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Го:	Eva Chu	Date:	March 6, 2003						
	Environmental Health								
		Subject:	Groundwater Monitoring Report						
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Тес	Technical Services Department								

1401 Lakeside Drive, 11th Floor Oakland, CA 94612

Tel. (510) 208-9522

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GROUNDWATER MONITORING REPORT FIRST QUARTER, 2003 ALCOPARK FUELING FACILITY OAKLAND, CALIFORNIA

Prepared for

ALAMEDA COUNTY GENERAL SERVICES AGENCY

1401 Lakeside Drive, 11th Floor Oakland, California

Prepared by

Professional Service Industries, Inc.

4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200

February 27, 2003 575-0G041

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

Information provided in this report, prepared by Professional Service Industries, Inc. (PSI), is intended exclusively for the use of Alameda County General Services Agency (ACGSA), for the evaluation of subsurface conditions as they pertain to the subject site. The professional services provided have been performed in accordance with practices generally accepted by other geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface investigations, there is no guarantee that the work conducted will identify any or all sources or locations of contamination.

This report is issued with the understanding that ACGSA is responsible for ensuring that the information contained herein is brought to the attention of the appropriate regulatory agency.

Frank R. Poss, REA Senior Hydrogeologist Brand **Surfield, RG** Project Geologist

BRAND W. BURFIEL

1. INTRODUCTION

Professional Service Industries, Inc. (PSI) was retained by the Alameda County General Services Agency (ACGSA) to perform groundwater monitoring at the ACGSA Alcopark Fueling Facility-Site No. 2 located at 165 13th Street, Oakland, California. The site location is presented on Figure 1.

The groundwater monitoring was prompted by a request by the Alameda County Health Care Services Agency (ACHCSA), which requested additional information on the extent of petroleum hydrocarbon impacted groundwater (ACHCSA, 1997a).

1.1 SCOPE OF WORK

The scope of work consisted of the following tasks:

- Measure the depth to water in the site wells and prepare a groundwater elevation map.
- · Determine the groundwater flow direction and gradient.
- Collect and chemically analyze groundwater samples from wells MW-1, MW-6 and MW-7.
- Prepare a report documenting the field procedures, analytical results, and conclusions regarding the site condition.

1.2 SITE BACKGROUND

The ACGSA operates two 10,000-gallon USTs at the Alcopark fueling station to fuel Alameda County vehicles. Three groundwater monitoring wells were installed at the site in March, 1989 to assess environmental conditions subsequent to the repair of a line leak at Dispenser No. 1. Initial sample results indicated the presence of BTEX in the groundwater. Subsequent sample results indicated the presence of TPH-G. Based on the analytical data, it was concluded that contaminants detected on-site had originated from a source area located upgradient of the site. Sampling activities were halted in 1992 pending investigation of an upgradient source (GSA, 1997).

In their letter dated May 30, 1997, the ACHCSA instructed ACGSA to resume groundwater monitoring at Alcopark (ACHCSA, 1997b). Sampling resumed in July, 1997. Analytical data from that sampling event indicated elevated TPH-G and BTEX concentrations in the downgradient well. MTBE was also detected. Additional samples

collected in October, 1997 provided similar results (GSA, 1997). In their letter dated September 11, 1997, the ACHCSA directed ACGSA to investigate the extent and stability of the plume.

To better define groundwater conditions downgradient of the USTs, two borings were drilled on March 23, 1998. A grab groundwater sample was collected from one of the borings, and Well MW-6 was installed in the other boring. One additional small-diameter groundwater monitoring well (MW-7) was installed by PSI in September, 1999 and the analytical results are presented in the PSI report dated October 14, 1999.

1.2.1 Storage Tank System Upgrades

In September of 1992, overfill protection, spill containment, and automatic tank gauging were installed on the two underground tanks. In July and August of 1996, additional upgrade work was done to comply with Title 23 of the California Code of Regulations. This included replacement of underground single-walled steel piping with double-wall fiberglass piping, and installation of dispenser sumps, piping sumps, and sump leak sensors (GSA, 1997).

2. GROUNDWATER MONITORING ACTIVITIES

A PSI representative performed groundwater-monitoring activities on February 10, 2003. The activities were performed in accordance with PSI standard procedures presented in Appendix A, and procedures described in an ACHCSA letter describing collection of samples without purging the wells (ACHCSA, 1997a).

2.1 Groundwater Elevation and Flow Direction

Prior to groundwater sampling, depth to groundwater was measured from the top of the well casings in monitoring wells MW-1, MW-4, and MW-5. The groundwater measurements were converted to groundwater elevations and the data plotted on a groundwater elevation map. A groundwater elevation map was prepared for February 10, 2002 (presented as Figure 2). The groundwater elevation data are presented in Table 1 and Appendix A.

PSI's interpretation of the groundwater elevation data indicates the groundwater is flowing to the east under a hydraulic gradient of 0.003. The flow direction is consistent with the flow direction determined for previous quarterly monitoring events.

2.2 Groundwater Sampling

Monitoring wells MW-1, MW-6, and MW-7 were sampled without purging, as requested in the ACHCSA letter dated September 11, 1997. The groundwater samples were collected with disposable polyethylene tubing equipped with a check valve. The groundwater samples were collected according to PSI's standard protocol, included in Appendix A, and were stored in an iced cooler through delivery to the analytical laboratory and maintained under Chain-of-Custody protocol.

To minimize the possibility of cross-contamination between sampling locations, most of the sampling equipment used is disposable. To further minimize the possibility of cross-contamination, the water sounder and all other reusable sampling equipment were cleaned with a non-phosphate detergent and rinsed twice with deionized water prior t their use in the next well.

