

dehloptoxic, Env. Health

From: Grover Buhr [gsbuhr@treadwellrollo.com]
Sent: Friday, December 16, 2005 8:46 AM
To: Drogos, Donna, Env. Health
Subject: Raw Data for Pleasanton

Attachments: Raw Data-Focused Excavations.pdf



Raw Data-Focused
Excavations.p...

Donna,

I am attaching the raw data for our latest soil sampling. I'll do up a report when we (you and I) decide how you want the report. I'm going to call you now to discuss the work.

Regards,
Grover

<<Raw Data-Focused Excavations.pdf>>

Grover Buhr
Senior Geologist (510) 874-4500 ext. 529
Treadwell & Rollo fax 874-4507

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McC Campbell Analytical, Inc.

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

Treadwell & Rollo 501 14Th Street, 3rd Floor Oakland, CA 94612	Client Project ID: #3149.01; Pleasanton Assisted Living Facility	Date Sampled: 10/03/05
		Date Received: 10/11/05
	Client Contact: Grover Buhr	Date Reported: 10/11/05
	Client P.O.:	Date Completed: 10/11/05

WorkOrder: 0510173

October 11, 2005

Dear Grover:

Enclosed are:

- 1). the results of **10** analyzed samples from your **#3149.01; Pleasanton Assisted Living Facility 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. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



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Treadwell & Rollo 501 14Th Street, 3rd Floor Oakland, CA 94612	Client Project ID: #3149.01; Pleasanton Assisted Living Facility	Date Sampled: 10/03/05
	Client Contact: Grover Buhr	Date Received: 10/11/05
	Client P.O.:	Date Extracted: 10/11/05
		Date Analyzed: 10/11/05

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0510173

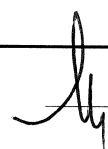
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0510173-001A	TP-4-5.0	S	3.0,g,b	9.5	1	100
0510173-002A	TP-4-4.0North	S	46,g,b	200	1	100
0510173-003A	TP-4-4.0East	S	29,g	180	2	98
0510173-004A	TP-4-4.0South	S	39,g	220	2	97
0510173-005A	TP-4-4.0West	S	66,g	500	5	93
0510173-006A	EB-4-6.0	S	19,g	140	2	98
0510173-007A	EB-4-4.0North	S	21,g	160	2	88
0510173-008A	EB-4-4.0East	S	11,g	67	1	100
0510173-009A	EB-4-4.0South	S	37,g,b	150	2	81
0510173-010A	EB-4-4.0West	S	24,g	150	2	82

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	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 McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; r) results are reported on a dry weight basis

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510173

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 18461			Spiked Sample ID: 0510138-014a		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	28	20	NR	NR	NR	109	108	0.403	70 - 130	70 - 130
%SS:	103	50	105	107	2.22	106	105	0.351	70 - 130	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										

BATCH 18461 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510173-001A	10/03/05 1:12 PM	10/11/05	10/11/05 3:57 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510173

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 18461			Spiked Sample ID: 0510138-014a		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	28	20	NR	NR	NR	109	108	0.403	70 - 130	70 - 130
%SS:	103	50	105	107	2.22	106	105	0.351	70 - 130	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

BATCH 18461 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510173-001A	10/03/05 1:12 PM	10/11/05	10/11/05 3:57 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510173

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 18482			Spiked Sample ID: 0510179-004A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	4.3	20	100	101	0.563	105	105	0	70 - 130	70 - 130
%SS:	92	50	104	105	1.17	104	105	0.242	70 - 130	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

BATCH 18482 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510173-002A	10/03/05 1:15 PM	10/11/05	10/11/05 5:10 PM	0510173-003A	10/03/05 1:18 PM	10/11/05	10/11/05 2:21 PM
0510173-004A	10/03/05 1:21 PM	10/11/05	10/11/05 3:29 PM	0510173-005a	10/03/05 1:24 PM	10/11/05	10/11/05 1:31 PM
0510173-006a	10/03/05 2:45 PM	10/11/05	10/11/05 2:45 PM	0510173-007A	10/03/05 2:47 PM	10/11/05	10/11/05 3:29 PM
0510173-008A	10/03/05 2:55 PM	10/11/05	10/11/05 4:38 PM	0510173-009a	10/03/05 3:03 PM	10/11/05	10/11/05 2:45 PM
0510173-010a	10/03/05 3:11 PM	10/11/05	10/11/05 1:31 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.

