



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

Alameda County
JUN 09 2004
Environmental Health

**Subject: 6615 and 6833 Tassajara Road, Dublin, California
(ES Project 2003-043, -043.01, and -043.02)**

Dear Mr. Weston:

This letter conveys 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.



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ES Project 2003-043

6615 Tassajara Road Dublin, California

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TABLE 1

Laboratory Analysis Results for Tank-Pull Soil Samples Collected on 4-15-2004
6615 Tassajara Road, Dublin, California

Sample ID	Analysis Results for Soil Samples Collected on 4-15-2004				
	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

Source: McCampbell Analytical, Inc., DHS certification No. 1644, April 21, 2004

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



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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 Date	Analysis Results for Domestic Well Water Samples					
		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/L

Source: McCampbell Analytical, Inc., DHS certification No. 1644, March 3, 2004 and March 16, 2004

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.



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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.

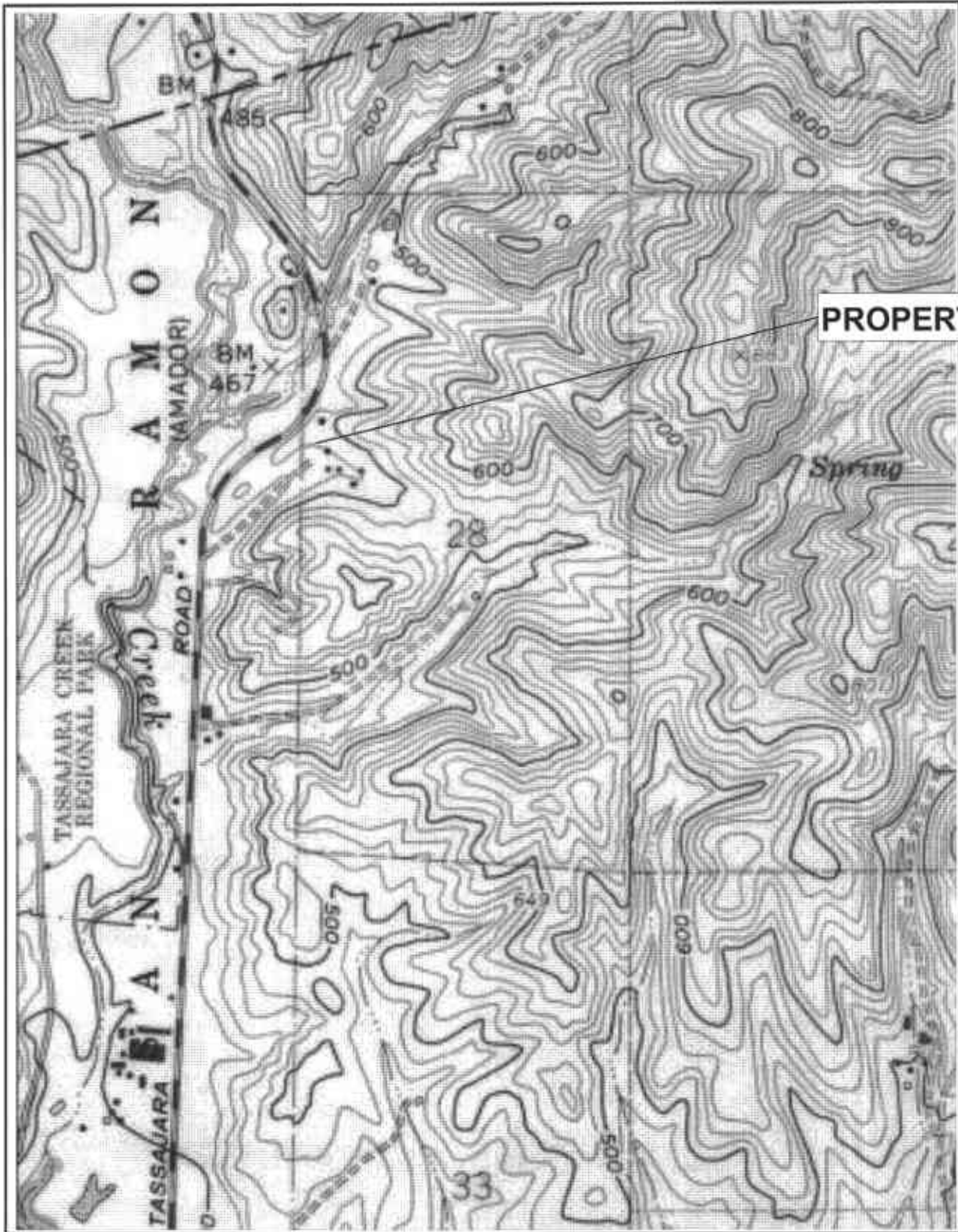
Sincerely,

Marc Papineau
California Registered Environmental Assessor 791

R. Mark Armstrong
California Registered Geologist 6134

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

eg 10/05



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by Papineau, R.E.A. 791



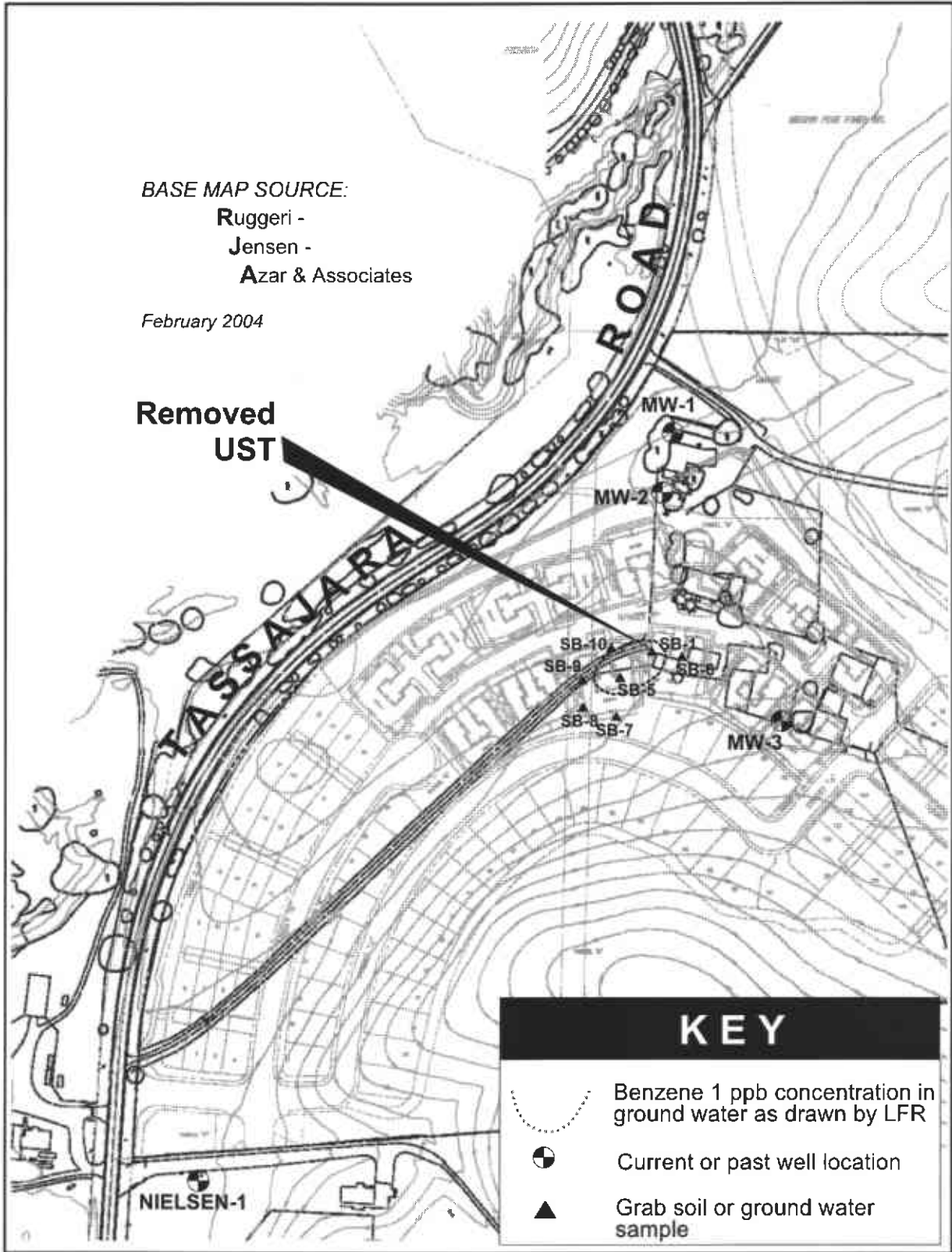
1:14,000

Figure 1
Property Location Map
6615 Tassajara Road
Dublin, California

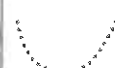


BASE MAP SOURCE:
Ruggeri -
Jensen -
Azar & Associates

February 2004

Removed
UST



KEY

-  Benzene 1 ppb concentration in ground water as drawn by LFR
-  Current or past well location
-  Grab soil or ground water sample



