

environmental service

by Papineau, R.E.A. 791

April 27, 2004

Mr. Robert Weston Alameda County Environmental Health Services **Environmental Protection Division** 1131 Harbor Bay Parkway Room 250 Alameda, CA 94502

Subject:

Alexander Company 6615 and 6833 Tassajara Road, Dublin, California

(ES Project 2003-043, -043.01, and -043.02)

Dear Mr. Weston:

This letter coveys laboratory analytical data collected from the above-named property, the "Property," in February, March and April 2004.

Background

Pinn Brothers Construction, Inc., the current owner of the Property elected to retain R & B Equipment Company to remove an abandoned underground storage tank (UST). The farm tank had been properly emptied of gasoline and then filled with sand. As such, the tank was closed in place and no longer considered a Underground Storage Tank. As a farm tank the UST was exempt from some regulations. The decision to remove it was based, in part, upon the proposed residential land use, a Planned Unit Development known as Tract 7441--Silveria Ranch---in the City of Dublin.

Levine-Fricke Recon (LFR) evaluated and reported soil and ground water quality in the vicinity of this UST in two reports dated February 5, 2001, and April 16, 2001. In February 2001, soil samples were collected by LFR from 4, 6, and 8 feet below grade surface (bgs) at a location directly adjacent to the UST. Gasoline, benzene, toluene, ethyl benzene, and xylenes concentrations were not detected at 4, 6, or 8 feet bgs at a location adjacent to the underground storage tank. Bore hole, SB-1, also adjacent to the underground storage tank, was continued to 27 feet but soil samples from 10 feet, 15 feet, and 20 feet bgs either were not collected.

In November 2000 and February 2001, grab ground water samples were collected by LFR from bore holes SB-1, SB-5, SB-6, SB-7, SB-8, SB-9, and SB-10. First ground water on the Property was reported by LFR in a thin sand lens at 27 feet below grade surface. The ground water samples were submitted for testing by a laboratory, and detectable concentrations of gasoline were reported in the ground water samples collected from SB-1 (18,000 ppb) and SB-5 (240 ppb). Detectable concentrations of benzene were reported in the ground water samples collected from SB-1 (71 ppb), SB-5 (3.3 ppb), and SB-8 (0.5 ppb, which is the limit of detection). Additionally, detectable concentrations of 1,2-dichloroethane (1,2-DCA) were reported in ground water samples collected from SB-5 (5.5 ppb) and SB-8 (1.1 ppb).

Tank Removal

A 300-gallon underground gasoline storage tank was removed, under permit issued by Alameda County Department of Environmental Health, on April 15, 2004. Tank removal and sampling were witnessed by Ms. Bonnie Terra, Alameda County/Dublin Fire Department. Laboratory results are summarized in Table 1.



Papineau. E. ES Project 2003-043
6615 Tassajara Road Dublin, California
ted on 4-15-2004 TABLE 1 Laboratory Analysis Results for Tank-Pull Soil Samples Collected on 4-15-2004 6615 Tassajara Road, Dublin, California

Sample ID	A	nalysis Results	for Soil Sample	s Collected on 4	<u> 15-2004 </u>				
Sample 119	Gasoline	BTEX	MtBE	1,2-DCA	Total Lead				
TP-1-5	ND	ND (all)	ND	ND	14				
TP-1-10	ND	ND (all)	ND	ND	14				
STKPL-1	ND	ND (all)	ND	ND	23				
Reporting Limits	1.0 mg/Kg	0.05 mg/Kg	0.005 mg/Kg	0.005 mg/Kg	5 mg/Kg				

The tank was measured to be 5 feet long and approximately 36 inches diameter. It was a single-wall steel tank, in poor condition, with numerous tears and rusted through on the bottom, and filled with sand. The Photo-Ionization Detector (PID) reading inside the tank and near the sand was 0.0 parts per million by volume (ppmv). The PID had been calibrated on April 14, 2004, to an isobutylene standard, 100 ppmv.

R & B Equipment Company lifted the tank with an excavator and laid the tank on plastic. The sand fill came out of the tank easily. There was no free liquid. The tank was placed on the truck for transportation under proper manifest with a One-Time EPA Hazardous Waste Manifest Identification Number obtained specifically for 6615 Tassajara Road, Dublin.

R& B Equipment Company then cleaned out the tank pit to a depth measured to be 5 feet below adjacent grade surface. Soil sample TP-1-5 was collected with a slide hammer and sample spoon loaded with a 2-inch diameter x 6-inch long brass sleeve from a depth interval of 5 to 5.5 feet. There was no head space in the sample. PID readings off the bucket as soil was being excavated were 0.0 ppmv. The PID reading over the top of the pit was generally 0.0 ppmv with a maximum instantaneous reading of 12 ppmv. Soil sample TP-1-5 consisted of very dark gray (2.5 Y 3/1) clay, stiff, damp, lacking petroleum odor and stain.

After collecting the initial soil sample, R & B Equipment Company was directed to continue excavation for the sole purpose of obtaining a second soil sample from a depth of 10 feet. There was no head space in the sample. PID readings off the bucket as soil was being excavated were 0.0 ppmv. There was no odor or discoloration observed in any bucket of soil. Excavated soil was placed on plastic. Ground water was not encountered in the tank during excavation for sampling. Soil sample TP-1-10 was collected off the bucket, with a slide hammer and sample spoon loaded with a 2-inch diameter x 6-inch long brass sleeve, from a depth of 10 feet. The soil sample consisted of very dark grayish brown (2.5 Y 3/2) sandy clay, stiff, damp, lacking petroleum odor and discoloration. A third soil sample (STKPL-1) was collected from the soil stockpile. PID readings taken less than 1 inch over the surface of the stockpiled soil were 0.0 ppmv.

Samples were capped with Teflon sheet and plastic end caps, labeled, and then transported in an ice chest with abundant water ice to McCampbell Analytical, Inc. The three samples were tested as discrete samples for gasoline (TPHg), benzene, toluene, ethyl benzene, xylenes (BTEX), and methyl



Papineau. R.E.A. 791 ES Project 2003-043 6615 Tassajara Road Dublin, California

tertiary-butyl ether (MtBE) by U.S. EPA Method 8021B/8015Cm; 1,2-dichloroethane (1,2-DCA) by U.S. EPA Method 8260B; and total lead by U.S. EPA Method 6010C.

Domestic Well Sampling & Laboratory Analysis Results

Two domestic wells were located at 6833 Tassajara Road, and one additional water well used for the cattle trough was located at 6615 Tassajara Road. The three on-site wells were destroyed by Pitcher Drilling, under permit to the Alameda County Zone 7 Water District, on February 25, February 26, and March 8, 2004. Before their destruction each on-site well was sampled. A domestic well located south of the Property, on the adjoining Nielsen parcel located at 6407 Tassajara Road, also was sampled. Laboratory results for water well samples are presented in Table 2.

TABLE 2 Laboratory Analysis Results for Domestic Well Water Samples 6407, 6615, and 6833 Tassajara Road, Dublin, California

Sample ID	Sampling	Analysis Results for Domestic Well Water Samples									
Sample 12	Date	Gasoline	BTEX	MtBE	1,2-DCA	Cadmium Chromium, Lead, Nickel	Zinc				
MW-1	3-25-2004	ND	ND (all)	ND	ND	ND	79				
MW-2	3-26-2004	ND	ND (all)	ND	ND	ND	90				
MW-3	3-08-2004	ND	ND (all)	ND	ND	ND	ND				
NIELSEN-1	3-09-2004	ND	ND (all)	ND	ND	ND	ND				
Reporting Limits		50 μg/L	0.5 µg/L	0.5 μg/L	0.5 μg/L	5 μg/L	20 μg/I				

Well construction logs were not available for any of the three on-site wells. Well MW-1 was a 8-inch diameter, 149-foot deep well. Well MW-2 was a 6-inch diameter, 139-foot deep well. Well MW-3, the water supply well for the cattle trough, was a 10-inch diameter, 140-foot deep well. Total depth and diameter were measured using a tape measure.

Before sampling, depth to the ground water surface was measured using a water level meter with audible sounder. Depth to water was approximately 71 feet in wells MW-1 and MW-2, and 6 feet in well MW-3. Temperature, pH, electrical conductivity, turbidity, and dissolved oxygen concentration were measured using a Horiba meter.

Samples were carefully poured into 40-ml VOA vials, 500-ml wide mouth plastic and 1-L amber glass containers. Samples were labeled and placed in an ice chest with water ice for transportation to McCampbell Analytical, Inc., under a proper Sample Chain-of-Custody. Each sample was tested by the laboratory for Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethyl benzene, and xylenes (BTEX) by U.S. EPA Method 8021B/8015Cm; methyl tertiary-butyl ether (MtBE), fuel oxygenates, and 1,2-dichloroethane (1,2-DCA) by U.S. EPA Method 8260B; and LUFT 5 metals by U.S. EPA Method 200.7/200.9.

Concentrations of TPHg, BTEX, MtBE and other fuel oxygenates, and 1,2-DCA were not detected in any of the water samples.



Papineau. R. E. A. 791
ES Project 2003-043
6615 Tassajara Road Dublin, California

Conclusion and Recommendation

The laboratory analytical data support the conclusion that the former underground gasoline storage tank at 6615 Tassajara Road, Dublin, California, left no detectable concentrations of gasoline, benzene, or other fuel constituents in the soil at 5 feet and 10 feet below grade surface, directly beneath the tank. Also, the water samples collected from the nearest domestic water wells around the former tank contained no detectable concentrations of gasoline, benzene, 1,2-DCA, MtBE or other fuel constituents. In view of the analytical results, further actions including investigation, monitoring, and clean-up are not recommended.

The undersigned declare under penalty of perjury that the enclosed information is true and accurate to the best of their knowledge.

Sincerely,

Marc Papineau

California Registered Environmental Assessor 791

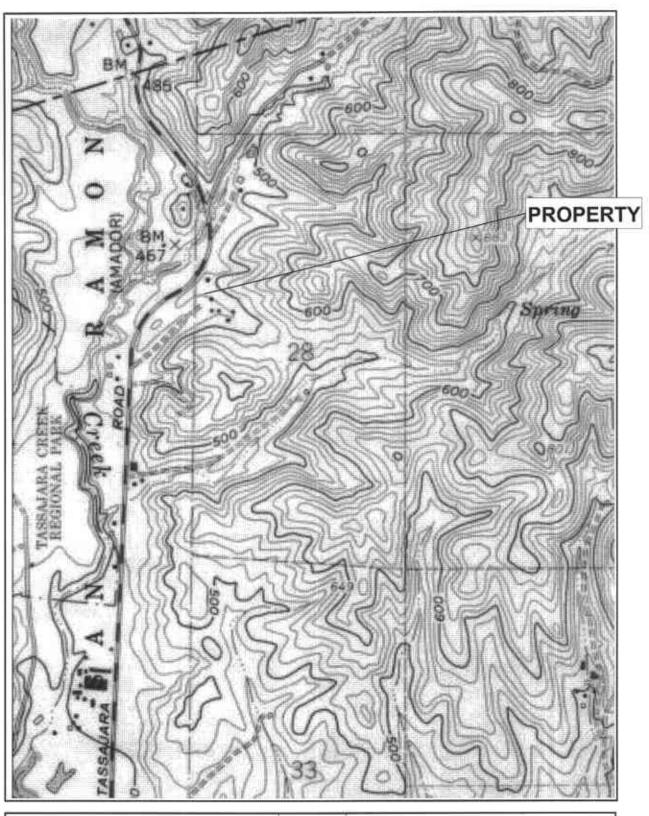
To the Med

R. Mark Armstrong

California Registered Geologist 6134

Mare Papureau

cc. Mr. Dale Garren, Pinn Brothers Construction, Inc.





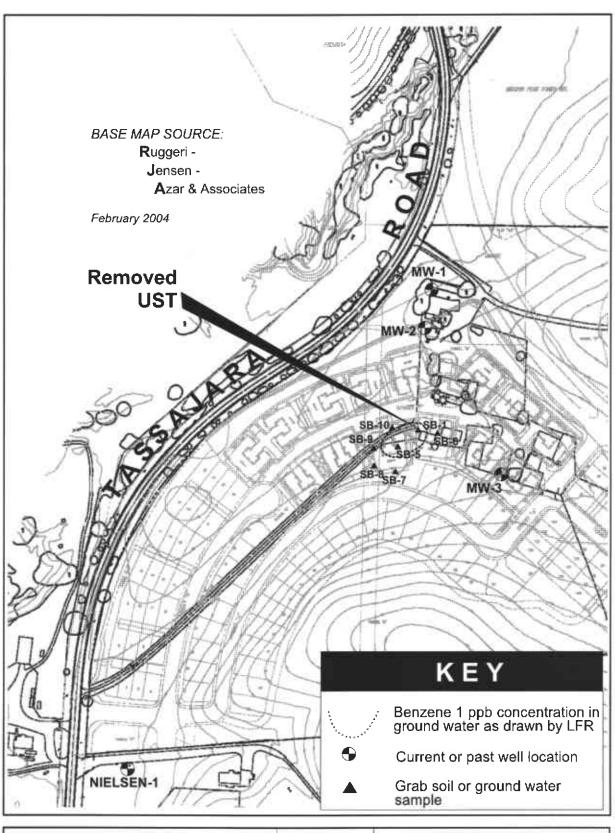
environmental service

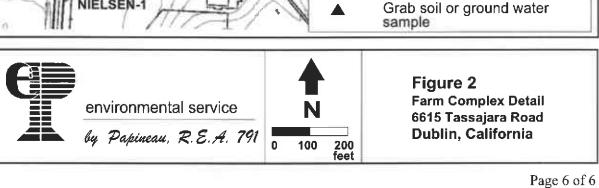
by Papineau, R.E.A. 791



1:14,000

Figure 1 Property Location Map 6615 Tassajara Road Dublin, California







Papineau. R. E.A. 791
ES Project 2003-043
6615 Tassajara Road Dublin, California

ATTACHMENTS

Laboratory Analytical Test Results and Sample Chains-of-Custody



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

Environmental Service	Client Project ID: #2003-043.02;	Date Sampled: 04/15/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 04/15/04
Castro Valley, CA 94552	Client Contact: Marc Papinean	Date Reported: 04/20/04
	Client P.O.:	Date Completed: 04/20/04

WorkOrder: 0404207

April 20, 2004

Dear Marc:

Enclosed are:

- 1). the results of 3 analyzed samples from your #2003-043.02; Tassajara Rd. 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.

Yours truly/

Angela Rydelius, Lab Manager



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Website: www.mccampbell.com E-mail: main@mccampbell.com

Environmental Service	Client Project ID: #2003-043.02;	Date Sampled: 04/15/04				
Tassajara Rd.	Tassajara Rd.	Date Received: 04/15/04				
Costro Vallay, CA 04552	Client Contact: Marc Papinean	Date Extracted: 04/15/04				
Castro Valley, CA 94552	Client P.O.:	Date Analyzed: 04/15/04-04/16/04				

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0404207

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	TP-1-5	s	ND	ND	ND	ND	ND	ND	1	92.4
002A	TP-1-10	s	ND	ND	ND	ND	ND	ND	ı	89.2
003A	STKPL-1	s	ND	ND	ND	ND	ND	ND	1	98.3
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ND means	Limit for DF =1; not detected at or ic reporting limit	W S	NA 1.0	NA 0.05	NA 0.005	0.005	NA 0.005	NA 0.005	1	ug/L mg/K

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

4

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



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	***				. ,		
Environmenta	l Service		pject ID: #2003-043.02;	Date Sampled:	04/15/04		
5789 Gold Cre	eek Drive	Tassajara	Ka.	04/15/04	/15/04		
C4 V-11	CA 04563	Client Co	ntact: Marc Papinean	04/15/04			
Castro Valley,	, CA 94332	Client P.C).;	Date Analyzed:	04/17/04		
	Ethylene D	ibromide (1,2	2-Dibromoethane) and 1,2-Dich	loroethane (1,2-DC	CA)*		
Extraction method: S	SW5030B		Analytical methods: SW8260B		Work (Order:	0404207
Lab ID	Client ID	Matrix	1,2-Dichloroethar		DF	% SS	
001A	TP-1-5	s	ND			1	90.9
002A	TP-1-10	s	ND			1	91.0
003A	STKPL-I	S	ND			1	85.3
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Reporting Limit for DF =1;	w	NA	NA
ND means not detected at or above the reporting limit	S	5.0	μg/Kg

^{*} 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.

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

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.





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Environmental Service	Client Project ID: #2003-043.02;	Date Sampled: 04/15/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 04/15/04
Castro Valley, CA 94552	Client Contact: Marc Papinean	Date Extracted: 04/15/04
Castro varies, Ort 94352	Client P.O.:	Date Analyzed: 04/16/04
	Lead by ICP*	

Extraction method: SW	3050B		Analytical metho		Work Order:	0404207
Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0404207-001A	TP-1-5	s	TTLC	14	1	96.7
0404207-002A	TP-1-10	s	TTLC	14	: L	102
0404207-003A	STKPL-1	S	TTLC	23	ı	96.7
					2	
				4		

Reporting Limit for DF = i; ND means not detected at or	W	TTLC	NA	mg/L
above the reporting limit	S	TTLC	5.0	mg/Kg

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

means surrogate recovery outside of acceptance range due to matrix interference; & means surrogate diluted out of acceptance range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid-Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~1 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0404207

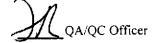
EPA Method: SW802	EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 11104 Spiked Sample ID: 0404175-001A									
	Sample	Sample Spiked		MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(biex) [£]	0.12	0.60	78.8	80.7	1.89	99.6	99.7	0.109	70	130
мтве	ND	0.10	94.6	93.2	1.49	96.5	93.1	3.54	70	130
Велгепе	ND	0.10	100	117	15.1	111	108	2.80	70	130
Toluene	ND	0.10	85	98	14.2	95.5	93.6	2.04	70	130
Ethylbenzene	ND	0.10	106	115	8.01	115	113	1.67	70	130
Xylenes	ND	0.30	96.3	103	7.01	103	100	3.28	70	130
%SS:	110	0.10	83.4	97.6	15.7	103	95.3	7.77	70	130

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

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

NONE

McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8260B

Matrix: S

WorkOrder: 0404207

EPA Method: SW8260B	8	xtraction:	SW50306	3	BatchID:	11122	S	piked Sampl	le ID: 04042	23-001A
	Sample	Spiked	MS*	MSD*	M\$-MSD*	LCS	LCSD	D LCS-LCSD Acceptance Crit		Criteria (%)
	μg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
1,2-Dichloroethane (1,2-DCA)	ND	50	108	107	0.142	117	123	4.62	70	130
%SS1:	94.0	50	97.6	97.6	0	104	103	1.17	70	130

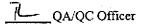
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

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 language content.

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



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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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QC SUMMARY REPORT FOR 6010C

Matrix: \$

WorkOrder: 0404207

EPA Method: 6010C	E	extraction:	SW3050E	3	BatchID:	11111	s	piked Sampl	le ID: 04042	04-001A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	6.60	50	104	108	2.88	110	113	2.42	80	120
%SS:	104	250	106	101	5.01	118	98.6	17.5	80	120

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

NONE

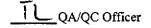
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

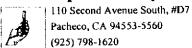
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* 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.

N/A = not applicable to this method.

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.





CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0404207

ClientID: ENVC

Report to:

Marc Papinean

Environmental Service 5789 Gold Creek Drive

Castro Valley, CA 94552

TEL: FAX:

510-881-8574 510-581-7204

ProjectNo: #2003-043.02; Tassajara Rd.

PO:

Bill to:

Requested TAT:

5 days

Marc Papinean

Environmental Services

5789 Gold Creek Drive Castro Valley, CA 94552 Date Received:

4/15/04

Date Printed:

4/15/04

										Re	quest	ed Tes	its (S	ee le	gend b	elow)						
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	1	2	3	4	5		6	7		8	9	10		11	12	:]	13	14	15
0404207-001	TP-1-1	Soil	4/15/04 11:45:00	THI		Α	Α					T]		Ţ	.			[!	
0404207-002	TP-1-10	Soil	4/15/04 12:00:00		Α	Α	Α									İ							
0404207-003	STKPL-1	Soil	4/15/04 12:15:00		A	Α	Α																

Test Legend:

1 G-MBTEX_S	2 PB_S	3 PBSCV_S	4	5
6	7	8	9	10
[11]	12	13	14	15

Prepared by: Maria Venegas

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.

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560

 CHAIN	ΟĒ	CUSTO	DY	RECORD
CHILINI	.			r-%
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TURN AROUND TIME

RUSH 24 HR

72 HR 5 DAY

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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	Ice	HCI	HNO3	TPH as	g L	TPH as Diesel (Total Petroleum Oil &	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	-			-				ļ
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Environmental Service	Client Project ID: #2003-043.01; 6833	Date Sampled: 02/25/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 02/26/04
G . W. II. GA 04553	Client Contact: Marc Papinean	Date Reported: 03/03/04
Castro Valley, CA 94552	Client P.O.:	Date Completed: 03/03/04

WorkOrder: 0402368

March 03, 2004

Dear Marc:

Enclosed are:

- 1). the results of 2 analyzed samples from your #2003-043.01; 6833 Tassajara Rd. 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



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Environmental Service	Client Project ID: #2003-043.01; 6833	Date Sampled: 02/25/04-02/26/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 02/26/04
G 4 V.11 CA 04563	Client Contact: Marc Papinean	Date Extracted: 02/27/04
Castro Valley, CA 94552	Client P.O.:	Date Analyzed: 02/27/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

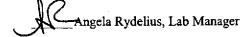
Extraction me	ethod: SW5030B	l .		Analytical	methods: SW80211	B/8015Cm		Work (Order: 0	402368
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S:
001A	MW-1	w	ND	ND	ND	ND	ND	ND	l	93.0
002A	MW-2	w	ND	ND	ND	ND	ND	ND	1	89.
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Reporting	Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	1	μg

ND means not detected at or above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg
* water and vapor samples ar	nd all TC	LP & SPLP extra	cts are reported in	ı ug/L, soil/sludge	e/solid samples in	mg/kg, wipe sa	mples 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: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.





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1							
Environmental Service		Client Project II	D: #2003-043.0	1; 6833	Date Sampled: 02/	/25/04-02/2	6/04
5789 Gold Creek Drive		Tassajara Rd.	_		Date Received: 02/	26/04	
Castro Valley, CA 94552		Client Contact:	Marc Papinean		Date Extracted: 02/	26/04	
Casuo Vaney, CA 94332		Client P.O.:			Date Analyzed: 02/	26/04	
Oxy	genated	l Volatile Organ	ics + EDB and	,2-DCA b	y P&T and GC/MS*		
Extraction Method: SW5030B		An	alytical Method: SW820	юв		Work Ord	ет: 0402368
	Lab ID	0402368-001B	0402368-002B		:		
CI	lient ID	MW-1	MW-2			Reporting	
	Matrix	W	W			DF	# j
	DF	1	1		:	S	W
Compound			Conc	entration		ug/kg	μg/L
tert-Amyl methyl ether (TAME)		ND	ND			NA	0.5
t-Butyl alcohol (TBA)	-	ND	ND			NA	5.0
1,2-Dichloroethane (1,2-DCA)		ND	ND			NA	0.5
Diisopropyl ether (DIPE)		ND	ND			NA	0.5
Ethyl tert-butyl ether (ETBE)		ND	ND			NA	0.5
Methyl-t-butyl ether (MTBE)		ND	ND			NA	0.5
		Surr	ogate Recoverie	s (%)			
%SS:		99.2	99.9				
Comments						1	



^{*} 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.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

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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Environmental Service	Client Project ID: #2003-043.01; 6833	Date Sampled: 02/25/04-02/26/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 02/26/04
Control Mallon CA 04552	Client Contact: Marc Papinean	Date Extracted: 02/26/04
Castro Valley, CA 94552	Client P.O.:	Date Analyzed: 02/26/04-02/27/04

LUFT 5 Metals*

Extraction meth	od: E200.7/E200.9			Analytica	l methods: E200.7	/E200.9		Wor	k Order:	0402368
Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
001C	MW-I	w	DISS.	ND	ND	ND	ND	0.079	1	N/A
002C	MW-2	w	DISS.	ND	ND	ND	ND	0.090	1	N/A
					<u> </u>					
									 	
			1					!		
Reporting	g Limit for DF =1;	w	DISS.	0.005	0.005	0.005	0.005	0.02		ng/L
ND mean	s not detected at or he reporting limit	S	TTLC	0.005 NA	0.003 NA	NA	NA	NA		NA

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

means surrogate recovery outside of acceptance range due to matrix interference; & means surrogate diluted out of acceptance range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid-Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/soild/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0402368

EPA Method: SW802	1B/8015Cm E	xtraction:	SW5030E	3	BatchID:	10529	S	piked Sampl	le ID: 04023	68-002A
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	109	112	2.96	94.2	103	9.31	70	130
мтве	ND	10	86.1	82.9	3.88	99.5	100	0.643	70	130
Benzene	ND	10	109	105	3.16	111	108	3.12	70	130
Toluene	ND	10	109	106	3.02	105	103	2.16	70	130
Ethylbenzene	ND	10	108	108	0	84.6	111	26.6	70	130
Xylenes	ND	30	110	110	0	100	100	0	70	130
%\$\$:	89.9	10	89.4	87.4	2.26	100	104	3.99	70	130

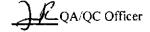
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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



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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0402368

EPA Method: SW8260B	E	Extraction:	SW5030E	3	BatchID:	10525	S	piked Sampl	e ID: 04023	368-002B
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	: Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	99.1	96	3.18	110	117	5.46	70	130
t-Butyl alcohol (TBA)	ND	50	89.9	90.1	0.303	88.6	90.8	2.47	70	130
1,2-Dichloroethane (1,2-DCA)	ND	10	110	105	3.74	112	117	4.88	70	130
Diisopropyl ether (DIPE)	ND	10	109	106	2.86	108	116	7.09	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	104	100	4.08	110	114	4.25	70	130
Methyl-t-butyl ether (MTBE)	ND	10	99.7	97	2.68	108	112	3.69	70	130
%SS1:	99.9	10	96.8	94.1	2.76	101	99.7	1.74	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.

[%] 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.

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.



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QC SUMMARY REPORT FOR Luft 5 Metals

Matrix: W

WorkOrder: 0402368

EPA Method: E20	00.7/E200.9 E	extraction:	E200.7/E	200.9	BatchID:	10541	S	piked Sampl	e ID: 04023	85-005A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Cadmium	N/A	1	N/A	N/A	N/A	111	107	3.75	80	120
Chromium	N/A	1	N/A	N/A	N/A	106	104	1.43	80	120
Nickel	N/A	ì	N/A	N/A	N/A	109	105	3.84	80	120
Zinc	N/A	l	N/A	N/A	N/A	104	101	2.74	80	120

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

NONE

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

N/A = not applicable to this method.

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.

4 QA/QC Officer

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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if; a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



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QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0402368

EPA Method: E200.7/E200.9) [xtraction:	E200.7/E	200.9	BatchID:	10532	S	piked Sampl	e ID: N/A	
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	0.010	N/A	N/A	N/A	101	86.8	11.2	80	120

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

NONE

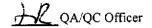
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.

N/A = not applicable to this method.

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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M	cCAMPI	BELL	ANALYTICAL, INC. PENUE SOUTH, #D7 O, CA 94553-5560								(1)		. R. I	A YYA						C	US Q	T	OL Ç	Y k	R	EC 	(CO).	RD					
		PACHEC	O, CA 945	53-556	50									Ţ	'UR	IN A	AK	υU	ענאן	, 11	IIVII	ע	1		11		# HR		<i>-:-</i> 48 I			2 HI	
Webs	site: <u>www.mc</u> c	campbell.	<u>com</u> Ema	il: ma	in@n	icca	mpb	ell.co	m o t	622				EI)F F	tegi	iirea	1? C	oelt	(N	orn	al)		ło						N	0		
Telephon	e: (925) 798	1620	-1 - / Y	31 Ta		ax:	(923	5) 79	0-1	322											ysis			ί						C	the	1	Comments
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Tele: (57¢) & & Your Tele: (57¢) & & Your Tele: (57¢) & Your Tele: (57	Re VALLE	CHERRY	I I	I-Mai	1: <i>1</i> 4	420		<u> </u>	Lie	glo.	he l	. +1+	-	MTB		Total Petroleum Oil & Greuse (5520 E&F/B&F)	8.1)							S		PAH's / PNA's by EPA 625 / 8270 / 8310				1			for Metals
Tele: (570) 88	31-857	4	F	ax: (570)5	8/	· 7	<u> 20</u>	<u>.</u>			_	015)		E&	(41							•	7	270				1			analysis:
Project #: 2003	3-043.1) [P	rojec	t Nar	ne:	68	ازد	<u>د ۽ آ</u>	54	'3 1	r k		*		5520	bons		020		7.7			15	\	80/10	<u> </u>	e e					(Yes)/No
Project Location:	603 5 12	(Sc) aye	Rosel		ر)ر1 _د رد	na.	<u>, (</u>	9_						8020		ES.E	car		2 / 8		NO			, ,	7	5	7 60	602	(0)				
Sampler Signatur	e: 71%	e from	- Busher or	<u>>. C</u>	126	(F)					4 D/F		<u>_</u>	(602/	E	Gre	dro	5	60.		B's			3	2	F.P.	010	10/)9/	•			
		SAMP	LING		Type Containers	Ĺ	MA	TRI	X	PI	VIE I	ERV	ED	~	(8015)	Oii &	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	p=4	EPA 608 / 8082 PCB's ONLY	41	51	EPA 524,2 / 624 / 8260	EPA 525 / 625 / 8270	s by	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)				
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SAMPLE ID (Field Point Name)	LOCATION			Containers	[5	٦			ַ ע			۳.		BTEX & TPH as	TPH as Diesel	etro	Petr	01/	8	EPA 608 / 8081	/ 80	EPA 8140 / 8141	EPA 8150 / 8151	22.	752	s/P	17	5.	00				
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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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

WorkOrder: 0402368

Report to:

Marc Papinean

Environmental Service

5789 Gold Creek Drive Castro Valley, CA 94552 TEL: FAX:

510-881-8574 510-581-7204

ProjectNo: #2003-043.01; 6833 Tassajara Rd.

PO:

Bill to:

Requested TAT:

5 days

Marc Papinean

Environmental Services

5789 Gold Creek Drive

Date Received:

2/26/04

Castro Valley, CA 94552 Date Printed: 2/26/04

									 R	equest	ed Test	s (See	egend	belo	ow)					
Sample ID	ClientSampID	Matrix	Collection Date H	loid	1	2	3	4	5	6	7	8	9		10	11	12	13	14	15
•																				
0402368-001	MW-1	Water	2/25/04 12:00:00		В	Α	С													
0402368-002	MW-2	Water	2/26/04 1:00:00 PM		В	Α	С]			I								!!

Test Legend:

1 5-OXYS+PBSCV_W	2 G-MBTEX_W	3 LUFT_Dis	4	[5]
6	7	8	9	[10]
[11]	12	13	14	15

Prepared by: Melissa 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.



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

Environmental Service	Client Project ID: #2003-043.01;	Date Sampled: 03/08/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 03/10/04
G (Mallow GA 04552	Client Contact: Marc Papinean	Date Reported: 03/16/04
Castro Valley, CA 94552	Client P.O.:	Date Completed: 03/16/04

WorkOrder: 0403169

March 16, 2004

Dear Marc:

Enclosed are:

- 1). the results of 1 analyzed sample from your #2003-043.01; Tassajara Rd. 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. 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 Website: www.mccampbell.com E-mail: main@mccampbell.com

Environ	mental Servic	e			2003-043.01;	I	Date Sampled:	03/08/04		
5789 Ge	old Creek Driv	ve	Tassajar	a Rd.		I	Date Received:	03/10/04		
			Client C	ontact: Marc	Papinean		Date Extracted:	03/14/04		
Castro V	alley, CA 94	552	Client P	.O.:		1	Date Analyzed:	03/14/04		
Extraction	Gaso	_	e (C6-C12)		rocarbons as		ith BTEX and l		Order: 04	403169
Lab ID	Client ID	Matrix	TPH(g)	мтве	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-3	w	ND	ND	ND	ND	ND	ND	1	86.7
								· · · · · · · · · · · · · · · · · · ·		
				1						

								,	
Reporting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L
ND means not detected at or above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	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: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

Angela I



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

<u> </u>					
Environmental Service		: #2003-043.01;	Date Sampled: 03/	08/04	
5789 Gold Creek Drive	Tassajara Rd.		Date Received: 03/	10/04	
	Client Contact: N	Marc Papinean	Date Extracted: 03/	12/04	
Castro Valley, CA 94552	Client P.O.:		Date Analyzed: 03/	12/04	
Oxygenated	l Volatile Organi	cs + EDB and 1,2-DCA by	P&T and GC/MS*		
Extraction Method: SW5030B		ytical Method: SW8260B		Work Orde	er: 0403169
Lab ID	0403169-001B				
Client ID	MW-3			Reporting DF	
Matrix	W			DF	=1
DF	1	:		S	W
Compound		Concentration		ug/kg	μg/L
tert-Amyl methyl ether (TAME)	ND		1	NA	0.5
t-Butyl alcohol (TBA)	ND			NA	5.0
1,2-Dibromoethane (EDB)	ND			NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND			NA	0.5
Diisopropyl ether (DIPE)	ND			NA	0.5
Ethyl tert-butyl ether (ETBE)	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	ND			NA	0.5
	Surro	gate Recoveries (%)			
%SS:	102				
Comments				,	
* water and vapor samples and all TCLP & product/oil/non-aqueous liquid samples in	SPLP extracts are repended.	orted in µg/L, soil/sludge/solid sam	ples in µg/kg, wipe sample:	s in μg/wipe,	
ND means not detected above the reporting	; limit; N/A means ana	lyte not applicable to this analysis.			
# surrogate diluted out of range or surrogat					
h) lighter than water immiscible sheen/prod	duct is present; i) liquid	d sample that contains greater than	~2 vol. % sediment; j) samp	le diluted due	to high

Angela Rydelius, Lab Manager

organic content.



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

Environmental Service	Client Project ID: #2003-043.01;	Date Sampled: 03/08/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 03/10/04
G . 17 H CA 04553	Client Contact: Marc Papinean	Date Extracted: 03/10/04
Castro Valley, CA 94552	Client P.O.:	Date Analyzed: 03/10/04-03/11/04

LUFT 5 Metals*

Analytical methods: E200.7/E200.9 Work Order: 0403169 Extraction method: E200.7/E200.9 Zinc % SS Nickel Lead Extraction Chromium Lab ID Client ID Matrix Cadmium ND t N/A ND ND ND MW-3 W DISS. ND 001C 0.005 Reporting Limit for DF =1; 0.005 0.005 0.02 mg/L W DISS. 0.005 ND means not detected at or

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

NA

NA

NA

NA

means surrogate recovery outside of acceptance range due to matrix interference; & means surrogate diluted out of acceptance range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid-Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

S

TTLC

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

Angela Rydelius, Lab Manager

NA

NA

above the reporting limit

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0403169

EPA Method: SW8021B/8015Cm Extraction: SW5030B			BatchID: 10679		Spiked Sample ID: 0403167-010A					
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	ND	60	102	103	0.676	104	104	0	70	130
MTBE	ND	10	100	101	1.20	106	110	3.41	70	130
Benzene	ND	10	107	108	0.949	112	116	3.89	70	130
Toluene	ND	10	100	102	1.68	103	108	4.16	70	130
Ethylbenzene	ND	10	108	108	0	110	113	3.33	70	130
Xylenes	ND	30	96	99.7	3.75	100	103	3.28	70	130
%SS:	93.1	10	102	103	0.706	103	105	1.27	70	130

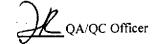
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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



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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.



NONE

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403169

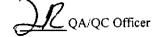
EPA Method: E20	0.7/E200.9 E	Extraction:		E200.7/E200.9		BatchID: 10700		Spiked Sample ID: N/A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
Cadmium	N/A	1	N/A	N/A	N/A	99.7	96.9	2.91	80	120	
Chromium	N/A	1	N/A	N/A	N/A	99.4	95.8	3.71	80	120	
Nickel	N/A	l	N/A	N/A	N/A	98.9	96.8	2.12	80	120	
Zinc	N/A	1	N/A	N/A	N/A	97.9	95.1	2.90	80	120	

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

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

N/A = not applicable to this method.

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



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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



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QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403169

EPA Method: E200.7/E200.9) [xtraction:	E200.7/E	200.9	BatchID:	10699	s	piked Sampl	e ID: N/A	
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	0.010	N/A	N/A	N/A	97.2	92.1	5,40	80	120

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

NONE

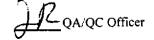
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.

N/A = not applicable to this method.

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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OC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0403169

EPA Method: SW8260B	E	Extraction: SW5030B			BatchID: 10696		Spiked Sample ID: 0403164-001A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	106	108	1.04	106	105	0.976	70	130
Benzene	ND	10	122	124	2.04	118	117	0.929	70	130
t-Butyl alcohol (TBA)	ND	50	84.2	85.2	1.19	95.4	91.2	4.53	70	130
Chlorobenzene	ND	10	107	107	0	101	100	0.881	70	130
1,2-Dibromoethane (EDB)	ND	10	100	101	0.164	99.8	99.5	0.270	70	130
1.2-Dichloroethane (1,2-DCA)	ND	10	120	122	1.54	116	114	1.83	70	130
1,1-Dichloroethene	ND	10	74	74.1	0.110	78.6	79.4	1.09	70	130
Diisopropyl ether (DIPE)	ND	10	112	115	2.70	108	108	0	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	103	104	1.17	101	101	0	70	130
Methyl-t-butyl ether (MTBE)	ND	10	103	104	1.39	98.8	98.9	0.110	70	130
Toluene	ND	10	101	104	2.81	97.6	98.4	0.759	70	130
Trichloroethene	ND	10	78.7	79.6	1.10	78.4	78.2	0.319	70	130
%SS1:	109	10	99.6	99.3	0.294	95.6	95.5	0.117	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.

MQA/QC Officer

[%] 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.

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.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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

WorkOrder: 0403169

Report to:

Marc Papinean **Environmental Service** 5789 Gold Creek Drive TEL:

510-881-8574

FAX:

510-581-7204 ProjectNo: #2003-043.01; Tassajara Rd.

PO:

Bill to:

Marc Papinean

Environmental Services 5789 Gold Creek Drive

Castro Valley, CA 94552

Requested TAT:

5 days

Date Received: 3/10/04

Date Printed: 3/10/04

Castro Valle	y, CA 94552	PO:	Castro	Valley, CA 94332	Date 17thtea.	3/10/01
Sample ID	ClientSampID	Matrix	Collection Date Hold 1 2 3 4 5	equested Tests (See legend below) 6 7 8 9 10	11 12 13	3 14 15
0403169-001	MW-3	Water	3/8/04 12:30:00 PM B A C			

Test Legend:

1	5-OXYS+PBSCV_W
6	
11	

2	G-MBTEX_W
7	
4.0	r
12	

3	LUFT_Dis	
8		
13		_

4	
9	
14	

5	 	 	
10		 	
15	 	 	

Prepared by: Melissa 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.

	T INC	CHAIN OF CUSTODY RECORD
T McCAMPBELL ANALYTICA	II. INC.	THE THE PARTY AND THE PARTY AN
110 2" AVENUE SOUTH, #D/		DUSH 24 HR 48 HR 72 HR 5 DA1
Telephone: (925) 798-1620 Fax: (925)	798-1622	EDF Required? Coelt (Normal) No Write On (DW) No
		Analysis Request Other Comments
Report To: MMRC PAPINEAU BILL To: 5	Same	
the cenvile		a la la la la la la la la la la la la la
4789 ONLY CREEK DRIVE	A Pasta alobal wit	# E Simb(e)
CASPED VALLET, CAT 15-Man.	Mara Persbeglobal. net	(2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Tele: (57) 821-85 74 Fax: (50)	581- 7204 Ame: Tasse, jara Rd.	Grease (5520 E&F/B&F) Grease (5520 E&F/B&F) Carbons (418.1) 2 / 8020) A 625 / 8270 / 8310 A 625 / 8270 / 8310 Carbons (418.1) Carbons (
Project #: 2003-043.01 Project Na	ine: [wsc.]uia.sa,	0+ 80 0+ 80 00 00 00 00 00 00 00 00 00 00 00 00 00
Project #: 2003 043.01 Project Na Project Location: 6615 Jesse Road Of Sampler Signature: 7Ma Taken P.O.#: 2	107-043-01	
Sampler Signature: Man Varanie P.O.#: 2	METHOD	(60)
SAMPLING E	MATRIX PRESERVED	880 an
SAMPLE ID (Field Point Name) LOCATION Date Time Samples Sample		BIEX & TPH as Gas Total Petroleum O Total Petroleum H EPA 601 / 8010 BTEX ONLY (EF EPA 608 / 8080 I EPA 608 / 8080 I EPA 608 / 8080 I EPA 608 / 8080 I EPA 624 / 8240 V EPA 624 / 8240 V EPA 624 / 8240 V EPA 624 / 8240 V EPA 624 / 8240 V EPA 624 / 8240 V EPA 627
SAMPLE ID LOCATION E		BIEX & TPH as TPH as TPH as Diesel Total Petroleur Total Petroleur EPA 601 / 801 BTEX ONLY EPA 608 / 80 EPA 6
(Field Point Name) Date Time	Soil Air Air Sludge Other HCl HCl Other Other	PH as otal F PH as SPA 6
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		Cal 3 VDAs (Amber 1 playtie W/o Pres
Relinquished By:	94 B/) \ (() 1) \	(b) VOAF PRESERVATION VOAS ORG METALS OTHER
Marina 3.10.04 1725	Mr Vacco	
Relinquished By: Date: Time: Receive	ed By:	GOOD CONDITION APPROPRIATE HEAD SPACE ABSENT CONTAINERS DEDECTIVED IN LAR
		"I REPORTED AND IN ATERNIA IN LABOR FORDER FOR IN 1411 AND AND AND AND AND AND AND AND AND AND
Relinquished By: Date: Time: Receive	red By:	NOTE: *FICTER AT LAS.



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

Environmental Service	Client Project ID: #2003-043.01;	Date Sampled: 03/09/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 03/10/04
G 44 11 G 44550	Client Contact: Marc Papinean	Date Reported: 03/16/04
Castro Valley, CA 94552	Client P.O.:	Date Completed: 03/16/04

WorkOrder: 0403170

March 16, 2004

Dear Marc:

Enclosed are:

- 1). the results of 1 analyzed sample from your #2003-043.01; Tassajara Rd. 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. 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



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L.H				<u>.</u>										
Environ	mental Service	<u> </u>		roject ID: #2	003-043.01;		Date Sampled:	03/09/04						
5789 Go	old Creek Driv	e	Tassajar	a Kd.			Date Received:	03/10/04						
Cost 3	Valley CA 044	557	Client C	ontact: Marc	Papinean		Date Extracted:	03/14/04						
Castro V	Valley, CA 945)J <u>L</u>	Client P	.O.:			Date Analyzed:	03/14/04						
F.,	Gasol method: SW5030B		e (C6-C12)		rocarbons as		with BTEX and		Order: 04	403170				
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS				
001A	Nielsen-l	w	ND	ND	ND	ND	ND	ND	ı	87.6				
		-												
														
														
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	I i i fi DC -1.	137	50	5.0	0.5	0.5	0.5	0.5	1	ug/I				

* 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.

NA

cluttered chromatogram; sample peak coelutes with surrogate peak.

NA

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

NA



NA

NA

Angela Rydelius, Lab Manager

NA

mg/Kg

ND means not detected at or

above the reporting limit



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Lx"			···············				
Environmental Service		o: #2003-043.01;	Date Sampled: 03.	3/09/04			
5789 Gold Creek Drive	Tassajara Rd.	3/10/04					
	Client Contact:	Marc Papinean	Date Extracted: 03/12/04				
Castro Valley, CA 94552	Client P.O.:		Date Analyzed: 03	/12/04			
Oxygenated	l Volatile Organ	ics + EDB and 1,2-DCA by	P&T and GC/MS*				
Extraction Method: SW5030B		llytical Method: SW8260B		Work Orde	er: 0403170		
Lab ID	0403170-001B						
Client ID	Nielsen-1			Reporting			
Matrix	W			DF	=1		
DF	1		S	w			
Compound		Concentration	ug/kg	μg/L			
tert-Amyl methyl ether (TAME)	ND			NA	0.5		
t-Butyl alcohol (TBA)	ND			NA	5.0		
1,2-Dibromoethane (EDB)	ND			NA	0.5		
1,2-Dichloroethane (1,2-DCA)	ND			NA	0.5		
Diisopropyl ether (DIPE)	ND			NA	0.5		
Ethyl tert-butyl ether (ETBE)	ND			NA	0.5		
Methyl-t-butyl ether (MTBE)	ND			NA	0.5		
	Surr	ogate Recoveries (%)					
%SS:	102						
Comments							
* water and vapor samples and all TCLP & product/oil/non-aqueous liquid samples in	SPLP extracts are repmg/L.	oorted in µg/L, soil/sludge/solid samp	oles in µg/kg, wipe sample	es 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.

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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Environmental Service	Client Project ID: #2003-043.01;	Date Sampled: 03/09/04
5789 Gold Creek Drive	Tassajara Rd.	Date Received: 03/10/04
	Client Contact: Marc Papinean	Date Extracted: 03/10/04
Castro Valley, CA 94552	Client P.O.:	Date Analyzed: 03/10/04-03/11/04
	T TYPE T NO. 4. Left	

LUFT 5 Metals*

Work Order: 0403170 Analytical methods: E200.7/E200.9 Extraction method: E200.7/E200.9 Nickel Zinc DF % SS Client ID Matrix Extraction Cadmium Chromium Lead Lab ID ND ND 1 N/A ND ND ND W DISS. 001C Nielsen-1 mg/L Reporting Limit for DF = 1; 0.005 0.005 0.005 0.02 W DISS. 0.005 ND means not detected at or

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

NA

NA

NA

NA

means surrogate recovery outside of acceptance range due to matrix interference; & means surrogate diluted out of acceptance range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid-Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

S

TTLC

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

Angela Rydelius, Lab Manager

NA

NA

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OC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0403170

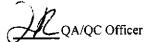
EPA Method: SW8021	B/8015Cm E	xtraction:	SW5030E	3	BatchID: 10679			Spiked Sample ID: 0403167-010A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LÇS	LCSD	LCS-LCSD	Acceptance	Criteria (%	
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec	% Rec	% RPD	Low	High	
TPH(btex) [£]	ND	60	102	103	0.676	104	104	0	70	130	
MTBE	ND	10	100	101	1.20	106	110	3,41	70	130	
Benzene	ND	10	107	108	0.949	112	116	3.89	70	130	
Toluene	ND	10	100	102	1.68	103	108	4.16	70	130	
Ethylbenzene	ND	10	108	108	0	110	113	3.33	70	130	
Xylenes	ND	30	96	99.7	3.75	100	103	3.28	70	130	
%\$S:	93.1	10	102	103	0.706	103	105	1.27	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

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.



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 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.

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

[#] ciuttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0403170

EPA Method: SW8260B	 E	xtraction:	SW5030E	3	BatchID:	10696	S	piked Samp	le ID: 04031	64-001A
	Sample	Spiked	d MS* MS		MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	106	108	1.04	106	105	0.976	70	130
Benzene	ND	10	122	124	2.04	118	117	0.929	70	130
t-Butyl alcohol (TBA)	ND	50	84.2	85.2	1.19	95.4	91.2	4.53	70	130
Chlorobenzene	ND	10	107	107	0	101	100	0.881	70	130
1,2-Dibromoethane (EDB)	ND	10	100	101	0.164	99.8	99.5	0.270	70	130
1,2-Dichloroethane (1,2-DCA)	ND	10	120	122	1.54	116	114	1.83	70	130
1.1-Dichloroethene	ND	10	74	74.1	0.110	78.6	79.4	1.09	70	130
Diisopropyl ether (DIPE)	ND	10	112	115	2.70	108	108	0	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	103	104	1.17	101	101	0	70	130
Methyl-t-butyl ether (MTBE)	ND	10	103	104	1.39	98.8	98.9	0.110	70	130
Toluene	ND	10	101	104	2.81	97.6	98.4	0.759	70	130
Trichloroethene	ND	10	78.7	79.6	1.10	78.4	78.2	0.319	70	130
%SS1:	109	10	99.6	99.3	0.294	95.6	95.5	0.117	70	130

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

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

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 anaiyte content.

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

QA/QC Officer

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

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403170

EPA Method: E200.7	7/E200.9 E	xtraction:	E200.7/E	E200.7/E200.9		10700	Spiked Sample ID: N/A			
	Şample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Cadmium	N/A	1	N/A	N/A	N/A	99.7	96.9	2.91	80	120
Chromium	N/A	l	N/A	N/A	N/A	99.4	95.8	3.71	80	120
Nickel	N/A	1	N/A	N/A	N/A	98.9	96.8	2.12	80	120
Zinc	N/A	1	N/A	N/A	N/A	97.9	95.1	2.90	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

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

N/A = not applicable to this method.

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.

QA/QC Officer

DHS Certification No. 1644

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

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403170

EPA Method: E200.7/E200.9	E200.7/E200.9		BatchID: 10699		Spiked Sample ID: N/A					
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	0.010	N/A	N/A	N/A	97.2	92.1	5.40	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

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

% 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.

N/A = not applicable to this method.

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

QA/QC Officer

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

A STATE OF THE PARTY OF THE PAR

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

WorkOrder: 0403170

Report to:

Marc Papinean Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552 TEL: 510-881-8574 FAX: 510-581-7204

ProjectNo: #2003-043.01; Tassajara Rd.

PO:

Bill to:

Requested TAT:

5 days

Marc Papinean

Environmental Services 5789 Gold Creek Drive Castro Valley, CA 94552

Date Received:

3/10/04

Date Printed: 3/10/04

Sample ID ClientSampID Matrix Collection Date Hold 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

0403170-001 Nielsen-1 Water 3/9/04 2:30:00 PM B A C

Test Legend:

*	1	5-OXYS+PBSCV_W
1	6	
!	11	

2 G-MBTEX_W
7
[12]

3	LUFT_Dis
8	
13	

5	-	 	
[5]		 	
10			
15			

Prepared by: Melissa 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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ì	Telephone: (925) 798-1620 Fax: (925) 798-1622											1													Other			Comments			
}	15				- (T)									Analysis Request									TT	一十	T					1	
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	Tele: G/D 981- Project #: ZOC Project Location: Sampler Signatur	0401	- Jan 197	P		z	003	-0	45	e /_			_	(602/8020 +	Ű	Total Petroleum Hydrocarbons (418.1)] !	8	1 ;	g g	1	EPA 625 / 8270 / 8310	ļ	LOFT 5 Metals Lead (7240/7421/239.2/6010)				1 1		(for unplosed) set of s	Ţ
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