Wickham, Jerry, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, July 17, 2008 12:26 AM
To: Wickham, Jerry, Env. Health
Subject: RO 357 Snow Cleaners Borehole Groundwater Sample Results
Attachments: 0807239.pdf

Hi Jerry,

You will find attached the laboratory report for the water sample results that we have received to date from the laboratory for the recent subsurface investigation at and near the subject site (document 0807239.pdf). Review of the results shows the following notable conditions for the offsite sample results.

o B25 groundwater grab sample results show that all analytes were not detected. B25 was located in the driveway of Marion Puck-Escobar. We retained soil samples at 5-foot intervals from the borehole and have the samples on HOLD at the laboratory. The work plan only proposed that a groundwater sample be analyzed at this location. Based on the absence of detected analytes in the groundwater at this location, I recommend that the soil sample hold times be allowed to expire and that the soil samples not be analyzed.

o B27 groundwater grab sample was collected at a depth of approximately 3 feet below the ground surface on the exterior of the channelized creek. The depth of sample collection was approximately coincident with the bottom of the channelized creek. Weep holes were present in the walls of the channelized creek, and water was observed to be weeping from all of the weep holes. No HVOCs were detected in the sample from the borehole. Similarly, no TPH-G or Stoddard solvent were detected in the water sample. However, oil-range compounds were detected. The absence of HVOCs and Stoddard solvent suggest that the oil-range compounds are not related to the Snow Cleaners case.

o B26 groundwater grab sample results show that TPH-G-range compounds were detected, in addition to Stoddard solvent and low concentrations of cis-1,2-DCE and vinyl chloride. The sample was collected from the creek bank from one of the few, short sections of the creek bank between Davis Street and Henrietta Street that is unlined. I recommend collecting additional groundwater grab samples from upstream portions of the creek bank that are not lined to determine if the presence of the detected compounds is limited to the vicinity of borehole B26.

Please call me at your earliest convenience to discuss the sample results. Thank you!

Best Regards,
Paul King
Professional Geologist
P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
510-658-6916 (telephone)
510-834-0152 (facsimile)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
	Client Contact: Steve Carmack	Date Reported: 07/16/08
	Client P.O.:	Date Completed: 07/16/08

WorkOrder: 0807239

July 16, 2008

Dear Steve:

Enclosed within are:

1) The results of the **5** analyzed samples from your project: **# 0298; Snow Cleaners- Oakland,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

P & D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

0807239

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER: 0298

PROJECT NAME: SNOW CLEANERS – OAKLAND.

SAMPLED BY: (PRINTED AND SIGNATURE) MICHAEL DESCHENES

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-MULTI (G, 55, BO)	BTEX & HVOC's BY 8260	PRESERVATIVE	REMARKS
21 B21W-25	7-8-08	13:00	WATER		7	✓	✓	ICE	NORMAL TURN AROUND
25 B22W-45	7-7-08	12:35	"		7	✓	✓	"	" "
25 B25W-45	7-8-08	9:55	"		7	✓	✓	"	" "

ICE / T° 1.0
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ___
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ___
PRESERVATION: VOAS | O&G | METALS | OTHER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
MICHAEL DESCHENES	7/9/08	1540	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
	7/9/08	1825	M. BURNS
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)

TOTAL NO. OF SAMPLES (THIS SHIPMENT): 3
TOTAL NO. OF CONTAINERS (THIS SHIPMENT): 21
LABORATORY: MC CAMPBELL ANALYTICAL
LABORATORY CONTACT: ANGELA RYDELINS
LABORATORY PHONE NUMBER: (877) 252-9262
SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( )YES (X)NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: ALL BOTTLES PRESERVED WITH HCl

