloropropene	ND<2.5	5.0	0.5	cis-1,3-Dichloropropene	ND<2.5	5.0	0.5
trans-1,3-Dichloropropene	ND<2.5	5.0	0.5	Ethylbenzene	ND<2.5	5.0	0.5
Hexachlorobutadiene	ND<2.5	5.0	0.5	2-Hexanone	ND<2.5	5.0	0.5
Iodomethane (Methyl iodide)	ND<2.5	5.0	5.0	4-Isopropyl toluene	ND<2.5	5.0	0.5
Isopropylbenzene	ND<2.5	5.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<2.5	5.0	0.5
Methylene chloride	ND<2.5	5.0	0.5	Methyl-t-butyl ether (MTBE)	ND<2.5	5.0	0.5
Naphthalene	ND<2.5	5.0	0.5	n-Propyl benzene	ND<2.5	5.0	0.5
Styrene	ND<2.5	5.0	0.5	1,1,1,2-Tetrachloroethane	ND<2.5	5.0	0.5
1,1,2,2-Tetrachloroethane	ND<2.5	5.0	0.5	Tetrachloroethene	ND<2.5	5.0	0.5
Toluene	ND<2.5	5.0	0.5	1,2,3-Trichlorobenzene	ND<2.5	5.0	0.5
1,2,4-Trichlorobenzene	ND<2.5	5.0	0.5	1,1,1-Trichloroethane	ND<2.5	5.0	0.5
1,1,2-Trichloroethane	ND<2.5	5.0	0.5	Trichloroethene	ND<2.5	5.0	0.5
Xylenes	ND<2.5	5.0	0.5	Trichlorofluoromethane	ND<2.5	5.0	0.5
1,2,3-Trichloropropane	ND<2.5	5.0	0.5	1,2,4-Trimethylbenzene	ND<2.5	5.0	0.5
1,3,5-Trimethylbenzene	ND<2.5	5.0	0.5	Vinyl Acetate	ND<2.5	5.0	5.0
Vinyl Chloride	ND<2.5	5.0	0.5				

Surrogate Recoveries (%)

%SS1:	92.3	%SS2:	105
%SS3:	109		

Comments: h

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Block Environmental 2451 Estand Way Pleasant Hill, CA 94523	Client Project ID: #One; Ground Water Monitoring	Date Sampled: 05/28/03
		Date Received: 05/29/03
	Client Contact: Ron Block	Date Extracted: 05/30/03-06/02/03
	Client P.O.:	Date Analyzed: 05/30/03-06/02/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0305444

Lab ID	0305444-005B
Client ID	MWBESI
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	4.4	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	1.5	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	17	1.0	0.5
trans-1,2-Dichloroethene	2.1	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	5.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Xylenes	ND	1.0	0.5	Trichlorofluoromethane	ND	1.0	0.5
1,2,3-Trichloropropane	ND	1.0	0.5	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	5.0
Vinyl Chloride	20	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	94.2	%SS2:	102
%SS3:	109		

Comments: h

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0305444

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7071			Spiked Sample ID: 0305411-002B			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	98.8	98	0.833	96.4	97.8	1.40	70	130
MTBE	10.82	10	94.8	87	3.89	97.9	99.3	1.41	70	130
Benzene	ND	10	92.7	90.9	1.92	91.9	91.8	0.138	70	130
Toluene	ND	10	97.2	96	1.30	96	96.8	0.807	70	130
Ethylbenzene	ND	10	98.2	97.1	1.14	96.7	97.3	0.604	70	130
Xylenes	ND	30	100	100	0	100	100	0	70	130
%SS:	101	100	101	99.7	1.00	99.8	99.9	0.0989	80	120

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

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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 = 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.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0305444

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7096			Spiked Sample ID: 0305463-002A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) ^E	ND	60	112	111	1.00	108	113	3.94	70	130
MTBE	ND	10	104	107	2.65	103	113	8.90	70	130
Benzene	ND	10	103	106	3.12	101	109	7.73	70	130
Toluene	ND	10	99.1	103	3.63	97.8	103	5.09	70	130
Ethylbenzene	ND	10	106	107	1.37	103	108	4.82	70	130
Xylenes	ND	30	107	107	0	100	107	6.45	70	130
%SS:	101	100	102	102	0	102	106	3.99	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 \cdot (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; RPD = $100 \cdot (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \cdot 2$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

^E 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 = 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.