0510173

720-104

100058

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

RUSH

 page 1 of 1

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Pleasanton Assisted Living Facility

Job Number: 3149.01

Project Manager/Contact: Arvoer Bohr

Samplers: Eric Minfa

Recorder (Signature Required): [Signature]

Turnaround Time
10/11/05
5 days

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix			No. Containers & Preservative					Silica gel clean-up	Hold	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other			
TP-4-5.0	10/3/05	13:12		X										
TP-4-4.0 North	}	13:15		X										
TP-4-4.0 East		13:18		X										
TP-4-4.0 South		13:21		X										
TP-4-4.0 West		13:24		X										
EB-4-6.0		14:45		X										
EB-4-4.0 North		14:47		X										
EB-4-4.0 East		14:55		X										
EB-4-4.0 South		15:03		X										
EB-4-4.0 West		15:11		X										

RUSH

GOOD CONDITION APPROPRIATE CONTAINERS
HEAD SPACE ABSENT PRESERVED IN LAB
DECLORINATED IN LAB
PRESERVATION VOAS O&G METALS OTHER

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10/3/05</u>	Time <u>16:05</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10/11/05</u>	Time <u>0800</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10/11/05</u>	Time <u>10:00</u>	Received by: (Signature) <u>[Signature]</u>	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature) <u>[Signature]</u>	Date <u>10/3/05</u>	Time <u>1605</u>

Sent to Laboratory (Name): STL Laboratories
Laboratory Comments/Notes:

Method of Shipment Lab courier Fed Ex Airborne UPS
 Hand Carried Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: **002475**
Received @ MAI by: [Signature] 10/11/05 958AM



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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Treadwell & Rollo 501 14Th Street, 3rd Floor Oakland, CA 94612	Client Project ID: #3149.01; Pleasanton Assisted Living Facility	Date Sampled: 10/13/05
		Date Received: 10/13/05
	Client Contact: Grover Buhr	Date Reported: 10/14/05
	Client P.O.:	Date Completed: 10/14/05

WorkOrder: 0510253

October 14, 2005

Dear Grover:

Enclosed are:

- 1). the results of 1 analyzed sample from your **#3149.01; Pleasanton Assisted Living Facility project,**
- 2). a QC report for the above sample
- 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. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510253

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 18541			Spiked Sample ID: 0510286-003A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	16	20	26.3, F1	27.4, F1	0.987	99	99.5	0.516	70 - 130	70 - 130
%SS:	95	50	99	92	7.14	87	90	3.35	70 - 130	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										
F1 = MS / MSD exceed acceptance criteria. LCS - LCSD validate prep batch.										

BATCH 18541 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510253-001A	10/13/05 8:40 AM	10/13/05	0/13/05 11:50 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.

TWRK 05/0253

RUSH!

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: Pleasanton Assisted Living Facility
Job Number: 3149.01
Project Manager/Contact: G. Buhr
Samplers: J. Gruber
Recorder (Signature Required): [Signature]

Turnaround Time
~~Standard~~
24 Hour

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix			No. Containers & Preservative					Silica gel clean-up	Hold	Remarks
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other			
TP-4a-3.0 West	10/13/05	840		X									X	24 Hour Rush Silica Gel

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10/13/05</u>	Time <u>1455</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10/13/05</u>	Time <u>1455</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10/13/05</u>	Time <u>540</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10/13/05</u>	Time <u>5:40p</u>
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): McCambell
Laboratory Comments/Notes:
Method of Shipment Lab courier Fed Ex Airborne UPS
 Hand Carried Private Courier (Co. Name)