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0 100 200
feet

Figure 2
Farm Complex Detail
6615 Tassajara Road
Dublin, California



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ES Project 2003-043

6615 Tassajara Road Dublin, California

ATTACHMENTS

**Laboratory Analytical Test Results
and
Sample Chains-of-Custody**



McC Campbell 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

Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.02; Tassajara Rd.	Date Sampled: 04/15/04
		Date Received: 04/15/04
	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. 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



McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
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Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.02; Tassajara Rd.	Date Sampled: 04/15/04
	Client Contact: Marc Papineau	Date Received: 04/15/04
	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

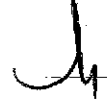
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	TP-1-5	S	ND	ND	ND	ND	ND	ND	1	92.4
002A	TP-1-10	S	ND	ND	ND	ND	ND	ND	1	89.2
003A	STKPL-1	S	ND	ND	ND	ND	ND	ND	1	98.3

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	1	mg/Kg

* 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.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+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 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.

 Angela Rydelius, Lab Manager



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Environmental Service
5789 Gold Creek Drive
Castro Valley, CA 94552

Client Project ID: #2003-043.02;
Tassajara Rd.

Client Contact: Marc Papineau

Client P.O.:

Date Sampled: 04/15/04

Date Received: 04/15/04

Date Extracted: 04/15/04

Date Analyzed: 04/17/04

Ethylene Dibromide (1,2-Dibromoethane) and 1,2-Dichloroethane (1,2-DCA)*

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 0404207

Lab ID	Client ID	Matrix	1,2-Dichloroethane (1,2-DCA)	DF	% SS
001A	TP-1-5	S	ND	1	90.9
002A	TP-1-10	S	ND	1	91.0
003A	STKPL-1	S	ND	1	85.3

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	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 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.02; Tassajara Rd.	Date Sampled: 04/15/04
	Client Contact: Marc Papineau	Date Received: 04/15/04
	Client P.O.:	Date Extracted: 04/15/04
		Date Analyzed: 04/16/04

Lead by ICP*

Extraction method: SW3050B

Analytical methods: 6010C

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	1	102
0404207-003A	STKPL-1	S	TTLC	23	1	96.7


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

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0404207

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 11104			Spiked Sample ID: 0404175-001A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	0.12	0.60	78.8	80.7	1.89	99.6	99.7	0.109	70	130
MTBE	ND	0.10	94.6	93.2	1.49	96.5	93.1	3.54	70	130
Benzene	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.

% 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.

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

Matrix: S

WorkOrder: 0404207

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 11122			Spiked Sample ID: 0404223-001A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance 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:
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 6010C

Matrix: S

WorkOrder: 0404207

EPA Method: 6010C		Extraction: SW3050B		BatchID: 11111			Spiked Sample ID: 0404204-001A			
	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.

DHS Certification No. 1644

IL QA/QC Officer

McC Campbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD



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

WorkOrder: 0404207

ClientID: ENVC

Report to:

Marc Papinean
 Environmental Service
 5789 Gold Creek Drive
 Castro Valley, CA 94552

TEL: 510-881-8574
 FAX: 510-581-7204
 ProjectNo: #2003-043.02; Tassajara Rd.
 PO:

Bill to:

Marc Papinean
 Environmental Services
 5789 Gold Creek Drive
 Castro Valley, CA 94552

Requested TAT: 5 days

Date Received: 4/15/04

Date Printed: 4/15/04

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
0404207-001	TP-1-1	Soil	4/15/04 11:45:00	<input type="checkbox"/>	A	A	A												
0404207-002	TP-1-10	Soil	4/15/04 12:00:00	<input type="checkbox"/>	A	A	A												
0404207-003	STKPL-1	Soil	4/15/04 12:15:00	<input type="checkbox"/>	A	A	A												

Test Legend:

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

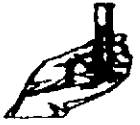
Prepared by: Maria Venegas

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.

ENVIC

0404207



MCCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HR 48 HR 72 HR 5 DAY
EDF Required? Coelt (Normal) No Write Ou (DW) No

Report To: *MARC PAPIREAU* Bill To: *same*
Company: *environmental service*
5789 GOLD CREEK DRIVE
CASTRO VALLEY, CA 94552 E-Mail: *Marc.P@shelbylab.net*
Tele: *(510) 581-8574* Fax: *(510) 581-7204*
Project #: *2003-043.02* Project Name: *TASSAJARA Rd.*
Project Location: *6833/6615 Tassajara Road Dublin, CA*
Sampler Signature: *Marc Papireau* P.O.#: *2003-043.02*

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request										Other	Comments														
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	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	Lead (7240/7421/239.2/6010)	RCI									
																																<i>TP-1-5</i>		<i>4/15/04</i>	<i>1145</i>	<i>1</i>	<i>B</i>	<i>X</i>		
<i>TP-1-10</i>		<i>4/15/04</i>	<i>1200</i>	<i>1</i>	<i>B</i>	<i>X</i>					<i>X</i>	<i>X</i>								<i>X</i>	<i>X</i>																			
<i>STKPL-1</i>		<i>4/15/04</i>	<i>1215</i>	<i>1</i>	<i>B</i>	<i>X</i>					<i>X</i>	<i>X</i>								<i>X</i>	<i>X</i>																			

Relinquished By: *Mc Pap* Date: *4/15/04* Time: *1255* Received By: *Marc Papireau*

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

"B" 2 inch dia x 6 in long brass
 ICER/ NCO
 GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 DECHLORINATED IN LAB ✓
 PRESERVATION APPROPRIATE ✓
 CONTAINERS PRESERVED IN LAB ✓

VOAS	O&G	METALS	OTHER



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

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



McC Campbell Analytical, Inc.

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

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

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0402368

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	93.0
002A	MW-2	W	ND	ND	ND	ND	ND	ND	1	89.9

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	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 McC Campbell 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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Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; 6833 Tassajara Rd.	Date Sampled: 02/25/04-02/26/04
	Client Contact: Marc Papineau	Date Received: 02/26/04
	Client P.O.:	Date Extracted: 02/26/04
		Date Analyzed: 02/26/04

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0402368

Lab ID	0402368-001B	0402368-002B	Reporting Limit for DF =1	
Client ID	MW-1	MW-2		
Matrix	W	W		
DF	1	1		

Compound	Concentration			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

Surrogate Recoveries (%)

%SS:	99.2	99.9		
------	------	------	--	--

Comments

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

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

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

LUFT 5 Metals*

Extraction method: E200.7/E200.9

Analytical methods: E200.7/E200.9

Work Order: 0402368

Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
001C	MW-1	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

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.005	0.005	0.005	0.005	0.005	0.02	mg/L
	S	TTLC	NA	NA	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/solid/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.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0402368

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 10529			Spiked Sample ID: 0402368-002A			
	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
MTBE	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
%SS:	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.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$

* 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.

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

Matrix: W

WorkOrder: 0402368

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 10525		Spiked Sample ID: 0402368-002B				
	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: E200.7/E200.9		Extraction: E200.7/E200.9		BatchID: 10541		Spiked Sample ID: 0402385-005A				
	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	1	N/A	N/A	N/A	109	105	3.84	80	120
Zinc	N/A	1	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.

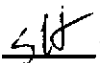
% Recovery = $100 * (MS - Sample) / (Amount\ Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

* 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.

DHS Certification No. 1644

 QA/QC Officer



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

QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0402368

EPA Method: E200.7/E200.9		Extraction: E200.7/E200.9			BatchID: 10532		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
Lead	N/A	0.010	N/A	N/A	N/A	101	86.8	11.2	80	120
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE</p>										

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.

DHS Certification No. 1644

HR QA/QC Officer

DNVC

0402368

McCAMPBELL ANALYTICAL, INC.

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

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: MARC PALMER Bill To:
Company: Environmental Service
5789 Gold Creek Drive
Castro Valley, CA E-Mail: Marc.Palmer@globalnet
Tele: (576) 881-8574 Fax: (570) 581-7204
Project #: 2003-043-01 Project Name: 6853 Tassajara Rd
Project Location: 6853 Tassajara Road Dublin, CA
Sampler Signature: Marc Palmer (MWP)

Analysis Request

Other

Comments

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
+ MW-1		2-25-04	1200	5	(a)	✓											hold both amber jars
+ MW-2		2-26-04	1300	5	(a)	✓											JARS

BTEX & TPH as Gas (602/8020 + 8015/MTBE)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5320 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260 Fuel Oils / Grease	EPA 525 / 625 / 8270 + 1,2-DCP	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (300.8 / 200.9 / 6010)
--	----------------------	---	--------------------------------------	-----------------------	----------------------------	----------------	---------------------------	-----------------	-----------------	---	--------------------------------	--	-----------------------------	-----------------------------	-----------------------------

Relinquished By: [Signature] Date: 2-26-04 Time: 1525 Received By: [Signature]

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/T* GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:
(a) 3 VOAS, 1 amber, 1 plastic w/ preservative
FILTER AT LAB
(b) VOAS only

PRESERVATION VOAS | O&G | METALS | OTHER
pH < 2

*Please circle water type:
GROUND WASTE DRINKING RECREATIONAL EFFLUENT

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0402368

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; 6833 Tassajara Rd.
 PO:

Bill to:

Marc Papinean
 Environmental Services
 5789 Gold Creek Drive
 Castro Valley, CA 94552

Requested TAT: 5 days

Date Received: 2/26/04

Date Printed: 2/26/04

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
0402368-001	MW-1	Water	2/25/04 12:00:00	<input type="checkbox"/>	B	A	C												
0402368-002	MW-2	Water	2/26/04 1:00:00 PM	<input type="checkbox"/>	B	A	C												

Test Legend:

1	5-OXYS+PBSCV_W	2	G-MBTEX_W	3	LUFT_Dls	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.



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Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/08/04
		Date Received: 03/10/04
	Client Contact: Marc Papinean	Date Reported: 03/16/04
	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. 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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 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/08/04
	Client Contact: Marc Papineau	Date Received: 03/10/04
	Client P.O.:	Date Extracted: 03/14/04
		Date Analyzed: 03/14/04

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0403169

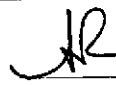
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-3	W	ND	ND	ND	ND	ND	ND	1	86.7

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	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 McC Campbell 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 Rydelius, Lab Manager



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Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/08/04
	Client Contact: Marc Papineau	Date Received: 03/10/04
	Client P.O.:	Date Extracted: 03/12/04
		Date Analyzed: 03/12/04

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0403169

Lab ID	0403169-001B	Reporting Limit for DF = 1	S	W
Client ID	MW-3			
Matrix	W			
DF	1			

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

Surrogate Recoveries (%)

%SS:	102			
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Comments

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

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

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.



McC Campbell Analytical, Inc.

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

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

LUFT 5 Metals*

Extraction method: E200.7/E200.9

Analytical methods: E200.7/E200.9

Work Order: 0403169

Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
001C	MW-3	W	DISS.	ND	ND	ND	ND	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.005	0.005	0.005	0.005	0.02	mg/L
	S	TTL	NA	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/solid/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.

AR Angela Rydelius, Lab Manager



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.

% 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.

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

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



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QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403169

EPA Method: E200.7/E200.9		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	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.


% 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.

DHS Certification No. 1644

 QA/QC Officer



McC Campbell Analytical, Inc.

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QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403169

EPA Method: E200.7/E200.9		Extraction: E200.7/E200.9			BatchID: 10699		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
Lead	N/A	0.010	N/A	N/A	N/A	97.2	92.1	5.40	80	120
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE</p>										

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

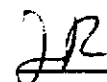
% Recovery = $100 * (MS - Sample) / (Amount\ Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

* 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.

DHS Certification No. 1644

 QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0403169

EPA Method: SW8260B		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.

% 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.

McC Campbell Analytical, Inc.

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Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0403169

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:

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

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	
0403169-001	MW-3	Water	3/8/04 12:30:00 PM	<input type="checkbox"/>	B	A	C													

Test Legend:

1	5-OXYS+PBSCV_W	2	G-MBTX_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.

OBVLC

0403169



McCAMPBELL ANALYTICAL INC.
 110 2nd AVENUE SOUTH, #D7
 PACHECO, CA 94553-5560
 Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: *MMRC PAPINEAU* Bill To: *SAME*
 Company: *environmental service*
4789 OVAL CREEK DRIVE
 CASTRO VALLEY, CA E-Mail: *Marc_P@sbglobal.net*
 Tele: (570) *881-8574* Fax: (570) *881-7209*
 Project #: *2003-043.01* Project Name: *Tasajara Rd.*
 Project Location: *6615 Tasajara Road Dublin CA*
 Sampler Signature: *M. Papineau* P.O.#: *2003-043-01*

Analysis Request

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other		
<i>MW-3</i>		<i>3-8-04</i>	<i>1230</i>	<i>5</i>	<i>(a)</i>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<i>(b)</i>			<input checked="" type="checkbox"/>	<i>holder amber jar</i>

BTX & TPH as Gas (602/8020 + 8015) MTBE	
TPH as Diesel (8015)	
Total Petroleum Oil & Grease (5520 E&F/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601 / 8010	
BTEX ONLY (EPA 602 / 8020)	
EPA 608 / 8080	
EPA 608 / 8080 PCB's ONLY	
EPA 624 / 8240 / 8260 <i>Fuel Oxygen</i>	<input checked="" type="checkbox"/>
EPA 625 / 8270 <i>1,2-DCA</i>	<input checked="" type="checkbox"/>
PAH's / PNA's by EPA 625 / 8270 / 8310	
CAM-17 Metals	
LUFT 5 Metals	
Lead (7240/7421/239.2/6010)	
RCI	

Filler samples for metals analysis.
(ies)

Relinquished By: <i>M. Papineau</i>	Date: <i>3-10-04</i>	Time: <i>1725</i>	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/° ✓ *(a) 3 VOAF, 1 Amber, 1 Plastic w/o Pres.*
 GOOD CONDITION ✓ *(b) VOAF only* PRESERVATION ✓ VOAS O&G METALS OTHER
 HEAD SPACE ABSENT ✓ APPROPRIATE CONTAINERS ✓
 DECHLORINATED IN LAB ✓ PRESERVED IN LAB ✓
 NOTE: *FILTER AT LAB.



McC Campbell Analytical, Inc.

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

Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/09/04
		Date Received: 03/10/04
	Client Contact: Marc Papinean	Date Reported: 03/16/04
	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. 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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 Telephone : 925-798-1620 Fax : 925-798-1622
 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/09/04
	Client Contact: Marc Papinean	Date Received: 03/10/04
	Client P.O.:	Date Analyzed: 03/14/04
		Date Extracted: 03/14/04

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0403170

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Nielsen-1	W	ND	ND	ND	ND	ND	ND	1	87.6

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* 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.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+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 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 Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/09/04
	Client Contact: Marc Papinean	Date Received: 03/10/04
	Client P.O.:	Date Extracted: 03/12/04
		Date Analyzed: 03/12/04

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0403170

Lab ID	0403170-001B	Reporting Limit for DF =1	S	W
Client ID	Nielsen-1			
Matrix	W			
DF	1			

Compound	Concentration				ug/kg	ug/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

Surrogate Recoveries (%)

%SS:	102			
------	-----	--	--	--

Comments

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

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

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 5789 Gold Creek Drive Castro Valley, CA 94552	Client Project ID: #2003-043.01; Tassajara Rd.	Date Sampled: 03/09/04
	Client Contact: Marc Papinean	Date Received: 03/10/04
	Client P.O.:	Date Extracted: 03/10/04
		Date Analyzed: 03/10/04-03/11/04

LUFT 5 Metals*

Extraction method: E200.7/E200.9

Analytical methods: E200.7/E200.9

Work Order: 0403170

Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
001C	Nielsen-1	W	DISS.	ND	ND	ND	ND	ND	1	N/A


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.005	0.005	0.005	0.005	0.02	mg/L
	S	TTLIC	NA	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/solid/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



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0403170

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.

% 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.

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

Matrix: W

WorkOrder: 0403170

EPA Method: SW8260B		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
%SSI:	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.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$

* 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.



McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
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 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403170

EPA Method: E200.7/E200.9		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	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.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$

* 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.

DHS Certification No. 1644

JR QA/QC Officer



McC Campbell Analytical, Inc.

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

QC SUMMARY REPORT FOR E200.7/E200.9

Matrix: W

WorkOrder: 0403170

EPA Method: E200.7/E200.9		Extraction: E200.7/E200.9		BatchID: 10699		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
Lead	N/A	0.010	N/A	N/A	N/A	97.2	92.1	5.40	80	120
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE</p>										

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.

DHS Certification No. 1644

 QA/QC Officer

McC Campbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD



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:

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

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
0403170-001	Nielsen-1	Water	3/9/04 2:30:00 PM	<input type="checkbox"/>	B	A	C												

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.