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QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0305444

EPA Method: SW8015C		Extraction: SW3510C		BatchID: 7067			Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	93.1	94.2	1.17	70	130
%SS:	N/A	100	N/A	N/A	N/A	102	104	1.20	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0305444

EPA Method: SW8015C		Extraction: SW3510C		BatchID: 7094		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	99.7	99.6	0.115	70	130
%SS:	N/A	100	N/A	N/A	N/A	101	101	0	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



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 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0305444

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 7097		Spiked Sample ID: 0305444-001B				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	ND	10	111	110	1.20	107	110	2.46	70	130
Chlorobenzene	ND	10	108	109	1.44	108	112	3.50	70	130
1,1-Dichloroethene	ND	10	113	115	1.64	113	122	7.55	70	130
Methyl-t-butyl ether (MTBE)	ND	10	90.8	92.8	2.15	102	112	9.88	70	130
Toluene	ND	10	122	122	0	119	122	2.20	70	130
Trichloroethene	ND	10	97.6	96.4	1.18	96	97.5	1.53	70	130
%SS1:	100	100	102	102	0	102	102	0	70	130
%SS2:	103	100	101	101	0	99.9	100	0.320	70	130
%SS3:	103	100	108	108	0	102	103	0.890	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

McC Campbell Analytical Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0305444

Client:

Block Environmental
 2451 Estand Way
 Pleasant Hill, CA 94523

TEL: (925) 682-7200
 FAX: (925) 686-0399
 ProjectNo: #One; Ground Water Monitoring
 PO:

Date Received: 5/29/03

Date Printed: 5/29/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests					
					SW8015C	V8021B/8015C	SW8260B			
0305444-001	MWB3	Water	5/28/03 12:15:00 PM	<input type="checkbox"/>	A	A	B			
0305444-002	MWB4	Water	5/28/03 1:00:00 PM	<input type="checkbox"/>	A	A	B			
0305444-003	MWB2	Water	5/28/03 3:30:00 PM	<input type="checkbox"/>	A	A	B			
0305444-004	MWB1	Water	5/28/03 3:45:00 PM	<input type="checkbox"/>	A	A	B			
0305444-005	MWBES1	Water	5/28/03 4:05:00 PM	<input type="checkbox"/>	A	A	B			

Prepared by: _____

Comments:

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

2451 Estand Way
 Pleasant Hill, CA 94523-3911
 (925) 682-7200
 FAX (925) 686-0399

0305444

CHAIN OF CUSTODY

Company Name: <u>BLOCK ENVIRONMENTAL SERVICES</u>	Comments / Special Instructions:
Contact Name: <u>From BLOCK</u>	
Address: <u>SEE ABOVE</u>	
Phone: <u>SEE ABOVE</u>	
FAX: <u>SEE ABOVE</u>	
Project Name: <u>GROUND WATER MONITORING</u>	Turn Around Time:
Project Number: <u>ONE</u>	Send Invoice To: <u>BLOCK ENVIRONMENTAL SERVICES</u>
	P.O./Contract No:

Testing Required					
TPH P	TPH G	TPH MS	VOC	MTBE	
Check The Appropriate Box:					
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	

BES Lab Number	Client Sample Identification	Sample Information:			Container Information			
		Sampling Date	Sampling Time	Sample Type	Preservative	Type	Size	# of Containers
+ MW B3		5/28/03	1215	grab	NONE / HCl	AL / VOA	1L / 40ml	2 / 10
+ MW B4		5/28/03	1300	grab	NONE / HCl	AL / VOA	1L / 40ml	2 / 10
+ MW B2		5/28/03	1530	grab	NONE / HCl	AL / VOA	1L / 40ml	2 / 10
(+) MW B1		5/28/03	1545	grab	NONE / HCl	AL / VOA	1L / 40ml	2 / 10
+ 2 MW BES1		5/28/03	1605	grab	NONE / HCl	AL / VOA	1L / 40ml	2 / 10

Sample(s) Collected by (print): <u>SEBASTIAN CASTRO AND SARAH STEINERTEN</u>				Collectors' Signature: <u>S. Castro</u>			
Relinquished by: (Signature) <u>S. Castro</u>	DATE: <u>5/29/03</u>	TIME: <u>1005</u>	Received by: (Signature) <u>Maria Villar</u>				
Relinquished by: (Signature)	DATE:	TIME:	Received by: (Signature)				
Relinquished by: (Signature)	DATE:	TIME:	Received by: (Signature)				
Relinquished by: (Signature)	DATE:	TIME:	Received by: (Signature)				

PRESERVED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVATION CONDITION
 NO TRACE ABSENT
 DECONTAMINATED IN LAB

Logged by V.L.

