

environmental service

by Papineau, R.E.A. 791

January 21, 2003

Alameda County

Mr. Jack Sumski, Jr. Davis Realty Co., Inc. 5010 Geary Boulevard Suite 1 San Francisco, CA 94118

FEB 2 4 2003

Environmental Health

Subject: Ground Water Monitoring Event #4, January 15, 2003 for 1723 Fruitvale Avenue, Oakland, California (Project 2000-033.05)

94601

Dear Mr. Sumski:

This letter is to convey the results of ground water mobnitoring event #4, conducted on January 15, 2003, at 1723 Fruitvale Avenue, Oakland (see Figure 1, page 6). Work was conducted on behalf of Davis Realty Co., Inc., by Environmental Service, to comply with the directive of the Alameda County Health Care Services Agency to perform monitoring of the three existing wells. This work was authorized by Davis Realty Co., Inc., under contract 2000-033.05. Attachments A and B include the ground water monitoring logs, laboratory analytical reports, and Sample Chain-of-Custody.

Background

The Property was formerly Walt's Transmission Shop. Jack Sumski acquired the Property in 1993 and has no actual knowledge or constructive knowledge of any past storage or use of perchlorethylene (PCE) on the Property. In December 1999 a Phase II investigation report was prepared at the discretion of the owner prior to a contemplated sale of the Property. In July 2000 a Phase III remediation report was prepared to document work overseen by the city of Oakland, including 1) removal of one hydraulic hoist and 2) remedial excavation of presumed PCE-affected soil.

The presumption of PCE impact was erroneous, based upon clerical or interpretive error by the contractor who performed the Phase II investigation. Laboratory-determined concentrations in parts per billion (µg/kg) were incorrectly reported as parts per million (mg/kg). Remedial excavation probably would not have been performed had the PCE concentration been accurately reported in December 1999.

In November 2000 and March 2001 Specified Soil and Ground Water Sampling reports were prepared on behalf of Davis Realty Co., Inc., by Environmental Service, at the request of the Alameda County Health Care Services Agency. The latter pair of reports documented soil borings drilled inside the building close to the location of the former hoist and Phase III remedial excavations, soil and ground water sampling, installation of three monitoring wells, and laboratory analysis results. Monitoring of the three wells was performed previously on February 20, 2001, June 27, 2001, and January 7, 2002.



1723 Fruitvale Avenue, Oakland, California ES Project 2000-033.05

Based upon the available data in the above-mentioned reports, there has been no discovery of an unauthorized release of a petroleum hydrocarbon or PCE from the Property which could warrant a clean-up response. Gasoline and BTEX concentrations in the ground water sample collected outside in front of the building were reported by the analytical laboratory to be 270 μ g/L as gasoline (with "no recognizable fuel pattern"); less than 0.5 μ g/L as benzene, ethyl benzene and toluene; and 0.51 μ g/L as xylenes. Detectable concentrations of PCE were found only in soil samples collected at locations SS-2, SB-4, and SB-5, all in parts per billion (see Figure 2, page 7). PCE concentrations in soil were reported as 24 μ g/kg at 5-10 feet bgs at location SB-4, 34 μ g/kg at 11 feet bgs at location SS-2, and 43 μ g/kg at 20-20.5 feet bgs at location SB-5. PCE concentrations were highest near the ground water and decreased near the concrete floor at the surface. Concentrations of PCE, or its decomposition products TCE and cis 1,2-DCE, were not detected in the soil samples collected farther away from the hydraulic hoist area, and specifically were not detected in the soil sample collected adjacent to the floor drain or in the soil samples collected from locations in front of the building.

Monitoring wells MW-1, MWP-2 and MWP-3 were installed in January 2001, inside former Walt's Transmission Shop, generally within 10 to 15 feet of detectable PCE concentrations found in soil adjacent to the former hydraulic hoist (see Figure 2). The monitoring wells are screened with approximately 6 to 8 feet of 0.010-inch machine slotted, 2-inch diameter casing and Lonestar 2/12 sand. The screened interval was selected to span the saturated zone of sandy clay, sandy clayey gravel, and sandy gravel with trace clay, logged between 18 feet and 23.5 feet bgs. Each bore hole was terminated at 25.5 or 26 feet in a yellowish-brown (10 YR 5/4) sandy highly plastic clay soil observed at 23.5 to 26 feet bgs. In November 2000 and January 2001 first ground water was logged at 19 to 20 feet bgs. Well construction, well elevation survey, and analytical results are subjects of the report titled Specified Soil and Ground Water Sampling and Laboratory Analyses for 1723 Fruitvale Avenue, Oakland, California, Project 2000-033.02, dated March 5, 2001, prepared by Environmental Service.