3. LABORATORY ANALYSIS PROGRAM

The groundwater samples collected during this investigation were submitted to McCampbell Analytical, Inc. of Pacheco, California. McCampbell Analytical is a State of California Department of Health Services certified hazardous waste laboratory (Environmental Laboratory Accreditation Program #1644). A summary of the analytical methods is presented below.

The groundwater samples collected at the site were analyzed for the following constituents by the indicated methods:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) in accordance with Environmental Protection Agency (EPA) Method 8015-Modified.
- Volatile Organic Compounds by EPA Method 8260.

The samples were transported to the laboratory under Chain-of-Custody protocol. Copies of the chain of custody forms are included in Appendix B.

3.1 ANALYTICAL RESULTS

The analytical data is summarized in Table 1. Laboratory reports are presented in Appendix B.

VOCs and/or MTBE were detected in groundwater samples from all three groundwatermonitoring wells sampled for this monitoring event.

- TPH-G was detected only in Wells MW-1 (210 ug/l) and MW-6 (4,000 ug/l).
- Benzene was detected in Wells MW-1 (14 ug/l) and MW-6 (1,000 ug/l). The benzene concentrations have decreased in MW-1 and MW-6 since the previous sampling event. Figure 3 depicts the benzene concentration with time in MW-1, MW-6, and MW-7. Benzene concentrations have varied with time and have not shown a consistent overall trend.
- MTBE was detected in Wells MW-1 (11 ug/l), MW-6 (830 ug/l) and MW-7 (140 ug/l).
 Figure 4 depicts the MTBE concentration with time in MW-1, MW-6, and MW-7.
 MTBE concentrations have generally declined at the site since groundwater monitoring commenced.

- Additional VOCs, commonly associated with gasoline impacted groundwater, were detected in the groundwater samples. The maximum concentrations for each of the additional VOCs detected are presented below.
 - Naphthalene at 190 ug/L in MW-6
 - > 1,2,4 Trimethylbenzene at 14 ug/L in MW-1
 - Xylenes at 4.0 ug/L in MW-1
 - Tert-Amyl methyl ether (TAME) at 150 ug/L in MW-6

4. CONCLUSIONS

Based on the information presented in this report, the following conclusions have been reached:

- Groundwater elevations measured at the site range from approximately 14.83 to 14.94 feet above msl.
- Groundwater flow direction is to the east with a gradient of 0.003.
- The groundwater samples collected from wells MW-1, MW-6 and MW-7 contained measurable concentrations of TPH-G and/or VOCs with MTBE and benzene being the primary contaminants of concern. Concentrations are generally higher than the previous sampling event in MW-6 and lower in MW-1 and in MW-7.

REFERENCES

ACGSA, 1997, Request For Proposal (RFP) for Groundwater Services, December 2.

ACHCSA, 1997a, Workplan Request Letter to Mr. Rodman Freitag, September 11.

ACHCSA, 1997b, Continuation of Groundwater Monitoring Request, Letter to Mr. Jim DeVos, May 20.

ACHCSA, 1998, Quarterly Groundwater Monitoring Report Approval Letter, June 22.

Lawrence Livermore National Laboratory, 1995a, Recommendations to Improve the Cleanup Process for California's Leaking Underground Fuel Tanks, prepared for California State Water Resources Control Board, October 16.

Lawrence Livermore National Laboratory, 1995b, California Leaking Underground Fuel Tank Historical Case Analyses, prepared for California State Water Resources Control Board, November 16.

Lawrence Livermore National Laboratory, 1998, An Evaluation of MTBE Impacts to California Groundwater Resources, prepared for California State Water Resources Control Board, June 11.

Personal Communication, 1998, Mr. Rod Freitag of the Alameda General Services Agency, Discussion of the leak detection system at the Alcopark facility, April 15.

PSI, 2000, Quarterly Report, Alcopark Fueling Facility, prepared for Alameda GSA March 15, 2001.

USGS, 1980, Oakland West, California, topographic map.