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BES 1 WELL	06/18/2003 15:25	Water	1

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/30/2003 10:03

Page 1 of 9

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjerm

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Prep(s): 5030B Test(s): 8260B
 Sample ID: **BES 1 WELL** Lab ID: 2003-06-0615 - 1
 Sampled: 06/18/2003 15:25 Extracted: 6/25/2003 19:04
 Matrix: Water QC Batch#: 2003/06/25-01.09
 Analysis Flag: Irrn (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	25	ug/L	5.00	06/25/2003 19:04	
Acetone	ND	250	ug/L	5.00	06/25/2003 19:04	
Benzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Bromodichloromethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Bromobenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Bromochloromethane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Bromoform	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Bromomethane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
2-Butanone(MEK)	ND	250	ug/L	5.00	06/25/2003 19:04	
n-Butylbenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
sec-Butylbenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
tert-Butylbenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Carbon disulfide	ND	25	ug/L	5.00	06/25/2003 19:04	
Carbon tetrachloride	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Chlorobenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Chloroethane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
2-Chloroethylvinyl ether	ND	25	ug/L	5.00	06/25/2003 19:04	
Chloroform	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Chloromethane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
2-Chlorotoluene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
4-Chlorotoluene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Dibromochloromethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,2-Dichlorobenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,3-Dichlorobenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,4-Dichlorobenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,3-Dichloropropane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
2,2-Dichloropropane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,1-Dichloropropene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
1,2-Dibromoethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Dibromomethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	

Sewern Trent Laboratories, Inc.

06/30/2003 10:03

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Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Prep(s): 5030B Test(s): 8260B
 Sample ID: **BES 1 WELL** Lab ID: 2003-06-0615 - 1
 Sampled: 06/18/2003 15:25 Extracted: 6/25/2003 19:04
 Matrix: Water QC Batch#: 2003/06/25-01.09
 Analysis Flag: Irr (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,1-Dichloroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,2-Dichloroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,1-Dichloroethene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
cis-1,2-Dichloroethene	14	2.5	ug/L	5.00	06/25/2003 19:04	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,2-Dichloropropane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
cis-1,3-Dichloropropene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
trans-1,3-Dichloropropene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Ethylbenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Hexachlorobutadiene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
2-Hexanone	ND	250	ug/L	5.00	06/25/2003 19:04	
Isopropylbenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
p-Isopropyltoluene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Methylene chloride	ND	25	ug/L	5.00	06/25/2003 19:04	
4-Methyl-2-pentanone (MIBK)	ND	250	ug/L	5.00	06/25/2003 19:04	
Naphthalene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
n-Propylbenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Styrene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,1,1,2-Tetrachloroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Tetrachloroethene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Toluene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,2,3-Trichlorobenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
1,2,4-Trichlorobenzene	ND	5.0	ug/L	5.00	06/25/2003 19:04	
1,1,1-Trichloroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,1,2-Trichloroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Trichloroethene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Trichlorofluoromethane	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Trichlorotrifluoroethane	ND	2.5	ug/L	5.00	06/25/2003 19:04	
1,2,4-Trimethylbenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	

Severn Trent Laboratories, Inc.

06/30/2003 10:03

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Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Prep(s): 5030B Test(s): 8260B
 Sample ID: **BES 1 WELL** Lab ID: 2003-06-0615 - 1
 Sampled: 06/18/2003 15:25 Extracted: 6/25/2003 19:04
 Matrix: Water QC Batch#: 2003/06/25-01.09
 Analysis Flag: Irr (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	2.5	ug/L	5.00	06/25/2003 19:04	
Vinyl acetate	ND	130	ug/L	5.00	06/25/2003 19:04	
Vinyl chloride	18	2.5	ug/L	5.00	06/25/2003 19:04	
Total xylenes	ND	5.0	ug/L	5.00	06/25/2003 19:04	
Surrogates(s)						
4-Bromofluorobenzene	NA	86-115	%	5.00	06/25/2003 19:04	,bfb
1,2-Dichloroethane-d4	100.3	76-114	%	5.00	06/25/2003 19:04	
Toluene-d8	93.2	88-110	%	5.00	06/25/2003 19:04	