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Treadwell & Rollo 501 14Th Street, 3rd Floor Oakland, CA 94612	Client Project ID: #3149.01; Pleasanton Assisted Living Facility	Date Sampled: 10/04/05
		Date Received: 10/11/05
	Client Contact: Grover Buhr	Date Reported: 10/11/05
	Client P.O.:	Date Completed: 10/11/05

WorkOrder: 0510172

October 11, 2005

Dear Grover:

Enclosed are:

- 1). the results of 11 analyzed samples from your **#3149.01; Pleasanton Assisted Living Facility 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. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



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	Client Contact: Grover Buhr	Date Received: 10/11/05
	Client P.O.:	Date Analyzed: 10/11/05
		Date Extracted: 10/11/05

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0510172

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0510172-001A	TP4-EB4-EB3	S	2.8,g , b	17	1	99
0510172-002A	EB-3-5.0	S	3.8,g,b,f	15	1	107
0510172-003A	EB-3-4.0North	S	1.6,g	11	1	92
0510172-004A	EB-3-4.0East	S	33,c,g	32	1	100
0510172-005A	EB-3-4.0South	S	8.7,g	43	2	85
0510172-006A	EB-3-4.0West	S	1.4,g	18	1	100
0510172-007A	EB-3-10.5	S	ND	ND	1	99
0510172-008A	EB-3-9.0North	S	ND	ND	1	84
0510172-009A	EB-3-9.0East	S	ND	ND	1	85
0510172-010A	EB-3-10.0South	S	ND	ND	1	100
0510172-011A	EB-3-9.0West	S	ND	ND	1	99

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	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 McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; r) results are reported on a dry weight basis



Treadwell & Rollo 501 14Th Street, 3rd Floor Oakland, CA 94612	Client Project ID: #3149.01; Pleasanton Assisted Living Facility	Date Sampled: 10/04/05
	Client Contact: Grover Buhr	Date Received: 10/11/05
	Client P.O.:	Date Extracted: 10/11/05
		Date Analyzed: 10/11/05

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0510172

Lab ID	0510172-001A
Client ID	TP4-EB4-EB3
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

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

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 coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510172

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 18478			Spiked Sample ID: 0510170-010A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	0.60	116	113	2.94	109	110	0.293	70 - 130	70 - 130
MTBE	ND	0.10	81.8	83.1	1.64	85.7	85.1	0.691	70 - 130	70 - 130
Benzene	ND	0.10	88.4	88	0.389	88.2	87.8	0.471	70 - 130	70 - 130
Toluene	ND	0.10	88.2	87.6	0.765	86.5	87.5	1.20	70 - 130	70 - 130
Ethylbenzene	ND	0.10	92.3	91.4	0.987	91.7	90.9	0.905	70 - 130	70 - 130
Xylenes	ND	0.30	94.3	94.3	0	94.3	90.3	4.33	70 - 130	70 - 130
%SS:	92	0.10	110	105	4.65	101	107	5.77	70 - 130	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

BATCH 18478 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510172-001A	10/04/05 9:05 AM	10/11/05	10/11/05 1:46 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 = 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510172

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 18461			Spiked Sample ID: 0510138-014a		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	28	20	NR	NR	NR	109	108	0.403	70 - 130	70 - 130
%SS:	103	50	105	107	2.22	106	105	0.351	70 - 130	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

BATCH 18461 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510172-001A	10/04/05 9:05 AM	10/11/05	10/11/05 1:13 PM	0510172-002a	10/04/05 9:08 AM	10/11/05	10/11/05 1:13 PM
0510172-003A	10/04/05 9:11 AM	10/11/05	10/11/05 1:12 PM	0510172-004A	10/04/05 9:14 AM	10/11/05	10/11/05 1:12 PM
0510172-005A	10/04/05 9:19 AM	10/11/05	10/11/05 2:21 PM	0510172-006A	10/04/05 9:23 AM	10/11/05	10/11/05 2:20 PM
0510172-007A	0/04/05 10:40 AM	10/11/05	10/11/05 6:47 PM	0510172-008A	0/04/05 11:00 AM	10/11/05	10/11/05 6:21 PM
0510172-009A	0/04/05 11:04 AM	10/11/05	10/11/05 5:10 PM	0510172-010A	0/04/05 11:08 AM	10/11/05	10/11/05 4:34 PM
0510172-011A	0/04/05 11:12 AM	10/11/05	10/11/05 5:41 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0510172

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 18432			Spiked Sample ID: 0510046-012A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	0.050	94.1	94.1	0	93.4	94	0.599	70 - 130	70 - 130
Benzene	ND	0.050	116	119	2.78	118	120	1.84	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	0.25	89.7	86.2	3.95	92.2	89.9	2.56	70 - 130	70 - 130
Chlorobenzene	ND	0.050	108	109	1.32	105	108	3.42	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	95.1	94.6	0.492	94	94.6	0.688	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	120	112	6.68	113	118	4.21	70 - 130	70 - 130
1,1-Dichloroethene	ND	0.050	119	116	2.63	110	113	3.11	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	113	113	0	110	112	1.57	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	100	98.3	1.78	97.4	98.3	0.943	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	103	102	0.938	102	102	0	70 - 130	70 - 130
Toluene	ND	0.050	103	104	0.239	99.5	103	3.79	70 - 130	70 - 130
Trichloroethene	ND	0.050	93.4	92.7	0.725	90.2	93.2	3.27	70 - 130	70 - 130
%SS1:	103	0.050	107	106	1.17	107	106	1.18	70 - 130	70 - 130
%SS2:	101	0.050	100	99	0.692	99	99	0	70 - 130	70 - 130
%SS3:	97	0.050	114	114	0	114	113	0.275	70 - 130	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

BATCH 18432 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510172-001A	10/04/05 9:05 AM	10/11/05	10/11/05 3:02 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 acetone may occasionally appear in the method blank at low levels.

SEVERN
TRENT

0510172
STL

720-107
STL San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

RUSH #: 100088
Date 10/4/05 Page 1 of 2

Gasbuhr@treadwellrollo.com

Report To Analysis Request

Attn: Gregor Buhr
Company: Treadwell & Rollo 94612
Address: 501 14th St, 3rd Flr, Oakland, CA
Phone: (510) 874-4500 Email: Gasbuhr@treadwellrollo.com
Bill To: Gregor Buhr Sampled By: Eric Monta
Treadwell & Rollo Phone: (510) 874-4500
Attn: _____

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA 8015/8021 Gas w/ BTEX	Purgeable Aromatics BTEX EPA - 8021 8260B	TEPH EPA 8015M* Silica Gel Diesel Motor Oil Other	Fuel Tests EPA 8260B: Gas BTEX Five Oxygenates DCA, EDB Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) EPA 8260B 624	Semivolatiles GC/MS EPA 8270 625	Oil and Grease Petroleum (EPA 1664) Total	Pesticides EPA 8081 608 PCBs EPA 8082 608	PNAs by 8270 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: Lead LUFT RCRA Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. TSS Alkalinity TDS	Anions: Cl SO ₄ NO ₃ Br NO ₂ PO ₄	Number of Containers			
TP4-EB4-EB3	10/4/05	9:05	Soil	ICE	X		X			X															
EB-3-5.0	}	9:08	Soil	ICE			X																		
EB-3-4.0 North		9:11	Soil	ICE			X																		
EB-3-4.0 East		9:14	Soil	ICE			X																		
EB-3-4.0 South		9:19	Soil	ICE			X																		
EB-3-4.0 West		9:23	Soil	ICE			X																		
EB-3-10.5		10:40	Soil	ICE			X																		
EB-3-9.0 North		11:00	Soil	ICE			X																		
EB-3-9.0 East		11:04	Soil	ICE			X																		
EB-3-10.0 South		11:08	Soil	ICE			X																		

