

November 22, 2005 RRM Project# IA220

Mr. Bob Schultz Hazardous Materials Specialist 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-5577

Re: Groundwater Monitoring Results - Second Quarter 2005

649 Pacific Avenue Alameda, California

Dear Mr. Schultz

This report, prepared by RRM, Inc. (RRM) on behalf of Timber Del Properties, LLC, presents the results of the Second Quarter 2005 groundwater monitoring conducted at the referenced site (Figure 1) on June 30, 2005. A discussion of the groundwater monitoring results is presented below, followed by conclusions and recommendations.

GROUNDWATER MONITORING RESULTS

On June 30, 2005, the depth-to-groundwater was measured and groundwater samples were collected from on-site monitoring wells MW-1 through MW-5. All groundwater samples were analyzed for the presence of gasoline range total petroleum hydrocarbons (TPHg) and Stoddard solvent TPH (TPHss) by Environmental Protection Agency (EPA) Method 8015M and benzene, toluene, ethyl benzene, and xylenes (collectively BTEX), by EPA Method 8020. Field and analytical procedures are presented as Attachment A.

Groundwater Elevation, Flow Direction and Gradient

Groundwater elevations were calculated from depth-to-groundwater data; groundwater elevations ranged from 5.24 feet above mean sea level (msl) in Well MW-5 to 6.11 feet above msl in Well MW-3. Groundwater beneath the site was calculated to flow to the northeast at an approximate gradient of 0.005 foot per foot. Depth-to-groundwater and elevation data are summarized in Table 1, field data sheets are included in Attachment B, and the groundwater elevation contour prepared for the June 30, 2005 monitoring event is shown on Figure 2.

Groundwater Analytical Data

The laboratory only detected TPHss above the reporting limit in the groundwater sample collected from Well MW-1 at a concentration of 210 parts per billion (ppb); no other analyzed compounds were detected in any of the groundwater samples. This result is consistent with the previous

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groundwater monitoring event in March 2005. Groundwater analytical data is summarized in Table 1 and shown on Figure 2; certified analytical reports and chain-of-custody documentation are included in Attachment B.

CONCLUSIONS

Based on the information presented above and previous monitoring activities, RRM concludes the following:

- Consistent with historical data, depth-to-groundwater measurements ranged from 5.24 feet to 6.11 feet bgs and groundwater was determined to flow toward the northeast.
- TPHss was only detected in the groundwater sample from Well MW-1 at 210 ppb, and no other analyzed compounds were detected in any of the groundwater samples.
- The dissolved TPHss plume at the site appears stable at this time.

RECOMMENDATIONS

 Conduct two additional groundwater monitoring events to further establish TPHss plume stability.

Should you have any questions regarding the contents of this document, please do not hesitate to call RRM at (831) 475-8141.

STEVEN D. CLARK No. 167 CENTRIED

Sincerely,

RRM, Inc.,

Julie Avanto

Project Engineer

who Avanto

Steven D. Clark

Senior Hydrogeologist, CHG 167

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Attachments:

Table 1 - Groundwater Elevation and Analytical Data

Figure 1 - Site Location Map

Figure 2 - Groundwater Elevation Contour and Analytical Results Map,

June 30, 2005

Attachment A - Field and Analytical Procedures

Attachment B - Certified Analytical Reports, Chain-of-Custody

Documentation, and Field Data Sheets

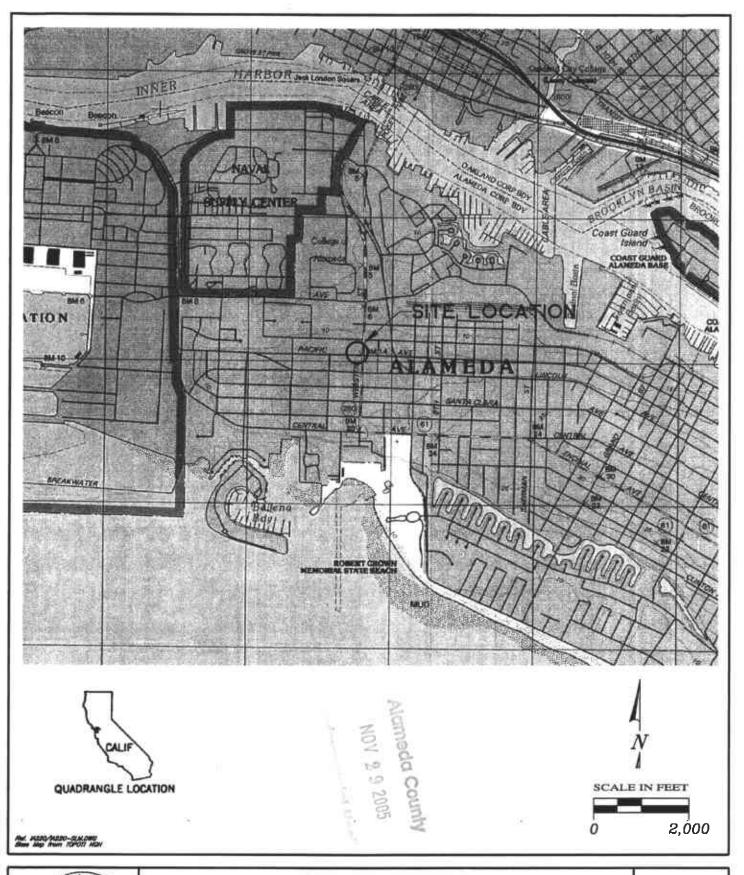
cc: Mr, Don Lindsey

Timber Del Properties, LLC

2424 Central Avenue Alameda, California 94501 Mr. Mark Russel The Mechanics Bank

343 Sansome Street, Suite 100 San Francisco, California 94101

Mr. Carl Searway 3032 Dakota Street Oakland, California 94602



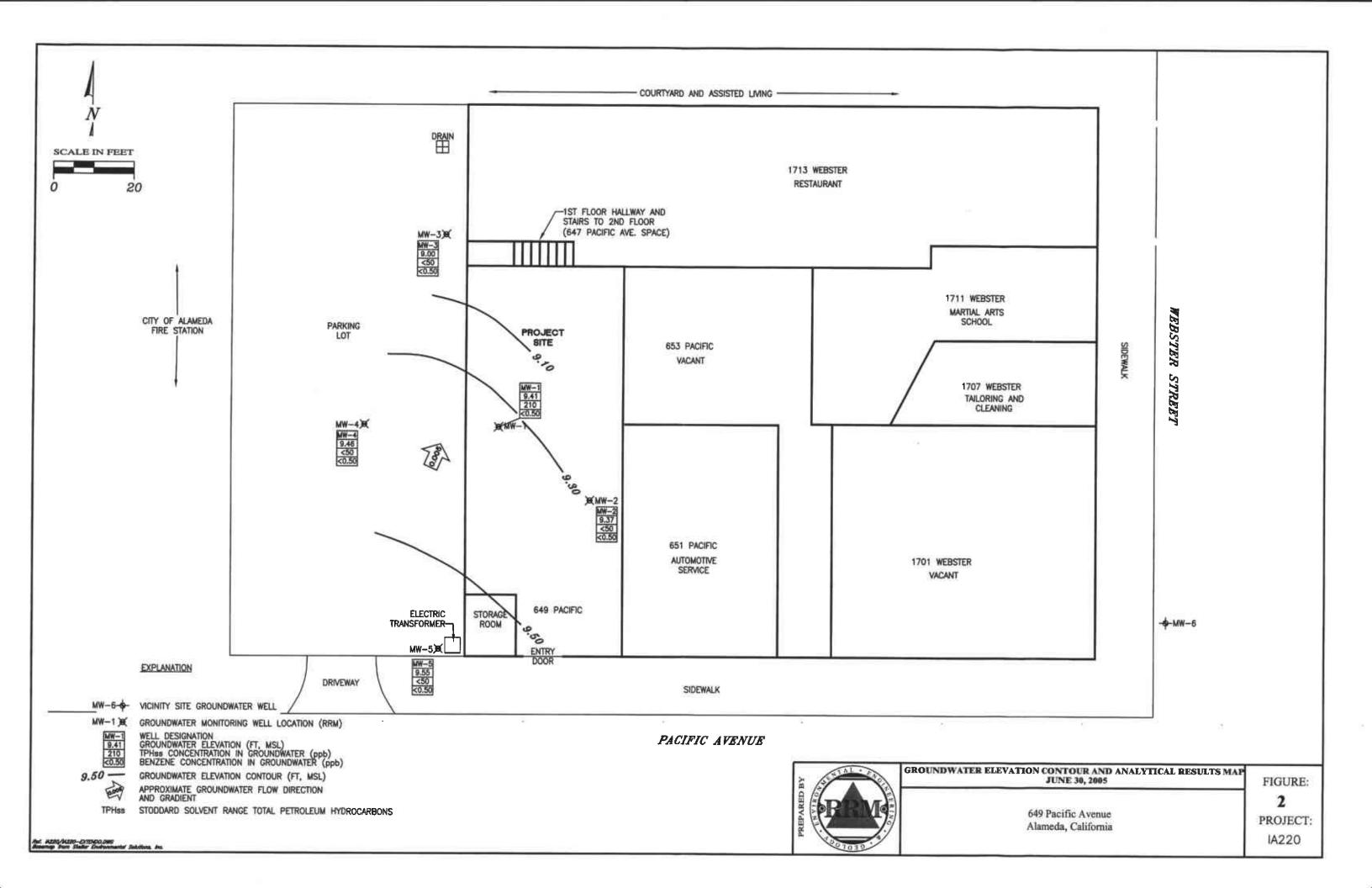


SITE LOCATION MAP

649 Pacific Avenue Alameda, California FIGURE:

1

PROJECT: IA220



ATTACHMENT A FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A FIELD AND ANALYTICAL PROCEDURES

Field Procedures

Groundwater sampling procedures consisted of initially measuring and documenting the water level in each well and checking each well for the presence of separate-phase hydrocarbon (SPH) using a oil/water interface probe or a clear Teflon bailer. The wells that did not contain SPH were then purged a minimum of three casing volumes or until dry. During purging, well stabilization parameters (temperature, pH, and electrical conductivity) were monitored. After purging and prior to sampling, groundwater in the wells was allowed to recharge to within 80% of the original groundwater level. Groundwater samples were then collected using clean Teflon bailers or disposable bailers and appropriate EPA-approved containers. The samples were then labeled, and transported on ice to the laboratory using appropriate chain-of-custody documentation. Sampling equipment was cleaned with an Alconox soap solution between uses. Purge water generated during groundwater sampling was temporarily stored on site in 55-gallon drums pending disposal. The drums were labeled and profiled prior to disposal.