P & D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER: 0298

PROJECT NAME: Snow Cleaners, Oakland

SAMPLED BY: (PRINTED AND SIGNATURE) Steve Carmack

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-Mult (6,55, BO	BTEX + HVOCs by 8260	PRESERVATIVE	REMARKS
4 B24W-3 26	7/8/08	1445	H_2O		7	X	X	ICE	Normal Turnaround Time
254 B25W-3 27	↓	1515	H_2O		7	X	X	ICE	↓ ↓ ↓

ICE AT° 10
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB
PRESERVATION: VOAS | O&G | METALS | OTHER

	DATE	TIME		
RELINQUISHED BY: (SIGNATURE)	7/9/08	1540	RECEIVED BY: (SIGNATURE)	TOTAL NO. OF SAMPLES (THIS SHIPMENT): 2
RELINQUISHED BY: (SIGNATURE)	7/9/08	1825	RECEIVED BY: (SIGNATURE) K. BURKS	TOTAL NO. OF CONTAINERS (THIS SHIPMENT): 14
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	

LABORATORY: McCampbell Analytical
LABORATORY CONTACT: Angela Rydelius
LABORATORY PHONE NUMBER: (877) 252-9262
SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( )YES (X)NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: All bottles preserved w/HCL

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0807239 **ClientCode: PDEO**

☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Steve Carmack
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX 510-834-0152

Email: lab@pdenviro.com
cc:
PO:
ProjectNo: # 0298; Snow Cleaners- Oakland

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 5 days

Date Received: **07/09/2008**
Date Printed: **07/10/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0807239-001	B21W-25	Water	7/8/2008 13:00	☐	B	A										
0807239-002	B22W-45	Water	7/7/2008 12:35	☐	B	A										
0807239-003	B25W-45	Water	7/7/2008 9:55	☐	B	A										
0807239-004	B26W-3	Water	7/8/2008 14:45	☐	B	A										
0807239-005	B27W-3	Water	7/8/2008 15:15	☐	B	A										

Test Legend:

1	8010-8021MS_W	2	G-MBTEX_W	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

Prepared by: Kimberly Burks

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **P & D Environmental**

Date and Time Received: **7/9/2008 8:36:42 PM**

Project Name: **# 0298; Snow Cleaners- Oakland**

Checklist completed and reviewed by: Kimberly Burks

WorkOrder N°: **0807239** Matrix Water

Carrier: Michael Hernandez (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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P & D Environmental	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/16/08
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/16/08

HVOCs and MBTEX by P&T and GC-MS (8021 BasicTarget List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807239

Lab ID	0807239-001B
Client ID	B21W-25
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Benzene	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
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromoethane (EDB)	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	cis-1,3-Dichloropropene	ND<5.0	10	0.5
trans-1,3-Dichloropropene	ND<5.0	10	0.5	Ethylbenzene	14	10	0.5
Freon 113	ND<100	10	10	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	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	11	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	Vinyl Chloride	ND<5.0	10	0.5
Xylenes	44	10	0.5				

Surrogate Recoveries (%)

%SS1:	95	%SS2:	99
%SS3:	100		

Comments: b1

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

Angela Rydelius, Lab Manager

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		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/15/08
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/15/08

HVOCs and MBTEX by P&T and GC-MS (8021 BasicTarget List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807239

