TANK AND PIPELINE REMOVAL NARRATIVE

1000 N. Vasco Road Livermore, California January 21, 2011 and January 27, 2011

I. Methods and Protocols

Sampling and laboratory testing followed the Tri-Regional Board staff recommendations (RWQCB, 2004, 1990) as instructed in the field by the Livermore-Pleasanton Fire Department inspector, Danielle Stefani. The appropriateness of the Tri-Regional Board staff recommendations (Appendix A, Table #2) was confirmed specifically by telephone communication with Mr. Jerry Wickham, Alameda County DHS. A total of 23 soil samples were collected, including four (4) from the gasoline storage tank pit (TP1), four (4) from the diesel tank pit (TP2), twelve (12) from the trenches, one (1) from the base of the vent pipe rack below elbow depth, and two (2) from soil stockpiles (STK-PL2 and STK-PL3).

Each soil sample was collected using a slide hammer and sample spoon loaded with a new 2-inch diameter by 6-inch long brass sleeve. Tank pit soil samples were collected off the backhoe bucket with effort to 1) obtain sample from just above the water surface and 2) obtain sample from the side tooth of the backhoe bucket used to scrape the sidewall of the tank pit.

Soil samples were capped with Teflon sheet and plastic end caps, labeled, and placed in an ice chest with abundant water ice. Samples were delivered by the sampler with a completed chain-of-custody form, within approximately 2 hours of sample collection.

Two pit water samples were collected. Water samples were collected using new polyethylene bailers with bottom emptying tubes, and new line, one set-up for each tank pit. A 1-Lilter amber glass bottle was filled with water collected from TP2, and triplicate VOAs were filled with water collected from TP1. Ms. Stefani observed and confirmed presence of a meniscus and absence of headspace or air bubbles in each of the three VOAs. Samples were labeled and placed in an ice chest with abundant water ice. Samples were delivered by the sampler with a completed chain-of-custody form, within 2-5 hours of sample collection.

McCampbell Analytical (Pittsburg, CA) performed all of the analytical testing. McCampbell Analytical, Inc., is a California DHS-certified test laboratory (ELAP Certification #1644) certified to perform the testing by U.S. EPA analytical methods reported herein.

II. Sampling and Test Results for Tank Pit Sidewall Sampling on February 21, 2011

On Friday, January 21, 2011, M. Papineau sampled the tank pits as witnessed by Inspector Danielle Stefani, Livermore-Pleasanton Fire Department. Eight (8) soil samples and two (2) pit water samples were collected and were submitted by the sampling technician for testing by McCampbell Analytical (Pittsburg, CA) in accordance with Tri-Regional Boards recommendations (1990, 2004). The Tri-Regional Boards guidance, Appendix A, Table #2, lists EPA Method 8260B analysis of soil and ground water samples for underground gasoline storage tanks including the following analytes: BTEX, MtBE, DIPE, EtBE, TAME, TBA, 1,2-DCA, and EDB. The list of analytes was confirmed with Mr. Jerry Wickham on Friday, January 21, 2011, and amended the testing indicated on the Chain of Custody by telephone call and email to the laboratory.

Soil Samples Collected from Pit Sidewalls

Soil samples were collected off the excavator or backhoe bucket from soil at or near the water level. The pit water level was 9.3 feet below grade surface. Diesel and gasoline tank pit sidewall sample test results are "clean" ("ND" for gasoline, "ND" for diesel, and "ND" for BTEX, listed oxygenates, and additives).

PID Measurements

During February 21, 2011, one PID response was noted near the east end of the diesel tank pit (TP2). The PID response was 30 ppmv off the bucket (TP2-E2) and 117-184 ppmv in a Ziplok plastic bag containing a handful of the soil. The PID on February 21 was a Thermo Analytical 580B with a 10.6 eV lamp (Environmental instruments ID#187) calibrated to 100 ppmv isobutylene.

Pit Water Samples Collected from Tank Pits

Pit water samples were collected from the pits by casting a bailer on line and trawling to retrieve a sample. The bailer was observed to fill as it tilted about 15 degrees from horizontal and partially submerged at the end (bottom-emptying devise end). Neither pit was de-watered and allowed to re-charge before sampling. The water surface was noted in both as having floating scum. D. Stefani noted sheen in TP1. M. Papineau noted this was limited to the edge of the pit TP1 at the water line. TP2 was not noted as having scum but not sheen.

For the gasoline tank pit water sample (TP1-gas-W) McCampbell Analytical reported concentrations of 240 micrograms/liter (same as 240 ppb) as TPHg, 0.98 ppb as MtBE, 5 ppb as TBA, and non-detected benzene (<0.5 ppb). Concentrations of benzene (ND, <0.5 ppb), MtBE (0.98 ppb), TBA, (5 ppb), toluene (6.3-7.6 ppb), ethylbenzene (3.8-4.6 ppb), and xylenes (38-41 ppb).

The diesel tank pit water sample (TP2-diesel-W) has reported concentrations of 540,000 ppb as TPHd, 190 ppb as ethyl benzene, 800 ppb as toluene, 1500 ppb as xylenes, and non-detected (<12 ppb) benzene.

III. Sampling and Test Results for Product Line Trench and Vent Pipe Bracket Sampling on February 27, 2011

On Thursday, January 27, 2011, M. Papineau sampled the product line trenches as witnessed by Inspector Paul Smith, Livermore-Pleasanton Fire Department. At each sample location pea gravel backfill was pot-holed with a backhoe to expose the top of native soil at the backfill interface with native soil. Three trenches labeled as PL1, PL2 and PL3 were sampled. Samples were generally collected under the former dispensers or every 20 feet. Thirteen soil samples were collected from the pot holes. Two additional soil samples were collected from temporary soil stockpiles located adjacent to trenches PL2 and PL3 (see Section IV).

The three product line trenches were labeled as PL1 (front along Vasco Road), PL2 (1 diesel product line and two (2) vent lines between tank pits TP1 and TP2), and PL3 (diesel- only lines on the north side of the service station and restaurant building. The last sample was collected from the vent pipe rack (VP), at the base of the vent pipe rack. This also is located on the north side of the building. About 3-5 feet of vent pipe

remains underground under the curb from the south wall of the diesel tank pit (TP2). See Diagram, page 5.

Soil Samples Collected from Trenches and Vent Pipe Rack Test Pit

Before sampling the product line and vent pipe trenches, pot-holing was performed at each sample location to remove additional pea gravel and expose native soil under the dispensers. There were no observed areas of gross contamination, free product or PID response greater than 10 ppmv. Minor staining was observed at locations PL1-S1, PL3-S10, and PL3-S12. Minor staining means the native soil, generally brown (Munsell soil color 10YR 5/3), had a grayish-brown color, but without noticeable petroleum odor or Photo-lonization Detector (PID) response.

Minor soil staining without petroleum odor or PID response was noted at locations PL1-S1, PL3-S10, and PL3-S12. Predominant soil color is Munsell 10YR 5/3. Staining was noted by sampling technician as Munsell 2.5 Y 4.5/2. Similar staining was not noted at PL1-S2 through PL1-S5, PL2-S6 through PL2-S8, PL3-S9, or PL3-S11.

Laboratory test results for product line trenches confirm general clean status for the two trenches named PL1 and PL2. A minor TPH gasoline range concentration (2.9 mg/Kg without BTEX or MtBE) and minor TPH diesel range concentration (4.0 mg/Kg) were reported for soil sample PL1-S1. This is consistent with minor staining (but no odor or PID response observed) at the PL1-S1 location. Soil samples PL1-S3 and PL1-S4 also were reported to contain minor TPH diesel range concentrations of 1.5 mg/Kg (PL1-S3) and 1.3 mg/Kg (PL1-S4). Results are also clean (ND) for soil samples PL1-S2, PL1-S5, PL2-S6 through PL2-S8, PL3-S9, and vent pipe rack soil sample VP-S13.

Three soil samples (PL3-S10, PL3-S11, and PL3-S12) collected from the dieselonly product line trench were reported by McCampbell Analytical to contain detectable diesel concentrations of 1400 mg/Kg, 3200 mg/Kg, and 2700 mg/Kg. Reported results are generally consistent with observations of minor staining noted at PL3-S10 and PL3-S12. The above units, milligrams per kilogram (mg/Kg), are the same as parts per million.

PID Measurements

The PID on February 27, 2011, was a RAE 2000 with a 10.6 eV lamp (Environmental Instruments ID# 236) calibrated to 100 ppmv isobutylene. A 100 ppmv isobutylene span gas mini-canister was used in the field as a span check, and the field test showed the PID was functioning normally. Measurements in the trenches did not have any significant PID response.

IV. Sampling and Test Results for Soil Stockpile Sampling on February 27, 2011

Soil excavated from the product line and vent pipe trenches consisted primarily of pea gravel. There was minor amount of native soil in the stockpiles and, where present, the native soil sandy silt, silt-sand, and clayey sandy silt originated from the sidewalls. Before sampling the product line and vent pipe trenches, pot-holing was performed at each sample location to remove additional pea gravel and expose native soil under the dispensers; therefore, the temporary stockpiles were mainly pea gravel with limited soil cut from the sidewalls.

A minor diesel concentration (1.2 mg/Kg) was reported for stockpile soil sample STK-PL2. A diesel concentration of 380 mg/Kg was reported for stockpile soil sample STK-PL3.

V. Comparison to Screening Levels (ESLs)

The San Francisco Bay RWQCB has published screening levels for diesel and gasoline in soil and ground water. For gasoline and diesel in shallow soils (<10 feet), where ground water is a current or potential drink water source, the ESL is 83 mg/Kg (83 ppm) for both diesel and gasoline, for residential or commercial/industrial land use. Laboratory test results for product line trench PL1 samples PL1-S1, PL1-S3, and PL1-S4, and soil stockpile sample STK-PL2, therefore, are well under the ESL. The results for diesel product line trench PL3 soil samples PL3-S10, PL3-S11, and PL3-S12, and trench stockpile STK-PL3 are above the ESL.

For tank pit water, from Tables F-1a/Table F-1b, ESLs where ground water IS/IS <u>NOT</u> a potential drinking water source are: 1/46 ppb for benzene, 30/43 ppb for ethylbenzene, 40/130 ppb for toluene, 20/100 ppb for xylenes. Also, from Tables F-1a/Table F-1b, ESLs where ground water IS/IS <u>NOT</u> a potential drinking water source are: 100/210 ppb for gasoline and 100/210 ppb for diesel. The ESL for benzene is 1 ppb (based on toxicity) where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water. Where ground water IS a current or potential source of drinking water, the ESLs are 5 ppb for MtBE and 12 ppb for TBA (RWQCB, 2008).