Laboratory Analytical Procedures

Groundwater samples were analyzed for TPHg and TPHss by EPA Method 8015 (Modified), and BTEX compounds by EPA Method 8020. Entech Analytical Labs Inc. of Santa Clara, California, a California State-certified laboratory, performed all analyses.

ATTACHMENT B

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD DATA SHEETS

Depth to Water Data For Site information 849 Pacific Av Prijest Admess Alameds	m 63085 Date Alameda Charty	IA220 Project Humber California State	
Water Level Equipment Electronic Indicator Oil Water Interface Probe Other (specify)	Measured By: Notas:	name	

DTW Order	Well ID	Time (24:00)	Total Depth	0	Second DTW	Depth to SPH	SPH Thickness	
#5	MW-1	7 (24:00)	20	Eirst DTW (bc) or tob) 5.77	(toc or tob)	(toc or tob)	(toc or tob)	Notes (describe SF
#4	MW-2	9 20 854 851 849	20 -	5.84				
#3	MW-3	254	20 -	611				
#2	MW-4	851	20 -	E 57				11
#1	MW-5	849	- 20 -	6.11 5.56 5.24				
		0.71	20	0.24				
								xc.
	72							N.
				-		**		

	Sampling For	m						
Site Information								
649 Pacific Av. Project Address		_	MW-1 Web'tlampie Point	IA220	_8	1		
Alameda		Alameda	Associated some			1		
City		County		California State				
Purge Information								
Water Level Equip			Purge Equipment	t				
Electronic Indica			B aller	Diposable	Teflon #:			
Oil Water Interfa				ump; type:				
curier (specify)_			Other (specify))	 3	10		
	Purge Calculation		casing	gallons per	Purged By:	400		
		20	diameter	linear foot	-	name		
	total depth	SS 124	0.75 in.	0.023	Purge Notes:			
1	depth to water		1 in.	0.04				
	linear feet of water	<u> 14.23</u>	2 in.	0.17				
	jalions per linear foot	x17	4 in.	0.67	-			
	gallons per casing	= 2,42	6 in.	Ħ				
	number of casings			1.5	0:			
		*	other	calculate	:			
	calculated purge	= 7.46	1 cubic foo	t = 7.48 gallons	Purged Dry?; N	Ichrote Y	Sampling Delay?	P: N cárcle Y
	time	gallons	pH	EC	temp	color	turbity	odor
200	1000	(purged)	(units)	(U s @ 25" C)	("F circle (C))	(see below)	(NTU or see below)	(see below)
start		0	671	0.00	10.00	_		
volume 1	1008	2.50	6.74	368	19.5	brown	mod.	none
volume 2	1013	5.00	6.89.	3.64	19.0	14	. 10	11
volume 3	1017	7.50	6.96	4.10	19.0	n	1,	14
volume 4								
complete				·	W			
						prown, yellow	neavy, moderate	strong, moderate
Groundwater Sampli	ng Information					cloudy, clear	light, trace	Slight, none
Sample Type	and and and a		Sampling Equipment					
Monitoring Well					Teflon #:			
Extraction Well			Submersible Pump					
Domestic Well			Sampling Port					
Other (specify)			Other (specify)					
Sample ID	Date	Ti- (0. 00)	1			\cap		
MW-1	6 8005	Time (24:00)				(Latter)		80
1000 1	0000	1025	1		Sampled By:	00		11
Dupe #		12:00				name		
of Cont.	Analyses (check a	and circle)	Container/Size	Preservative	Sampling Notes:			
	TPH gas (8015M)							
	BTEX (8020 or	8260B)	40 ml	$\overline{}$				
4	MtBE (8020 or	-		(HA				
	Fuel Oxy (8260B)		(va)	Hg				
			(VOA					
	Other (specify)							
	VOCs (8010 or 82	40 or 8260R\	40 mi VOA	HCI				
2	TPH as Stoddard	,	-		·			
		ouvent (8015M)	0	none	-			
	Metals (8010)		600 ml plantic	HNO ₃		and	U A N	,
	Other (specify)				Signature:	wo	JW.	