Well Purging and Sampling

On January 14 and 15, 2003, before purging, depth to ground water was measured relative to the tops of the well casings (TOC), to the nearest hundredth of a foot, using an Environmental Instruments water level meter. On January 15, 2003, the depths to water surface from top of casing were 15.97 feet in well MW-1, 16.17 feet in well MWP-2, and 16.01 feet in well MWP-3. In comparison, on January 7, 2002, depths to water surface were 14.79 feet in well MW-1, 15.01 feet in well MWP-2, and 14.84 feet in well MWP-3, Floating product and sheen were not present in any of the three wells on January 15, 2003, or previously on June 27, 2001, February 20, 2001, and January 7, 2002.

Monitoring wells were purged with a submersible pump, until temperature, pH, and electrical conductivity had stabilized. After purging, before sampling, the temperature, pH, and electrical conductivity were observed to stabilize at 66 degrees Fahrenheit (°F), 6.4 pH, and approximately 410 µmhos/cm, on January 15, 2003. Dissolved oxygen and turbidity also were measured, and the concentratrion of dissolved oxygen was found to be approximately 3 mg/L and the turdidity was found to be less than 50 nephelometric turbidity units (NTUs) in all samples. Refer to Attachment A, Ground Water Monitoring Logs.



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Within 20 minutes after purging on January 15, 2002, the water surface elevation had recovered to within 0.05 foot of the original measured depth. All wells then were hand bailed using disposable polyethylene bailers and twisted polypropylene line to collect ground water samples. Ground water was observed and noted to be clear in all wells MW-1, MWP-2 and MWP-3. Each ground water sample was poured carefully into triplicate 40-ml VOAs with 1:1 hydrochloric acid (HCl) preservative. VOAs were labeled immediately after collection and then placed in an ice chest with blue ice and water ice.

Sample Handling and Laboratory Analysis

Ground water samples were delivered to McCampbell Analytical Inc., a State of California certified laboratory, ELAP #1644, on the same day as sampling. Prior to delivery, the samples remained in the custody of Environmental Service, chilled in the ice chest. Sample Chain-of-Custody procedures were used throughout to document sample condition and transfer.

The three ground water samples collected on January 15, 2003, were analyzed for PCE and other halogenated volatile organic compounds, in accordance with U.S. EPA Method 8010/601. The Sample Chain-of-Custody and laboratory analytical report are provided in Attachment B.

Results

Table 1 (page 5) summarizes results for January 15, 2003, January 7, 2002, June 27, 2001, February 20, 2001, and previous grab ground water sampling events. On January 15, 2003, PCE concentrations were similar to those monitored previously in January 2002, June 2001, and February 2001. On January 15, 2002, the ground water potentiometric surface sloped down toward the southwest (see Figure 2, page 7). Previously, the ground water potentiometric surface has sloped down toward the south southwest, southwest, or west southwest.

Interpretation

The shallow ground water impact zone is vertically confined within a thin lens between 18 and 24 feet bgs, which overlies yellowish-brown, sandy, clay logged from 23.5 feet bgs to the total depth in each bore hole. In January 2003, January 2002, and February 2001, the lens generally has had ground water throughout the permeable layer. In June 2001, only, the water column was 2 feet thick and the lens was not capable of producing 2 gallons per minute without drawing down or dewatering the wells.

The source of PCE potentially could be upgradient of SB-5 (see Figure 2), even off site. A vicinity drive-by indicated that dry cleaners are located at 1917 Fruitvale and 2210 Fruitvale. According to the Polk's reverse directories, Vale Cleaners (1917 Fruitvale Avenue) and Payless Cleaners (2210 Fruitvale Avenue) were present at the latter addresses in 1967 and 1969, and presumably for the entire intervening period through January 2003. In 1967 there were additional dry cleaners at 2231 Fruitvale Avenue and 2683 Fruitvale Avenue, and also at 2621 Foothill Boulevard, 3666 Foothill Boulevard, and 3941 Foothill Boulevard. Old dry cleaners are potential off-site sources of PCE and, like all commercial and residential uses, have sewer connections to the municipal sewer. Flow in the sewer beneath Fruitvale Avenue is downslope, toward the south.



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Conclusions and Recommendations

No source of PCE in soil remains on the Property that could warrant a remedial action. The shallow ground water impact zone is vertically confined within the interval from 18 to 24 feet bgs. Concentrations of PCE in ground water are relatively low, stable, and vertically confined, such that remedial action is not warranted. The U.S. EPA's Maximum Contaminant Level for Drinking Water is 5 μ g/L as PCE, but the shallow ground water that has been affected is not a potential drinking water source.

A signed copy of this report should be forwarded by the Property Owner to Alameda County Health Care Services Agency, to the specialist named below:

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway Suite 250
Alameda, CA 94502-6577

TEL (510) 567-6746 FAX (510) 337-9335

Thank you for this opportunity to serve Davis Realty Co., Inc. If you have any questions or require additional information, please contact me directly.

Sincerely,

FOR AND ON BEHALF OF ENVIRONMENTAL SERVICE

Marc Papineau

California Registered Environmental Assessor #791

R. Mark Armstrong

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California Registered Geologist #6134

When Popular

enclosures:

Figures 1 and 2

Attachment A, Ground Water Monitoring Logs

Attachment B, Laboratory Analytical Report and Sample Chain-of-Custody



1723 Fruitvale Avenue, Oakland, California ES Project 2000-033.05

TABLE 1 ANALYTICAL RESULTS FOR GROUND WATER SAMPLES

Date of Last Revision: 1/15/2003 All Results in Parts per Billion $(\mu g/L)^2$

Sample	Date of	Grou	nd Water	Volatile	Spe	cified Petr	oleum Hy	drocarbons
or Well Number	Sample Collection	Depth (Feet)	Elevation (Feet msl)	Halocarbons ^b PCE	Gasoline ^c	BTEXª	МвЕ ^d	Total Petroleum Hydrocarbons ^e
MW-1	1/15/2003	15.97	43.97	180	nt	nt	nt	nt
	1/7/2002	14.79	45.15	160	nt	nt	nt	nt
	6/27/2001	21.53	38.41	130	nt	nt	nt	nt
	2/20/2001	16.69	43.25	160	68 g	ND	ND	ND
MWP-2	1/15/2003	16.17	43.87	180	nt	nt	nt	nt
	1/7/2002	15.01	45.03	150	nt	nt	nt	nt
	6/27/2001	21.64	38.40	120	nt	nt	nt	nt
	2/20/2001	16.89	43.15	140	62g	ND	ND	ND
MWP-3	1/15/2003 1/7/2002	16.01 14.84	43.98 45.15	120	nt	nt	nt	nt
	6/27/2001	21.55		110	nt	nt	nt 	nt
	2/20/2001	16.75	38.44 43.24	130 140	nt 64g	nt ND	nt ND	nt ND
SB6-GW	11/14/2000	20	40	290	65g	ND	nt	ND (<74)f,DL ND (<368)f,HO
SB1-GW-1	12/10/1999	23.5	35	42	ND	2,100		
Detection Li	mits			2.5	50	0.5	5.0	1,000 ^e

NOTES:

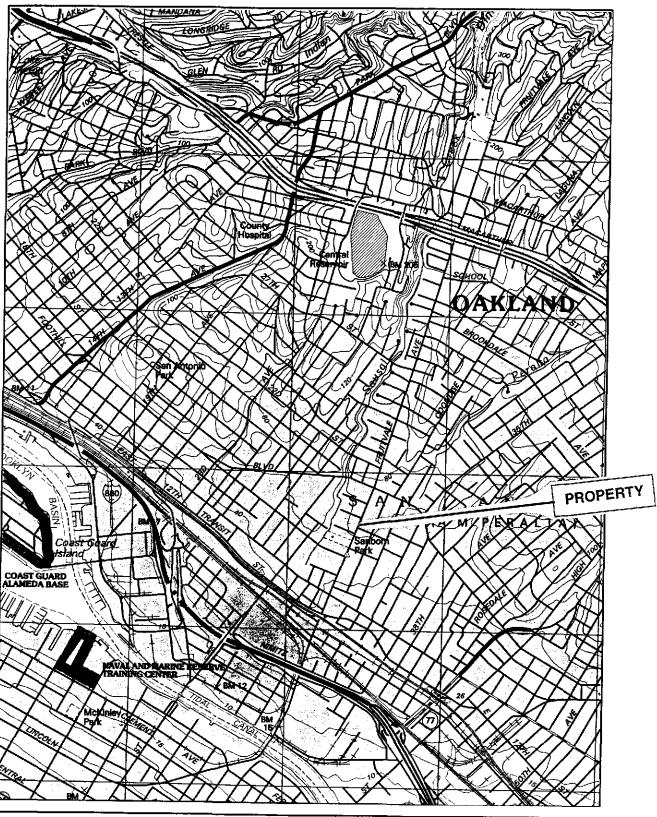
- PCE Tetrachloroethene, also perchloroethylene or PCE
 - nt Not tested for the stated parameter or not available
- ND None detected at or above the Detection Limits reported by the laboratory either in the bottom row of Table 1 or in parentheses "()" if different.
 - a Laboratory results for Volatile Halocarbons (HVOCs), and also for gasoline; benzene, toluene, ethyl benzene, and xylenes (BTEX); methyl tertiary butyl ether (MtBE); and Total Petroleum Hydrocarbons are all stated in parts per billion (μg/L) for consistency.
 - b HVOCs were analyzed in accordance with U.S. EPA Method 601/8010.
 - Gasoline was analyzed in accordance with U.S. EPA method 5030/8015M.
 - d Benzene, toluene, ethyl benzene, and xylenes (BTEX), and methyl tertiary butyl ether (MtBE) were analyzed in accordance with U.S. EPA Method 8020.
 - Total petroleum hydrocarbons were analyzed as Total Recoverable Petroleum Hydrocarbons in accordance with U.S. EPA Method 418.1, unless noted specifically otherwise.
 - Tested in accordance with U.S. EPA Method 3550/8015M as diesel (DL) and also as hydraulic oil (HO).
 - Laboratory flagged the result and/or noted "one or more individual peaks."
 - h Laboratory flagged result and noted "no recognizable pattern."

SOURCE:

McCampbell Analytical Inc, (Cal/EPA ELAP # 1644), January 15, 2003;

January 14, 2002; June 29, 2001; February 26, 2001; and December 17, 1999; and,

Entech Analytical Labs, Inc. (Cal/EPA ELAP #2346), November 20, 2000.





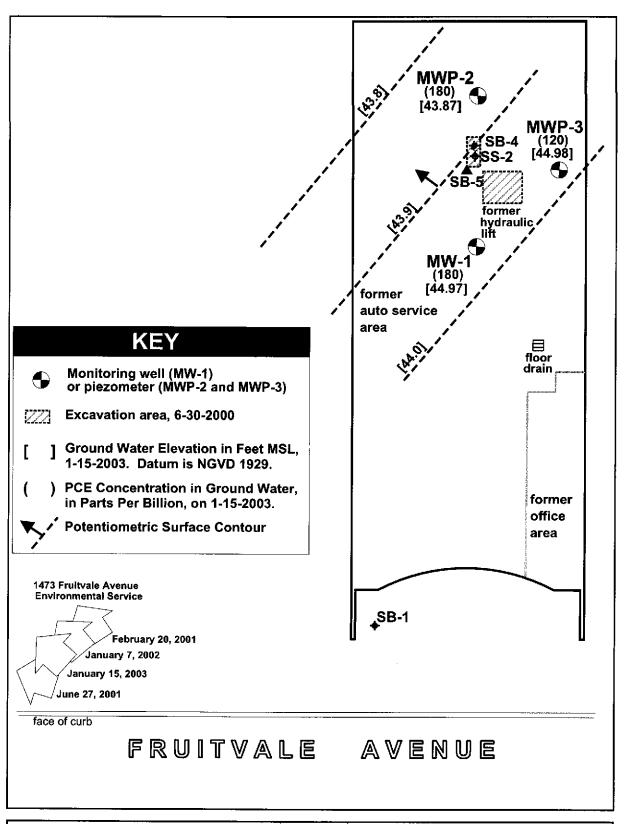
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1:24,000

Figure 1 Topographic Map 1723 Fruitvale Avenue Oakland, California

U. S. Geological Survey, 7.5-Minute Series (Topographic), Oakland East, 1997





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5.0 ft 410.0 ft* Figure 2
Potentiometric Surface Map
for January 15, 2003
1723 Fruitvale Avenue
Oakland, California

Ground Water Monitoring Log Well and Sampling Information

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Site Location

1723 Fruitvale Av. Oakland, CA

Client

Davis Realty Co.

Well Number

MW-1

Project No.

2000-033.05

Date Time 1/15/2003

Weather

1146 Fair, sunny

Sampler

M. Papineau

WELL INFORMATION

Casing Type

PVC

Casing Diameter Water Level (Pre-Purge) 2-inch 15.97 ft

Total Depth

25 ft

Measuring Instrument

Env. Instru.

TOC

Well Condition

Sediment

Suspended

Casing Cover

O.K. Present

Cap

Present

Lock

Present, locked

PURGING INFORMATION

Method

Datum

Submersible pump

Bailer or Tubing Material

Polyethylene

1/2-In. Braided PVC

X

Teflon

Braided Nylon

Stainless

Rope

None

Nylon Braided Polypropylene Twist

Polypropylene Braided

Cleaning Procedure

Downhole tape, line, tubing, and

electrical line were washed with TSP and water and rinsed in a 19-gallon bucket. MW-1 was purged first, then MWP-2 &

MWP-3.

Pump Rate

1.1 gpm 11 min

Elapsed Time Volume Pumped

12 gallons

Number of Casing

Volumes Purged

Start Time

1402 **End Time** 1413

TIME SERIES DATA

Measurement	1	2 + 485	alie -	4	5	6	7	Bank is
Number of								
Casing Volumes	3	4	_5	7	8			
Water Temp.						NOTE: 1	emperatur	e may be
600 1111	18.1	18.1	18.4	19.0	19.1	affected b	y pump an	d hose.
pH	6.18	6.27	6.26	6.28	6.30			
Dissolved Oxygen								
(mg/L)	8.21	7.80	7.70	7.64	7.48			
Turbidity (NTUs)	71	11	1	1	2			
Specific Conductance -								
(janthos/em)	433	410	416	415	413			

SAMPLING INFORMATION

Polyethylene

Method

Hand Bail

X

Rope

Material (_X__ Bailer

Tubing)

Polypropylene Twist

Polypropylene Braided

X

Tygon

Sample Time

1243, on 1/15/2003

Teflon Stainless

рH Temp. °F 6.47

Cleaning Procedure

Clean dedicated bailer.

Spec. Cond. (µmhos/cm)

65 404

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1/15/2003

Fair, sunny

M. Papineau

1147

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Site Location

1723 Fruitvale Av. Oakland, CA

Client

Davis Realty Co., Inc.

Well Number

MWP-2

Ground Water Monitoring Log

Well and Sampling Information

Project No.

Casing Type

Total Depth

Casing Diameter

2000-033.05

Well Condition

Date

Time

Weather

Sampler

Sediment Casing

Clear O.K.

Cover Cap

Present Present

Lock

Present, locked

PURGING INFORMATION

WELL INFORMATION

Water Level (Pre-Purge)

Measuring Instrument

Method

Datum

Submersible pump

PVC

2-inch

16.17 ft

24.8 ft

TOC

Env. Instru.

Bailer or Tubing Material

Polvethylene

1/2-In. Braided PVC

X

Teflon

Braided Nylon

Stainless

Rope

None

Nylon Braided Polypropylene Twist Polypropylene Braided **Cleaning Procedure**

The downhole tape, pump, line, tubing, and electrical line were washed with TSP and water and rinsed in a 19-gallon bucket. MWP-2 was purged first second.