Gasoline and xylenes concentrations in the pit water sample (TP1-gas-W) are marginally above the ESLs. Laboratory results for the diesel tank pit water sample (TP2-diesel-W) are above the ESLs. Neither pit was de-watered and allowed to re-charge before sampling.

References

RWQCB, 2008. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater.

http://www.swrcb.ca.gov/rwqcb2/water_issues/available_documents/ESL_May_2008.pd f

Tri-Regional Boards, 2004. Tri-Regional Boards *Staff Recommendations for Preliminary Investigation and Evaluation of Tank Sites*, April 16, 2004, Appendix A, Table #2, p. 11 or 24.

http://www.swrcb.ca.gov/rwqcb5/water_issues/underground_storage_tanks/triregionals_appendix_a.pdf

Tri-Regional Boards, 1990. *Tri-Regional Boards Staff Recommendations for Preliminary Investigation and Evaluation of Tank Sites*, August 10, 1990. http://www.swrcb.ca.gov/rwqcb5/water_issues/underground_storage_tanks/usttri-reg.pdf



Underground Tank and Line Removal 1000 N. Vasco Road Livermore, California

Tank pit sampling: January 21, 2011 Product and vent line trench sampling: January 27, 2011 Performed by: M. Papineau



LABORATORY RESULTS

McCampbell An "When Ouality	nalytical, Inc.	1534 Willow Pas Web: www.mccampbe Telephone: 877	s Road, Pittsburg, CA 9 ll.com E-mail: main@ 7-252-9262 Fax: 925-2	94565-1701 mccampbell.com 252-9269
Environmental Service	Client Project ID: #2010-03	5; 1000 N. Vasco Rd	Date Sampled:	01/21/11
5789 Gold Creek Drive			Date Received:	01/21/11
	Client Contact: Marc Papi	neau	Date Reported:	01/25/11
Castro Valley, CA 94552	Client P.O.:		Date Completed:	01/25/11

WorkOrder: 1101510

January 25, 2011

Dear Marc:

Enclosed within are:

- 1) The results of the 10 analyzed samples from your project: #2010-035; 1000 N. Vasco Rd,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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Castro Valley 510-881-8574	, CA 94552 FAX 510-581-7204	ProjectNo: #	2010-035; 10	000 N. Vasco Rd			Ca	stro Va	lley, CA	94552	2		Dat	e Prin	ted:	01/24/	2011
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Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1101510-001	TP2-Diesel-W	1	Water	1/21/2011 11:23		А						А					1
1101510-002	TP1-Gas-W		Water	1/21/2011 11:40				Α		В							
1101510-003	TP2-E1		Soil	1/21/2011 12:37			А				А						
1101510-004	TP2-E2		Soil	1/21/2011			А				А						
1101510-005	TP2-W1		Soil	1/21/2011 12:49			А				А						
1101510-006	TP2-W2		Soil	1/21/2011 12:54			А				А						
1101510-007	TP1-E1		Soil	1/21/2011 13:09			А		А								
1101510-008	TP1-W1		Soil	1/21/2011 13:25			А		А								
1101510-009	TP1-C1		Soil	1/21/2011 13:32			А	1	Α	1							1
1101510-010	TP1-E2		Soil	1/21/2011 13:09			Α		Α								

Test Legend:

1 8260VOC_W	2 G-MBTEX_S	3 G-MBTEX_W	4 MBTEXOXYPBSCV-8260B_S	5 IBTEXOXYPBSCV-8260B_V
6 TPH(D)_S	7 TPH(D)_W	8	9	10
11	12			

Prepared by: Melissa Valles

BTEX, MTBE, DIPE, TAME, TBA, 1,2-DCA, and EDB added to samples TP1-gas-W, TP1-E1, TP1-W1, TP1-C1, and TP1-E2 1/24/11 per email **Comments:**

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



McCampbell Analytical, Inc. "When Ouality Counts"

Sample Receipt Checklist

Client Name:	Environmental Se	ervice				Date	and T	Time Received:	1/21/2011	3:15:59 PM
Project Name:	#2010-035; 1000	N. Vasco	Rd			Chec	klist	completed and re	eviewed by:	Melissa Valles
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Samples in prope	er containers/bottles?			Yes		No 🗹				
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Metal - pH accep	table upon receipt (pH	<2)?		Yes		No 🗆			NA 🗹	
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Comments: BTEX by 8260 for sample TP2-Diesel-W was not received in a VOA. Ok to pour from liter per M.P.

McCampbell Ar	nalytical, In	<u>c.</u>		1534 Willow F Web: www.mccamp Telephone: 8	Pass Road, Pittsburg, CA bell.com E-mail: main 377-252-9262 Fax: 92:	. 94565-1701 @mccampbell.c 5-252-9269	om
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Benzene	ND<12					NA	0.5
Ethylbenzene	190					NA	0.5
Toluene	800					NA	0.5
Xylenes	1500					NA	0.5
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%SS3:	85						
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Enviro	onmental Service			Client P	roject ID: #	\$2010-035; 1	000 N.	Date Sample	ed: 01/21	/11		
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Extracti	G support of SW5030B	asoline R	lange (C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX :	and MTBE*	* Wor	k Order:	1101510
Lab ID	Client ID	Matrix	TP	H(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	TP1-Gas-W	w	2	240	ND	ND	6.3	3.8	38	1	106	d2
007A	TP1-E1	S	1	ND	ND	ND	ND	ND	ND	1	86	
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											<u> </u>	
Reno	rting Limit for $DE = 1$			50		0.7			0.7			
ND m	eans not detected at or	w S		50 1.0	5.0 0.05	0.5	0.5	0.5	0.5		μg/I mg/F	 Kg
. ab0					L	<u> </u>		<u> </u>				-

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

Angela Rydelius, Lab Manager

d2) heavier gasoline range compounds are significant (aged gasoline?)

	McCampb	ell Ana nen Oualitv C	alytical	l <u>, Inc.</u>	Web	1534 Willow P o: www.mccamp Telephone: 8	Pass Road, Pittsbur bbell.com E-mail 377-252-9262 Fa	rg, CA 94565-1 : main@mccamp ax: 925-252-926	701 bell.com 9		
Envir	onmental Service		Cli	ent Project ID: #	2010-035; 1	000 N.	Date Sample	ed: 01/21	/11		
5789 (Gold Creek Drive		Va	sco Ka			Date Receiv	red: 01/21	/11		
			Cli	ent Contact: Ma	arc Papineau	1	Date Extract	ted: 01/21	/11		
Castro	v Valley, CA 94552		Cli	ent P.O.:			Date Analyz	zed: 01/22	2/11		
Extracti	Gon method: SW5030B	asoline R	ange (C6-0	C12) Volatile Hy	drocarbons	as Gasoline	e with BTEX :	and MTBE [*]	* Wor	k Order: 1	101510
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
003A	TP2-E1	S			ND	ND	ND	ND	1	106	
004A	TP2-E2	S			ND	ND	ND	ND	1	103	
005A	TP2-W1	S			ND	ND	ND	ND	1	93	
006A	TP2-W2	S			ND	ND	ND	ND	1	102	
Repo	rting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		ug/L	
ND m abo	eans not detected at or ve the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

Angela Rydelius, Lab Manager

McCampbell An "When Ouality	alytical, In	<u>c.</u>		1534 Willow P Web: www.mccampl Telephone: 8	ass Road, Pittsburg, CA bell.com E-mail: main 77-252-9262 Fax: 925	94565-1701 @mccampbell.c 5-252-9269	om
Environmental Service	Client Pro	oject ID: #	#2010-0	35; 1000 N.	Date Sampled:	01/21/11	
5789 Gold Creek Drive	V asco K	1			Date Received:	01/21/11	
	Client Co	ontact: M	larc Pap	oineau	Date Extracted:	01/24/11	
Castro Valley, CA 94552	Client P.0	D.:			Date Analyzed:	01/24/11	
	Oxygenates, MB'	FEX & Le	ad Sca	vengers by GC/M	IS*		
Extraction Method: SW5030B	Anal	ytical Method	l: SW826	0B		Work Order:	1101510
Lab ID	1101510-007A	1101510-	-008A	1101510-009A	1101510-010A		
Client ID	TP1-E1	TP1-V	W1	TP1-C1	TP1-E2	Reporting	Limit for
Matrix	S	S		S	S		-1
DF	1	1		1	1	S	W
Compound			Conce	entration		mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND		ND	ND	0.005	NA
Benzene	ND	ND		ND	ND	0.005	NA
t-Butyl alcohol (TBA)	ND	ND		ND	ND	0.05	NA
1,2-Dibromoethane (EDB)	ND	ND		ND	ND	0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND		ND	ND	0.004	NA
Diisopropyl ether (DIPE)	ND	ND		ND	ND	0.005	NA
Ethanol	ND	ND		ND	ND	0.5	NA
Ethylbenzene	ND	ND		ND	ND	0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND		ND	ND	0.005	NA
Methanol	ND	ND		ND	ND	5.0	NA
Methyl-t-butyl ether (MTBE)	ND	ND		ND	ND	0.005	NA
Toluene	ND	ND		ND	ND	0.005	NA
Xylenes	ND	ND		ND	ND	0.005	NA
	Surr	ogate Rec	overies	s (%)			
%SS1:	77	77		80	80		
%SS2:	109	107	1	106	106		
Comments * water and vapor samples are reported in extracts are reported in mg/L, wipe sample ND means not detected above the reportin # surrogate diluted out of range or coelute	μg/L, soil/sludge/so es in μg/wipe. ng limit/method det es with another peal	lid samples ection limit c; &) low su	in mg/kş ; N/A m rrogate o	g, product/oil/non-a eans analyte not ap due to matrix interf	queous liquid sample plicable to this analy erence.	s and all TCI	LP & SPLP
h) lighter than water immiscible sheen/pro	- duct is present: i) 1	iauid sampl	e that co	ntains greater than	~1 vol % sediment:	i) sample dil	uted due to