Lab ID	0807239-002B
Client ID	B22W-45
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Benzene	ND<2.5	5.0	0.5	Bromodichloromethane	ND<2.5	5.0	0.5
Bromoform	ND<2.5	5.0	0.5	Bromomethane	ND<2.5	5.0	0.5
Carbon Tetrachloride	ND<2.5	5.0	0.5	Chlorobenzene	ND<2.5	5.0	0.5
Chloroethane	ND<2.5	5.0	0.5	Chloroform	ND<2.5	5.0	0.5
Chloromethane	ND<2.5	5.0	0.5	Dibromochloromethane	ND<2.5	5.0	0.5
1,2-Dibromoethane (EDB)	ND<2.5	5.0	0.5	1,2-Dichlorobenzene	ND<2.5	5.0	0.5
1,3-Dichlorobenzene	ND<2.5	5.0	0.5	1,4-Dichlorobenzene	ND<2.5	5.0	0.5
Dichlorodifluoromethane	ND<2.5	5.0	0.5	1,1-Dichloroethane	ND<2.5	5.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5	5.0	0.5	1,1-Dichloroethene	ND<2.5	5.0	0.5
cis-1,2-Dichloroethene	83	5.0	0.5	trans-1,2-Dichloroethene	ND<2.5	5.0	0.5
1,2-Dichloropropane	ND<2.5	5.0	0.5	cis-1,3-Dichloropropene	ND<2.5	5.0	0.5
trans-1,3-Dichloropropene	ND<2.5	5.0	0.5	Ethylbenzene	ND<2.5	5.0	0.5
Freon 113	ND<50	5.0	10	Methyl-t-butyl ether (MTBE)	ND<2.5	5.0	0.5
Methylene chloride	ND<2.5	5.0	0.5	1,1,1,2-Tetrachloroethane	ND<2.5	5.0	0.5
1,1,2,2-Tetrachloroethane	ND<2.5	5.0	0.5	Tetrachloroethene	ND<2.5	5.0	0.5
Toluene	ND<2.5	5.0	0.5	1,1,1-Trichloroethane	ND<2.5	5.0	0.5
1,1,2-Trichloroethane	ND<2.5	5.0	0.5	Trichloroethene	ND<2.5	5.0	0.5
Trichlorofluoromethane	ND<2.5	5.0	0.5	Vinyl Chloride	ND<2.5	5.0	0.5
Xylenes	ND<2.5	5.0	0.5				

Surrogate Recoveries (%)

%SS1:	98	%SS2:	103
%SS3:	106		

Comments: b1

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

Angela Rydelius, Lab Manager

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P & D Environmental	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/14/08
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/14/08

HVOCs and MBTEX by P&T and GC-MS (8021 BasicTarget List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807239

Lab ID	0807239-003B
Client ID	B25W-45
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Benzene	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	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
1,3-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	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Freon 113	ND	1.0	10	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,1,1-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	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	91	%SS2:	98
%SS3:	100		

Comments: b1

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

Angela Rydelius, Lab Manager

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P & D Environmental	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/14/08
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/14/08

HVOCs and MBTEX by P&T and GC-MS (8021 BasicTarget List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807239

Lab ID	0807239-004B
Client ID	B26W-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Benzene	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	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
1,3-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	1.4	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	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
Freon 113	ND	1.0	10	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,1,1-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	Vinyl Chloride	0.74	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	91	%SS2:	98
%SS3:	101		

Comments:

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"
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P & D Environmental	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/15/08
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/15/08

HVOCs and MBTEX by P&T and GC-MS (8021 BasicTarget List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807239

Lab ID	0807239-005B
Client ID	B27W-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Benzene	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	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
1,3-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	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Freon 113	ND	1.0	10	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,1,1-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	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	100	%SS2:	104
%SS3:	114		

Comments: b1

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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P & D Environmental	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/14/08-07/16/08
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/14/08-07/16/08

Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons as Gasoline with Stoddard Solvent*

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0807239

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0807239-001A	B21W-25	W	41,000,d5,b6,b1	50,000	50	105
0807239-002A	B22W-45	W	780,d5,b1	930	1	94
0807239-003A	B25W-45	W	ND,b1	ND	1	100
0807239-004A	B26W-3	W	210,d9	290	1	98
0807239-005A	B27W-3	W	ND,b1	ND	1	98

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	50	µg/L
	S	NA	NA	mg/Kg

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d9) no recognizable pattern

DHS ELAP Certification 1644

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P & D Environmental	Client Project ID: # 0298; Snow Cleaners- Oakland	Date Sampled: 07/07/08-07/08/08
		Date Received: 07/09/08
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted: 07/09/08
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/12/08-07/13/08

