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July 22, 2002

ICES 2262

ICES
Innovative & Creative
Environmental Solutions

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Supplementary Site Investigation
Marina Cove Subdivision
Alameda, California

Dear Eva:

At the request of KB Homes ("the Client"), Innovative and Creative Environmental Solutions (ICES) conducted a supplementary site investigation at the Park Parcel of the Marina Cove Subdivision in Alameda, California ("the Site"; Figure 1).

OBJECTIVE

The purpose of the supplementary site investigation activities was to delineate the extent of the volatile organic compounds (VOCs) that were previously encountered in soil samples TR-1 and TR-2. The soil samples were collected from a trench which was located at the western portion of the Site.

SAMPLING ACTIVITIES

Sampling activities consisted of collecting soil and grab groundwater samples from four boring locations. Borings B-1 and B-2 were located north to northeast of the trench and downgradient of samples TR-1 and TR-2; boring B-3 was located within the trench adjacent to sample TR-1; and boring B-4 was located south to southwest of the trench and upgradient of samples TR-1 and TR-2. The approximate boring locations are shown in Figure 2.

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Marina Cove Subdivision
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Soil samples were collected from the borings at depths of approximately 3 feet and 6 feet below the existing ground surface (bgs) by driving a sampler containing vinyl acetate tubing using a power probe. The soil samples were also screened for volatile compounds using a portable photoionization detector (PID). Grab groundwater samples were also collected from the four boring locations using hydropunches. Hollow diameter PVC screen at the bottom of the casing was advanced to approximately 2 feet below the first permeable zone. The casing was retracted approximately 4 feet to allow infiltration of groundwater. A groundwater sample was collected from each hydropunch by lowering a Teflon bailer through the hollow casing. The sample was transferred into 40-ml VOA vials and 100-ml polyethylene bottles.

The filled vinyl acetate tubes, VOA vials, and polyethylene bottles were immediately capped, sealed, labeled, and placed in a chilled cooler containing crushed ice for transportation to the laboratory. Proper documentation and field chain-of-custody procedures were followed.

The borings were backfilled with cement grout upon completion of the sampling activities. All equipment used during this investigation which might have come into contact with contaminated materials was thoroughly decontaminated before and after each use. This was accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with deionized or distilled water.

FIELD OBSERVATIONS

The Site was generally underlain by a brown sandy clay to the total depth of the borings at approximately 10 feet bgs. Groundwater was encountered at a depth of 6.5 bgs.

The surficial sediments at the Site were neither stained nor discolored. Additionally, no odor was detected from the soil samples. PID readings of 0 parts-per-million (ppm) were recorded for the soil samples (Table 1).



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LABORATORY ANALYSIS

The soil and grab groundwater samples were sent to McCampbell Analytical Inc. of Pacheco, California, a state-certified laboratory, and selectively analyzed for:

- VOCs using EPA Method 8260; and
- pH using EPA Method 9045.

The samples were analyzed on a 72-hour rush turnaround basis.

LABORATORY ANALYTICAL RESULTS

The laboratory analytical results are summarized in Tables 2 and 3. Laboratory certificates are also attached. The results are as follows:

Laboratory analysis of the soil samples indicated that:

- pH levels ranged from 6.52 to 7.86.
- 2-butanone concentrations ranged from less than 0.010 mg/kg (not detected) to 0.012 mg/kg.
- The remaining VOC concentrations analyzed using EPA Method 8260 were below their respective detection limits.

Analysis of groundwater samples indicated that:

- pH levels ranged from 6.45 to 6.67.
- Chloroform concentrations ranged from less than 0.5 µg/l (not detected) to 8.9 µg/l.
- 1,1-dichloroethane concentrations ranged from less than 0.5 µg/l (not detected) to 1.3 µg/l.
- 2-butanone concentrations ranged from 1.3 µg/l to 2.4 µg/l.

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- Carbon disulfide concentrations ranged from less than 0.5 µg/l (not detected) to 2.4 µg/l.
- 1,2-dichloroethane (1,2-DCA) concentrations ranged from less than 0.5 µg/l (not detected) to 3.6 µg/l.
- Methyl tertiary-butyl ether (MTBE) concentrations ranged from less than 0.5 µg/l (not detected) to 6.3 µg/l.
- The remaining VOC concentrations analyzed using EPA Method 8260 were below their respective detection limits.

DISCUSSION

Laboratory analytical results indicated that soil samples contained non-detectable concentrations of VOCs, with the exception of sample B-1A. B-1A contained a detectable concentration of 2-butanone of 0.012 mg/kg, which was below the California Regional Water Quality Control Board's Risk-Based Screening Level (RWQCB RBSL) of 13 mg/kg¹ for residential soil. pH levels detected in the soil samples ranged from 6.52 to 7.86.

The grab groundwater samples collected contained non-detectable to low concentrations of chloroform, 1,1-dichloroethane, 2-butanone, carbon disulfide, 1,2-DCA, and MTBE. pH levels ranged from 6.64 to 6.67. The detectable concentrations of chloroform, 1,1-dichloroethane, 2-butanone, 1,2-DCA, and MTBE contained in the grab groundwater samples are significantly below the RWQCB RBSLs for surface groundwater (Table 4). Carbon disulfide contained in the grab groundwater samples were below the U.S. Environmental Protection Agency Region IX Preliminary Remediation Goal for tap water of 1,000 µg/l.

¹ RBSL is based on the cleanup level intended for vadose-zone soils in residential landuse areas where drinking water resources are not considered threatened.

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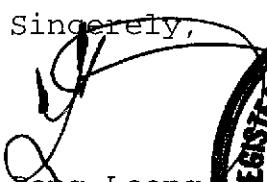
Based on the laboratory analytical results of this investigation, it appears that the surficial soil and groundwater within the western portion of the Site contain VOC concentrations which are considered to be non-hazardous in the State of California. We recommend that no further action be required and are requesting closure of the site mitigation activities for the sulfuric acid cleanup conducted at the Site.

EXCLUSIONS

ICES assumes no responsibility or liability for the reliance hereon or use hereof of information contained in this report by anyone other than the party to whom it is addressed. The evaluations and recommendations presented in this report are based on the limited site investigation results available at this time and could be revised if new information necessitating further review of the Site becomes available.

If you have any questions or comments, please do not hesitate to contact Derek Wong or me.

Sincerely,


Peng Leong
Principal Engineer



Enclosure

cc: Mr. Joe Sordi, KB Homes



TABLE 1

PID READINGS
Marina Cove Subdivision
Alameda, California

(concentrations expressed in parts-per-million)

Sample ID	Depth (feet)	PID Reading
B-1A	3.0	0
B-1B	6.0	0
B-2A	3.0	0
B-2B	6.0	0
B-3A	3.0	0
B-3B	6.0	0



TABLE 2

SOIL SAMPLE RESULTS
Marina Cove Subdivision
Alameda, California

(concentrations are expressed in mg/kg)

Sample ID	Depth (feet)	2-Butanone	pH
B-1A	3.0	0.012	6.52
B-2A	3.0	ND < 0.010	7.86
B-3A	3.0	ND < 0.010	7.60
B-4A	3.0	ND < 0.010	7.44

ND Not Detected

Note:

1. The remaining volatile organic compounds analyzed using EPA Method 8260 were below their respective detection limits.

TABLE 3

GROUNDWATER SAMPLE RESULTS
Marina Cove Subdivision
Alameda, California

(concentrations are expressed in ug/l)

Sample ID	Chloroform	1,1-Dichloroethane	2-Butanone	Carbon Disulfide	1,2-DCA	MTBE	pH
B-1W	8.9	ND < 0.5	2.0	ND < 0.5	ND < 0.5	ND < 0.5	6.45
B-2W	ND < 0.5	ND < 0.5	1.3	2.4	3.6	ND < 0.5	6.67
B-3W	7.7	1.3	1.7	0.86	ND < 0.5	6.3	6.64
B-4W	5.4	ND < 0.5	2.4	0.55	ND < 0.5	ND < 0.5	6.64

ND Not Detected

Note:

1. The remaining volatile organic compounds analyzed using EPA Method 8260 were below their respective detection limits.

TABLE 4

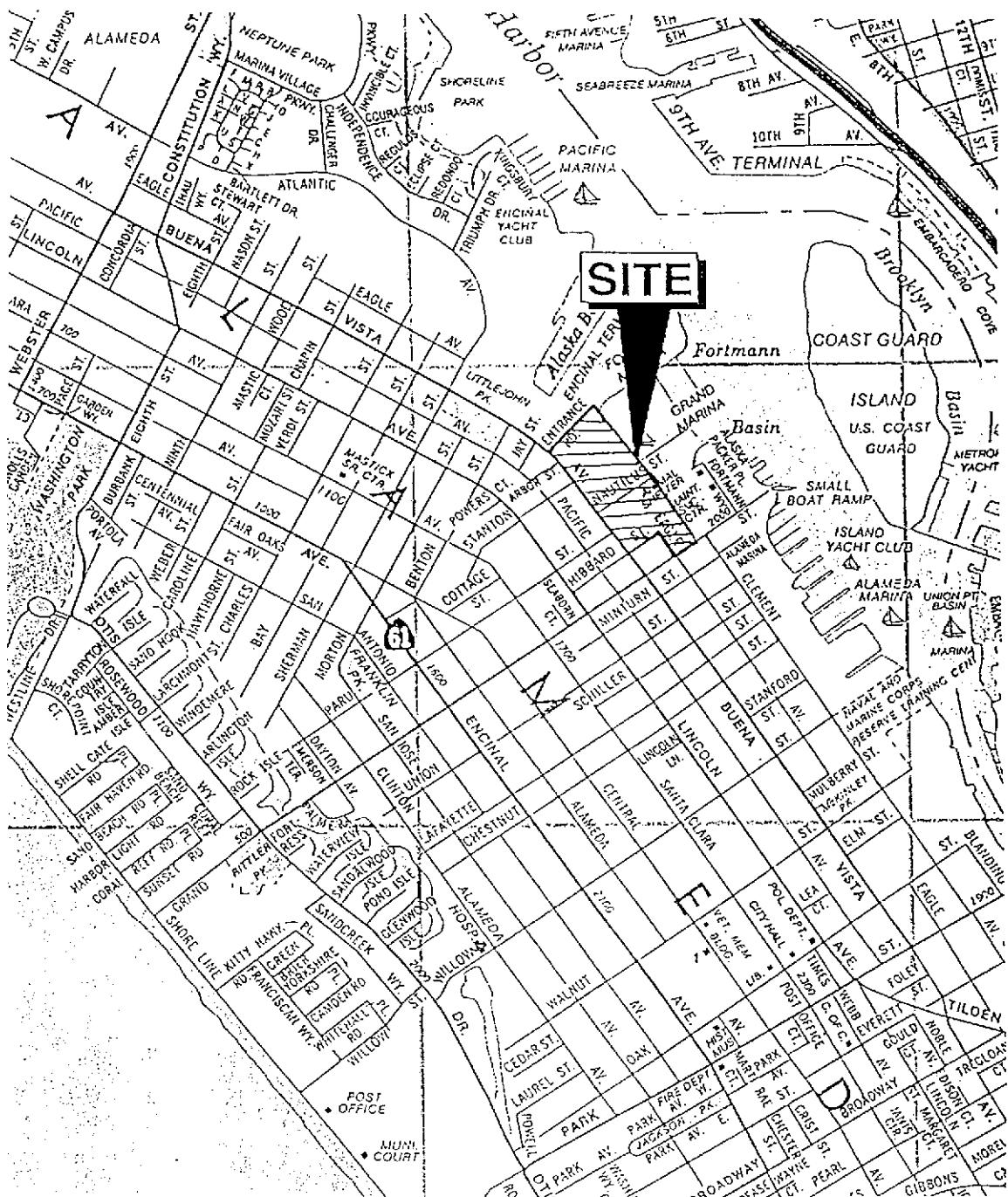
GROUNDWATER RISK-BASED SCREENING LEVELS

Marina Cove Subdivision
Alameda, California

Analyte	RBSL ¹ ($\mu\text{g/l}$)
Chlorofrom	28
1,1-Dichloroethane	47
2-Butanone	14,000
Carbon Disulfide ²	1,000
1,2-DCA	910
MTBE	1,800

Notes:

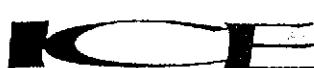
1. RBSLs presented above are based on cleanup levels where drinking water resources are not considered threatened.
2. No RBSL cleanup level listed by RWQCB. U.S. Environmental Protection Agency Region IX Preliminary Remediation Goal for tap water was adopted.



MAP SOURCE :
CSAA

Scale: 1" : ± 1320'

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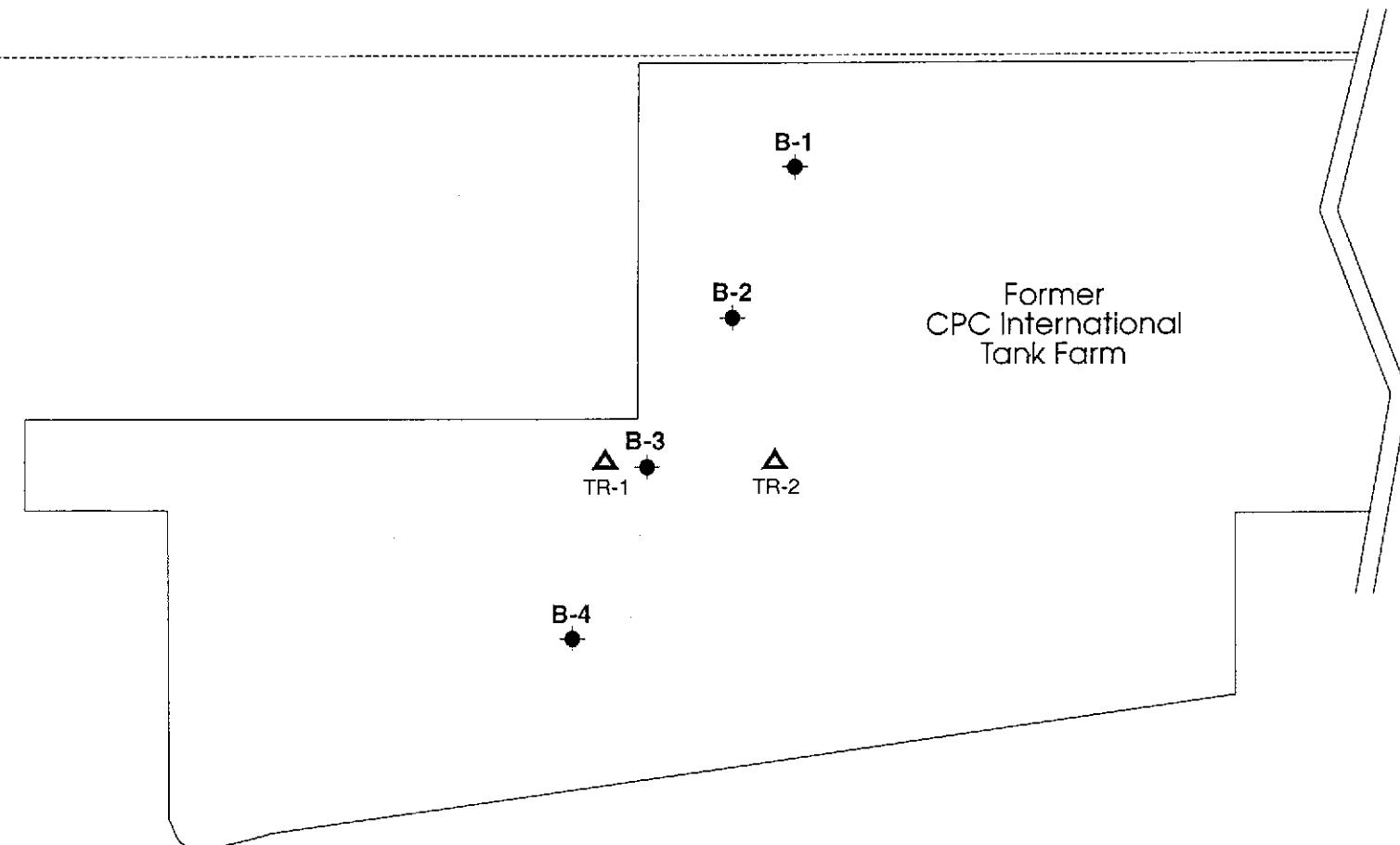
SITE LOCATION

Marina Cove Subdivision, Alameda, California

Figure 1

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FORTMANN
BASIN



EXPLANATION:

- Boring Location
- TR-1 Trench Sample Location (October 2001)



Scale: 1" : ± 50'

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BORING LOCATIONS
Marina Cove Subdivision, Alameda, California

Figure 2

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LABORATORY CERTIFICATES



McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5360
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/18/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207245

Compound	Concentration *	DF	Reporting Limit	0207245-001A			
				Compound	Concentration *	DF	Reporting Limit
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<80	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	2-Butanone (MEK)	12	1.0	10
Bromomethane	ND	1.0	5.0	sec-Butylbenzene	ND	1.0	5.0
n-Butylbenzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	3.0
tert-Butylbenzene	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroethane	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
Chloroform	ND	1.0	5.0	2-Chlorotoluene	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyltoluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylcne chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propylbenzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	97.1	%SS2:	106
%SS3:	96.6		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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.

b) 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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ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/18/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207245

Lab ID	0207245-003A						
Client ID	B-2A						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<80	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
Bromomethane	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroethane	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
Chloroform	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
2-Chloroethylene	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
Dibromoacetonitrile	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dibromoethane (FDB)	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	4-Isopropyl toluene	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	n-Propylbenzene	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Styrene	ND	1.0	5.0	Tetrachloroethylene	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	Trichloroethylene	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	Vinyl Chloride	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50				
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1	94.8	%SS2:	107
%SS3:	97.6		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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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Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW8308B

Analytical Method: SW8360B

Work Order: 0207245

Compound	Concentration *	DF	Reporting Limit	0207245-005A			
				B-3/A			
				Soil			
Acetone	ND<80	1.0	5.0	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
Bromomethane	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
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Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethylene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethylene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	5.0
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ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/18/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207245

Lab ID Client ID Matrix	0207245-007A						
	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	
				B-4A			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	
Soil							
Acetone	ND<80	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
Bromomethane	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chloroform	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloromethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	93.8	%SS2:	107
%SS3:	97.9		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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

b) 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.



McCampbell Analytical Inc.

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<http://www.mccampbell.com> E-mail: main@mccampbell.com

ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/18/02
	Client P.O.:	Date Analyzed: 07/18/02

pH For Solids*

Analytical Method: SW904SC

Work Order: 0207245

Method Accuracy and Reporting Units	W	NA
	S	± 0.1 , pH units @ °C

DHS Certification No. 1644

Edward Hamilton, Lab Director



CHAIN-OF-CUSTODY

RUSA

P O Box 99288 • Emeryville • CA 94662-9288
Tel (510) 652-3222 • Fax (510) 652-3555

0207245

Project Name			Project No. ICFS <u>2262</u>	ANALYSIS				Laboratory Name/Address		
Lab Number	ICFS Sample Identification	Date Collected		Sample Type	No. of Cont.	VOCs	HQ	HOD	Comments / Hazards	
								McCampbell Analytical		
	B-1A	7-18-02	Soil	1	X	X				
	B-1B	7-18-02	Soil	1			X			
	B-2A	7-18-02	Soil	1	X	X				
	B-2B	7-18-02	Soil	1			X			
	B-3A	7-18-02	Soil	1	X	X				
	B-3B	7-18-02	Soil	1			X			
	B-4A	7-18-02	Soil	1	X	X				
	B-4B	7-18-02	Soil	1			X			
Relinquished by: (Signature)			DATE <u>7/18/02</u>	TIME <u>11:45</u>	Received by (Signature)	<u>B. Butts</u>			DATE <u>7/18</u>	TIME <u>11:45</u>
Relinquished by: (Signature)			DATE <u>7/18</u>	TIME <u>12:25pm</u>	Received by (Signature)	<u>Maria Vargas</u>			DATE <u>7/18</u>	TIME <u>11:45</u>
Relinquished by: (Signature)					Received by (Signature)	<u>✓</u>				

NOTE: Please send records and invoices to the above address.

TURNAROUND TIME:

 24 Hours 48 Hours 3 Days Normal: 5 Days

RECEIVED
7/18/02
FBI - OAKLAND
LABORATORY

✓ PRELIMINARY
TESTS
100%
COMPLETED

FBI - OAKLAND LABORATORY

Page _____ of _____

McCAMPBELL ANALYTICAL INC.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0207245

Client:
 ICES
 P.O. Box 99288
 Emeryville, CA 94662

TEL: (510) 652-3222
 FAX: (510) 652-3555
 ProjectNo: #2262
 PO:

18-Jul-02

Sample ID	Client SampID	Matrix	Collection Date	Bottle	Requested Tests	
					SW8260B	SW9045C
0207245-001	B-1A	Soil	7/18/02		A	A
0207245-002	B-1B	Soil	7/18/02		A	A
0207245-003	B-2A	Soil	7/18/02		A	A
0207245-004	B-2B	Soil	7/18/02		A	A
0207245-005	B-3A	Soil	7/18/02		A	A
0207245-006	B-3B	Soil	7/18/02		A	A
0207245-007	B-4A	Soil	7/18/02		A	A
0207245-008	B-4B	Soil	7/18/02		A	A

Comments: 72hr Rush

Date/Time

Date/Time

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

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.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



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ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/19/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207244

Lab ID Client ID Matrix	0207244-001A			Compound	Concentration *	DF	Reporting Limit				
	B-1W										
	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	Bromo-chloromethane	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)	2.0	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	1.0				
Chloroform	8.9	1.0	0.5	Chloromethane	ND	1.0	0.5				
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5				
Dibromo-chloromethane	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	5.0	2-Hexanone	ND	1.0	0.5				
Iodomethane (Methyl iodide)	ND	1.0	1.0	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	1,1,2-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				
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropene	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				
Xylenes	ND	1.0	0.5								

Surrogate Recoveries (%)

%SS1:	105	%SS2:	100
%SS3:	92.1		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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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ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/19/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207244

Lab ID	0207244-002A		
Client ID	B-2W		
Matrix	Water		
Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0
Bromobenzene	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5
Bromoform			
Bromomethane	ND	1.0	0.5
2-Butanone (MEK)			
n-Butyl benzene	ND	1.0	0.5
sec-Butyl benzene			
tert-Butyl benzene	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5
Chloroethane	ND	1.0	0.5
Chloroform	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	1.0
Isopropylbenzene	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5
Naphthalene	ND	1.0	0.5
Styrene	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5
Toluene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0
Xylenes	ND	1.0	0.5
Surrogate Recoveries (%)			
%SS1:	106	%SS2	99.1
%SS3:	92.2		

Comments:

* water and vapor samples and all TCEP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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 slurry/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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		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/19/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207244

Lab ID Client ID Matrix	0207244-003A		
	B-3W		
	Water		
Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0
Bromobenzene	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5
Bromomethane	ND	1.0	0.5
n-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5
Chlornethane	ND	1.0	0.5
Chloroform	7.7	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5
1,1-Dichloroethane	1.3	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	1.0
Isopropylbenzene	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5
Naphthalene	ND	1.0	0.5
Styrene	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5
Toluene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0
Xylenes	ND	1.0	0.5
Surrogate Recoveries (%)			
%SS1:	109	%SS2:	99.8
%SS3:	93.3		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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

b) 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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ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted: 07/19/02
	Client P.O.:	Date Analyzed: 07/19/02

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207244

Lab ID	0207244-004A		
Client ID	B-4W		
Matrix	Water		
Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0
Bromobenzene	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5
n-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5
Chloroethane	ND	1.0	0.5
Chloroform	5.4	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	1.0
Isopropylbenzene	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5
Naphthalene	ND	1.0	0.5
Styrene	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5
Toluene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0
Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	100
%SS3:	91.6		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/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.

(b) 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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ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #2262	Date Sampled: 07/18/02
		Date Received: 07/18/02
	Client Contact: Peng Leong	Date Extracted:
	Client P.O.:	Date Analyzed: 07/18/02

pH*

Analytical Method: SM450011+B

Work Order: 0207244

DHS Certification No. 1644

Edward Hamilton, Lab Director



CHAIN-OF-CUSTODY

RUSH

P.O. Box 99288 • Emeryville • CA 94662-9988
Tel (510) 652-3997 • Fax (510) 652-3555

0207244

NOTE: Please send reports and invoices to the above address.

TURNAROUND TIME:

24 Hours

 48 Hours

3 Day

Normal - 5 Days

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McCampbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

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WorkOrder: 0207244

Client:

ICES
 P.O. Box 99288
 Emeryville, CA 94662

TEL: (510) 652-3222
 FAX: (510) 652-3555
 ProjectNo: #2262
 PO:

18-Jul-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests	
					SM4500H+B	SW8260B
0207244-001	B-1W	Water	7/18/02	B	A	
0207244-002	B-2W	Water	7/18/02	B	A	
0207244-003	B-3W	Water	7/18/02	B	A	
0207244-004	B-4W	Water	7/18/02	B	A	

Comments: 72hr Rush

Date/Time

Date/Time

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

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.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orba T-Tedlar B-Brass P-Plastic OT-Other