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

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

Angela Rydelius, Lab Manager

McCampbell An "When Ouality	alytical, In	<u>c.</u>		1534 Willow F Web: www.mccamp Telephone: 8	Pass Road, Pittsburg, CA bell.com E-mail: main 377-252-9262 Fax: 92:	CA 94565-1701 nain@mccampbell.com : 925-252-9269		
Environmental Service	Client Pro	oject ID: 4	#2010-0	035; 1000 N.	Date Sampled:	01/21/11		
5789 Gold Creek Drive	V asco Ko	1			Date Received:	01/21/11		
	Client Co	ontact: N	larc Paj	pineau	Date Extracted:	01/25/11		
Castro Valley, CA 94552	Client P.0	D.:			Date Analyzed:	01/25/11		
	Oxvgenates, MB'	TEX & Le	ad Sca	vengers by GC/N	/IS*			
Extraction Method: SW5030B	Anal	lytical Method	l: SW826	0B		Work Order:	1101510	
Lab ID	1101510-002B							
Client ID	TP1-Gas-W					Reporting	Limit for	
Matrix	W					DF	=1	
DF	1					S	W	
Compound			Conce	entration		ug/kg	µg/L	
tert-Amyl methyl ether (TAME)	ND					NA	0.5	
Benzene	ND					NA	0.5	
t-Butyl alcohol (TBA)	5.0					NA	2.0	
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	
Ethanol	ND					NA	50	
Ethylbenzene	4.6					NA	0.5	
Ethyl tert-butyl ether (ETBE)	ND					NA	0.5	
Methanol	ND					NA	500	
Methyl-t-butyl ether (MTBE)	0.98					NA	0.5	
Toluene	7.6					NA	0.5	
Xylenes	41					NA	0.5	
	Surr	ogate Rec	overie	s (%)	·			
%SS1:	90							
%SS2:	93							
%SS3:	100							
Comments								
* water and vapor samples are reported in extracts are reported in mg/L, wipe sample ND means not detected above the reportin # surrogate diluted out of range or coelute	μg/L, soil/sludge/so es in μg/wipe. ng limit/method det es with another peal	blid samples ection limit	in mg/k ; N/A m	g, product/oil/non-a eans analyte not ap due to matrix interi	queous liquid sample oplicable to this anal ference	es and all TCl ysis.	LP & SPLP	
		., <i>w</i> 10 w 3t		and to matrix inter				

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

	CCampbell Analyti	cal, Inc.	1534 Willow I Web: www.mccamp Telephone: 3	Pass Road, Pitts bell.com E-1 877-252-9262	sburg, CA nail: main Fax: 925	94565-17 @mccampl 5-252-9269	01 bell.com
Environmenta	al Service	Client Project ID:	#2010-035; 1000 N.	Date Sam	pled:	01/21/1	1
5789 Gold Cre	eek Drive	vasco Rd		Date Rec	eived:	01/21/1	1
		Client Contact: 1	Marc Papineau	Date Extr	acted:	01/21/1	1
Castro Valley	, CA 94552	Client P.O.:		Date Ana	lyzed	01/22/1	1-01/24/11
Extraction method	To SW3510C/SW3550B	tal Extractable Pe Analytical	methods: SW8015B			Work Orde	er: 1101510
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments
1101510-001A	TP2-Diesel-W	W	540,000		200	#	e1/e10,b6
1101510-003A	TP2-E1	S	ND		1	115	
1101510-004A	TP2-E2	S	ND		1	111	
1101510-005A	TP2-W1	S	ND		1	113	
1101510-006A	TP2-W2	S	ND		1	117	
Repo ND n	orting Limit for $DF = 1$; neans not detected at or	W	50			μg	/L
abo	ove the reporting limit	S	1.0			mg	/Kg

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

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

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

b6) lighter than water immiscible sheen/product is present e1) unmodified or weakly modified diesel is significant; and/or e10) fuel oil

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

MSD % Rec. 91.1 100 89.6 102 103	MS-MSD % RPD 2.24 2.75 3.05 0	LCS % Rec. 82.9 96.7 96 105	LCSD % Rec. 82.2 94.8 87.4	LCS-LCSD % RPD 0.853 2.04 9.35	Spiked San Acce MS / MSD 70 - 130 70 - 130 70 - 130	nple ID eptance RPD 30 30 30	: 1101490-0 Criteria (%) LCS/LCSD 70 - 130 70 - 130	RPD 30
MSD % Rec. 91.1 100 89.6 102 103	MS-MSD % RPD 2.24 2.75 3.05 0	LCS % Rec. 82.9 96.7 96 105	LCSD % Rec. 82.2 94.8 87.4	LCS-LCSD % RPD 0.853 2.04 9.35	Acce MS / MSD 70 - 130 70 - 130 70 - 130	RPD 30 30 30	Criteria (%) LCS/LCSD 70 - 130 70 - 130	RPD 30 30
% Rec. 91.1 100 89.6 102 103	% RPD 2.24 2.75 3.05 0	% Rec. 82.9 96.7 96 105	% Rec. 82.2 94.8 87.4	% RPD 0.853 2.04 9.35	MS / MSD 70 - 130 70 - 130 70 - 130	RPD 30 30 30	LCS/LCSD 70 - 130 70 - 130	RPD 30 30
91.1 100 89.6 102 103	2.24 2.75 3.05 0	82.9 96.7 96 105	82.2 94.8 87.4	0.853 2.04 9.35	70 - 130 70 - 130 70 - 130	30 30 30	70 - 130 70 - 130	30 30
100 89.6 102 103	2.75 3.05 0	96.7 96 105	94.8 87.4	2.04 9.35	70 - 130 70 - 130	30 30	70 - 130	30
89.6 102 103	3.05 0	96 105	87.4	9.35	70 - 130	30		
102	0	105	104			00	70 - 130	30
103			104	1.42	70 - 130	30	70 - 130	30
100	1.61	89.3	86.3	3.44	70 - 130	30	70 - 130	30
106	2.87	101	97.4	3.09	70 - 130	30	70 - 130	30
102	2.08	95.8	95.5	0.307	70 - 130	30	70 - 130	30
109	0.714	109	106	2.60	70 - 130	30	70 - 130	30
93.6	1.05	102	98.4	3.23	70 - 130	30	70 - 130	30
81	0	88	88	0	70 - 130	30	70 - 130	30
101	1.18	94	93	1.21	70 - 130	30	70 - 130	30
89	1.74	99	98	1.52	70 - 130	30	70 - 130	30
	93.6 81 101 89	93.6 1.05 81 0 101 1.18 89 1.74	93.6 1.05 102 81 0 88 101 1.18 94 89 1.74 99	133 0.711 103 106 93.6 1.05 102 98.4 81 0 88 88 101 1.18 94 93 89 1.74 99 98	103 0.711 103 106 2.80 93.6 1.05 102 98.4 3.23 81 0 88 88 0 101 1.18 94 93 1.21 89 1.74 99 98 1.52	103 0.711 103 106 2.00 70 130 93.6 1.05 102 98.4 3.23 70 130 81 0 88 88 0 70 130 101 1.18 94 93 1.21 70 130 89 1.74 99 98 1.52 70 130	135 0.111 165 166 2.66 166 36 93.6 1.05 102 98.4 3.23 70 - 130 30 81 0 88 88 0 70 - 130 30 101 1.18 94 93 1.21 70 - 130 30 89 1.74 99 98 1.52 70 - 130 30	93.6 1.05 102 98.4 3.23 70 - 130 30 70 - 130 81 0 88 88 0 70 - 130 30 70 - 130 101 1.18 94 93 1.21 70 - 130 30 70 - 130 89 1.74 99 98 1.52 70 - 130 30 70 - 130

BATCH 55671 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-001A	01/21/11 11:23 AM	01/24/11	01/24/11 6:01 PM	1101510-002B	01/21/11 11:40 AM	01/25/11	01/25/11 4:01 AM

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

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

* MS 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.

A _____QA/QC Officer

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



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil		QC Matrix: Soil					BatchID: 55672 WorkOrder 1101510				10	
EPA Method SW8260B	Extra	ction SW	5030B					ę	Spiked Sar	nple ID	: 1101393-0)01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	e Criteria (%))
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	78.9	75.4	4.49	78.5	78.3	0.183	70 - 130	30	70 - 130	30
Benzene	ND	0.050	107	97.1	10.1	112	111	0.846	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	87.7	83.8	4.58	79.7	81.2	1.88	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	91.5	87.3	4.68	90.9	91.2	0.412	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97.2	90.4	7.29	98.9	98.3	0.619	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	113	104	8.64	117	115	2.24	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	98.8	91.5	7.67	100	99.5	0.906	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	105	98.2	6.90	105	104	0.734	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	101	9.97	116	113	2.80	70 - 130	30	70 - 130	30
%SS1:	85	0.13	92	94	2.29	94	95	0.768	70 - 130	30	70 - 130	30
%SS2:	99	0.13	106	105	0.648	105	103	1.73	70 - 130	30	70 - 130	30
All target compounds in the Method NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 55672 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-007A	01/21/11 1:09 PM	01/24/11	01/24/11 2:48 PM	1101510-008A	01/21/11 1:25 PM	01/24/11	01/24/11 3:27 PM
1101510-009A	01/21/11 1:32 PM	01/24/11	01/24/11 4:06 PM	1101510-010A	01/21/11 1:09 PM	01/24/11	01/24/11 4:44 PM

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

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

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

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

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

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





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	ter QC Matrix: Water					BatchID: 55669 WorkOrder 1101510					10	
EPA Method SW8021B/8015Bm	Extrac	Extraction SW5030B						s	Spiked San	nple ID	: 1101386-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	
, may to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f	ND	60	109	107	2.01	107	109	1.57	70 - 130	20	70 - 130	20
MTBE	ND	10	109	109	0	110	110	0	70 - 130	20	70 - 130	20
Benzene	ND	10	99.4	97.7	1.78	100	98.7	1.30	70 - 130	20	70 - 130	20
Toluene	ND	10	94.3	93.4	0.874	97.3	97.1	0.195	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.6	95.8	2.83	98	97.7	0.354	70 - 130	20	70 - 130	20
Xylenes	ND	30	101	98.1	2.81	101	101	0	70 - 130	20	70 - 130	20
%SS:	112	10	96	96	0	97	96	0.236	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

			BATCH 55669 SL	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-002A	01/21/11 11:40 AM	01/22/11	01/22/11 1:16 AM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil QC Matrix: Soil					BatchID: 55736 WorkOrder 1101510						10
EPA Method SW8021B/8015Bm	Bm Extraction SW5030B Spiked Sample ID: 11014						: 1101485-0)01A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
, may to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f	ND	0.60	119	112	6.30	120	126	4.78	70 - 130	20	70 - 130	20
MTBE	ND	0.10	115	112	2.95	116	116	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	96.9	94.6	2.39	94.8	93.6	1.29	70 - 130	20	70 - 130	20
Toluene	ND	0.10	93.8	91.7	2.18	92.6	90.4	2.34	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	93.7	91.2	2.71	93	90.6	2.59	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	93.5	90.6	3.18	92.8	90.5	2.57	70 - 130	20	70 - 130	20
%SS:	77	0.10	99	96	2.49	93	93	0	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 55736 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-003A	01/21/11 12:37 PM	01/21/11	01/22/11 8:13 AM	1101510-004A	01/21/11	01/21/11	01/22/11 8:43 AM
1101510-005A	01/21/11 12:49 PM	01/21/11	01/22/11 9:13 AM	1101510-006A	01/21/11 12:54 PM	01/21/11	01/22/11 9:43 AM
1101510-007A	01/21/11 1:09 PM	01/21/11	01/21/11 11:04 PM	1101510-008A	01/21/11 1:25 PM	01/21/11	01/21/11 11:34 PM
1101510-009A	01/21/11 1:32 PM	01/21/11	01/22/11 12:04 AM	1101510-010A	01/21/11 1:09 PM	01/21/11	01/22/11 12:34 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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