TABLE 1 GROUNDWATER ELEVATION AND ANALYTICAL DATA, SITE NO. 2 ALCOPARK FUELING FACILITY OAKLAND, CALIFORNIA

	All concentrations in ug/l (PPB).									
	Groundwater									
Welt	Date	Elevation	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes		
W-MW1	3/21/89	12.2	ND	NA NA	21	3.9	0.4	4.5		
W-MW1	7/26/90	12.3	1,400	NA.	200	45	ND	53		
W-MW1	10/25/90	12.1	1,200	NA.	ND	7.3	2.2	46		
W-MW1	1/25/91	11.9	270	NA NA	23	1.5	ND ND	3,1		
1	ľ	i	230	NA NA	ND	ND	ND ND	ND		
W-MW1	4/25/91	11.8		NA NA	370	64	ND ND	120		
W-MW1	8/27/91	11.8	8,300		9.3	ND	7.8	32		
W-MW1	11/25/91	11.7	810	NA NA		16	21	42		
W-MW1	6/11/92	12.85	2,600	NA NB (450)	810	2,800	500	2,600		
W-MW1	7/16/97	14,36	19,000	ND (150)	1,400		590	2,800		
W-MW1	10/21/97	13,92	14,000	29	1,200	1,000 NS	NS NS	2,800 NS		
W-MW1	3/11/98	17.14	NS	NS ·	NS		l .			
W-MW1	4/1/98	17.14	ND (50)	6.3	5.4	ND (0.5)	ND (0.5)	0.82		
W-MW1	7/15/98	16.41	71	57	31	ND (0.5)	ND (0.5)	3,1		
W-MW1	10/22/98	15.62	5,100	360	520	140	250	950		
W-MW1	9/9/99	15,42	2,400	400	680	140	130	370		
W-MW1	1/18/00	14.49	4,100	180	420	11	210	350		
W-MW1	5/4/00	16.19	NS	NS	NS	NS	NS	NS		
W-MW1	8/22/00	15.34	9,400	410	1,200	130	410	920		
W-MW1	2/8/01	14,53	. NS	NS	NS	NS	NS	NS		
W-MW1	7/20/01	14.60	9,600	ND (50)	1,000	300	350	2,000		
W-MW1	2/18/02	15.08	1,500	ND (100)	260	6.5	2.8	49		
W-MW1	7/19/02	14.84	180	28	68	ND (1.7)	ND (1.7)	6.8		
W-MW1	2/10/03	14.83	210	11	14	0.75	ND (0.5)	4.0		
W-MW4	3/21/89	12.4	ND	NA	13	1.4	1.0	ND		
W-MW4	7/26/90	12.5	NA	NA	0.8	ND	ND	ND		
W-MW4	10/25/90	12.2	NA	NA ·	120	1.2	1.1	0.9		
W-MW4	1/25/91	12.0	NA	NA	230	2.8	1.2 ND	2.0 2.3		
W-MW4	4/25/91	13.0	170	NA NA	12 87	ND 1,3	0.8	2.3 0.8		
W-MW4 W-MW4	8/27/91 11/25/91	11.8 11.8	ND 1,400	NA NA	ND	1.7	8.6	3.6		
W-MW4	6/11/92	12,93	560	NA NA	150	1.8	1.8	1.1		
W-MW4	7/16/97	14.46	50	ND	ND	ND	ND	ND		
W-MW4	10/21/97	14.10	ND	ND	ND	ND .	ND	ND		
W-MW4	3/11/98	17.39	พร	NS	NS	NS NS	NS NS	NS ND (0.5)		
W-MW4	4/1/98	17.40	ND (50)	ND (5.0)	ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)		
W-MW4	7/15/98	16.92 15.75	ND (50) ND (50)	ND (5.0) ND (5.0)	ND (0.5) ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)		
W-MW4 W-MW4	10/22/98 9/9/99	15.75	NS (50)	NS NS	NS	NS NS	NS	NS		
W-MW4	1/18/00	14.32	NS	NS	NS	NS	NS	NS		
W-MW4	5/4/00	16.34	NS	NS	. NS	NS	NS	NS		
W-MW4	8/22/00	15.47	NS	NS	NS	NS	NS	NS NC		
W-MW4	2/8/01	14.73	NS	NS	NS	NS NS	NS Ne	NS Ne		
W-MW4	7/20/01	14.72	NS	NS	NS	NS NS	NS NS	NS NS		
W-MW4	2/18/02	15.05	NS	NS	NS NS	NS NS	NS NS	NS NC		
W-MW4	7/19/02	14.97	NS	NS	NS	NS NS	NS NS	NS NS		
W-MW4	2/10/03	14.94	NS	NS	NS	NS NS	NS	พอ		
w-MW5	3/21/89	12.2	ND	NA NA	ND	ND ND	ND ND	ND ND		
W-MW5	7/26/90	12.4 12.1	670 120	NA NA	0.8 13	ND	ND	ND		
W-MW5 W-MW5	10/25/90 1/25/91	11.9	120	NA	3.2	ND	ND	ND		
W-MW5	4/25/91	12.3	ND	NA NA	ND	ND	ND	ND		
W-MW5	8/27/91	11.5	ND	NA	20	ND	0.5	ND		
W-MW5	11/25/91	11.7	190	NA	2.7	ND	0.8	2.5		
W-MW5	6/11/92	12.85	150	NA	37	ND	ND ND	ND ND		
W-MW5	7/16/97	14.33	ND	22	ND ND	ND ND	ND ND	ND ND		
W-MW5 W-MW5	10/21/97 3/11/98	13.88 17.14	ND NS	14 NS	NS NS	NS	NS	NS		