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: <u>Pleasanton Assisted Living Facility</u>	# of Containers: <u>11 total</u>	Signature: <u>Eric Monta</u>	Time: <u>12:20</u>	Signature: <u>MUSA</u>	Time: <u>10:00</u>	Signature: <u>Maria Vernegas</u>	Time: <u>9:58pm</u>		
Project#: <u>3149.01</u>	Head Space: <u>N/A</u>	Printed Name: <u>Treadwell & Rollo</u>	Date: <u>10/4/05</u>	Printed Name: <u>STL S-T</u>	Date: <u>10/11/05</u>	Printed Name: <u>MAF</u>	Date: <u>10/11/05</u>		
PO#:	Temp: <u>30</u>	Company:		Company:		Company:			
Credit Card#:	Conforms to record:			1) Received by: <u>Joan Muller</u> 12:20		2) Received by: <u>MUSA</u> 08:00		3) Received by: <u>Maria Vernegas</u>	
T A T	5 Day	72h	48h	24h	Other:	Signature: <u>Joan Muller</u>	Time: <u>10-4-05</u>	Signature: <u>MUSA</u>	Time: <u>10/11/05</u>
Report: <input type="checkbox"/> Fuel Oil <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDP	Special Conditions / Comments: <u>GOOD CONDITION</u> <u>APPROPRIATE</u> <u>HEAD SPACE ABSENT</u> <u>CONTAINERS</u> <u>DECHLORINATED IN LAB</u> <u>PRESERVED IN LAB</u>		Signature: <u>Joan Muller</u>		Time: <u>10-4-05</u>	Signature: <u>MUSA</u>	Time: <u>10/11/05</u>	Signature: <u>Maria Vernegas</u>	Time: <u>9:58pm</u>
<u>PRESERVATION</u>	<u>VOAS</u>	<u>O&G</u>	<u>METALS</u>	<u>OTHER</u>	Company: <u>STL S-T</u>	Company: <u>SILCS-F</u>	Company: <u>MAF</u>	Company: <u>STL S-T</u>	Company: <u>MAF</u>

*STL SF reports 8015M from C₉-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₈.

McC Campbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD



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

WorkOrder: 0510172

ClientID: TWRK

EDF: NO

Report to:

Grover Buhr
 Treadwell & Rollo
 501 14Th Street, 3rd Floor
 Oakland, CA 94612

TEL: (510) 874-4500
 FAX: (510) 874-4507
 ProjectNo: #3149.01; Pleasanton Assisted Living F
 PO:

Bill to:

Accounts Payable
 Treadwell & Rollo
 501 14Th Street, 3rd Floor
 Oakland, CA 94612

Requested TAT:

1 day

Date Received: 10/11/2005

Date Printed: 10/11/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0510172-001	TP4-EB4-EB3	Soil	10/4/05 9:05:00 AM	<input type="checkbox"/>	A	A														
0510172-002	EB-3-5.0	Soil	10/4/05 9:08:00 AM	<input type="checkbox"/>			A													
0510172-003	EB-3-4.0North	Soil	10/4/05 9:11:00 AM	<input type="checkbox"/>			A													
0510172-004	EB-3-4.0East	Soil	10/4/05 9:14:00 AM	<input type="checkbox"/>			A													
0510172-005	EB-3-4.0South	Soil	10/4/05 9:19:00 AM	<input type="checkbox"/>			A													
0510172-006	EB-3-4.0West	Soil	10/4/05 9:23:00 AM	<input type="checkbox"/>			A													
0510172-007	EB-3-10.5	Soil	10/4/05 10:40:00	<input type="checkbox"/>			A													
0510172-008	EB-3-9.0North	Soil	10/4/05 11:00:00	<input type="checkbox"/>			A													
0510172-009	EB-3-9.0East	Soil	10/4/05 11:04:00	<input type="checkbox"/>			A													
0510172-010	EB-3-10.0South	Soil	10/4/05 11:08:00	<input type="checkbox"/>			A													
0510172-011	EB-3-9.0West	Soil	10/4/05 11:12:00	<input type="checkbox"/>			A													

Test Legend:

1	8260B_S	2	G-MBTEX_S	3	TPH(DMO)WGS_S	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Maria Venegas

Comments: 24hr Rush

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.