	Sampling For	m						
Site Information								
649 Pacific Av. Project Address		-	MW-2 Well/Sample Pain	IA220 Project Number	_			
Alameda		Alameda	evelosampie Paus	The Page of the Page of		1		
City		County		California		-		
Purge Information								
Water Level Equips			Purga Equipmen	nt				
Electronic Indica			Bailer	Diposable	Teflon #:			
Oil Water Interfa				Pump; type;				
Other (specify)		2	Other (specify)	_	A)		
	Purge Calculation	1	casing	gallons per	Purged By:			
		- 0	diameter	linear foot	1	name		
	total depth	20	0.75 in.	0.023	Purge Notes:			
1	depth to water		1 in.	0.04				
	linear feet of water	= <u>14.1</u> 6	2 in.	0.17	.====			
	pallons per linear foot	x 17	4 in.	Ħ	-			
1		7941		0.67	-			
	gallons per casing number of casings	= 2:1	6 in.	1.5				
	-		other	calculate				
	calculated purge		1 cubic foo	ot = 7.48 gallons	Purged Dry?: N	l dirde Y	Sampling Delay	: Nictrote Y
	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	(°F circle (C)	color	turbity	odor
start	920	- Allender Allender	(critics)	(45 825 0)	(Faircie (C)	(see below)	(NTU or see below)	(see below)
volume 1	930	2.25	6 14	456	19.6	1		
	934	4.50	6.77	427	19.6	browh	mod.	skight
volume 2			6.74		17.1	**	+1	1.1
volume 3	937	7.25	6.75	440	19.0	и	1,	41
volume 4								
complete								
111	(A					brown, yellow	heavy, moderate	swong, moderate
Groundwater Sampli	ng Information					cloudy, clear	lignt, trace	shight, none
Sample Type			Sampling Equipment	t				
Monitoring Well			Bailer	Diposable	Teflon #:			
Extraction Well		ļ	Submersible Pump	p; type:	_			
Domestic Well Other (specify)		Į	Sampling Port					
			Other (specify)		S.			
Sample ID	Date	Time (24:00)	Fi					
MW-2	63005	0945				45/16)		
	0000	<u> </u>			Sampled By:			
Dupe #	T. 100 CONTRACTOR OF THE PARTY	12:00				name		
# of Cont.	Analyses (check a		Container/Size	Preservative	Sampling Notes:			
- 1	TPH gas (8015M)							
	BTEX (8020 or	8260B)	(40 ml					
4	MtBE (8020 or	8260B)		HICI				
	Fuel Oxy (8260B)		(in)					
- 1								
	Other (specify)				·			
	VOCs (8010 or 82	40 or 8260B)	40 ml VOA	HCI	100			
2	TPH as Stoddard	-		ngge	-			
	T				-			
	Metals (8010)		500 ml plastic	HNO ₃		IN:M	Mur	
	Other (specify)				Signature:	- KUU -	7 / /	

Field Data Sheet Groundwater Sampling Form Site Information 649 Pacific Av. MW-3 IA220 Project Address Well/Sumple Point IO Alameda Alameda California State Purge information Water Level Equipment Purge Equipment Electronic Indicator Bailer Diposable Teflon #: ___ Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation casing Purged By: gañons per diameter linear foot 20 total depth 0.75 in. 0.023 Purge Notes: depth to water . 6. // 1 in. 0.04 linear feet of water = 13.87 2 ln. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = 2. 36 6 in. 1.5 number of casings X other calculate calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N circle? Sampling Delay?: N circle Y time gallons temp (°F circle C) color turbity odor (24:00)(purged) (units) (us @ 25° C) (see below) (NTU or see belo (see below) 040 start 1044 2.50 volume 1 807 20.0 brown MON. none 1050 500 volume 2 11 .. volume 3 volume 4 complete cloudy, clear heavy, moderate light, trace strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Bailer Diposable Teffon #: ___ Extraction Well Submersible Pump; type: Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00)

MW-3 Dupe #	63005 11.00			Sampled By:	name
# of Cont.	Analyses (check and circle)	Container/Size	Preservative	Sampling Notes:	
4	TPH gas (8015M) BTEX (8020 or 8260B) MtBE (8020 or 8260B) Fuel Oxy (8260B) Other (specify)	40 ml	160		
<u>ک</u>	VOCs (8010 or 8240 or 8260B) TPH as Stoddard Solvent (8015M) Metals (8010) Other (specify)	iter amber	HCI norse HNO ₃	Signature:	will the

Field Data Sheet Groundwater Sampling Form Site Information 649 Pacific Av. Project Address MW-4 IA220 Alameda City Alameda County California Purge Information Water Level Equipment Purge Equipment Electronic Indicator Baller Diposable Teflon #. Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter linear foot name 20 total depth 0.75 in. 0.023 Purge Notes: depth to water _ 5.56 1 in. 0.04 14.44 linear feet of water = 2 in. 0.17 .17 gallons per linear foot X 193 4 in. 0.67 2.45 galions per casing 6 in. 1.5 3 number of casings X other calculate 7.36 calculated purge 1 cubic foot = 7.48 gallons Purged Dry?: N circle Y Sampling Delay?: N circle Y gallons pΗ temp color turbity odor (24:00) (°F circle (C) (purged) (units) (Us @ 25° C) (see below) (NTU or see below (see below) 1115 start 1121 2.50 7.01 23.3 volume 1 brown mad. none 125 5.00 6.95 volume 2 531 23.1 11 11 41 7.17 41 volume 3 1131 572 22.4 14 volume 4 complete Drown, yesow cloudy, clear neavy, moderate strong, moderate light, trace

Extraction Well Domestic Well Other (specify)			Submersible Pu Sampling Port Other (specify)	mp; type:		
Sample ID 4W-4 upe#	Date 63005	Time (24;90)	_		Sampled By:	(A)
Cont.	Analyses (check a		Container/Size	Preservative	Sampling Note	99:
4	TPH gas (8015M) BTEX (8020 or MtBE (8020 or Fuel Oxy (8260B) Other (specify)	8260B) 8260B)	40 ml	НС		
2	VOCs (8010 or 82 TPH as Stoddard Metals (8010) Other (specify)		40 mi VOA liter amber 500 mil plautic	HCI none HNO ₃		willshim

Groundwater	Sampling For	m						
Site Information				40				
649 Pacific Av. Project Address		_	MVV-5	IA220	_			
Alameda			Well/Sample Point	ner Hilliam				
City		Alameda County		California		-		
Purge Information								
Water Level Equipm	nent		Purge Equipmen	t .				
Electronic Indicat	tor		Bailer	Diposable	Teflon #:			
Oil Water Interfac	ca Probe		Submersible P	ump; type:				
Other (specify)		51	Other (specify)	_	(m)		
	Purge Calculation		casing	gallons per	Purged By:	~		
			diameter	linear foot		name		E
	total depth		0.75 in.	0.023	Purge Notes:			
	depth to water		1 in,	0.04				
	linear feet of water	_14. 7 6	2 in.	0.17				
	allons per linear foot			H	-			
۳		C 7 1	4 in.	0.67				
	gallons per casing	~ ~	6 in.	1.5	2			
	number of casings		other	calculate				
	calculated purge	<u>.</u> 7.53	1 cubic foo	ot = 7.48 gallons	Purged Dry?: N	circle Y	Sampling Delay:	≿ Nickreis Y
	time (24:00)	gallons (Course)	pH	EC	temp	color	turbity	odor
20020	1148	(purged)	(units)	(us @ 25°C)	("F circle C)	(see below)	(NTU or see below)	(see below)
start	1152	0 50	COF	C08	02 6	7		Sales of the Sales
volume 1		2.50	6.95	688	22.6	brown	mod.	hone
volume 2	1156	5.00	7.06	670	22.0	n	и	W
volume 3	1200	7.75	7.04	660	21.9	н	и	٨
volume 4								
complete							*	
						prown, yellow	heavy, moderate	strong, moderate
Groundwater Sampli	ng Information					cloudy, clear	Hght, trace	slight, none
Sample Type			Sampling Equipment	t				
Monitoring Well			Bailer	Diposable	Teffon #:			
Extraction Well			Submersible Pum	p; type:				
Domestic Well			Sampling Port					
Other (specify)			Other (specify)					
Sample ID	Date	Time (24:00)	1					
MW-5	63005	12 10				wed		
2400 3	00000	12.0			Sampled By:			
Dupe#		12:00	4.			name.		
# of Cont.	Analyses (check	and circle)	Container/Size	Preservative	Sampling Notes:			
	TPH gas (8015M))	(82.20)					
	BTEX (8020 or	8260B)	40 ml					
4	MtBE (8020 or			PCI	·.———			
			Cunt					
	Fuel Oxy (82608)		CVOX					
	Other (specify) _							
	VOCs (8010 or 82	240 or 8280R)	40 ml VOA	на				
λ	TPH as Stoddard	•						
	<u> </u>	Servant (6015MI)	Titer amber	noole				
	Metals (8010)		500 ml plastic	HNO ₃		1.1.1.	Mh	
	Other (specify)				Signature:	www	72	



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Oon Lindsey	Project #: JA220
Job Address: 649 Pacific Are Alameda	Date: 63005
Weather Conditions: Clear	Personnel: (15)
Equipment on site: L5 truck, sampling ag	women't
Arrival Time: 730	2.1000011.
Departure Time: 1315	
FIELD NOTES:	a x ²
Inspect site, lo cate wells and	
845 Besin DTW measure ments	check drums upon arm by.
915 Firmsh DTW and purge calcal	latons
Begin Sampling (-Do 2 thon)	to, ono is smally) and start 14514
1220 FIMISH GWS been cheputally	who is sucry) was Spart Music
1270 start survey measure ments	
1255 Finish survey measurements	**
Final Cheanup	
X , X	1
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Claush	was with the

3334 Victor Court Santa Clara, CA 95054 (408) 588-0200 (408) 588-0201 - Fax

Chain of Custody / Analysis Request

rown rawius	821-4258141 1	Purchase Order No.:	Invoice to: (If Different)	Phone:
Attention to: Matt Paulus Company Name: PRM, Inc. Mailing Address: 2560 Sequel Ave. City: Santa Cruz	mail Address: mpaulus@vvmsc.cum tate: CA Zip Code: 95062	Project No.: TA220	Company:	Quote No.:
Mailing Address: 2560 Sayvel Ave.	mail Address: Mpaulus@vvMsC.Cum	Project Name: Don Lindsay	Billing Address: (If Different)	
Santa Cruz	Zip Code: 9506 Z	Project Location: 6 #9 Pacific AVZ	City: Alamecia	State: Zip:
Sampler: Field Org. Code:	Turn Around Time Same Day 1 Day 2 Day 3 Day 3 Day 3 10 Day	GC/N	AS Methods GC Methods	General Chemistry
Order ID: Client ID / Field Point Lab. No.	Sample Date Time 基	No. of Containers 124 8-1509 124 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509 125 8-1509		Remarks
MW-1	63005 1025 W	6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7		₹₹/₹/₹₩ Remarks
MW-2	0945			
MW-3 MW-4	1100			
MW-5	1140	J		
				^
Relinquished by: Received by: Received by: Received by: Received by:	Date: Time: 1430 Date: Time:	Special Instructions or Co		DD Report DF Report Plating LUFT-5
Relinquished by: Received by:	Date: Time:	Metals: Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, A	ı, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ag, Na, S, Se, Sr, Ta, Te, Tl, Sn, Ti, Zn, V	☐ RCRA-8 ☐ PPM-13

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Matt Paulus Remediation Risk Management-SC 2560 Soquel Ave., Suite 202

Santa Cruz, CA 95062

Order Number: 44212

Project Name: Don Lindsay Project Number: IA220 JUL 14 2005

Certificate ID: 44212 - 7/12/2005 12:22:36 PM

Date Received: 6/30/2005 4:17:58 PM

Certificate of Analysis - Final Report

On June 30, 2005, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix

Test

Comments

Liquid

Electronic Deliverables

Gas/BTEX

TPH-Extractable

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Laurie Glantz-Murphy Laboratory Director

3334 Victor Court, Santa Clara, CA 95054

78.4

Phone: (408) 588-0200

Fax: (408) 588-0201

Reviewed by: dba

Remediation Risk Management-SC 2560 Soquel Ave., Suite 202 Santa Cruz, CA 95062 Attn: Matt Paulus

Project ID: IA220

Date Received: 6/30/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

o-Terphenyl

Lab#: 44212-001 Sa	mple ID: MW-	-1				Matrix: Liq	uid Sample l	Date: 6/30/2005	10:25 AM
EPA 3510C EPA 8015 MOD. (Extractable) TPH-Extractable									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoddard	210		l	50	μg/L	7/7/2005	DW050707	7/8/2005	DW050707
Surrogate S	urrogate Recovery		Control	Limits (%)				Analyzed by: JHsian	1g

- 133

EPA 8015 MOD. (Purge	able)							T.	PH as Gasoline
Parameter	Result Q1	ual I	F Detection	Limit Uni	ts P	rep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1 50	μg/	L	N/A	N/A	7/8/2005	WGC4050707
Surrogate	Surrogate Recovery	Соп	Control Limits (%)					Analyzed by: mrua	n
4-Bromofluorobenzene	93.6	6	5 - 135					Reviewed by: bdha	balia

EPA 8020									BTEX
Parameter	Result (Qual D	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Toluene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Ethyl Benzene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Xylenes, Total	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Surrogate	Surranta Bassassas	0		***************************************					

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene 94.1 65 - 135

Reviewed by: bdhabalia

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202

Santa Cruz, CA 95062 Attn: Matt Paulus Project ID: IA220

Date Received: 6/30/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 44212-002 S	ample ID: MV	V-2			,	Matrix: Liq	uid Sample l	Date: 6/30/2005	9:45 AM
EPA 3510C EPA 8015 MOI). (Extractable)							TI	PH-Extractable
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stodda	rd) ND		1	50	μg/L	7/7/2005	DW050707	7/8/2005	DW050707
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: JHsia	ang
o-Terphenyl	72.6		22	- 133				Reviewed by: dba	
EPA 8015 MOD. (Purgeabl	e)							T	PH as Gasoline
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	μg/L	N/A	N/A	7/8/2005	WGC405070

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: mruan
4-Bromofluorobenzene	101	65 - 135	Reviewed by: bdhabalía

EPA 8020									BIEX
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	•	I	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Toluene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Ethyl Benzene	ND		1	0.50	μ g /L	N/A	N/A	7/8/2005	WGC4050707
Xylenes, Total	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Surrogate	Surrogate Recovery	v C	Control	Limits (%)				Analyzed by: mrua	n

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: mruan
4-Bromofluorobenzene	108	65 - 135	Reviewed by: bdhabalia

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Project ID: IA220

Date Received: 6/30/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

Lab#: 44212-003	Sample ID: MW-3	Matrix: Liquid	Sample Date: 6/30/2005	11:00 AM

EPA 3510C EPA 8015 M	OD. (Ext	ractable)							TP	H-Extractable
Parameter		Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stod	dard)	ND		1	50	μg/L	7/7/2005	DW050707	7/8/2005	DW050707
Surrogate	Surrog	gate Recove	ry	Control	Limits (%)				Analyzed by: JHsian	1g
o-Terphenyl		80.1		22	- 133				Reviewed by: dba	

EPA 8015 MOD. (Purgeable) TPH as Gasoline

Parameter	Result (Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Surrogate	Surrogate Recovery	Co	atrol	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	96.9	•	5	- 135				Reviewed by: bdha	balia

EPA 8020									BTEX
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0,50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Toluene	ND		i	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Ethyl Benzene	ND		1	0.50	μ g/L	N/A	N/A	7/8/2005	WGC4050707
Xylenes, Total	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: mruan
4-Bromofluorobenzene	102	65 - 135	Reviewed by: bdhabalia

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Project ID: IA220

Date Received: 6/30/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

Lab#: 44212-004	Sample ID: MV	Y41				Matrix: Liq	uid Sample i	Date: 6/30/2005	11:40 AM
EPA 3510C EPA 8015 MO	D. (Extractable)							TI	H-Extractable
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stodd	ard) ND		1	50	μg/L	7/7/2005	DW050707	7/8/2005	DW050707
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	86.3		22	- 133				Reviewed by: dba	
EPA 8015 MOD. (Purgeal	ole)							Ti	PH as Gasoline
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	μ g /L	N/A	N/A	7/8/2005	WGC405070
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: mruzi	1
4-Bromofluorobenzene	91.2		65	- 135				Reviewed by: bdha	balía
EPA 8020									втех

Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Toluene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Ethyl Benzene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Xylenes, Total	ND		. 1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
<u> </u>				Y				A1	-

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene 94.3 65 - 135

Reviewed by: bdhabalia

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Remediation Risk Management-SC 2560 Soquel Ave., Suite 202

Santa Cruz, CA 95062 Attn: Matt Paulus Project ID: IA220

Date Received: 6/30/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 44212-005	Sample ID: MW	-5				Matrix: Liq	uid Sample l	Date: 6/30/2005	12:10 PM
EPA 3510C EPA 8015 M	OD. (Extractable)	· ** · · · · · · ·						TI	H-Extractable
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoo 530ppb Motor Oil Ran	ldard) ND nge Organics. No Stodd	lard pa	l ttem pres	50 ent.	μg/L	7/7/2005	DW050707	7/8/2005	DW050707
Surrogate	Surrogate Recovery	y	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	54.7		22	- 133				Reviewed by: dba	
EPA 8015 MOD. (Purge:	able)							rı	PH as Gasoline
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		Ĺ	50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Surrogate	Surrogate Recovery	y	Control	Limits (%)	· ·			Analyzed by: mruar	1
4-Bromofluorobenzene	89.7		65	- 135				Reviewed by: bdha	balia
EPA 8020									ВТЕХ
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Toluene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Ethyl Benzene	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Xylenes, Total	ND		1	0.50	μg/L	N/A	N/A	7/8/2005	WGC4050707
Surrogate	Surrogate Recovery	,	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	95.3		65	- 135				Reviewed by: bdhal	oalia

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Method Blank - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

QC Batch ID: WGC4050707 Validated by: bdhabalia - 07/12/05

QC Batch Analysis Date: 7/7/2005

 Parameter
 Result
 DF
 PQLR
 Units

 TPH as Gasoline
 ND
 1
 50
 μg/L

Surrogate for Blank % Recovery Control Limits
4-Bromofluorobenzene 92.8 65 - 135

Method Blank - Liquid - EPA 8020 - BTEX

QC Batch ID: WGC4050707 Validated by: bdhabalia - 07/12/05

QC Batch Analysis Date: 7/7/2005

PQLR Units DF Parameter Result 0.50 μg/L ND 1 Benzene 0.50 μg/L ND 1 Ethyl Benzene μg/L ND 0.50 1 Toluene ND 0.50 μg/L Xylenes, Total

Surrogate for Blank % Recovery Control Limits
4-Bromofluorobenzene 94.0 65 - 135

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Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

QC Batch ID: WGC4050707 Reviewed by: bdhabalia - 07/12/05

QC Batch ID Analysis Date: 7/7/2005

LCS

Parameter Method Blank Spike Amt SpikeResult Units % Recovery Recovery Limits

TPH as Gasoline <50 250 249 μg/L 99.6 65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 90.1 65 - 135

LCSD

Parameter Method Blank Spike Amt SpikeResult Units % Recovery RPD RPD Limits Recovery Limits
TPH as Gasoline <50 250 245 µg/L 98.0 1.6 25.0 65 - 135

TPH as Gasoline <50 250 245 μg/L 98.0 1.6 25.0 65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 103 65 - 135

Laboratory Control Sample / Duplicate - Liquid - EPA 8020 - BTEX

QC Batch ID: WGC4050707 Reviewed by: bdhabalia - 07/12/05

QC Batch ID Analysis Date: 7/7/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	8.0	8.66	μg/L	108	65 - 135
Ethyl Benzene	<0.50	8.0	8.06	μg/L	101	65 - 135
Toluene	< 0.50	8.0	8.54	μg/L	107	65 - 135
Xylenes, total	<0.50	24	24.5	μg/L	102	65 - 135

Surrogate% RecoveryControl Limits4-Bromofluorobenzene10365-135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	8.0	7.62	μg/L	95.2	13	25.0	65 - 135
Ethyl Benzene	<0.50	8.0	7.18	μg/L	89.8	12	25.0	65 - 135
Toluene	<0.50	8.0	7.57	μg/L	94.6	12	25.0	65 - 135
Xylenes, total	<0.50	24	20.2	μg/L	84.2	19	25.0	65 - 135

Surrogate % Recovery Control Limits
4-Bromofluorobenzene 96.3 65 - 135

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Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline

QC Batch ID: WGC4050707 Reviewed by: bdhabalia - 07/12/05

QC Batch ID Analysis Date: 7/7/2005

MS Sample Spiked: 44212-001

Sample Spike Spike Analysis Recovery
Parameter Result Amount Result Units Date % Recovery Limits

TPH as Gasoline ND 250 223 μg/L 7/7/2005 89.2 65 - 140

Surrogate % Recovery Control Limits
4-Bromofluorobenzene 92.1 65 - 135

MSD Sample Spiked: 44212-001

Recovery Sample Spike Spike **Analysis** Limits Result Amount Date Result **Parameter** Units % Recovery **RPD RPD Limits** 65 - 140 TPH as Gasoline ND 250 250 7/7/2005 100 11 25.0 μg/L

Surrogate % Recovery Control Limits
4-Bromofluorobenzene 96.4 65 - 135

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Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8020 - BTEX

QC Batch ID: WGC4050707 Reviewed by: bdhabalia - 07/12/05

QC Batch ID Analysis Date: 7/7/2005

nple Spiked:	44212-001
	nple Spiked:

	Sample	Spike	Spike		Analysis		Recovery
Parameter	Result	Amount	Result	Units	Date	% Recovery	Limits
Benzene	ND	2.8	2.48	μg/L	7/7/2005	88.2	65 - 140
Ethyl Benzene	ND	3.7	2.56	μg/L	7/7/2005	69.2	65 - 140
Toluene	ND	16	13.5	μg/L	7/7/2005	82.6	65 - 140
Xylenes, total	ND	20	14.0	μg/L	7/7/2005	71.8	65 - 140

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	95.8	65 - 135

MSD	Sample Spiked:	44212-001
MISU	campic opined,	776167001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	2.8	2.73	μg/L	7/7/2005	97.2	9.6	25.0	65 - 140
Ethyl Benzene	ND	3.7	2.71	μg/L	7/7/2005	73.2	5.7	25.0	65 - 140
Toluene	ND	16	14.3	μg/L	7/7/2005	87.3	5.6	25.0	65 - 140
Xylenes, total	ND	20	15.0	μg/L	7/7/2005	77,1	7.2	25.0	65 - 140

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.7	65 - 135

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Method Blank - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable

QC/Prep Batch ID: DW050707 Validated by: dba - 07/07/05

QC/Prep Date: 7/7/2005

ParameterResultDFPQLRUnitsTPH as Mineral Spirits (Stoddard)ND150 $\mu g/L$

Surrogate for Blank % Recovery Control Limits o-Terphenyl 89.7 22 - 133

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable

QC/Prep Batch ID: DW050707 Reviewed by: dba - 07/07/05

QC/Prep Date: 7/7/2005

LCS

Parameter Method Blank Spike Amt SpikeResult Units % Recovery Recovery Limits TPH as Diesel <50 1000 864 μg/L 86.4 40 - 138 TPH as Motor Oil <200 1000 µg/L 889 88.9 40 - 138

Surrogate % Recovery Control Limits o-Terphenyl 96.1 22 - 133

LCSD

Parameter Method Blank Spike Amt SpikeResult Units % Recovery RPD RPD Limits Recovery Limits TPH as Diesel <50 40 - 138 1000 784 μg/L 78.4 9.6 25.0 TPH as Motor Oil <200 1000 841 μg/L 84.1 5.6 25.0 40 - 138

 Surrogate
 % Recovery
 Control Limits

 o-Terphenyl
 79.6
 22 - 133

Entech Analytical Labs, Inc. **Chain of Custody / Analysis Request** 3334 Victor Court (408) 588-0200 Santa Clara, CA 95054 (408) 588-0201 - Fax Attention to: Matt Phone No.: 831-4758141 Purchase Order No.: Invoice to: (If Different) Fax No.: 831-475-8249 TA220 Company: Quote No.: Email Address: Project Name: Mpaulus @xxmsc.com Don Lindsay Billing Address: (If Different) City: Alameda GC/MS Methods **GC Methods** General Chemistry Sampler: Field Org. Code: **Turn Around Time** □ Same Day ☐ 1 Day ☐ 2 Dav ☐ 3 Day Global ID: 4 Day □ 5 Day 🐒 10 Day No. of Containers Order ID: Sample To The Matrix Client ID / Field Point Lab. No. Date Time Remarks 63005 MW-1 – 0'd **]** MW-2 0945 000. 4W-3 1100 003 1140 004 005 Special Instructions or Comments ☐ EDD Report EDF Report Plating Relinguished by: ☐ LUFT-5 Metals: RCRA-8 Relinquished by: Received by: Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, □ PPM-13 Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Tl, Sn, Ti, Zn, V, W, Zr ☐ CAM-17

June 2004