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"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 55729 WorkOrder 1101510					
EPA Method SW8015B Extraction SW3550B								s	Spiked San	nple ID:	: 1101471-0	07A
Analyte	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	33	40	87.6	106	10.4	92.1	92.9	0.863	70 - 130	30	70 - 130	30
%SS:	111	25	106	121	13.0	97	96	0.808	70 - 130	30	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 55729 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-003A	01/21/11 12:37 PM	01/21/11	01/22/11 1:41 AM	1101510-004A	01/21/11	01/21/11	01/24/11 2:53 PM
1101510-005A	01/21/11 12:49 PM	01/21/11	01/22/11 3:56 AM	1101510-006A	01/21/11 12:54 PM	01/21/11	01/22/11 5:03 AM

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

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

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

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

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

JR QA/QC Officer



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

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water	W.O. Sample Matrix: Water QC Matrix: Water						Batchl	D: 55668		WorkO	rder 11015	10
EPA Method SW8015B	A Method SW8015B Extraction SW3510C							Spiked Sample ID: N/A				
Analyte Sample Spiked MS MSD MS-MSD L						LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	118	124	4.62	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	102	100	2.15	N/A	N/A	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 55668 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-001A	01/21/11 11:23 AM	01/21/11	01/24/11 10:09 PM				

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

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

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

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

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

A QA/QC Officer

McCampbell An "When Ouality	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
Environmental Service	Client Project ID: #2010-03	5; 1000 N. Vasco	Date Sampled:	01/27/11		
5789 Gold Creek Drive			Date Received:	01/27/11		
	Client Contact: Marc Papi	neau	Date Reported:	02/03/11		
Castro Valley, CA 94552	Client P.O.:		Date Completed:	02/10/11		

WorkOrder: 1101651

February 10, 2011

Dear Marc:

Enclosed within are:

- 1) The results of the 13 analyzed samples from your project: #2010-035; 1000 N. Vasco,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

		110	165	1																													
NUN N	McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD																	С	H	AI	N	OF	C	US	ST	OI	ΟY	R	EC	CO	RI)	1/
		1534 WII PITTSRU	LLOW PA	SS RO 1565-1	AD 701									1	TUF	RN .	AR	ou	NI) T	IM	8				C,				1			A
We we	ebsite: <u>www.m</u>	ccampbel	I.com En	nail: n	nain@	mcc	amp	bell	.com						-									RUS	SH	24	HR		48 I	IR	7.	2 HF	5 DAY
Tel	ephone: (877) 252-92	62		Fax	: (92	25) 2	52-	9269	9				14	_ G	ieo'	ra	cke	r E	DF	-		PD	F	-	E	xce	1	ч	WI	ite	On	(DW)
Report To: MS	20DINE 0		E	SIL TA	. 0	>	D	<.	1.			F	-	-		-			A	nal	veie	Day	еск	II Sa	imp	le is	em	uen	tar	0) II	agı	Commente
Company: Quid	ATINE	l	5V170)III 1 (1-	-	51	9	SIP	01	n	1	-						A	mai	y 515	Rec	ues							LA.	4		Comments
C19	5789 GOLO CREEK DR.										BE		&F)					cners									18	3	SZ	Filter			
CAST	CASTRO VALLEY CA E-Mail: marc postegbbal, ne									net	IN		E/B					Oug						-	_		M	Æ	E	Samples for Metals			
Tele: (520) 881-8574 Fax: (5/0) 581-7204										015)		5520	-	(18/0		-				6020	6020		X	5	5	analysis:				
Project #: 201	Project #: 2010-035 Project Name: 1000 N_Vaseb									- -		664 /	418.1	/00	/ 802	(s	roclo		cides			NAs)	010/	10/		BI	ğ	Q	Yes / No				
Project Location:	1000 N	Vess.	20 Ro	11	LAN	eru	10	P)	G	9				8021		se (1) suo	(H)	602	ticide	Y; A	les)	Ierbi	(8)	(Cs)	s/P	8/6	8/60	020)	5	7	N	
Sampler Signatur	e: Mur	Rope	win	07	rA	>				-				502/		Grea	carb	802	(EPA	Pest	ONL	sticid	CLE	VOC	SVO	PAH	200	200.	10/6	S	¥.	1	
		SAMI	PLING		lers		MA	TR	IX	Р	MET	THO ERV	DED	Gas ()15)	Oil &	Hydro	8010	ATN)81 (C	CB's (NP Pe	Acidic	8260	8270	8310 (200.7	200.7 /	8 / 60	SS	and		
SAMPLE ID	LOCATION/			ner	tain									Has	el (8(una	mna	/ 109	EX 0	8/8(82 P	141 (151 (624 /	625 /	/WI	tals (als (/ 200	260	61		
	Field Point	Data	Time	ntai	Col	-			e .			-	-	dL %	Dies	etrol	etrol	2.2 /	/BTI	5/ 60	8/8	7/8	5/8	42/	5.2/	270 S	7 Me	Met	00.7	3	24	P	
	Manie	Date	Time	Ū.	pe	ate	=	Ы	thei		10	2	the	EX	H as	tal P	tal P	A 50	E	A 50	A 60	A 50	ASI	A 52	A 52	A 82	IW	FT	ad (2	PA	4		
				#	F	×	Š	V		ן×	E	H	0	BT	₽.	To	To	EP	¥	EP	EP	EP	EP	EP	EP	EP	5	LL	Le	E	L		
PLI-51		1-27-11	1007	1	B		\checkmark			V																				\checkmark			
PLI-SZ		1-27-11	1016	1	B		\checkmark			V																				1			
PLI-S3		1-27-11	1021	1	B		V			V																				1			
P21-54		1-27-11	1030	1	B		1			1																				\checkmark			
P4-55		1-27-11	1044	1	B		V			V	1																			\checkmark			
PLZ-56		1-27-1	1059	1	B		V			V	1				1				1														
PL2-57		1-77-11	1111)	R		1			V	1				1		1		1														
P12-58		-7211	1130	1	2		1			J	/				1				J														
013-50		1-77-11	1153	1	D		1			Ż					J				J														
P13-510	-	1-27-11	1210	1	R		1	1	-	17	1				V				J														
R13-511		1-27-11	1232	1	R		1			V	1				V				J				8										
A12-512		177-11	1242	1	B		1			17					1				J				-										
VIPSIZ		1-77 11	13.72	1	R		1			1	1				J			-	in		P									J			
VI-212		1-21-11	1255	1	P		~	+		Ê	+								1	AM	A	-											
Relinquished By:	2	Date:	Time:	Rece	ived B	y:	-		-	-	2			IC	E/t°	2	8		_		0		- 11			+		CO	MM	ENT	S:		
min		1507	1-27-	2017	1	U	in	10	e -	0	-	7		GO	DOD	CON	DIT	ION	N.P.P.	_	D	- ,	2	dec	am	ebe	1	610	~v	PC		•	
Relinquished By: Date: Time: Received By:								DE	ECHI	LOR	NAT	ED	INL	AB	_	_	X	6 "	0	VG.		210	C.	-)									
													APPROPRIATE CONTAINERS																				
Relinquished By:		Date:	Time:	Rece	ived B	y:								1	LOL	ATE	DIN	LAI		-													
														PR	ESE	RVA	TIO	N	DAS	0.	&G	MI	ETA	LS	OTI	IER							
						_				_	_	_					2.2.5	-	_	_	_		-		_	_	_						

Tri-Regional Recommendations Appendix A

> (See explanation on following page.) Gasoline by BTEX by Tank Contents (Car-Diesel by VOCs by Oil & Grease PCBs by Total Lead by Title 22 Met-Semi-VOCs 8021B or 8015M or 8260B (f) als (3) by 8270C (2) bon Range) 8015M by 1664A 8082 7421 8260B 8260B Unknown Fuel (C4-C36) х х х х Gasoline (C4-C20) х х х Diesel (C10-C36) х х х Jet Fuel/Kerosene (C9-C20) х х Heating OII (C10-C32) х х Stoddard Solvent (C8-C20) (Non-Chlorinated) х х Chlorinated Solvents х х Waste Oil or Unknown Contents х X X X х х X

TABLE #2 RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND STORAGE TANK INVESTIGATIONS

Notes:

1

 EPA Method 8260B analyses must include all analytes listed in the method plus fuel oxygenates methyl-tertiary-butyl ether (MTBE), dilsopropyl ether (DIPE), ethyl-tertiary-butyl ether (EtBE), tertiary-amyl-methyl ether (TAME), tertiary-butanol (TBA), methanol and ethanol and fuel additives 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB or 1,2-dibromoethane).

 If pentachlorophenol (PCP) is identified, analyze the soil and/or water sample for dioxins and furans by EPA Method 8290 and pesticides by EPA Method 8081A.

 Method 6010B may be used for all but the following metals, for which individual AA methods are required; Antimony & Arsenic by 7062, Cadmium by 7131A, Lead by 7421, Mercury by 7471A, Nickel by 7521, Selenium by 7742, and Thallium by 7841.