Pump Rate

1.3 gpm

Elapsed Time

9 min

Volume Pumped

11 gallons

Number of Casing Volumes Purged

Start Time 1427

End Time

1436

TIME SERIES DATA

Measurement	31	2	3	4	511111111	6	7	800
Number of							·	
Casing Volumes	2	3	5	8				
Water Temp.						NOTE: 7	Femperatur	e may be
(C) 1. 2	19.1	18.9	19.0	19.2		affected b	y the pump	Э.
pH	6.44	6.32	6.32	6.30				
Dissolved Oxygen								
(mg/L)	7.00	7.04	7.03	6.66				
Turbidity (NTUs)	82	81	82	69				
Specific Conductance								
(µmhos/em)	404	402	401	401				

SAMPLING INFORMATION

Method

Hand Bail

Rope

Material (_X__ Bailer

Tubing)

Polypropylene Twist

Polypropylene Braided

X

Polyethylene X **Tygon**

Sample Time pΗ

1229, on 1/15/2003

Teflon Stainless

Temp. °F

6.39

Cleaning Procedure

Clean dedicated bailer.

Spec. Cond. (µmhos/cm)

66 410

Ground Water Monitoring Log Well and Sampling Information

Site Location

1723 Fruitvale Av. Oakland CA

Client

Davis Realty Co., Inc.

Well Number Project No.

MWP-3 2000-033.05

WELL INFORMATION

Casing Type

Total Depth

PVC 2-inch

Casing Diameter Water Level (Pre-Purge)

16.01 ft 25.9 ft

Measuring Instrument

Env. Instr.

Datum

TOC

PURGING INFORMATION

Method

Submersible pump

Bailer or Tubing Material

Polyethylene

1/2-In. Braided PVC

X

Teflon

Braided Nylon

Stainless

Rope

None

Nylon Braided Polypropylene Twist

Polypropylene Braided

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Date

1/15/2003

Time

1149

Weather Sampler

Fair, sunny M. Papineau

Well Condition

Sediment

Suspended O.K.

Casing Cover

Present

Cap

Present

Lock

Present, locked

Cleaning Procedure

The downhole tape, pump, tubing, and electrical line were washed with TSP and

water and rinsed with water.

1154

Pump Rate

1.5 gpm

Elapsed Time

8 minutes

Volume Pumped

12 gallons

Number of Casing

Volumes Purged

Start Time

End Time

1202

TIME SERIES DATA

Mensurements,	1 = 2.75	2	3	4	15	6	7	8
Number of Casing Volumes	1	4	5	6	7			
Water Temp. (°F)	18.3	18.7	18.9	18.9	18.9		ure may be & discharg	
pH.	6.30	6.37	6.34	6.35	6.30			
Dissolved Oxygen (mg/L)	2.77	2.32	2.42	2.51	2.74			
Turbidity (NTUs)	122	49	47	21	21			
Specific Conductance (µmhos/cm)	414	417	415	415	410			

SAMPLING INFORMATION

Method

Hand Bail

Rope

Material (X Bailer Polyethylene X Tubing)

Polypropylene Twist

Polypropylene Braided

Tygon

Sample Time

1217, on 1/15/2003

Teflon

pН

6.40

X

Stainless Cleaning Procedure

Clean dedicated bailer.

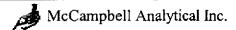
Temp. °F

66

Spec. Cond. (µmhos/cm)

412

LABORATORY ANALYTICAL REPORT AND SAMPLE CHAIN-OF-CUSTODY



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

Environmental Service	Client Project ID: #2000-033.05	Date Sampled: 01/15/03
5789 Gold Creek Drive		Date Received: 01/15/03
Castro Valley, CA 94552	Client Contact: Marc Papinean	Date Reported: 01/21/03
Casho Vancy, CA 34552	Client P.O.:	Date Completed: 01/21/03

WorkOrder: 0301175

January 21, 2003

Dear Marc:

Enclosed are:

- 1). the results of 3 analyzed samples from your #2000-033.05 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

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

Environmental Service	Client Project ID: #2000-033.05	Date Sampled: 01/15/03
5789 Gold Creek Drive		Date Received: 01/15/03
Castro Valley, CA 94552	Client Contact: Marc Papinean	Date Extracted: 01/15/03
outle raney, our yrough	Client P.O.:	Date Analyzed: 01/15/03

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8021B Work Order: 0301175

Extraction Method: SW5030B		An	alytical Method: SW802	1B	Work Orde	r: 0301175
	Lab ID	0301175-001A	0301175-002A	0301175-003A		
	Client ID	MW-t	MWP-2	MWP-3	Reporting DF	
	Matrix	W	w	W	Dr	-1
	DF	20	20	10	S	w
Compound			Conc	entration	μg/kg	μg/L
Bromodichloromethane		ND<10	ND<10	ND<5.0	NA	0.5
Bromoform		ND<10	ND<10	ND<5.0	NA	0.5
Bromomethane		ND<10	ND<10	ND<5.0	NA	0.5
Carbon Tetrachloride		ND<10	ND<10	ND<5.0	NA	0.5
Chlorobenzene		ND<10	ND<10	ND<5.0	NA	0.5
Chloroethane		ND<10	ND<10	ND<5.0	NA	0.5
2-Chloroethyl vinyl ether		ND<10	ND<10	ND<5.0	NA	0.5
Chloroform		ND<10	ND<10	ND<5.0	NA	0.5
Chloromethane		ND<10	ND<10	ND<5.0	NA	0.5
Dibromochloromethane		ND<10	ND<10	ND<5.0	NA	0.5
1,2-Dichlorobenzene		ND<10	ND<10	ND<5.0	NA NA	0.5
1,3-Dichlorobenzene		ND<10	ND<10	ND<5.0	NA	0.5
1,4-Dichlorobenzene		ND<10	ND<10	ND<5.0	NA NA	0.5
Dichlorodifluoromethane		ND<10	ND<10	ND<5.0	NA NA	0.5
1,1-Dichloroethane		ND<10	ND<10	ND<5.0	NA NA	0.5
1,2-Dichloroethane		ND<10	ND<10	ND<5.0	NA	0.5
1,1-Dichloroethene		ND<10	ND<10	ND<5.0	NA NA	0.5
cis-1,2-Dichloroethene		ND<10	ND<10	ND<5.0	NA NA	0.5
trans-1,2-Dichloroethene		ND<10	ND<10	ND<5.0	NA NA	0.5
1,2-Dichloropropane		ND<10	ND<10	ND<5.0	NA NA	0.5
cis-1,3-Dichloropropene		ND<10	ND<10	ND<5.0	NA	0.5
trans-1,3-Dichloropropene		ND<10	ND<10	ND<5.0	NA	0.5
Methylene chloride		ND<10	ND<10	ND<5.0	NA	0.5
1,1,2,2-Tetrachloroethane		ND<10	ND<10	ND<5.0	NA	0,5
Tetrachloroethene		180	180	120	NA	0.5
1,1,1-Trichloroethane		ND<10	ND<10	ND<5.0	NA	0.5
1,1,2-Trichloroethane		ND<10	ND<10	ND<5.0	NA	0.5
Trichloroethene		ND<10	ND<10	ND<5.0	NA NA	0.5
Trichlorofluoromethane		ND<10	ND<10	ND<5.0	NA NA	0.5
Vinyl Chloride		ND<10	ND<10	ND<5.0	NA NA	0.5
		Surro	gate Recoveries			
%SS:		95.7	95.5	95.9		
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.



QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0301175

EPA Method: SW8021B	E	extraction:	SW5030E)	BatchID:	5636	S			
Comment	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
Chlorobenzene	N/A	10	N/A	N/A	N/A	93.7	90.8	3.18	70	130
1,1-Dichloroethene	N/A	10	N/A	N/A	N/A	115	113	1.98	70	130
Trichloroethene	N/A	10	N/A	N/A	N/A	86	83.5	3.03	70	130
%SS:	N/A	100	N/A	N/A	N/A	93.6	90.6	3.18	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 landyte 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.

McCampbell Analytical Inc.



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0301175

Client:

Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552

TEL: (510) 881-8574 FAX: (510) 581-7204 ProjectNo: #2000-033.05

PO:

Date Received:

1/15/03

Date Printed:

1/15/03

Sample ID	ClientSamplD	Matrix	Collection Date	Hold	SW8021B	Requested Tests
0301175-001 0301175-002 0301175-003	MW-1 MWP-2 MWP-3	Water Water Water	1/15/03 12:43:00 PM 1/15/03 12:29:00 PM 1/15/03 12:17:00 PM		A A A	

Prepared by: Sonia Valles

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.

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