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/06/25-01.09-004

Water

Test(s): 8260B

QC Batch # 2003/06/25-01.09

Date Extracted: 06/25/2003 11:53

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	06/25/2003 11:53	
Acetone	ND	50	ug/L	06/25/2003 11:53	
Benzene	ND	0.5	ug/L	06/25/2003 11:53	
Bromodichloromethane	ND	0.5	ug/L	06/25/2003 11:53	
Bromobenzene	ND	1.0	ug/L	06/25/2003 11:53	
Bromochloromethane	ND	1.0	ug/L	06/25/2003 11:53	
Bromoform	ND	0.5	ug/L	06/25/2003 11:53	
Bromomethane	ND	1.0	ug/L	06/25/2003 11:53	
2-Butanone(MEK)	ND	50	ug/L	06/25/2003 11:53	
n-Butylbenzene	ND	1.0	ug/L	06/25/2003 11:53	
sec-Butylbenzene	ND	1.0	ug/L	06/25/2003 11:53	
tert-Butylbenzene	ND	1.0	ug/L	06/25/2003 11:53	
Carbon disulfide	ND	5.0	ug/L	06/25/2003 11:53	
Carbon tetrachloride	ND	0.5	ug/L	06/25/2003 11:53	
Chlorobenzene	ND	0.5	ug/L	06/25/2003 11:53	
Chloroethane	ND	1.0	ug/L	06/25/2003 11:53	
2-Chloroethylvinyl ether	ND	5.0	ug/L	06/25/2003 11:53	
Chloroform	ND	1.0	ug/L	06/25/2003 11:53	
Chloromethane	ND	1.0	ug/L	06/25/2003 11:53	
2-Chlorotoluene	ND	0.5	ug/L	06/25/2003 11:53	
4-Chlorotoluene	ND	0.5	ug/L	06/25/2003 11:53	
Dibromochloromethane	ND	0.5	ug/L	06/25/2003 11:53	
1,2-Dichlorobenzene	ND	0.5	ug/L	06/25/2003 11:53	
1,3-Dichlorobenzene	ND	0.5	ug/L	06/25/2003 11:53	
1,4-Dichlorobenzene	ND	0.5	ug/L	06/25/2003 11:53	
1,3-Dichloropropane	ND	1.0	ug/L	06/25/2003 11:53	
2,2-Dichloropropane	ND	0.5	ug/L	06/25/2003 11:53	
1,1-Dichloropropene	ND	0.5	ug/L	06/25/2003 11:53	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	06/25/2003 11:53	
1,2-Dibromoethane	ND	0.5	ug/L	06/25/2003 11:53	
Dibromomethane	ND	0.5	ug/L	06/25/2003 11:53	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/30/2003 10:03

Page 5 of 9

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/06/25-01.09-004

Water

Test(s): 8260B

QC Batch # 2003/06/25-01.09

Date Extracted: 06/25/2003 11:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	0.5	ug/L	06/25/2003 11:53	
1,1-Dichloroethane	ND	0.5	ug/L	06/25/2003 11:53	
1,2-Dichloroethane	ND	0.5	ug/L	06/25/2003 11:53	
1,1-Dichloroethene	ND	0.5	ug/L	06/25/2003 11:53	
cis-1,2-Dichloroethene	ND	0.5	ug/L	06/25/2003 11:53	
trans-1,2-Dichloroethene	ND	0.5	ug/L	06/25/2003 11:53	
1,2-Dichloropropane	ND	0.5	ug/L	06/25/2003 11:53	
cis-1,3-Dichloropropene	ND	0.5	ug/L	06/25/2003 11:53	
trans-1,3-Dichloropropene	ND	0.5	ug/L	06/25/2003 11:53	
Ethylbenzene	ND	0.5	ug/L	06/25/2003 11:53	
Hexachlorobutadiene	ND	1.0	ug/L	06/25/2003 11:53	
2-Hexanone	ND	50	ug/L	06/25/2003 11:53	
Isopropylbenzene	ND	0.5	ug/L	06/25/2003 11:53	
p-Isopropyltoluene	ND	1.0	ug/L	06/25/2003 11:53	
Methylene chloride	ND	5.0	ug/L	06/25/2003 11:53	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	06/25/2003 11:53	
Naphthalene	ND	1.0	ug/L	06/25/2003 11:53	
n-Propylbenzene	ND	1.0	ug/L	06/25/2003 11:53	
Styrene	ND	0.5	ug/L	06/25/2003 11:53	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	06/25/2003 11:53	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	06/25/2003 11:53	
Tetrachloroethene	ND	0.5	ug/L	06/25/2003 11:53	
Toluene	ND	0.5	ug/L	06/25/2003 11:53	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	06/25/2003 11:53	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	06/25/2003 11:53	
1,1,1-Trichloroethane	ND	0.5	ug/L	06/25/2003 11:53	
1,1,2-Trichloroethane	ND	0.5	ug/L	06/25/2003 11:53	
Trichloroethene	ND	0.5	ug/L	06/25/2003 11:53	
Trichlorofluoromethane	ND	1.0	ug/L	06/25/2003 11:53	
Trichlorotrifluoroethane	ND	0.5	ug/L	06/25/2003 11:53	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	06/25/2003 11:53	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	06/25/2003 11:53	

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/30/2003 10:03

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/06/25-01.09-004

Water

Test(s): 8260B

QC Batch # 2003/06/25-01.09

Date Extracted: 06/25/2003 11:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Vinyl acetate	ND	25	ug/L	06/25/2003 11:53	
Vinyl chloride	ND	0.5	ug/L	06/25/2003 11:53	
Total xylenes	ND	1.0	ug/L	06/25/2003 11:53	
Surrogates(s)					
4-Bromofluorobenzene	91.7	86-115	%	06/25/2003 11:53	
1,2-Dichloroethane-d4	101.8	76-114	%	06/25/2003 11:53	
Toluene-d8	97.1	88-110	%	06/25/2003 11:53	

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/06/25-01.09

LCS 2003/06/25-01.09-002

Extracted: 06/25/2003

Analyzed: 06/25/2003 10:12

LCSD 2003/06/25-01.09-003

Extracted: 06/25/2003

Analyzed: 06/25/2003 11:27

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.8	20.6	20.0	99.0	103.0	4.0	69-129	20		
Chlorobenzene	20.5	19.6	20.0	102.5	98.0	4.5	61-121	20		
1,1-Dichloroethene	21.3	19.9	20.0	106.5	99.5	6.8	65-125	20		
Toluene	20.0	20.5	20.0	100.0	102.5	2.5	70-130	20		
Trichloroethene	17.9	18.2	20.0	89.5	91.0	1.7	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	485	472	500	97.0	94.4		86-115			
1,2-Dichloroethane-d4	503	525	500	100.6	105.0		76-114			
Toluene-d8	481	486	500	96.2	97.2		88-110			

Volatile Organic Compounds by 8260B (Low Level)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Legend and Notes

Sample Comment

Lab ID: 2003-06-0615-1

bfb-Surrogate recovery for 4-Bromofluorobenzene cannot be reported due to matrix interference.

Analysis Flag

Im

Reporting limits raised due to high level of non-target analyte materials.

Gasoline

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BES 1 WELL	06/18/2003 15:25	Water	1

Gasoline

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Prep(s): 5030 Test(s): 8015M
Sample ID: **BES 1 WELL** Lab ID: 2003-06-0615 - 1
Sampled: 06/18/2003 15:25 Extracted: 6/20/2003 13:28
Matrix: Water QC Batch#: 2003/06/20-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5300	250	ug/L	5.00	06/20/2003 13:28	g
<i>Surrogates(s)</i>						
4-Bromofluorobenzene-FID	139.4	50-150	%	5.00	06/20/2003 13:28	

Gasoline

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 5030
Method Blank
MB: 2003/06/20-01.01-003

Water

Test(s): 8015M
QC Batch # 2003/06/20-01.01
Date Extracted: 06/20/2003 08:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/20/2003 08:16	
<i>Surrogates(s)</i>					
4-Bromofluorobenzene-FID	80.8	50-150	%	06/20/2003 08:16	

Gasoline

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399
Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/06/20-01.01

LCS 2003/06/20-01.01-006

Extracted: 06/20/2003

Analyzed: 06/20/2003 09:47

LCSD 2003/06/20-01.01-007

Extracted: 06/20/2003

Analyzed: 06/20/2003 10:17

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	512	521	500	102.4	104.2	1.7	75-125	20		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	500	498	500	100.0	99.6		50-150			

Severn Trent Laboratories, Inc.

06/20/2003 16:26

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

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gasoline

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Total Extractable Petroleum Hydrocarbons (TEPH)

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BES 1 WELL	06/18/2003 15:25	Water	1

Total Extractable Petroleum Hydrocarbons (TEPH)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	BES 1 WELL	Lab ID:	2003-06-0615 - 1
Sampled:	06/18/2003 15:25	Extracted:	6/20/2003 05:50
Matrix:	Water	QC Batch#:	2003/06/20-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	120000	1300	ug/L	25.00	06/26/2003 11:05	
<i>Surrogates(s)</i>						
o-Terphenyl	NA	60-130	%	25.00	06/26/2003 11:05	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2003/06/20-02.10-003

Water

Test(s): 8015M

QC Batch # 2003/06/20-02.10

Date Extracted: 06/20/2003 05:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	06/21/2003 20:19	
Mineral spirits	ND	50	ug/L	06/21/2003 20:19	
Surrogates(s)					
o-Terphenyl	95.3	60-130	%	06/21/2003 20:19	

Total Extractable Petroleum Hydrocarbons (TEPH)

Block Environmental
Attn.: Sarah Stenehjem

2451 Estand Way
Pleasant Hill, CA 94523
Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/06/20-02.10

LCS 2003/06/20-02.10-001

Extracted: 06/20/2003

Analyzed: 06/21/2003 18:58

LCSD 2003/06/20-02.10-002

Extracted: 06/20/2003

Analyzed: 06/21/2003 19:39

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	1190	1120	1250	95.2	89.6	6.1	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	22.8	21.6	20.0	114.0	108.0		60-130	0		

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/30/2003 09:51

Total Extractable Petroleum Hydrocarbons (TEPH)

Block Environmental

Attn.: Sarah Stenehjem

2451 Estand Way

Pleasant Hill, CA 94523

Phone: (925) 682-7200 Fax: (925) 686-0399

Project: ONE

Received: 06/19/2003 14:30

Legend and Notes

Result Flag

sd

Surrogate recovery not reportable due to required dilution.

BLUCK ENVIRONMENTAL SERVICES

2451 Estand Way

Pleasant Hill, CA 94523-3911

(925) 682-7200

FAX (925) 686-0399

2003-06-0615

Page ____ of ____

CHAIN OF CUSTODY

75290

Company Name: BES	Comments / Special Instructions: 6.0°
Contact Name: Sara Sarah Stenehjem	
Address: 2451 Estand Way Pleasant Hill, CA	
Phone: (925) 682-7200	
FAX:	
Project Name: ONE	Turn Around Time: 5-day standard
Project Number:	Send Invoice To: BES
	P.O./Contract No:

Testing Required				
TPH - gasoline	TPH - diesel	TPH - mineral spirit	VOC's (8260)	MTBE
Check The Appropriate Box:				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

BES Lab Number	Client Sample Identification	Sample Information:			Container Information			
		Sampling Date	Sampling Time	Sample Type	Preservative	Type	Size	# of Containers
	BES1 WELL	06/18/03	1525	GRAB	-	AL	1L	2
	BES1 WELL	06/18/03	1525	GRAB	HCl	VDA	40ml	6

Sample(s) Collected by (print): SEBASTIAN CASTRO AND				Collectors' Signature: <i>S. Castro</i>			
Relinquished by:	DATE:	TIME:	Received by:	DATE:	TIME:		
(Signature) <i>Meghan Stephens</i>	06/19/03	1040	(Signature) <i>[Signature]</i>	06.19.03	1040		
Relinquished by:	DATE:	TIME:	Received by:	DATE:	TIME:		
(Signature) <i>[Signature]</i>	6-19-03	1420	(Signature) <i>[Signature]</i>				
Relinquished by:	DATE:	TIME:	Received by:	DATE:	TIME:		
(Signature) <i>[Signature]</i>			(Signature) <i>Chowley</i>	1420	06/19/03		