4. Non-proprietary, performance based analytical methods may be used with approval of Regional Board staff

Page 11 of 24



1534 Willow Pass Rd Pittsburg CA 94565 1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 25	52-9262					Work	Order:	11010	551	(Client(Code: E	ENVC				
		WaterTrax	WriteOn	EDF		Excel	[Fax	[🖌 Email		Hard	dCopy	Thir	dParty	□J-	flag
Report to:							Bill to:						Req	uested	TAT:	5 (days
Marc Papine	au tal San <i>i</i> ca	Email: m	narc_p@sbc	global.net			Ric	k Jeffei	.y omont								
5780 Cold C	rook Drivo						22	15 Dun					Dat	e Rece	ived:	01/27/	2011
Costro Valley		DrojootNo: #	2010 025.10				22			1 - A F			Dat	. Duin	tod.	01/27/	2011
510-881-8574	y, CA 94552 FAX 510-581-7204	Flojectino. #	2010-035, 10	JUU N. Vasco			па	ywaru,	CA 94:	940			Dai	e Frini	ieu:	01/27/	2011
									Req	uested	Tests	(See le	gend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1101651-001	PL1-S1		Soil	1/27/2011 10:07			Α										
1101651-002	PL1-S2		Soil	1/27/2011 10:16			А										
1101651-003	PL1-S3		Soil	1/27/2011 10:21			Α										
1101651-004	PL1-S4		Soil	1/27/2011 10:30			Α										
1101651-005	PL1-S5		Soil	1/27/2011 10:44			Α										
1101651-006	PL2-S6		Soil	1/27/2011 10:59		А		Α									
1101651-007	PL2-S7		Soil	1/27/2011 11:11		А		Α									
1101651-008	PL2-S8		Soil	1/27/2011 11:30		А		Α									
1101651-009	PL3-S9		Soil	1/27/2011 11:53		А		Α									
1101651-010	PL3-S10		Soil	1/27/2011 12:10		А		Α									
1101651-011	PL3-S11		Soil	1/27/2011 12:32		А		А						1		1	
1101651-012	PL3-S12		Soil	1/27/2011 12:43		А		Α									
1101651-013	VP-S13		Soil	1/27/2011 13:23		А		А									

Test Legend:

1 G-MBTEX_S	2 GAS8260_S
6	7
11	12

3	TPH(D)_S
8	

	4	
ĺ	•	
	9	

5			
10			

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

Comments:

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

Prepared by: Maria Venegas



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	Environmental S	ervice			Date	and Time Received:	1/27/2011	3:30:05 PM
Project Name:	#2010-035; 1000	N. Vasco			Chec	klist completed and r	eviewed by:	Maria Venegas
WorkOrder N°:	1101651	Matrix <u>Soil</u>			Carrie	er: <u>Client Drop-In</u>		
		<u>Chain</u>	of Cu	stody (C	OC) Inform	ation		
Chain of custody	present?		Yes	\checkmark	No 🗆			
Chain of custody	signed when relinqui	shed and received?	Yes	\checkmark	No 🗆			
Chain of custody	agrees with sample I	abels?	Yes	\checkmark	No 🗌			
Sample IDs noted	by Client on COC?		Yes	✓	No 🗆			
Date and Time of	collection noted by Cli	ient on COC?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?		Yes		No 🗆			
		Si	ample	Receipt	Information	<u>1</u>		
Custody seals int	tact on shipping conta	iner/cooler?	Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good cond	lition?	Yes	\checkmark	No 🗆			
Samples in prope	er containers/bottles?		Yes	✓	No 🗆			
Sample containe	rs intact?		Yes	\checkmark	No 🗆			
Sufficient sample	volume for indicated	test?	Yes		No 🗌			
		Sample Prese	rvatior	<u>and Ho</u>	<u>ld Time (HT</u>) Information		
All samples recei	ived within holding tim	e?	Yes	\checkmark	No 🗌			
Container/Temp E	Blank temperature		Coole	r Temp:	2.8°C		NA 🗆	
Water - VOA vial	ls have zero headspa	ce / no bubbles?	Yes		No 🗆	No VOA vials subm	itted 🗹	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No 🗌			
Metal - pH accep	table upon receipt (pH	l<2)?	Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗆			
		(Ісе Тур	e: WE	TICE)	1			
* NOTE: If the "N	No" box is checked, se	ee comments below.						
		·						

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampb	alyti	ical, Ir	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269										
Enviro	onmental Service			Client P	roject ID: #	2010-035; 10	000 N.	Date Sample	ed: 01/27	//11					
5789 (Gold Creek Drive			vasco				Date Receiv	red: 01/27	//11					
				Client C	Contact: Ma	arc Papineau	l	Date Extract	ted: 01/27	7/11					
Castro	Valley, CA 94552			Client P	.0.:		Date Analyzed: 01/28/11-01/31/11								
Extracti	G on method: SW5030B	asoline I	Range ((C6-C12)	Volatile Hy Analy	ydrocarbons as Gasoline with BTEX and MTBE* ytical methods: SW8021B/8015Bm Work Order: 1101									
Lab ID	Client ID	Matrix	TP	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments			
006A	PL2-S6	S				ND	ND	ND	ND	1	77				
007A	PL2-S7	S				ND	ND	ND	ND	1	78				
008A	PL2-S8	S				ND	ND	ND	ND	1	77				
009A	PL3-S9	S				ND	ND	ND	ND	1	88				
010A	PL3-S10	S				ND<0.10	ND<0.10	ND<0.10	ND<0.10	20	84	d7			
011A	PL3-S11	S				ND<0.050	ND<0.050	ND<0.050	ND<0.050	10	77	d7			
012A	PL3-S12	S				ND<0.050	ND<0.050	ND<0.050	ND<0.050	10	78	d7			
013A	VP-S13	S				ND	ND	ND	ND	1	84				
Report ND m	rting Limit for DF =1; eans not detected at or	W		50	5.0	0.5	0.5	0.5	0.5		ug/I				
abo	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	ζg			

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



	McCampbo	alyti _{Counts"}	ical, Ir	g, CA 94565-1' : main@mccamp ux: 925-252-926	701 bell.com 9							
Enviro	onmental Service			Client P	roject ID: #	2010-035; 10	000 N.	Date Sample	ed: 01/27	7/11		
5789 0	Gold Creek Drive			Vasco				Date Receiv	ed: 01/27	7/11		
				Client C	Contact: Ma	arc Papineau	l	Date Extract	ed: 01/27	7/11		
Castro	valley, CA 94552			Client P	.0.:			Date Analyz	zed: 01/29	9/11		
Extraction	Gan method: SW5030B	asoline I	Range ((C6-C12)	Volatile Hy Analy	drocarbons	as Gasoline sw8021B/8015	e with BTEX :	and MTBE [*]	k Wori	k Order: 1	101651
Lab ID	Client ID	Matrix	TF	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
013A VP-S13 S ND						ND	ND	ND	ND	1	84	
Repo	Reporting Limit for DF =1; W 50				5.0	0.5	0.5	0.5	0.5		ug/L	
abov	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

	IcCampbell Analyti "When Ouality Counts"	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269								
Environment	tal Service	Client Project ID:	#2010-035; 1000 N.	Date Sample	ate Sampled: 01/27/11						
5789 Gold Ci	reek Drive	Vasco		Date Receive	ed: 01	/27/11					
		Client Contact: M	Iarc Papineau	Date Extracte	ed: 01	/27/11					
Castro Valley	y, CA 94552	Client P.O.:		Date Analyz	ed 01	/28/11-0	2/02/11				
Extraction method	SW5030B	TPH(g) by Purge & Analytical n	z Trap and GC/MS*		Work Order: 1101651						
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments				
001A	PL1-S1	S	2.9	1	107						
002A	PL1-S2	S	ND		1	113					
003A	PL1-S3	S	ND		1	109					
004A	PL1-S4	S	ND		1	109					
005A	PL1-S5	S	ND		1	110					
	1										
R	eporting Limit for DF =1;	W	NA NA								
	b means not detected at or above the reporting limit	S	0.25			mg/kg	<u> </u>				

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

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc. 1534 Willow Pass Road, Pittsburg, CA 94565-1701 "When Ouality Counts" Web: www.mccampbell.com E-mail: main@mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269														
Environmental Service	Client Pr	roject ID:	#2010-0	35; 1000 N.	Date Sampled:	01/27/11								
5789 Gold Creek Drive	Vasco				Date Received:	01/27/11								
5769 Gold Creek Drive	Client C	ontact: N	larc Pa	oineau	Date Extracted:	01/27/11								
Castro Valley, CA 94552	Client P.	0.:			Date Analyzed:	01/28/11-0	2/02/11							
	Oxygenates, MB	TEX & Lo	ead Sca	vengers by GC/N	/IS*									
Extraction Method: SW5030B	Ana	lytical Method	1: SW826	0B		Work Order:	1101651							
Lab ID	1101651-001A	1101651	-002A	1101651-003A	1101651-004A									
Client ID	PL1-S1	PL1-	S2	PL1-S3	PL1-S4	Reporting	Limit for							
Matrix	S	S		S	S	DT -1								
DF	1	1		1	1	S	W							
Compound			Conce	entration		mg/kg	ug/L							
tert-Amyl methyl ether (TAME)	ND	ND)	ND	ND	0.005	NA							
Benzene	ND	ND)	ND	ND	0.005	NA							
t-Butyl alcohol (TBA)	ND	ND)	ND	ND	0.05	NA							
1,2-Dibromoethane (EDB)	ND	ND)	ND	ND	0.004	NA							
1,2-Dichloroethane (1,2-DCA)	ND	ND)	ND	ND	0.004	NA							
Diisopropyl ether (DIPE)	ND	ND)	ND	ND	0.005	NA							
Ethanol	ND	ND)	ND	ND	0.5	NA							
Ethylbenzene	ND	ND)	ND	ND	0.005	NA							
Ethyl tert-butyl ether (ETBE)	ND	ND)	ND	ND	0.005	NA							
Methanol	ND	ND)	ND	ND	5.0	NA							
Methyl-t-butyl ether (MTBE)	ND	ND)	ND	ND	0.005	NA							
Toluene	ND	ND)	ND	ND	0.005	NA							
Xylenes	ND	ND)	ND	ND	0.005	NA							
	Suri	ogate Rec	overies	s (%)										
%SS1:	92	97		99	98									
%SS2:	106	108	3	105	105									
Comments														
water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP xtracts are reported in mg/L, wipe samples in µg/wipe.														
# surrogate diluted out of range or coelute	es with another pea	k; &) low sı	irrogate	due to matrix inter	erence.	y								
h) lighter than water immiscible sheen/pro- high organic content/matrix interference;	oduct is present; i) k) reporting limit	liquid sampl near, but no	e that co t identica	ntains greater than al to our standard r	~1 vol. % sediment; eporting limit due to	j) sample dil variable Enc	uted due to core sample							
weight; m) reporting limit raised due to in	sufficient sample a	amount; n) re	esults are	h organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample ght; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.										

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

Angela Rydelius, Lab Manager

McCampbell Ar	A 94565-1701 n@mccampbell.c 5-252-9269	om								
Environmental Service	Client Pro Vasco	oject ID: #	#2010-0	35; 1000 N.	Date Sampled:	01/27/11				
5789 Gold Creek Drive					Date Received:	01/27/11				
	Client Co	ontact: M	larc Pap	oineau	Date Extracted:	01/27/11				
Castro Valley, CA 94552	Client P.0	D.:			Date Analyzed:	01/28/11-02	2/02/11			
	Oxygenates, MB	TEX & Le	ad Scav	vengers by GC/I	MS*					
Extraction Method: SW5030B	Anal	lytical Method	l: SW8260)B		Work Order:	1101651			
Lab ID	1101651-005A									
Client ID	PL1-S5					Reporting Limit for DF =1				
Matrix	S									
DF	1					S	W			
Compound			Conce	entration		mg/kg	ug/L			
tert-Amyl methyl ether (TAME)	ND					0.005	NA			
Benzene	ND					0.005	NA			
t-Butyl alcohol (TBA)	ND					0.05	NA			
1,2-Dibromoethane (EDB)	ND					0.004	NA			
1,2-Dichloroethane (1,2-DCA)	ND					0.004	NA			
Diisopropyl ether (DIPE)	ND					0.005	NA			
Ethanol	ND					0.5	NA			
Ethylbenzene	ND					0.005	NA			
Ethyl tert-butyl ether (ETBE)	ND					0.005	NA			
Methanol	ND					5.0	NA			
Methyl-t-butyl ether (MTBE)	ND					0.005	NA			
Toluene	ND					0.005	NA			
Xylenes	ND					0.005	NA			
	Surr	ogate Rec	overies	(%)						
%SS1:	97									
%SS2:	104									
%SS2: 104 Comments Image: Comment set in \$\mu g/L\$, soil/sludge/solid samples in \$\mu g/kg\$, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in \$\mu g/L\$, wipe samples in \$\mu g/wipe\$.										
D means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis. urrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference. lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to										
high organic content/matrix interference; weight; m) reporting limit raised due to in	k) reporting limit n nsufficient sample an	near, but not mount; n) re	identica sults are	l to our standard n reported on a dry	eporting limit due to weight basis; p) see	variable Enc attached narra	ore sample ative.			

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

Angela Rydelius, Lab Manager

	CCampbell Analyti	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269					
Environmenta	al Service	Client Project ID:	#2010-035; 1000 N.	Date Sam	pled:	01/27/1	1	
5789 Gold Cre	eek Drive	vasco		Date Rec	Date Received: 01/27/11			
		Client Contact: M	Iarc Papineau	Date Extr	acted:	01/27/1	1	
Castro Valley	, CA 94552	Client P.O.:		Date Ana	lyzed	01/29/1	1-02/01/11	
Extraction method	To SW3550B	tal Extractable Pet	roleum Hydrocarbons*			Work Orde	er: 1101651	
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments	
1101651-006A	PL2-S6	S	ND		1	117		
1101651-007A	PL2-S7	S	ND		1	116		
1101651-008A	PL2-S8	S	ND		1	115		
1101651-009A	PL3-S9	S	ND		1	115		
1101651-010A	PL3-S10	S	1400		10	99	e1	
1101651-011A	PL3-S11	S	3200		20	102	e1	
1101651-012A	PL3-S12	S	2700		20	97	e1	
1101651-013A	VP-S13	S	ND		1	109		
Repo ND n	orting Limit for DF =1; neans not detected at or	W	NA			N	A	
abo	ove the reporting limit	8	1.0	mg/Kg				

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

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

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

e1) unmodified or weakly modified diesel is significant

Angela Rydelius, Lab Manager

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

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix: Soil					Batch	ID: 55830		WorkC	Drder 11016	51	
EPA Method SW8021B/8015Bm	n Extraction SW5030B Spiked Sample ID: 1101							: 1101628-0	01A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f)	ND	0.60	114	122	6.57	114	116	1.74	70 - 130	20	70 - 130	20
MTBE	ND	0.10	116	118	2.21	109	114	4.39	70 - 130	20	70 - 130	20
Benzene	ND	0.10	93.6	95.1	1.55	92.5	95.5	3.21	70 - 130	20	70 - 130	20
Toluene	ND	0.10	90.3	91.5	1.32	89.3	92	2.99	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	90.1	91.3	1.33	89.3	91.6	2.48	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	89	90.3	1.36	88.9	92.1	3.50	70 - 130	20	70 - 130	20
%SS:	103	0.10	76	80	4.90	86	86	0	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

			BATCH 55830 SL	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-006A	01/27/11 10:59 AM	01/27/11	01/28/11 8:53 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

A QA/QC Officer

DHS ELAP Certification 1644

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix: Soil				BatchID: 55865 WorkOrder 1101651				51			
EPA Method SW8021B/8015Bm	Extraction SW5030B Spiked Sample ID: 1							: 1101648-0	02A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f	ND	0.60	99.9	89.5	11.0	97.2	95.4	1.82	70 - 130	20	70 - 130	20
MTBE	ND	0.10	121	117	3.33	112	114	1.16	70 - 130	20	70 - 130	20
Benzene	ND	0.10	97.5	99.9	2.49	103	101	1.80	70 - 130	20	70 - 130	20
Toluene	ND	0.10	94.6	97.2	2.70	99.1	98.1	1.09	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	95.9	98.5	2.66	100	98.6	1.77	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	99	101	2.15	103	101	1.94	70 - 130	20	70 - 130	20
%SS:	86	0.10	99	102	3.40	102	105	2.77	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

	BATCH 55865 SUMMARY											
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed					
1101651-007A	01/27/11 11:11 AM	01/27/11	01/28/11 9:54 PM	1101651-008A	01/27/11 11:30 AM	01/27/11	01/28/11 11:55 PM					
1101651-009A	01/27/11 11:53 AM	01/27/11	01/29/11 4:25 AM	1101651-010A	01/27/11 12:10 PM	01/27/11	01/31/11 7:28 PM					
1101651-011A	01/27/11 12:32 PM	I 01/27/11	01/31/11 9:59 PM	1101651-012A	01/27/11 12:43 PM	01/27/11	01/31/11 10:59 PM					
1101651-013A	01/27/11 1:23 PM	I 01/27/11	01/29/11 2:25 AM									

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil	I.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 55870 WorkOrder 1101651					51
EPA Method SW8260B	Extra	ction SW	5030B					5	Spiked Sar	nple ID	: 1101651-0)05A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	e Criteria (%))
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	79.1	78.4	0.883	76.6	76.7	0.189	70 - 130	30	70 - 130	30
Benzene	ND	0.050	113	114	0.921	115	113	1.58	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	86.2	85.7	0.606	93.6	95.9	2.42	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	102	0	101	100	0.827	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97.4	97.5	0.0152	93.5	87.7	6.31	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	103	103	0	110	107	2.90	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	92.9	92.2	0.722	94	91.7	2.45	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	98.3	98.2	0.105	102	101	1.40	70 - 130	30	70 - 130	30
Toluene	ND	0.050	119	118	0.370	128	123	3.79	70 - 130	30	70 - 130	30
%SS1:	97	0.13	88	88	0	96	97	0.430	70 - 130	30	70 - 130	30
%SS2:	104	0.13	111	110	0.435	104	103	1.39	70 - 130	30	70 - 130	30
All target compounds in the Method	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 55870 SUMMARY											
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed				
1101651-001A	01/27/11 10:07 AM	01/27/11	01/28/11 3:58 PM	1101651-001A	01/27/11 10:07 AM	01/27/11	02/02/11 2:05 PM				
1101651-001A	01/27/11 10:07 AM	01/27/11	02/02/11 9:06 PM	1101651-002A	01/27/11 10:16 AM	01/27/11	01/28/11 4:40 PM				
1101651-002A	01/27/11 10:16 AM	01/27/11	01/28/11 4:40 PM	1101651-003A	01/27/11 10:21 AM	01/27/11	01/28/11 5:22 PM				
1101651-003A	01/27/11 10:21 AM	01/27/11	01/28/11 5:22 PM	1101651-004A	01/27/11 10:30 AM	01/27/11	01/28/11 6:05 PM				
1101651-004A	01/27/11 10:30 AM	01/27/11	01/28/11 6:05 PM	1101651-005A	01/27/11 10:44 AM	01/27/11	01/28/11 6:47 PM				
1101651-005A	01/27/11 10:44 AM	01/27/11	01/28/11 6:47 PM								

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

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

MS 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. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

A _ QA/QC Officer



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	W.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 55831 WorkOrder					51
EPA Method SW8015B Extraction SW3550B								5	Spiked Sar	nple ID	: 1101603-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	190	40	116	124	1.43	117	116	0.502	70 - 130	30	70 - 130	30
%SS:	93	25	99	108	8.76	82	80	1.50	70 - 130	30	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 55831 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-006A	01/27/11 10:59 AM	01/27/11	01/30/11 6:26 AM	1101651-007A	01/27/11 11:11 AM	01/27/11	01/29/11 11:09 PM
1101651-008A	01/27/11 11:30 AM	01/27/11	01/30/11 12:22 AM	1101651-009A	01/27/11 11:53 AM	01/27/11	01/30/11 1:35 AM
1101651-010A	01/27/11 12:10 PM	01/27/11	02/01/11 2:22 AM				

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

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

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

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

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

A QA/QC Officer



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	N.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 55869 WorkOrder 1101651					51
EPA Method SW8015B Extraction SW3550B								5	Spiked Sar	nple ID	: 1101651-0)13A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	Acceptance Criteria (%)		
, and jud	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	2.8	40	90.1	90.2	0.0600	117	117	0	70 - 130	30	70 - 130	30
%SS:	105	25	106	106	0	81	80	0.892	70 - 130	30	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 55869 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-011A	01/27/11 12:32 PM	01/27/11	02/01/11 5:18 AM	1101651-012A	01/27/11 12:43 PM	01/27/11	02/01/11 6:57 AM
1101651-013A	01/27/11 1:23 PM	01/27/11	02/01/11 5:47 AM				

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

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

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

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

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

A QA/QC Officer

McCampbell An "When Quality	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
Environmental Service	Client Project ID: #2010-03	5; 1000 N. Vasco	Date Sampled:	01/27/11		
5789 Gold Creek Drive			Date Received:	01/27/11		
	Client Contact: Marc Papi	neau	Date Reported:	02/03/11		
Castro Valley, CA 94552	Client P.O.:		Date Completed:	02/07/11		

WorkOrder: 1101651 A

February 10, 2011

Dear Marc:

Enclosed within are:

- 1) The results of the 5 analyzed samples from your project: **#2010-035; 1000 N. Vasco**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

	22 21	110	165	51.																										5.2			
N N	IcCAMP.	BELL	ANA	LY	FIC.	AL	, II	IC.									1000	C	H	AI	N	OF	r C	U	ST	OI	ΟY	R	E	CO	RD	_	V
		PITTSBU	RG, CA 9	4565-1	701									T	UR	IN.	AR	ou	INE) T	IM	E		L		Ļ			Ļ	1	Ļ		X
We we	bsite: www.m	ccampbe	Il.com En	nail: n	nain@	mcc	ampl	ell.c	om								P	-1		DI			DD	RUS	SH	24	HR		481	HR	72	HR	5 DAY
Tel	ephone: (877) 252-92	62		Fax	: (92	5) 2	52-9	269	•				5	a G	eo	I ra	ске	er E	DI			PD	IF at		Laio	xce	l		wr	ite U	n	(DW)
Report To: M	ADINE A	2	F	SII T	. 0	1	Dr		10.		-	F	\neg	-	3	-			4	nal	veie	De	CUR	II Sa	mp	ie is	em	uen	it ai		ther		Commente
Company: Our	ATTREA	1	54120	<u>, , , , , , , , , , , , , , , , , , , </u>	1	4	210	n	P	Ne	1	L	-		4				A	Tai	y 515	Rei	ques							100	4	+	Comments
C7.9	9 Guin (DEEN	No)	ier	1 hr	40	24	4-	1			BE	g	&F)	× .				eners									10	300	3	Filter
CAST	TO VALL	EY C	AI	E-Ma	il: n	nar	c_p	es	he	al	sh	1.1	101	IM/	~	E/B					Ong							-		M	ER	9	Samples
Tele: (520) 8	81-85	74	F	ax: (510	5)5	81	-7	20	4				015)	S	5520	-	(*	Ŧ		rs/(6020	6020		X	34	5	analysis:
Project #: 201	0-035		P	rojec	t Nai	me:	10	00	0 1	V.	Va	se	o	- -	_	664 /	418.1	00	/ 802	(s	roclo		cides			NAs)	010/	/ 01		8	20	ž I	Yes / No
Project Location:	1000 N	Vess	eo Ro	11	-N-	erh	10/	P,	CN.	7				8021	in	se (1	ons ((H)	602	licide	Y; A	les)	lerbi	(8)	Cs)	s/P	8/6	8 / 60	020)	5	7 "	S.	
Sampler Signatur	e: Mua	Rep	wan	(7	rA)		1		_				502 /	2	Grea	carb	8021	(EPA	Pest	ONL	sticid	G	VOC	SVO	PAH	200.	200.3	10/6	S	¥.	-	
		SAMI	PLING	~ ~	ners	1	MAT	RD	ĸ	PF	MET	ERV	D ED	Gas (015)	Oil & (Hydro	8010	NLY (081 (CI	CB's ((NP Pe	(Acidic	8260 (8270 (8310 ((200.7 /	200.7 /	.8 / 601	00	and		
SAMPLE ID	LOCATION/			iner	ntai									PH as	sel (8	eum	eum	601	EX (8/8	0821	8141	8151	624	625	IMIS	ctals	tals (/ 200	26	67		
	Name	Date	Time	nta	C	er		0.e	-			3	5	& TI	s Die	etro	etro	02.2 /	/ BT	05/6	08+8	07/3	15/ 1	24.2	25.2	270	17 M	5 Me	200.7	00	020		
		Suit		ပိ	ype	Vate	lio :		the	B	C	N	the	LEX	PH at	tal F	tal F	PA 5	191	PA 50	PA 6	PA SI	A SI	A S	S Vd	PA 8	AM 1	UFT	ad (d	+		
0.01				*	T	>	s -	< 0	0	=	Ŧ	Ŧ	9	B	F	F	Ĕ	Ξ	¥	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	0	D	L	W	1.	\downarrow	
PLI-SI		1.27-11	1007	1	B		4	-	-	V	-				X	_					_									~	_	+	
PLI-SZ		1-27-11	1016		B	1	V	_	-	V	-			_	S											_		_		1	-	+	
PL1-53		1-27-11	1021	1	B		V	-	-	V	_			_	X				_	_										1	_	+	
P21-54		1-27-11	1030	1	B			-	-	V	-				\bigotimes	_	_	_					-	_						V	-	+	
PLI-SS		1-27-11	1044	1	B		/	_	-	V					E			•		_			_			_				\checkmark	_	+	
PL2-56		1-27-1(1059	1	B		4	_	-	V					1				1												_		
PL2-57		1-27-11	1111	1	B		1			V			$ \rightarrow$		1				1												_		
PL2-58		1-27-11	1130	1	B		1			\checkmark	1				1				1														
PL3-59		1-27-11	1153	1	R		1			1					V				1														90
PL3-SID		1-27-11	1210	1	B	1	/			1					1				1												,		
PL3-511		1-27-11	1232	1	B		/			V					V				1				1										
PL3-512		1-27-11	1243	1	B		/			1					1				1														
VPS13		1-27-11	1323	1	B		1			1					1				A	110	P									~			
																				. 10													
Relinquished By:		Date:	Time:	Rece	ived B	Y:			1	2	2-	~		ICE	C/t°	2	V	102			R		7 "	dr		te	1	CO	MM	ENTS			
MAN	-	1507	1-27-	2017	11	(a	a	a		1		1		HE	ADS	SPAC	CE A	BSE	NT		0		×	Ga	b	52	55	śle	er	es			
Relinquished By:		Date:	Time:	Rece	ived B	y:								DE	CHL	ORI	NAT	EDI	IN L.	AB	DC DC			-	2								
D.B. LL ID		D	7072	D										PRI	ESEI	RVE	DIN	LAI	B				-										
Relinquished By:		Date:	Time:	Rece	ived B	y:												VC	145	0	2.6	M	TAT	e	OT	IFD							
														PRI	ESEI	RVA	TIO	N_N	AB	00	×G	pH-	2	-0	on	ILK							

1534 Willow Pass Rd Pittsburg CA 94565 1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-92	262				V	VorkO	rder:	110165	1 A	Client	Code: E	NVC				
		WaterTrax	Write	On EDF		Excel		Fax	🖌 En	nail	HardC	Сору	Thire	dParty	□ J-1	flag
Report to: Marc Papineau Environmental S 5789 Gold Creek Castro Valley, Co 510-881-8574	Service k Drive A 94552 FAX 510-581-7204	Email: ma cc: PO: ProjectNo: #2	arc_p@sbc 010-035; 10	global.net 000 N. Vasco			Bill to: Rid R& 22 Ha	ck Jeffer &B Equi 15 Dun ayward,	y pment n Road CA 94545			Req Dai Dai Dai	uested te Rece te Add- te Print	TAT: rived: On: ted:	5 01/27 02/03 02/03	days 7/2011 5/2011 5/2011
									Request	ed Tests	(See leg	end b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 5	6	7	8	9	10	11	12
1101651-001	PL1-S1		Soil	1/27/2011 10:07		А										
1101651-002	PL1-S2		Soil	1/27/2011 10:16		А										
1101651-003	PL1-S3		Soil	1/27/2011 10:21		А										
1101651-004	PL1-S4		Soil	1/27/2011 10:30		А										
1101651-005	PL1-S5		Soil	1/27/2011 10:44		А										

Test Legend:

1	TPH(D)_S	
6		
11		

2	
7	
12	

3	
8	

4	
9	

5		
10		

Prepared by: Maria Venegas

Comments: TPH(d) added 2/3/11 5 day per email

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

	CCampbell Analyti	cal, Inc.		1534 Willow F Web: www.mccamp Telephone: 8	Pass Road, Pitts bell.com E-r 377-252-9262	sburg, CA nail: main Fax: 925	94565-17 @mccampl 5-252-9269	01 bell.com
Environmenta	al Service	Client Project	ID: #	#2010-035; 1000 N.	Date Sam	pled:	01/27/1	1
5789 Gold Cre	eek Drive	vasco			Date Rec	eived:	01/27/1	1
		Client Contac	et: Ma	arc Papineau	Date Extr	acted:	02/03/1	1
Castro Valley,	, CA 94552	Client P.O.:			Date Ana	lyzed	02/03/1	1-02/05/11
Extraction method	To SW3550B	tal Extractable Analy	e Petr ytical m	ethods: SW8015B			Work Orde	er: 1101651
Lab ID	Client ID	Matrix		TPH-Diesel (C10-C23)		DF	% SS	Comments
1101651-001A	PL1-S1	S		4.0		1	119	e2,e4
1101651-002A	PL1-S2	S		ND		1	118	
1101651-003A	PL1-S3	S		1.5		1	115	e2
1101651-004A	PL1-S4	S		1.3		1	110	e7
1101651-005A	PL1-S5	S		ND		1	117	
Repo	orting Limit for DF =1;	W		NA			N	A
ND n abo	neans not detected at or ove the reporting limit	S		1.0			mg	/Kg

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

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

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

e2) diesel range compounds are significant; no recognizable pattern e4) gasoline range compounds are significant.

e7) oil range compounds are significant

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 55921		WorkC	Order 11016	51
EPA Method SW8015B	Extra	ction SW	3550B					5	Spiked San	nple ID	: 1101733-0)10A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
/	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	40	122	124	1.98	112	112	0	70 - 130	30	70 - 130	30
%SS:	118	25	86	86	0	97	97	0	70 - 130	30	70 - 130	30
All target compounds in the Metho NONE	d Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 55921 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-001A	01/27/11 10:07 AM	02/03/11	02/04/11 8:03 PM	1101651-002A	01/27/11 10:16 AM	02/03/11	02/04/11 9:15 PM
1101651-003A	01/27/11 10:21 AM	02/03/11	02/05/11 12:42 AM	1101651-004A	01/27/11 10:30 AM	02/03/11	02/03/11 8:59 PM
1101651-005A	01/27/11 10:44 AM	02/03/11	02/04/11 11:34 PM				

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

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

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

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

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

DHS ELAP Certification 1644

A QA/QC Officer

McCampbell An "When Ouality	nalytical, Inc.	1534 Willow Pas Web: www.mccampbe Telephone: 877	s Road, Pittsburg, CA 9 11.com E-mail: main@ 7-252-9262 Fax: 925-2	4565-1701 mccampbell.com 252-9269
Environmental Service	Client Project ID: #2010-03	5; 1000 N. Vasco	Date Sampled:	01/27/11
5789 Gold Creek Drive			Date Received:	01/27/11
	Client Contact: Marc Papi	neau	Date Reported:	02/03/11
Castro Valley, CA 94552	Client P.O.:		Date Completed:	01/31/11

WorkOrder: 1101653

February 03, 2011

Dear Marc:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: #2010-035; 1000 N. Vasco,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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AWA N	1cCAMP	BELL	ANA	LY	FIC	AL	, II	NC										0	H	AI	N	OF	C	US	ST	OI	DY	R	E	CO	RD)	
		1534 WI	LLOW PA	SS RO	AD									T	TUF	IN	AR	οι	INI	T	IM	E				Ę				1			
W W	ebsite: www.m	ccampbe	Il.com Er	4505-1 nail: n	nain@	mcc	amp	bell.	com													_		RUS	H	24	HR		48	HR	72	HR	5 DAY
Te	lephone: (877) 252-92	62		Fax	: (92	5) 2	52-	9269)				Ļ	G	eo	Fra	cke	er E	DF		4	PD	F	4	E	xce	1	4	W	rite	On	(DW)
	0				0		-		-			_	-								<u> </u>	Ch	eck	if sa	mp	le is	eff	luer	it ai	nd "	J" fla	ag is	required
Report To:	PAPINE	AU	1	5111 1 (D: K	2 F	\$20	20	PM	1EN	5		-						A	nai	ysis	Rec	ques	st.					-	15	Iner	-	Comments
Company: PM	Wonmen	neell	DE		H	971	NA	PRI	2	14	-		-	BE		&F)					mers									166		- 1	Filter
5707	DO VAIL	EV CK	J I	E-Ma	il: 100	are	0	0	de	al	h	1	at	ILIM		E/B					ongo						_			X		1	Samples
Tele: (570) 8	BI-A574	er or	I	Fax: (570) (al	-7	7 04	Z	100	4.00	-4	15)/		5520	-	-	0		LS/C		_				6020	\$020)		12			analysis:
Project #: 2010	035		F	roje	t Nar	ne:	10	00	N.	Ve	se	0		+ 80		564/	118.1	0Cs	/ 802	s)	roclo		cides			NAs)	10/	10/0		an			Yes / No
Project Location:	10001	J. VASO	O RD	. 1	-IVE	RM	OR	E.	CA					8021		se (1() suc	E	602	icide	V; AI	(sa)	lerbi	(8)	3	s / P	8/6	8 / 60	020)	3			
Sampler Signatur	re: Mar	PRA	ines	. Cr	nA)									02 / 1		Great	carbo	8021	EPA	Pest	ONL	sticid	CLH	VOC	SVO	PAH	200.	200.8	0/0	0			
	•	SAMI	PLING	332	ers	I	MA	TRI	X	PR	MET	HO	D ED	Gas (6	(2)	il & c	lydro	8010 /	ALY (81 (CI	CB's (VP Pe	Veidie	8260 (\$270 (310 (00.7 /	00.7 /	8 / 601	08			
	LOCATION/			lers	ain									I as	1 (80	m	um H	01/1	X O	/ 800	82 P(41 ()	51 (/	24/1	25/1	M/8	als (2	ls (2	200.3	20		1	
SAMPLE ID	Field Point			tair	Cont									TPI	Diese	trole	trole	2/6	BTE	09 /	1/80	/ 81	1 81	12/6	12/6	70 SI	Met	Meta	0.7 /	0			
	Name	Date	Time	Con	be (ater	=		her	E	F	NO.	her	EX &	H as	al Pe	al Pe	A 502	-	A 505	A 608	A 507	A 515	A 524	A 525	A 82	M 17	FT 5	d (20	2			
				#	Ty	M	So:	Ai Ai	0	l≌	H	H	õ	BTI	TPI	Tot	Tot	EP	Ŧ	EP	EP	EP	EP.	EP	EP	EP	CA	LU	Lea	W			
STK-PL3	stadiaile	1-27-11	1301	1	B		V			1	1				1				1														
STK- PL2	stockila	1-27-11	1306	i	B			-		1	1				1				1		- 14												
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Relinquished Buy		Data:	Time	Page	ived P		a	-	U			ð	_	HE	EAD	SPA	CEA	BSE	INT_	AP			/ 1	×6	4	bu	res	5 8	Je	eve			
ixeniiquistiea By:		Date:	Time:	Rece	aved B	y:								AP	PRO	PRI	ATE	CO	NTA	INEI	RS_	1											
Relinguished By:		Date:	Time:	Rece	ived B	v:				-	-	_	\neg	PR	RESE	RVE	DIN	LA	B														
						- 100								pp	FEF	DVA	TIO	V	DAS	0.	&G	MI	TAI	LS	от	HER							
														PR	ESE	RVA	TIO	N	JAS	0.	xG	pH-	2	69	UII	ILR							



1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkO	rder: 110165	53 Clie	ntCode: ENVC			
	WaterTrax	WriteOr	n 🗌 EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag	
Report to:				Bi	II to:		Ree	quested TAT:	5 days	
Marc Papineau	Email: r	narc_p@sbc	global.net		Rick Jeffery					
Environmental Service	CC:				R&B Equip	ment	-			
5789 Gold Creek Drive	PO:				2215 Dunn	Road	Da	01/27/2011		
Castro Valley, CA 94552	ProjectNo: #	[‡] 2010-035; 1	000 N. Vasco		Hayward, C	A 94545	Da	Date Printed:		
510-881-8574 FAX 510-581-7204										
						Requested Te	sts (See legend	below)		
			O all a stian Data		0	4 5		0 40	44 40	

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1101653-001	STK-PL3	Soil	1/27/2011 13:01		А	А										
1101653-002	STK-PL2	Soil	1/27/2011 13:06		А	А										

Test Legend:

1	G-MBTEX_S
6	
11	

2	TPH(D)_S
7	
12	

3	
8	

4	
9	

5	
10	

Pre	pared	by:	Maria	V	enegas

Comments:

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



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	Environmental S	ervice			Dat	Date and Time Received: 1/27/2011 4:06:48 PM							
Project Name:	#2010-035; 1000	N. Vasco			Che	eckl	ist completed and re	eviewed by:	Maria Venegas				
WorkOrder N°:	1101653	Matrix <u>Soil</u>			Car	rrier	Client Drop-In						
	Chain of Custody (COC) Information												
Chain of custody	present?		Yes	✓	No 🗆								
Chain of custody	signed when relinqui	shed and received?	Yes	✓	No 🗆								
Chain of custody	agrees with sample I	abels?	Yes	✓	No								
Sample IDs noted	by Client on COC?		Yes	✓	No 🗆								
Date and Time of	Yes	✓	No 🗆										
Sampler's name r	noted on COC?		Yes	✓	No 🗆								
Sample Receipt Information													
Custody seals int	tact on shipping conta	iner/cooler?	Yes		No 🗆			NA 🔽					
Shipping container/cooler in good condition?				✓	No 🗆								
Samples in prope	er containers/bottles?		Yes	\checkmark	No 🗆								
Sample containe	rs intact?		Yes	✓	No 🗆								
Sufficient sample	volume for indicated	test?	Yes		No								
		Sample Prese	rvatior	n and Ho	old Time (H	HT)	Information						
All samples recei	ived within holding tim	e?	Yes	✓	No]							
Container/Temp B	Blank temperature		Coole	r Temp:	2.8°C			NA 🗆					
Water - VOA vial	ls have zero headspa	ce / no bubbles?	Yes		No 🗆		No VOA vials submi	tted 🗹					
Sample labels ch	necked for correct pres	servation?	Yes	\checkmark	No								
Metal - pH accep	table upon receipt (pH	<2)?	Yes		No 🗆			NA 🗹					
Samples Receive	ed on Ice?		Yes	✓	No 🗆								
		(Ісе Тур	e: WE	TICE)								
* NOTE: If the "N	lo" box is checked, se	ee comments below.											

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampb	ell Ana	alyti ^{Counts"}	ical, Iı	<u>nc.</u>	Web	1534 Willow F : www.mccamp Telephone: 8	Pass Road, Pittsburg bell.com E-mail: 377-252-9262 Fa	g, CA 94565-17 main@mccamp x: 925-252-9269	701 bell.com 9			
Enviro	onmental Service			Client P	Project ID: #	2010-035; 10	000 N.	Date Sample	ed: 01/27	//11			
5789 (Gold Creek Drive			vasco				Date Received: 01/27/11					
				Client C	Contact: Ma	Iarc PapineauDate Extracted:01/27/11							
Castro	Valley, CA 94552			Client P	2.0.:			Date Analyz	ed: 01/28	8/11-01/2	29/11		
Extracti	G	asoline R	ange ((C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX a	and MTBE*	k Word	k Ondonu - 1	101652	
Lab ID	Client ID	Matrix	тр	PH(g)	MTRE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments	
001A	STK-PL3	S				ND	ND	ND	0.036	1	85	d7	
002A	STK-PL2	s				ND	ND	ND	ND	1	99		
Repo:	rting Limit for DF =1;	W		50	5.0	0.5	0.5	0.5	0.5		ug/L		
abov	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g	
* water	and vapor samples are re	eported in µ	ug/L, so	oil/sludge/s	solid samples i	n mg/kg, wip	e samples in	µg/wipe, produc	t/oil/non-aque	ous liqui	id samples	and all	

TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



	CCampbell Analyti "When Ouality Counts"	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269									
Environmenta	al Service	Client Project ID:	#2010-035; 1000 N.	Date Sam	Date Sampled: 01/27/11							
5789 Gold Cre	eek Drive	Vasco		Date Rec	eived:	01/27/1	1					
		Client Contact: M	arc Papineau	Date Extr	acted:	01/27/11						
Castro Valley	, CA 94552	Client P.O.:		Date Ana	lyzed	01/30/1	1-01/31/11					
Extraction method	Total Extractable Petroleum Hydrocarbons* Extraction method SW3550B Analytical methods: SW8015B Work Order: 1101653											
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments					
1101653-001A	STK-PL3	S	380		20	99	e1,e7					
1101653-002A	STK-PL2	S	1.2		1	108	e2					
Repo	orting Limit for DF =1;	W	NA			N	A					
abo	ove the reporting limit	S	1.0			mg	/Kg					

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

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

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix: Soil						BatchID: 55865				WorkOrder 1101653			
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B				Spiked Sample ID: 1101648-002A							
Analyte	Sample	Sample Spiked MS MSD MS-MSD					LCSD	LCS-LCSD	D Acceptance Criteria (%)					
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex ^f	ND	0.60	99.9	89.5	11.0	97.2	95.4	1.82	70 - 130	20	70 - 130	20		
MTBE	ND	0.10	121	117	3.33	112	114	1.16	70 - 130	20	70 - 130	20		
Benzene	ND	0.10	97.5	99.9	2.49	103	101	1.80	70 - 130	20	70 - 130	20		
Toluene	ND	0.10	94.6	97.2	2.70	99.1	98.1	1.09	70 - 130	20	70 - 130	20		
Ethylbenzene	ND	0.10	95.9	98.5	2.66	100	98.6	1.77	70 - 130	20	70 - 130	20		
Xylenes	ND	0.30	99	101	2.15	103	101	1.94	70 - 130	20	70 - 130	20		
%SS:	86	0.10	99	102	3.40	102	105	2.77	70 - 130	20	70 - 130	20		
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE														

BATCH 55865 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101653-001A	01/27/11 1:01 PM	01/27/11	01/29/11 3:55 AM	1101653-002A	01/27/11 1:06 PM	01/27/11	01/28/11 11:11 PM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	QC Matrix: Soil					BatchID: 55869			WorkOrder 1101653			
EPA Method SW8015B	Extraction SW3550B						Spiked Sample ID: 1101651-013A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%))
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	2.8	40	90.1	90.2	0.0600	117	117	0	70 - 130	30	70 - 130	30
%SS:	105	25	106	106	0	81	80	0.892	70 - 130	30	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 55869 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101653-001A	01/27/11 1:01 PM	01/27/11	01/30/11 7:39 AM	1101653-002A	01/27/11 1:06 PM	01/27/11	01/31/11 10:28 AM

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

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

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

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

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

A QA/QC Officer