TABLE 1 GROUNDWATER ELEVATION AND ANALYTICAL DATA, SITE NO. 2 ALCOPARK FUELING FACILITY OAKLAND, CALIFORNIA

All concentrations in ug/l (PPB).									
		Groundwater							
Well	Date	Elevation	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	
W-MW5	4/1/98	17,14	ND (50)	11	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW5	7/15/98	16.43	ND (50)	ND (5.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW5	10/22/98	15.60	ND (50)	ND (5.0)	NO (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW5	9/9/99	15.44	NS	NS	NS	NS	NS	NS	
W-MW5	1/18/00	14.67	NS	NS	N\$	NS	NS	NS	
W-MW5	5/4/00	16.18	NS	NS	NS	NS	NS	NS	
W-MW5	8/22/00	15.32	NS	NS	NS	NS	NS	NS	
W-MW5	2/8/01	14.53	NS	NS	NS	NS	NS	NS	
W-MW5	7/20/01	14.59	NS	NS	NS	NS	NS	NS	
W-MW5	2/18/02	14.94	NS	NS	NS	NS	NS	NS	
W-MW5	7/19/02	14.83	NS	NS	NS	NS	NS	NS	
W-MW5	2/10/03	14.83	NS	NS	NS .	NS	NS:	พร	
W-MW6	4/1/98	NA	740	4,600	9.8	3.2	3.0	15	
W-MW6	7/15/98	NA I	6,200	11,000	280	43	180	350	
W-MW6	7/15/98	NA	NA.	13.000	ND (500)	ND (500)	ND (500)	ND (500)	
W-MW6	10/22/98	NA	4,700	9,600	450	13	200	200	
W-MW6	10/22/98	NA	NA	9,100	470	ND (250)	ND (250)	ND (250)	
W-MW6	9/9/99	NA	6.600	3,700	2.500	43	310	250	
W-MW6	1/18/00	NA NA	3,500	4,600	800	ND (5.0)	40	13	
W-MW6	5/4/00	NA.	NS	NS	NS	NS	NS	NS	
W-MW6	8/22/00	NA NA	1,400	1,700	370	4.8	12	35	
W-MW6	2/8/01	NA NA	NS	NS	NS	NS	NS	NS	
W-MW6	7/20/01	NA I	1,100	800	240	2.9	2.3	3.4	
W-MW6	2/18/02	NA	1,500	570	260	ND (2.0)	11	4.3	
W-MW6	7/19/02	NA NA	1,800	800	1400	ND (50)	ND (50)	ND (50)	
W-MW6	2/10/03	NA NA	4,000	830	1000	ND (50)	ND (50)	ND (50)	
W-MW7	9/9/99	NA	92	1.200	1.6	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW7	1/18/00	NA	ND	2,100	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW7	5/4/00	NA.	140	1,100	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW7	8/22/00	NA NA	160	830	0.62	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW7	2/8/01	NA.	130	650	ND (0.5)	0.53	ND (0.5)	ND (0.5)	
W-MW7	7/20/01	NA	56	400	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW7	2/18/02	NA	ND (50)	200	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	
W-MW7	7/19/02	NA	ND (50)	300	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	
W-MW7	2/10/03	NA NA	ND (50)	140	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	
W-B1	3/23/98	NA	3,100	4,200	250	18	160	290	

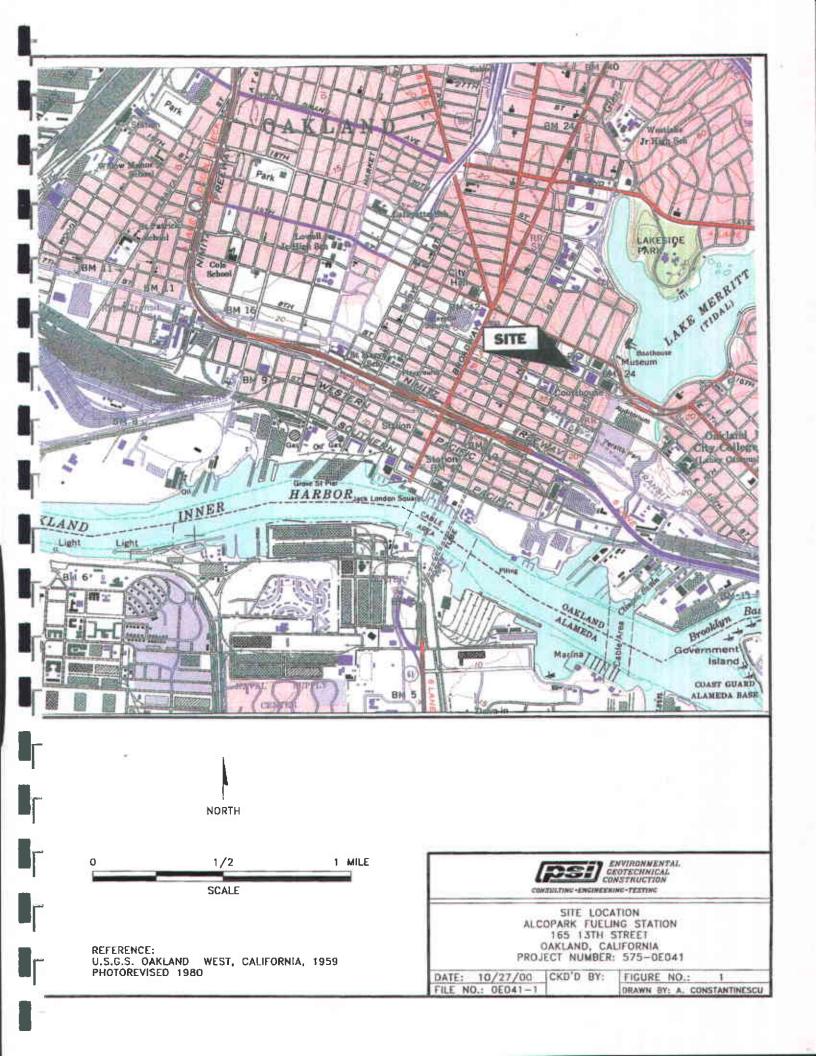
Notes:

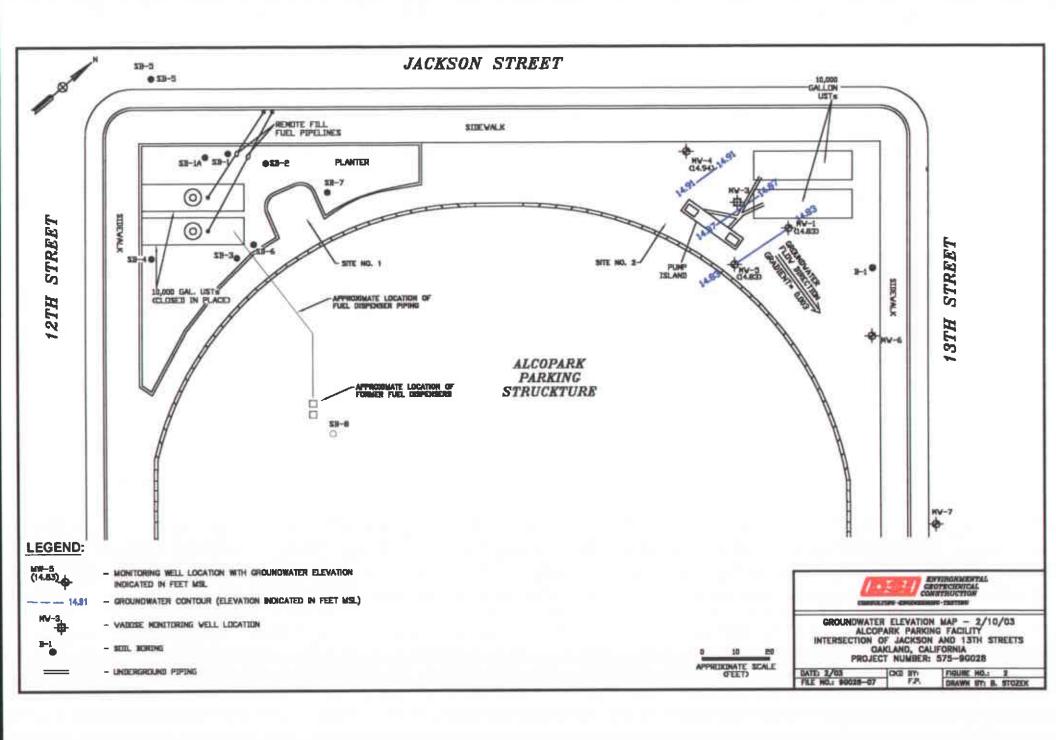
TPH-G denotes Total Petroleum Hydrocarbons as Gasoline. MTBE denotes Methyl tert-Butyl Ether.

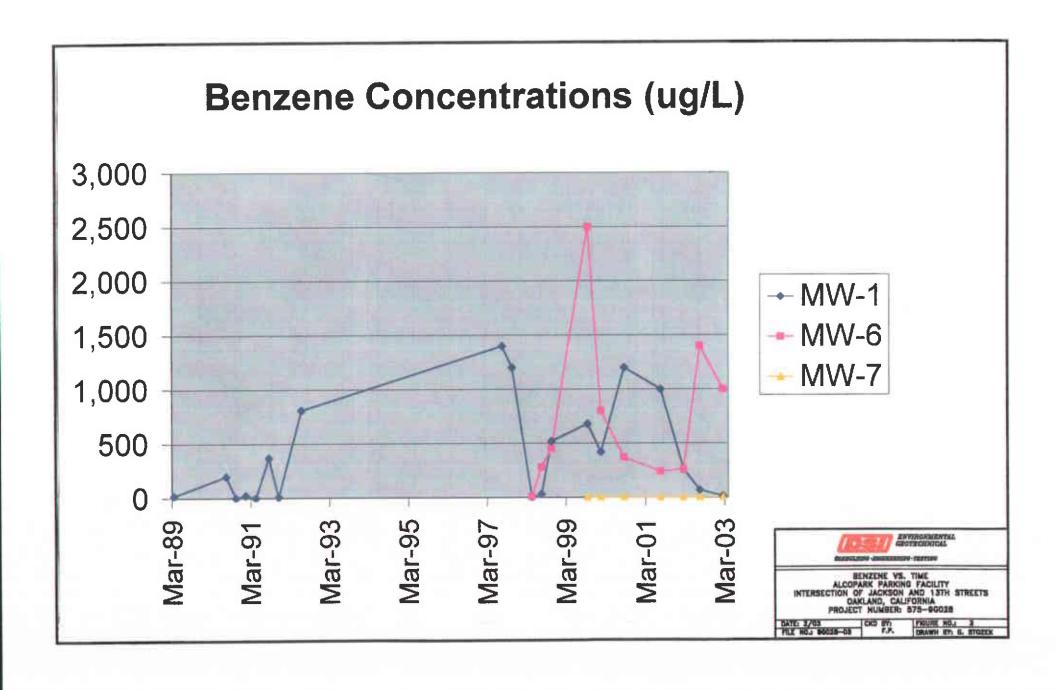
NA denotes Not Analyzed. NS denotes Not Sampled. ND denotes Not Detected. () denotes detection limit.

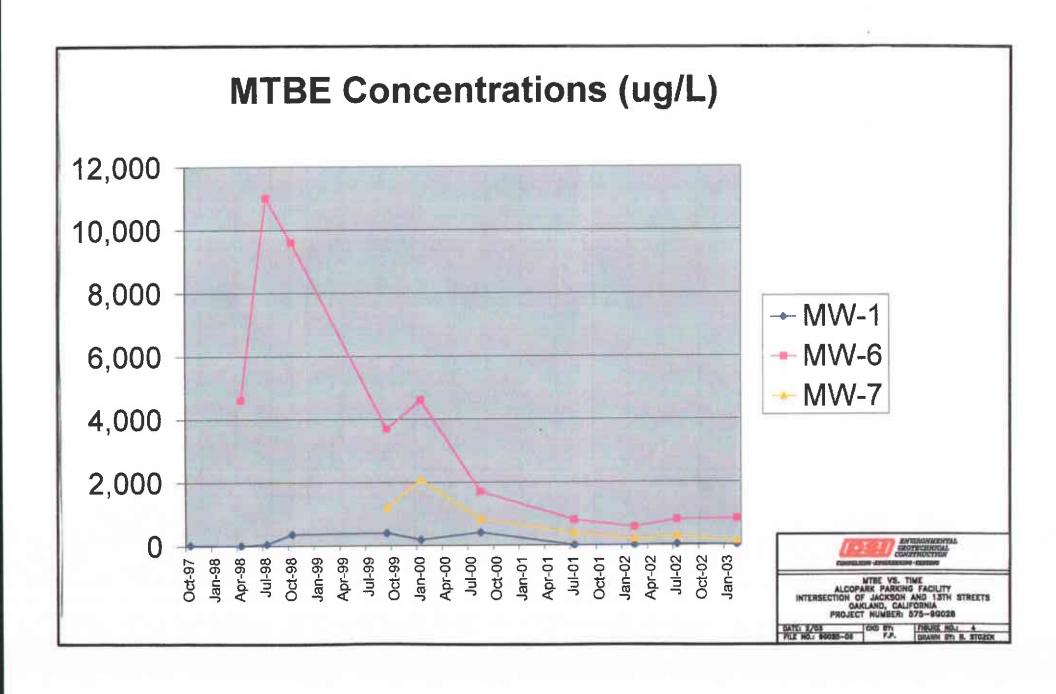
Data collected prior to 1998 was reported in Alameda County Request for Proposal dated December 2, 1997.

Duplicate results presented in italics performed by EPA method 8260.









APPENDIX A

GROUNDWATER SAMPLING FIELD PROCEDURES & WATER ELEVATIONS

APPENDIX A

GROUND-WATER SAMPLING

The following procedures will be used for ground water sampling:

- 1. All equipment shall be washed prior to entering the well with an Alconox solution, followed by two tap water rinses and a deionized water rinse.
- 2. Prior to purging wells, depth-to-water will be measured using an electronic sounder with an accuracy of approximately 0.01 foot. The measurements will be made to the top of the well casing on the north side.
- 4. Free floating product thickness and depth-to-ground water will be measured in wells containing free floating product using a Solinst oil-water interface probe to an accuracy of approximately 0.003 meters (0.01 foot). The measurements will be made to the top of the well casing on the north side.
- 5. Water samples will be collected with a Teflon disposable bailer. In the case of grab groundwater sampling, samples will be collected with a disposable Teflon lined plastic tube equipped with a check valve. The water collected will be immediately decanted into laboratory-supplied vials and bottles. The containers will be overfilled, capped, labeled, and placed in a chilled cooler, prior to delivery to the laboratory for analysis.
- 6. Chain of custody procedures, including chain of custody forms, will be used to document water sample handling and transport from collection to delivery to the laboratory for analysis.
- 7. Ground-water samples will be delivered to a State-certified hazardous waste laboratory within approximately 24 hours of collection.

FLUID MEASUREMENT FIELD DATA

,							SHEET:	OF {	
DATE: 2	10/03	PROJECT NAME:	Alamedo	C GSA - A	Ico park	PROJECT NO:			
WATER LEVEL N	EASUREMENT INS	TRUMENT:	Solinst		•	SERIAL NO:			
PRODUCT DETE	CTION INSTRUMEN	кт:				SERIAL NO:			
EQLIP. DECON: ALCONOX WASH DIST/DEION 1 RINSE ISOPROPANOL ANALYTE FREE FINAL RINSE TAP WATER FINAL RINSE									
☐ TAP WA	TER WASH	HEAW XONIUDIL (DIST/DEIC	N 2 RINSE 🔲	OTHER SOLVENT	☐ DIST/DEION	FINAL RINSE	☐ AIR DRY	
WELL	GROUND	TOP OF	DEPTH TO	DEPTH TO	WELL	PRODUCT	WATER	ACTUAL	
NUMBER	SURFACE	CASING	PRODUCT	WATER	DEPTH	THICKNESS	TABLE	TIME	
	ELEVATION	ELEVATION	BELOW TOC	BELOW TOC	BELOW TOC.		ELEVATION	10.17	
MW-				18.17				13:17	
MW-4				18.69				13:19	
mw-5				18.18				13:23	
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APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY

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McCampbell 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

Professional Service Industries	Client Project ID: #9G028; Alco Park	Date Sampled: 02/10/03		
4703 Tidewater Ave., Suite B		Date Received: 02/10/03		
0.11. 1 C4 04/01	Client Contact: Chris Merritt	Date Extracted: 02/11/03-02/13/03		
Oakland, CA 94601	Client P.O.:	Date Analyzed: 02/11/03-02/13/03		

raction method: SW5			Volatile Hydrocarbons as Gasoline* ical methods: 8015Cm	Work Order;	030216
Lab ID	Client ID	Matrix	TPH(g)	DF	% S
001A	MW-1	w	210,a	ı	94.
002A	MW-6	w	4000,a,i	10	10
003A	MW-7	W	ND,i	1	97.
7		*			
	nit for DF =1;	w	50	μ	g/L
	detected at or porting limit	S.	NA	7	NΑ

*water and vapor samples are reported in μg/L, soil and sludge samples in mg/kg, wipe samples in μg/wipe, and TCLP extracts in μg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

Angela Rydelius, Lab Manager

McCampbell Analytical Inc.

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Professional Service Industries	Client Project ID: #9G028; Alco Park	Date Sampled: 02/10/03
4703 Tidewater Ave., Suite B		Date Received: 02/10/03
0.11 1.04.04(01	Client Contact: Chris Merritt	Date Extracted: 02/13/03
Oakland, CA 94601	Client P.O.:	Date Analyzed: 02/13/03

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

Extraction Method: SW5030B	Analytical Method: SW8260B	Work Order: 0302102

Lab ID	0302102-001B							
Client ID	MW-1							
Matrix				Water				
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit	
Acetone	ND	1.0	5.0	tert-Amyl methyl ether (TAME)	2.6	1.0	0.5	
Benzene	14	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	t-Butyl alcohol (TBA)	12	1.0	5.0	
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			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	Diisopropyl ether (DIPE)	ND	1.0	0.5	
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5	
Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5	
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)		1.0	0.5	
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	0.60	1.0	0.5	
Naphthalene	13	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	0.75	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	
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5	
1,2,4-Trimethylbenzene	14			ND_	1.0	0.5		
Vinyl Acetate	ND			ND	1.0	0.5		
Xylenes	4.0	1.0	0.5					
		Sur	rogate R	ecoveries (%)				
%SS1:	118			%SS2:	98.9	9		
%SS3:	106							
	<u> </u>							

Comments:

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.



^{*} 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.

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Professional Service Industries	Client Project ID: #9G028; Alco Park	Date Sampled: 02/10/03		
4703 Tidewater Ave., Suite B		Date Received: 02/10/03		
O-1-1-1 CA 04601	Client Contact: Chris Merritt	Date Extracted: 02/13/03		
Oakland, CA 94601	Client P.O.:	Date Analyzed: 02/13/03		

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

	_		•	_	•
Extraction Method: SW5030B		Analy	tical Method: SW8260B		Work Order: 0302102

Extraction openiod: 3 w 3030B		nua.	Tytical tvic	uldu. 5W 0200B		Oraci. o.	JULIUZ								
Lab ID		0302102-002B MW-6													
Client ID				MW-6											
Matrix				Water											
Compound	Concentration *	DF	Reporting	Compound	Concentration *	DF	Reporting								
	ND<500	100	Limit 5.0	tert-Amyl methyl ether (TAME)	150	100	0.5								
Acetone Benzene	1000	100	0.5	Bromobenzene	ND<50	100	0.5								
	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5								
Bromochloromethane	ND<50	100	0.5	Bromomethane	ND<50	100	0.5								
Bromoform	ND<100	100	1.0	t-Butyl alcohol (TBA)	ND<500	100	5.0								
2-Butanone (MEK)		100	0.5	sec-Butyl benzene	ND<50	100	0.5								
n-Butyl benzene	ND<50 ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5								
tert-Butyl benzene		100	0.5		ND<50	100	0.5								
Carbon Tetrachloride	ND<50	100		Chlorobenzene 2-Chloroethyl Vinyl Ether	ND<50	100	0.5								
Chloroethane	ND<50		0.5		ND<50	100	0.5								
Chloroform	ND<50	100	0.5	Chloromethane			+								
2-Chlorotoluene	ND<50	100	0.5	4-Chlorotoluene	ND<50	100	0.5								
Dibromochloromethane	ND<50	100	0.5	1,2-Dibromo-3-chloropropane	ND<50	100									
1,2-Dibromoethane (EDB)	ND<50	100	0.5	Dibromomethane	ND<50	100	0.5								
1,2-Dichlorobenzene	ND<50	100	0.5	1,3-Dichlorobenzene	ND<50	100	0.5								
1,4-Dichlorobenzene	ND<50	100	0.5	Dichlorodifluoromethane	ND<50	100	0.5								
1,1-Dichloroethane	ND<50	100	0.5	1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5								
1,1-Dichloroethene	ND<50	100	0.5	cis-1,2-Dichloroethene	ND<50	100	0.5								
trans-1,2-Dichloroethene	ND<50	100	0.5	1,2-Dichloropropane	ND<50	100	0.5								
1,3-Dichloropropane	ND<50	100	0.5	2,2-Dichloropropane	ND<50	100	0.5								
1,1-Dichloropropene	ND<50	100	0.5	cis-1,3-Dichloropropene	ND<50	100	0.5								
trans-1,3-Dichloropropene	ND<50	100	0.5	Diisopropyl ether (DIPE)	ND<50	100	0.5								
Ethylbenzene	ND<50	100	0.5	Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5								
Hexachlorobutadiene	ND<50	.100	0.5	2-Нехапопе	ND<50	100	0.5								
Iodomethane (Methyl iodide)	ND<50	100	0.5	Isopropylbenzene	ND<50	100	0.5								
4-Isopropyl toluene	ND<50	100	0.5	Methyl-t-butyl ether (MTBE)	830	100	0.5								
Methylene chloride	ND<50	100	0.5	4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5								
Naphthalene	190	100	0.5	n-Propyl benzene	ND<50	100	0.5								
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5								
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	ND<50	100	0.5								
Toluene	ND<50	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5								
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5								
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	ND<50	100	0.5								
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5								
1,2,4-Trimethylbenzene	ND<50	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5								
Vinyl Acetate	ND<500	100	5.0	Vinyl Chloride	ND<50	100	0.5								
Xylenes	ND<50	100	0.5												
		Surr	ogate Re	coveries (%)											
%SS1:	110			%SS2:	99.4										
%SS3:	108														
C			-			777									

Comments: i

^{*} 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.

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ent Project ID: #9G028; Alco Park	Date Sampled:	02/10/03
	Date Received:	02/10/03
ient Contact: Chris Merritt	Date Extracted:	02/13/03
ient P.O.:	Date Analyzed:	02/13/03
i	ent Contact: Chris Merritt	Date Received: ent Contact: Chris Merritt Date Extracted:

Volatile Extraction Method: SW5030B	et List)* Work Order: 0302102											
Lab ID	0302102-003B MW-7											
Client ID												
Matrix												
Compound	Concentration *	Concentration *	DF	Reporting Limit								
Acetone	ND<50	10	5.0	tert-Amyl methyl ether (TAME)	7.1	10	0.5					
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5					
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5					
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5					
2-Butanone (MEK)	ND<10	10	1.0	t-Butyl alcohol (TBA)	ND<50	10	5.0					
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5					
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5					
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5					
Chloroethane	ND<5.0	10	0.5	2-Chloroethyl Vinyl Ether	ND<5.0	10	0.5					
Chloroform	ND<5.0	10	0.5	Chloromethane	ND<5.0	10	0.5					
2-Chlorotoluene	ND<5.0	10	0.5	4-Chlorotoluene	ND<5.0	10	0.5					
Dibromochloromethane	ND<5.0	10	0.5	1,2-Dibromo-3-chloropropane	ND<5.0	10	0.5					
1,2-Dibromoethane (EDB)	ND<5.0	10	0.5	Dibromomethane	ND<5.0	10	0.5					
1.2-Dichlorobenzene	ND<5.0	10	0.5	1,3-Dichlorobenzene	ND<5.0	10	0.5					
1,4-Dichlorobenzene	ND<5.0	10	0.5	Dichlorodifluoromethane	ND<5.0	10	0.5					
1.1-Dichloroethane	ND<5.0	10	0.5	1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5					
1,1-Dichloroethene	ND<5.0	10	0.5	cis-1,2-Dichloroethene	ND<5.0	10	0.5					
trans-1,2-Dichloroethene	ND<5.0	10	0.5	1,2-Dichloropropane	ND<5.0	10	0.5					
1,3-Dichleropropane	ND<5.0	10	0.5	2,2-Dichloropropane	ND<5.0	10	0.5					
1,1-Dichloropropene	ND<5.0	10	0.5	cis-1,3-Dichloropropene	ND<5.0	10	0.5					
trans-1,3-Dichloropropene	ND<5.0	10	0.5	Diisopropyl ether (DIPE)	ND<5.0	10	0.5					
Ethylbenzene	ND<5.0	10	0.5	Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5					
Hexachlorobutadiene	ND<5.0	10	0.5	2-Hexanone	ND<5.0	10	0.5					
Iodomethane (Methyl iodide)	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5					
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	140	10	0.5					
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5					
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5					
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5					
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5					
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5					
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5					
1.1.2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5					
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5					
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5					
Vinyl Acetate	ND<50	10	5.0	Vinyl Chloride	ND<5.0	10	0.5					
Xylenes	ND<5.0	10	0.5									
		Sur	rogate R	ecoveries (%)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
%SS1:	116		Ÿ	%SS2:	99.7							
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+			· · · · · · · · · · · · · · · · · · ·								

Comments: i

%SS3:

109

^{*} 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.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0302102

EPA Method: SW802	1B/8015Cm E	xtraction:	SW5030E	3	BatchID:	5847	\$	piked Sampl	e ID: N/A	
0	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Compound	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	109	111	2.20	80	120
MTBE	N/A	10	N/A	N/A	N/A	91.3	93	1.91	80	120
Benzene	N/A	10	N/A	N/A	N/A	104	108	3.61	80	120
Toluene	N/A	10	N/A	N/A	N/A	105	-109	3.50	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	104	108	3.51	80	120
Xylenes	N/A	30	N/A	N/A	N/A	110	113	2.99	80	120
%SS:	N/A	100	N/A	N/A	N/A	88.8	89.4	0.686	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.

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.

% 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.

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QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0302102

EPA Method: SW8260B	E	xtraction:	SW5030B	ı	BatchID:	5837	s			
0	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Compound	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Вепzеле	N/A	10	N/A	N/A	N/A	102	100	1.71	70	130
tert-Amyl methyl ether (TAME)	N/A	10	N/A	N/A	N/A	105	103	2.30	70	130
Chlorobenzene	N/A	10	N/A	N/A	N/A	97.9	97.8	0.0676	70	130
1,1-Dichloroethene	N/A	10	N/A	N/A	N/A	93.1	96.4	3.42	70	130
Methyl-t-butyl ether (MTBE)	N/A	10	N/A	N/A	N/A	93.9	87.6	6.91	70	130
Toluene	N/A	10	N/A	N/A	N/A	104	105	1.11	70	130
Trichloroethene	N/A	10	N/A	N/A	N/A	91.9	90.2	1.86	70	130
Diisopropyl ether (DIPE)	N/A	10	N/A	N/A	N/A	97.9	95.5	2.51	70	130
Ethyl tert-butyl ether (ETBE)	N/A	10	N/A	N/A	N/A	103	99.9	3.37	70	130
%SS1:	N/A	100	N/A	N/A	N/A	100	96.5	3.83	70	130
%SS2:	N/A	100	N/A	N/A	N/A	99.6	100	0.577	70	130
%SS3:	N/A	100	N/A	N/A	N/A	105	105	0.489	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

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.

[%] 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.

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	McCAM					Ll	NC	7																F (ľÒ	D)	Ϋ́	E		R	D		
	1	10 2 nd AV PACHEC													TURN AROUND TIME																			(3)	
T'elephon	ie: (925) 798		,		Fax: (925) 798-1622										~ ~~	RUSH 24 HR 48 HR DF Required? Way Yes 🖳 No							IR	7	72 HR	5 DAY									
		\02	2											4	EJ.) [·]	Ke	qui								<u> 10</u>									
	MERRITY	KOD (-E	JETHC L	III Te	III To: ROO FEIETAL								- -						Ana	lysi	s R	equ	est	1				·	<u> </u>		ier	_	Comn	ients	
Company: PSI					ALAMEDA GSA								1		9	1					1	!						ATES			ĺ				
1703TIDE NO	TTER AVI	57 <u>E</u>	3	n Nø-	28.										田	ļ	F/Bc		ļ						0		1		1						
OARLAND, CA Tele: (510) 434-9	34661		<u> </u>	I-Ma ax:			•								8015/WTEE		Grease (5520 E&F/B&F)	<u>-</u>		ĺ			ļ		8310]	150					
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