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0807239

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0807239-001A	B21W-25	W	62,000,e11,b6,b1	5200	5	103
0807239-002A	B22W-45	W	2600,e11,b1	480	1	99
0807239-003A	B25W-45	W	ND,b1	ND	1	100
0807239-004A	B26W-3	W	490,e7,e2	1100	1	101
0807239-005A	B27W-3	W	4100,e7,e2,b1	11,000	20	96

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0807239

EPA Method SW8260B	Extraction SW5030B	BatchID: 36805	Spiked Sample ID: 0807208-002A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	ND	10	112	109	2.86	97.9	96.7	1.17	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	98	95.2	2.89	108	107	0.624	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	109	105	2.86	118	118	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	121	118	2.95	94.9	93.3	1.75	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	109	106	2.11	97.6	94.8	2.92	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	121	119	1.97	100	98.3	1.76	70 - 130	30	70 - 130	30
Toluene	ND	10	103	99.3	3.36	103	102	0.978	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	106	104	2.76	112	110	1.97	70 - 130	30	70 - 130	30
%SS1:	96	25	100	102	1.21	95	94	1.30	70 - 130	30	70 - 130	30
%SS2:	101	25	102	101	0.550	99	100	0.978	70 - 130	30	70 - 130	30
%SS3:	108	25	107	109	2.08	98	99	1.90	70 - 130	30	70 - 130	30

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

NONE

BATCH 36805 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807239-001B	07/08/08 1:00 PM	07/16/08	07/16/08 2:51 PM	0807239-002B	07/07/08 12:35 PM	07/15/08	07/15/08 3:50 PM
0807239-003B	07/07/08 9:55 AM	07/14/08	07/14/08 4:22 PM	0807239-004B	07/08/08 2:45 PM	07/14/08	07/14/08 5:01 PM
0807239-005B	07/08/08 3:15 PM	07/15/08	07/15/08 5:10 PM				

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

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0807239

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 36839 Spiked Sample ID: 0807214-009A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	96.7	94.8	1.97	93.8	100	6.59	70 - 130	20	70 - 130	20
MTBE	ND	10	81.5	90.9	11.0	94.2	103	8.82	70 - 130	20	70 - 130	20
Benzene	ND	10	90.1	89.3	0.940	87.6	88.1	0.518	70 - 130	20	70 - 130	20
Toluene	ND	10	85.1	83	2.33	86.2	86	0.290	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	91.6	88.8	3.10	91.4	92.6	1.29	70 - 130	20	70 - 130	20
Xylenes	ND	30	90.1	85.3	5.49	102	103	1.04	70 - 130	20	70 - 130	20
%SS:	96	10	102	101	1.51	93	91	1.34	70 - 130	20	70 - 130	20

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

NONE

BATCH 36839 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807239-001A	07/08/08 1:00 PM	07/16/08	07/16/08 12:57 AM	0807239-002A	07/07/08 12:35 PM	07/15/08	07/15/08 6:24 PM
0807239-003A	07/07/08 9:55 AM	07/14/08	07/14/08 10:57 PM	0807239-004A	07/08/08 2:45 PM	07/15/08	07/15/08 6:54 PM
0807239-005A	07/08/08 3:15 PM	07/16/08	07/16/08 4:30 PM				

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

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0807239

EPA Method SW8015C	Extraction SW3510C	BatchID: 36860	Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	116	106	9.38	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	120	108	10.6	N/A	N/A	70 - 130	30

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

NONE

BATCH 36860 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807239-001A	07/08/08 1:00 PM	07/09/08	07/12/08 3:15 PM	0807239-002A	07/07/08 12:35 PM	07/09/08	07/12/08 1:01 PM
0807239-003A	07/07/08 9:55 AM	07/09/08	07/13/08 2:10 PM	0807239-004A	07/08/08 2:45 PM	07/09/08	07/13/08 10:36 AM
0807239-005A	07/08/08 3:15 PM	07/09/08	07/13/08 3:41 AM				

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

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer