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March 23, 1998

Ms. Amy Leech Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

**Quarterly Groundwater Monitoring Report** 

1075 40th Street Oakland, CA 94608 Project No. 1540

Dear Ms. Leech:

Enclosed is a copy of the Quarterly Groundwater Monitoring Report for the property at the above referenced address.

If you have any questions or comments regarding the findings presented in this report, please contact me at (510) 283-6000.

Sincerely,

ALL ENVIRONMENTAL, INC.

Mick Walchuk Project Manager March 23, 1998

# QUARTERLY GROUNDWATER MONITORING REPORT

First Quarter, 1998

1075 40th Street Oakland, CA 94608

507 V . 3341

Project No. 1540

Prepared For

Fidelity Roof Co. 1075 40th Street Oakland, CA 94608

Prepared By

All Environmental, Inc. 901 Moraga Road, Suite C Lafayette, CA 94549 (800) 801-3224

AEI

March 23, 1998

Mr. Monte Upshaw Fidelity Roof Co. 1075 40th Street Oakland, CA 94608

Re: Quarterly Groundwater Monitoring and Sampling Report

First Quarter, 1998 1075 40th Street Oakland, CA 94608 Project No. 1540

Dear Mr. Upshaw:

All Environmental, Inc. (AEI) has prepared this report on behalf of Mr. Monty Upshaw, in response to his request for a groundwater investigation at the above referenced site (Figure 1: Site Location Map). The investigation was initiated by the property owner in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA). The purpose of this activity is to monitor groundwater quality in the vicinity of previous underground storage tanks. This report presents the findings of the fourth episode of quarterly groundwater monitoring and sampling conducted on January 16, 1998.

#### Site Description and Background

The site is located in a commercial zone at 1075 40th Street in Oakland, California, and currently supports the operation of Fidelity Roof Company, a roofing company (refer to Figure 1: Site Location Map). The topography of the site slopes gently to the south.

On December 19, 1995, Tank Protect Engineering removed one (1) 1,000 gallon underground storage tank (UST) and one (1) 500 gallon gasoline UST from the southeast corner of the property. The removal of the tanks produced a single excavation. The excavated soil was stockpiled north of the excavation. Three discrete soil samples were collected from beneath the USTs. Analysis of the samples indicated a maximum concentration of 100 mg/kg TPH as gasoline, 2.0 mg/kg benzene, and 96 mg/kg TPH as diesel beneath the 500 gallon UST.

Four discrete soil samples were collected from the excavated soil. The samples were analyzed as one composite sample. TPH as gasoline and TPH as diesel were present within the representative sample at concentrations of 580 mg/kg and 120 mg/kg, respectively. Benzene was detected at a concentration of 2.3 mg/kg.

2200 Pacific Coast Hwy, Suite 217 Hermosa Beach, CA 90254 Phone: (310) 798-4255 Fax: (310) 798-2841 Mr. Monte Upshaw Project No. 1540 March 23, 1998 Page 2

AEI issued a workplan on August 28, 1996 to the Alameda County Health Care Services Agency (ACHCSA) designed to define the extent and magnitude of petroleum hydrocarbon contamination in the vicinity of the former USTs. On September 11, 1996, Ms. Susan Hugo of the ACHCSA approved the workplan.

On September 12, 1996, AEI advanced four soil borings in the vicinity of the former UST excavation (Ref. - Phase II Soil and Groundwater Investigation, dated October 7, 1996). Soil samples were collected from all of the borings and groundwater samples were collected from two of the borings. Analytical results from the subsurface investigation revealed significant levels of gasoline and diesel present in soil to the south and west of the open excavation. The soil contamination was believed to extend beneath the existing pump island. Moderate concentrations of petroleum hydrocarbons remain present in the soil to the east of the excavation, however the removal of additional soil could potentially undermine the existing building. Concentrations present in the soil north of the excavation did not warrant the removal of additional soil.

On October 25, 1996, AEI extended the excavation to the south and west (Ref. - Excavation and Disposal of Contaminated Soil Report, dated January 7, 1997). The contaminated soil was stockpiled on-site and profiled for disposal into a Class III Landfill. The original excavation was extended laterally 7 feet to the south and 12 feet to west. Soil was removed to a depth of 9 feet below ground surface (bgs). The dispenser island and associated piping were removed. Groundwater was not encountered during the excavation activities. Four confirmation soil samples were collected from the excavation sidewalls. Analyses of the soil samples collected from the excavation sidewalls indicated that up to 150 mg/kg TPH as gasoline, 16 mg/kg benzene, and 300 mg/kg TPH as diesel remained within the western sidewall of the excavation.

Results of the Phase II Subsurface Investigation indicated groundwater impacted with maximum concentrations of  $5,500~\mu g/l$  TPH as gasoline,  $340~\mu g/l$  benzene, and  $2,100~\mu g/l$  TPH as diesel. Upon review of the Phase II Subsurface Investigation report and the Excavation and Disposal of Contaminated Soil Report, the ACHCSA issued a letter, dated February 18, 1997 which called for further investigation into the extent and magnitude of the groundwater contaminant plume. AEI issued a workplan, dated February 24, 1997, which called for the installation of three groundwater monitoring wells on-site. In a letter, dated February 28, 1997, the ACHCSA approved the workplan.

On March 6, 1997, AEI drilled three soil borings and converted them to groundwater monitoring wells. The wells were developed on March 10, 1997 and first sampled on March 19, 1997.

#### **Summary of Activities**

AEI measured the depth to groundwater and collected water samples from the wells on January 16, 1998. The well locations are shown in Figure 2. The depth from the top of the well casings

Mr. Monte Upshaw Project No. 1540 March 23, 1998 Page 3

were measured prior to sampling with an electric water level indicator. The wells were purged using a battery powered submersible pump and a groundwater sample was collected using a clean disposable Teflon bailer.

Temperature, pH, and turbidity were measured during the purging of the wells. AEI removed at least 3 well volumes. Once the temperature, pH, and turbidity stabilized, a water sample was collected.

Water was poured from the bailers into 1 liter amber bottles and 40 ml VOA vials and capped so that there was no head space or visible air bubbles within the sample containers. Samples were shipped on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pacheco, California (State Certification #1644).

Groundwater samples were submitted for chemical analyses for Total Petroleum Hydrocarbons (TPH) as gasoline (EPA Method 5030/8015), methyl tertiary butyl ether (MTBE) (EPA Method 8020/602), benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Method 8020/602), TPH as diesel (EPA Method 3510/8015).

#### **Field Results**

No free product was encountered during monitoring activities. A petroleum odor was noted in MW-3. Groundwater levels for the current monitoring episode ranged from 35.14 to 39.66 feet above Mean Sea Level (MSL). These groundwater elevations were an average of 2.6 feet lower than the previous monitoring episode. The direction of the groundwater flow at the time of measurement was toward the southwest. Due to the close proximity of San Francisco Bay, the fluctuations of groundwater direction and gradient over time may be a result of tidal influences. The latest estimated groundwater gradient is approximately 0.13 feet per foot.

Groundwater elevation data is summarized in Table 1. The groundwater elevation contours and the groundwater flow direction are shown in Figure 2. Refer to Appendix B for the Groundwater Monitoring Well Field Sampling Form.

#### **Groundwater Quality**

Concentrations of petroleum hydrocarbons increased in MW-1 and MW-3 during the most recent monitoring episode. MW-3, the down-gradient well, continues to have high concentrations of petroleum hydrocarbons. No concentrations of benzene or TPH as gasoline or diesel were detected in MW-2. The gradient shifted slightly to a more southwesterly direction during the most recent sampling episode.

A summary of groundwater quality data, including historic data, is presented in Table 3. Laboratory results and chain of custody documents are included in Appendix B. Previous laboratory results and chain of custody documents are included in Appendix C.

Mr. Monte Upshaw Project No. 1540 March 23, 1998 Page 4

#### Recommendations

All Environmental, Inc. recommends the continued quarterly groundwater monitoring and sampling of the wells. The next monitoring and sampling episode is scheduled for April, 1998.

#### Report Limitations and Signatures

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field that existed at the time and location of the work.

Sincerely,

All Environmental, Inc.

Nick Walchuk Project Manager

Joseph P. Derhake, PE, CAC

Principal

Figures Tables

Appendix A Groundwater Monitoring Well Field Sampling Forms

Appendix B Current Laboratory Analyses With Chain of Custody Documentation

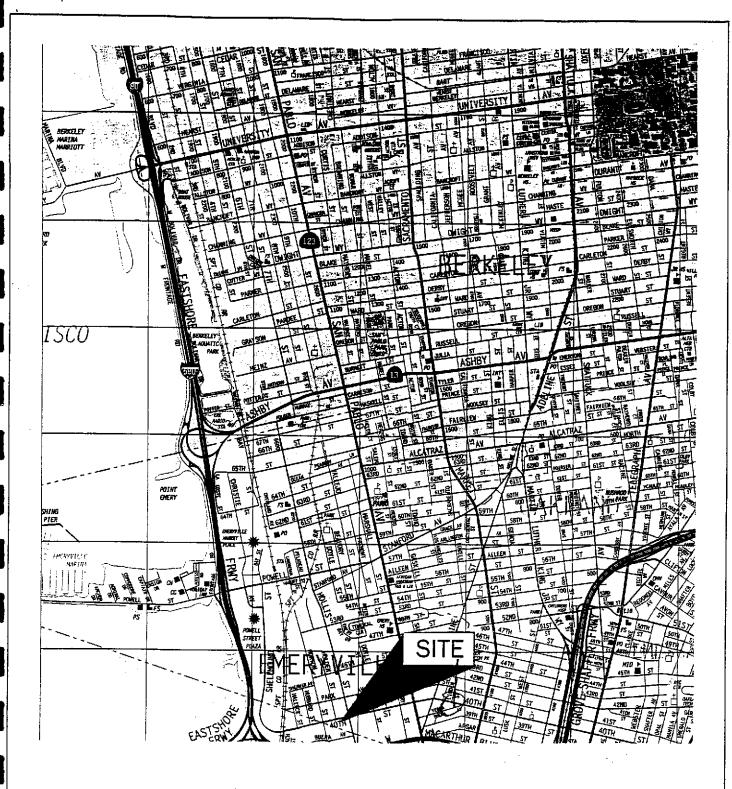
Appendix C Previous Laboratory Analyses With Chain of Custody Documentation

cc: Ms. Amy Leech

Alameda County Health Care Services Agency

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577





FROM: ALAMEDA/CONTRA COSTA COUNTIES THOMAS BROS. MAPS 1997 EDITION

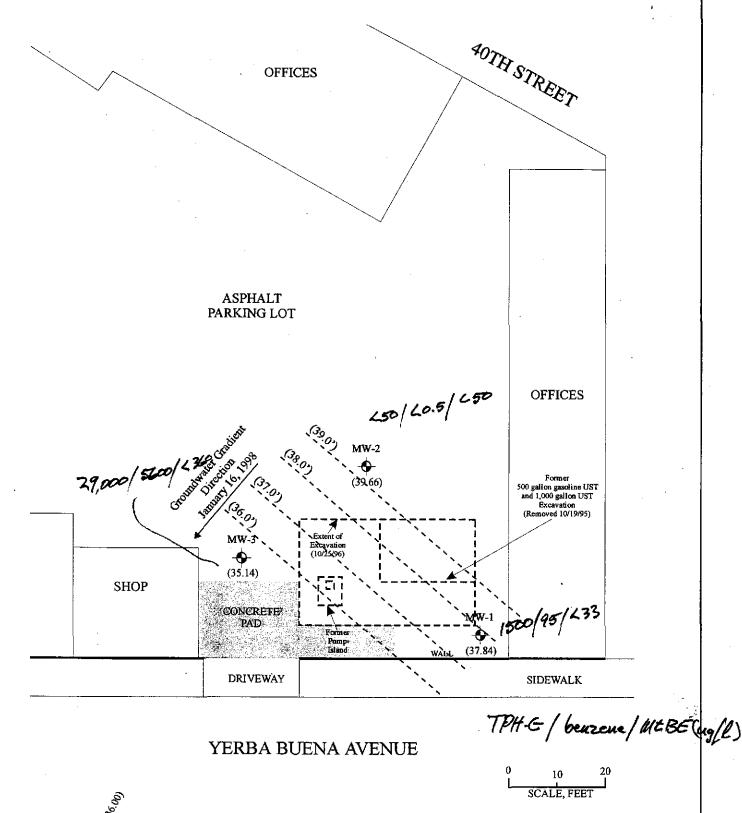
# ALL ENVIRONMENTAL, INC. 3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

SCALE: 1":2400'

DATE:

SITE LOCATION MAP

1075 40TH STREET OAKLAND, CALIFORNIA DRAWING NUMBER: FIGURE 1





LINE OF EQUAL GROUNDWATER ELEVATION (feet)

MW-1 GROUNDWATER MONITORING WELL (Installed 3/6/96)

(36.31) GROUNDWATER ELEVATION (feet)

UST: UNDERGROUND STORAGE TANK



SCALE: 1"=20"

DATE:

### GROUNDWATER GRADIENT MAP

1075 40TH STREET OAKLAND, CALIFORNIA DRAWING NUMBER: FIGURE 2

Table 1
Groundwater Levels

Well ID	Date	Well Elevation (ft msi)	Depth to Water (ft)	Groundwater Elevation (ft msi)
MW-1	3/19/97	45.41	8.25	37.16
	6/20/97	45.41	9.10	36.31
	10/8/97	45.41	9.95	35.46
	1/16/98	45.41	7.57	37.84
MW-2	3/19/97	44 <b>.94</b>	8.40	36.54
	6/20/97	44.94	8.85	36.09
	10/8/97	44.94	9.80	35.14
	1/16/98	44.94	5.28	39.66
MW-3	3/19/97	44,32	7.59	36.73
	10/ <b>8/97</b>	44.32	9.98	34.34
	6/20/97	44.32	8.36	35.96
	1/16/98	44.32	9.18	35.14

Notes:

All well elevations are measured from the top of casing not from the ground surface. It msl = feet above mean sea level

Table 2 Groundwater Sample Analytical Data

Well ID	Date	Consultant/ Lab	TPHg (ug/l)	MTBE (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- Benzene (ug/l)	Xylenes (ug/l)	TPHd (ug/l)
MW - 1	3/19/97	AEI/MAI	<50	23	<0.5	<0.5	<0.5	<0.5	<50
	6/23/97	AEI/MAI	1,300	14	150	2.1	12	19	420
	10/8/97	AEI/MAI	56	5.8	2.8	<0.5	<0.5	<0.5	66
	1/16/98	AEI/MAI	1,500	<33	95	0.72	69	8.4	910
MW - 2	3/19/97	AEI/MAI	<50	65	<0.5	<0.5	<0.5	<0.5	<50
	6/23/97	AEI/MAI	<50	70	3.4	<0.5	< 0.5	<0.5	<50
	10/8/97	AEI/MAI	<50	90	<0.5	<0.5	<0.5	<0.5	<50
	1/16/98	AEI/MAI	<50	65	< 0.5	<0.5	<0.5	<0.5	<50
MW -3	3/19/97	AEI/MAI	26,000	230	3,000	530	340	2,300	5,000
	6/23/97	AEI/MAI	25,000	270	4,400	120	540	1,500	7,000
	10/8/97	AEI/MAI	17,000	ND<280	4,400	47	280	410	5,100
	1/16/98	AEI/MAI	29,000	ND<360	5,600	740	950	3,500	7,300

Notes:	MTBE	Methyl Tertiary Butyl Ether
	TPHg	Total Petroleum Hydrocarbons as gasoline
	TPHd	Total Petroleum Hydrocarbons as diesel
	AEI	All Environmental, Inc.
	MAI	McCampbell Analytical Inc., Pacheco, California
	ug/l	Micrograms per liter

## APPENDIX A

# GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS

#### ALL ENVIRONMENTAL INC. - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-1 Project Name: Fidelity Roof Co. Date of Sampling: 1/16/98 Job Number: 1540 Name of Sampler: Dusty Roy Project Address: 1075 40th Street, Oakland, CA 94608 MONITORING WELL DATA Well Casing Diameter (2"/4"/6") 2" Seal at Grade -- Type and Condition good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 45.41 Depth of Well 21.00 Depth to Water 7.57 Water Elevation 37.84 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 6.45 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) 7 Appearance of Purge Water Clear **GROUNDWATER SAMPLES** Number of Samples/Container Size 2 - 40 ml VOAs, 1 - 1 liter bottle Time Vol Remvd Temp pН Cond Comments (gal) (deg F) (mS) 63.0 1753 6.55 3 63.3 6.49 1760 63.3 6.50 1761 63.3 6.50 1760 COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

TD - Total Depth of Well DTW - Depth To Water

#### ALL ENVIRONMENTAL INC. - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-2 Project Name: Fidelity Roof Co. Date of Sampling: 1/16/98 Job Number: 1540 Name of Sampler: Dusty Roy Project Address: 1075 40th Street, Oakland, CA 94608 MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition good Well Cap & Lock - OK/Replace OK Elevation of Top of Casing 44,94 Depth of Well 21.00 Depth to Water 5.28 Water Elevation 39.66 Three Well Volumes (gallons)\* 2" casing: (TD - DTW)(0.16)(3) 7.55 4" casing: (TD - DTW)(0.65)(3)6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) 7 Appearance of Purge Water Clear GROUNDWATER SAMPLES Number of Samples/Container Size 2 - 40 ml VOAs, 1 - 1 liter bottle Vol Remvd Time Temp Cond pΗ Comments (gal) (deg F) (mS) 65.1 6.98 1011 64.7 3 7.02 999 5 64.6 7.00 990 7 64.7 6.98 994 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Full of water and not air tight

TD - Total Depth of Well DTW - Depth To Water

ALL E	NVIRONME				JNDWAT	TER MONITORING WELL RM		
		Monito	ring W	ell N	umber: I	MW-3		
Project Nam	e: Fidelity Ro	of Co		Date	of Sampl	ing: 1/16/98		
Job Number		01 00.				oler: Dusty Roy		
	ress: 1075 40t	h Street, Oa	kland,			oler. Dusty Roy		
		MON	TTOD	INIC I	WELL D	A.T.A.		
Well Casing	Diameter (2"/		HOR	2"	WELL DA	AIA		
	e Type and (			Goo				
	Lock OK/Re			OK	u			
	Top of Casing			44.3	2	· · · · · · · · · · · · · · · · · · ·		
Depth of We		<del></del>		21.0				
Depth to Wa				9.18		· · · · · · · · · · · · · · · · · · ·		
Water Eleva				35.1				
Three Well	Volumes (gallo	ns)*		••••	·			
	g: (TD - DTW			5.67				
	g: (TD - DTW							
	g: (TD - DTW							
Actual Volu	me Purged (ga	lons)		7				
Appearance	of Purge Wate	r		Clear w/ sheen				
	<del></del>	GROI	INDW	ATE	R SAMPI	!FS		
Number of S	amples/Contai		1			as, 1 - 1 liter bottle		
					UIII VOI			
Time	Vol Remvd	Temp	pΗ	·	Cond	Comments		
	(gal)	(deg F)	,		(mS)			
	1	63.8	7.1	0	888			
	3	63.8	7.0	1	879			
	5	64.1	7.0		870			
	7	63.9	7.0	1	868			
	COMMENT	S (i.e., sam	ple odo	r, we	ll recharge	time & percent, etc.)		
	but was air tig	ht						
Petroleum oc	or noted		<u> </u>					

TD - Total Depth of Well DTW - Depth To Water



All Environmental, Inc.	Client Project ID: #1540; Fidelity Roof	Date Sampled: 01/16/98
3364 Mt. Diablo Blvd.		Date Received: 01/16/98
Lafayette, CA 94549	Client Contact: Jennifer Pucci	Date Extracted: 01/16/98
	Client P.O:	Date Analyzed: 01/16/98

01/23/98

Dear Jennifer:

Enclosed are:

- 1). the results of 3 samples from your #1540; Fidelity Roof project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

All Environmental, Inc.	Client Project ID: #1540; Fidelity Roof	Date Sampled: 01/16/98
3364 Mt. Diablo Blvd.		Date Received: 01/16/98
Lafayette, CA 94549	Client Contact: Jennifer Pucci	Date Extracted: 01/16/98
	Client P.O:	Date Analyzed: 01/16/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
84978	MW-I	W	1500,a	ND<33	95	0.72	69	8.4	121#
84979	MW-2	w	ND	65	ND	ND	ND	ND	106
48980	MW-3	W	29,000,a	ND<360	5600	740	950	3500	103
					-				
									VP 822 -
	<u></u> .								<del></del> .
					- > -			-	
			· <del></del>						
						_	-		
otherwise	Limit unless stated; ND	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
	letected above orting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

<sup>\*</sup> cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

All Environmental, Inc.	Client Project ID: #1540; Fidelity Roof	Date Sampled: 01/16/98
3364 Mt. Diablo Blvd.		Date Received: 01/16/98
Lafayette, CA 94549	Client Contact: Jennifer Pucci	Date Extracted: 01/16/98
	Client P.O:	Date Analyzed: 01/16/98
T. 1		

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \*

Lab ID Client ID		Matrix	TPH(d) <sup>-</sup>	% Recover Surrogate	
84978	MW-1	w	910,d	102	
84979	MW-2	W	ND	103	
48980 MW-3	W	7300,d	103		
-					
	<u> </u>				
	<del>.</del>				
Reporting Lim	it unless otherwise	W	50 ug/L		
ated; ND means not detected above the reporting limit		S	· · · · · · · · · · · · · · · · · · ·		

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

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

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

Date: 01/16/98

Matrix: WATER

	Concent	ration	(mg/L)	% Recovery			
Analyte	Sample			Amount			RPD
	(#84949) 	MS -	MSD	Spiked 	MS 	MSD	
TPH (gas)	0.0	96.3	95.6	100.0	96.3	95.6	0.7
Benzene	0.0	9.8	10.0	10.0	98.0	100.0	2.0
Toluene	0.0	10.1	10.1	10.0	101.0	101.0	0.0
Ethyl Benzene	0.0	10.1	10.1	10.0	101.0	101.0	0.0
Xylenes	0.0	30.5	30.5	30.0	101.7	101.7	0.0
TPH(diesel)	0	142	140	150	95	93	1.8
TRPH (oil & grease)	0	23100	25300	23700	97	107	9.1

<sup>%</sup> Rec. = (MS - Sample) / amount spiked x 100

CHAIN OF CUSTODY RECORD McCAMBELL ANALYTICAL INC. 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553 TURN AROUND TIME Telephone: (510) 798-1620 Fax: (510) 798-1622 Report To: JEWN PEA PULL RUSH 24 HOUR 48 HOUR 5 DAY Bill To: AFT Company: All Environmental, Inc. Analysis Request Other 3364 Mt. Diablo Blvd. Comments Total Petroleum Oil & Grease (5520 E&F/B&F) Lafayette, CA 94549 Tele: (510) 283-6000 Fax: (510) 283-6121 EPA 625 / 8270 / 8310 Project #: 1540 Total Petroleum Hydrocarbons (418.1) Project Name: Fidelity Roof Project Location: OAKLAND BTEX ONLY (EPA 602 / 8020) Sampler Signature: Dust EPA 608 / 8080 PCB's ONLY Lead (7240/7421/239.2/6010) SAMPLING MATRIX METHOD TPH as Diesel (8015) EPA 624 / 8240 / 8260 Type Comtainers PRESERVED # Containers Other BTEX & TPH as G PAH's / PNA's by SAMPLE ID LOCATION EPA 601 / 8010 CAM-17 Metals EPA 608 / 8080 EPA 625 / 8270 LUFT 5 Metals Date Time Sludge Water Soil HNO, lce HCI Ą 泛 MW-1 1/16/98 3 mi 2 3 MW-3 2 84978 84979 84980 Relinquished By: Date: Time: Receiped By: Remarks: Relinquished By Dáte: VOAS | O&G | METALS | OTHER ICE/I®\_\_ PRESERVATION 🖌 GOOD CONDITION APPROPRIATE CONTAINERS Relinquished By: Date: Time: Received By:

 $(\cdot)$ 

All Environmental, Inc.	Client Project ID: #1540; Fidelity Roof	Date Sampled: 10/08/97	
3364 Mt. Diablo Blvd.		Date Received: 10/08/97	
Lafayette, CA 94549	Client Contact: Bryan Campbell	Date Extracted: 10/08-10/09/97	
	Client P.O:	Date Analyzed: 10/08-10/09/97	

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
81669	MW-3	W	17,000,a	ND<280	4400	47	280	410	104
81670	MW-2	w	ND	90	ND	ND	ND	ND	105
81671	MW-I	W	56,c	5.8	2.8	ND	ND	ND	100
			<u></u>						
					<del>-</del> -				
			-						
						0			
Reporting	Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means not de	stated; ND etected above rting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	•

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

f cluttered chromatogram; sample peak coelutes with surrogate peak

110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone: 510-798-1620 Fax: 510-798-1622
<a href="http://www.mccampbell.com">http://www.mccampbell.com</a> E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #1540; Fidelity Roof	Date Sampled: 10/08/97
3364 Mt. Diablo Blvd.		Date Received: 10/08/97
Lafayette, CA 94549	Client Contact: Bryan Campbell	Date Extracted: 10/10/97
	Client P.O:	Date Analyzed: 10/10-10/13/97
701 170	4 <b>7</b> 4.	

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \*

Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>	% Recovery Surrogate
81669	MW-3	w	5100,d,b	99
81670	MW-2	w	ND	. 98
81671	MW-1	W	66,b	99
	<u> </u>			
	· · · · · · · · · · · · · · · · · · ·			
Reporting Lim	nit unless otherwise as not detected above	W	50 ug/L	
	orting limit	S	1.0 mg/kg	

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

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

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

Date: 10/08/97

Matrix: WATER

<b>.</b>	Concent	ration	(mg/L)		% Reco	very	
Analyte	Sample  #(81560) 	MS	MSD	Amount   Spiked	   MS 	MSD	RPD
TPH (gas) Benzene Toluene Ethyl Benzene Xylenes	0.0	103.0 10.3 10.4 10.2 30.7	104.2 10.4 10.5 10.7 31.9	100.0 10.0 10.0 10.0	103.0 103.0 104.0 102.0	104.2 104.0 105.0 107.0	1.2 1.0 1.0 4.8
TPH(diesel)	0	162	163	150	102.3	106.3	1.0
TRPH (oil & grease)	0	29300	26900	27300	107	99	8.5

<sup>%</sup> Rec. = (MS - Sample) / amount spiked x 100

Date: 10/10/97

Matrix: WATER

7	Concent	ration	(mg/L)		% Reco	very	·
Analyte	Sample  #(81643) 	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)   Benzene   Toluene   Ethyl Benzene   Xylenes	0.0	104.2 10.5 10.5 10.7	103.0 10.6 10.6 10.8 32.4	100.0 10.0 10.0 10.0 30.0	104.2 105.0 105.0 107.0	103.0 106.0 106.0 108.0	1.2 0.9 0.9 0.9
    TPH(diesel)	0	162	163	150	108	109	1.0
TRPH (oil & grease)	0	23200	22900	23700	98	97	1.3

<sup>%</sup> Rec. = (MS - Sample) / amount spiked x 100

Date: 10/13/97

Matrix: WATER

Analyte	Concent	ration	(mg/L)	!	% Reco	very	
	Sample  #(81750)	MS	MSD	Amount   Spiked	MS	MSD	RPD
TPH (gas)   Benzene   Toluene   Ethyl Benzene   Xylenes	0.0	98.9 10.1 10.1 10.2 30.7	98.2 10.1 10.2 10.3 31.0	100.0 10.0 10.0 10.0 30.0	98.9 101.0 101.0 102.0 102.3	98.2 101.0 102.0 103.0 103.3	0.7 0.0 1.0 1.0
TPH(diesel)	0	165	164	150	110	109	0.9
TRPH (oil & grease)	0	23100	22400	23700	97	95	3.1

% Rec. = (MS - Sample) / amount spiked x 100

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All Environmental, Inc.	Client Project ID: #1540; Fidelity Roof	Date Sampled: 06/23/97
3364 Mt. Diablo Blvd.		Date Received: 06/23/97
Lafayette, CA 94549	Client Contact: Bryan Campbell	Date Extracted: 06/28/97
	Client P.O:	Date Analyzed: 06/28/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
77872	MW-I	w	1300,a	14	150	2.1	12	19	94
77873	MW-2	W	ND	70	3.4	ND	ND	ND	105
77874	MW-3	W	25,000,a	270	4400	120	540	1500	103
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	-						·		
otherwis	Limit unless e stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
	detected above orting limit	s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts

\*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

<sup>&</sup>quot; cluttered chromatogram; sample peak coelutes with surrogate peak

		-			
All Environm	nental, Inc.	Client Pro	ject ID: #1540; Fidelity Roof	Date Sampled: 0	06/23/97
3364 Mt. Dia	blo Blvd.		-	Date Received:	06/23/97
Lafayette, CA	A 94549	Client Co	ntact: Bryan Campbell	Date Extracted:	06/25/97
		Client P.C	):	Date Analyzed:	06/25/97
EPA methods me	Diesel Ra	inge (C10-C	C23) Extractable Hydrocarbon mia RWQCB (SF Bay Region) method (	s as Diesel *	D(3510)
Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>	30-12(1-1-1)	% Recovery Surrogate
77872	MW-1	w	420,d,b		103
77873	MW-2	w	ND		101
77874	MW-3	W	7000,d,b		102
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	nit unless otherwise	w	50 ug/L	i	
	ns not detected above porting limit	S	1.0 ma/ka		

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

<sup>\*</sup> 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.

<sup>\*</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

Date: 06/28/97

Matrix:

Water

	Concent	ration	(mg/L)		% Reco	very	
Analyte	Sample			Amount			RPD
	#( <b>7</b> 7919) 	MS	MSD	Spiked 	MS	MSD	
TPH (gas)	0.0	110.4	109.7	100.0	110.4	109.7	0.6
Benzene	0.0	10.0	9.8	10.0	100.0	98.0	2.0
Toluene	0.0	10.3	10.1	10.0	103.0	101.0	2.0
Ethyl Benzene	0.0	9.7	9.8	10.0	97.0	98.0	1.0
Xylenes	0.0	29.2	29.8	30.0	97.3	99.3	2.0
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

Date: 06/25/97

Matrix: Water

	Concent	ration	(mg/L)	· ·	% Reco	very	
Analyte   	Sample  #(77720)	MS	MSD	Amount   Spiked	MS	MSD	RPD
TPH (gas)	0.0	90.5	98.7	100.0	90.5	98.7	8.7
Benzene   Toluene   Ethyl Benzene	0.0 0.0 0.0	9.1 9.6 9.8	9.7	10.0	91.0 96.0	97.0 102.0	6.4
Xylenes	0.0	29.4	10.5 31.6	10.0 30.0	98.0 98.0	105.0 105.3	6.9 7.2
  TPH (diesel)	0	149	151	150	100	101	1.2
   TRPH   (oil & grease) 	0	28300	28400	28000   28000	101	101	0.4

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

8885 Xale 165. doc DATE: 6/23/97 PAGE: 1 OF: 1 3364 Mt. Diablo Boulevard \_afayette, CA 94549 (510) 283-6000 FAX: (510) 283-6121 NUMBER OF CONTAINERS AELPROJECT MANAGER: BRYON CAMPBE! ANALYSIS REQUEST PROJECT NUMBER: 1540 SIGNATURE: Dusty TOTAL # OF CONTAINERS: RECD. GOOD COND./COLD: YES ..... MATRIX TIME DATE SAMPLE I.D. <u>3</u>23 MW-1 MW-2 **APPROPRIATE** RELINQUISHED BY: 2 RECEIVED BY: RELINQUISHED BY: Signature Signature Printed Name

AE 1 Printed Name Printed Name INSTRUCTIONS/COMMENTS: Company 5:60 Date Company Company Date. <u>Date</u>

ALL ENV DNIMENTAL, INC.

All Environmental, Inc.	Client Project ID: # 1540; Fidelity Roof	Date Sampled: 03/19/97
3364 Mt. Diablo Blvd.		Date Received: 03/21/97
Lafayette, CA 94549	Client Contact: Bryan Campbell	Date Extracted: 03/24/97
	Client P.O:	Date Analyzed: 03/24/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

EPA method	s 5030, modified 80	015. and 80	20 or 602; Califo	ornia RWQC	B (SF Bay Re	gion) method	GCFID(5030	)	DIEA.
Lab ID	Client ID	Matrix	_	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
74590	MW-1	w	ND	23	ND	ND	ND	ND	105
74591	MW-2	w	ND	65	ND	ND	ND	ND	105
74592	MW-3	w	26,000,a	230	3000	530	340	2300	100
			· · · · · · · · · · · · · · · · · · ·						
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	***								
Reporting	Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
otherwise stated; ND means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

<sup>\*</sup> water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

<sup>\*</sup>cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

All Environn	nental, Inc.	Client Pro	oject ID: # 1540; Fidelity Roof	Date Sampled: 03/	/19/97					
3364 Mt. Diablo Blvd. Lafayette, CA 94549			Date Received: 03/21/97							
Lafayette, CA	<b>A</b> 94549	Client Co.	ntact: Bryan Campbell	Date Extracted: 03/21/97						
		Client P.C	):	Date Analyzed: 03	5/21/97					
EPA methods m	Diesel Ra nodified 8015, and 3550 or	nge (C10-0 3510; Califo	C23) Extractable Hydrocarbons rnia RWQCB (SF Bay Region) method	as Diesel * GCFID(3550) or GCFII	D(3510)					
Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>		% Recovery Surrogate					
74590	MW-1	w	ND	<u>.,</u>	101					
74591	MW-2	w	ND		110					
74592	MW-3	w	5000,d		100					
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Reporting I wise stated:	Limit unless other- ND means not de-	W	50 ug/L							
tected above the reporting limit		S	1.0 mg/kg		·					

<sup>\*</sup> water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

<sup>#</sup> 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.

<sup>&</sup>lt;sup>+</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

Date: 03/21/97

Matrix: Water

3	Concenti	ation	(mg/L)	1	% Reco		
Analyte	Sample  (#74543)	MS	MSD	Amount   Spiked	l ms	MSD	RPD
	·						
   TPH (gas)	0.0	97.3	99.5	100.0	97.3	99.5	2.2
Benzene	0.0	9.6	9.8	10.0	96.0	98.0	2.1
Toluene	0.0	9.9	10.2	10.0	99.0	102.0	3.0
Ethyl Benzene	0.0	10.2	10.5	10.0	102.0	105.0	2.9
Xylenes 	0.0	30.4	31.3	30.0	101.3	104.3	2.9
TPH (diesel)	0	139	143	150	93	95	2.6
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>%</sup> Rec. = (MS - Sample) / amount spiked x 100

Date: 03/24/97

Matrix: Water

	Concent	ration	(mg/L)	1	% Reco	very	
Analyte 	Sample  (#74563)	MS	MSD	Amount Spiked	   MS	MSD	RPD
	ļ						
(   TPH (gas)	0.0	101.4	100.8	100.0	   101.4	100.8	0.6
Benzene	0.0	9.9	9.8	10.0	99.0	98.0	1.0
Toluene	0.0	10.3	10.2	10.0	103.0	102.0	1.0
Ethyl Benzene	0.0	10.4	10.4	10.0	104.0	104.0	0.0
Xylenes 	0.0	31.1	31.3	30.0	103.7	104.3	0.6
TPH (diesel)	0	139	139	150	93	92	0.2
TRPH (oil & grease)	0	24800	24900	23700	105	105	0.4

% Rec. \* (MS - Sample) / amount spiked x 100

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MW-3		3/3/57		3		X							X	X																74591
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ALL ENVIRONMENTAL, INC. 3364 Mt. Diablo Boulevard

Lafayette, CA 94549 (510) 283-6000 FAX: (510) 283-6121

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DATE: 3/6/97 PAGE: 1 OF: 1

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PROJECT NUMBER: 15	407	·		7			/ g /	61		74150	
SIGNATURE:					/ #	0.529	1 Sept			74100	i di
TOTAL # OF CONTAINERS:	51			.و /	S 8 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	2 / 2 / Li	74151	KO K
RECD. GOOD COND./COLD:			•		์ เรือนั้น	500	1 8 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5		7 Kenals 7 12 12 12 12 12 12 12 12 12 12 12 12 12	74150	ABE
SAMPLE I.D.	DATE	TIME	MATRIX	TPH Gooding	TPH-(2015) (EPA 5020 8015) (EPA 602 8015)		BTKCABLE AROMATICS TOTAL OIL & GREAT	TOTAL LEAD (AA) VOLATTE OR CAME	LUFT Metals (EPA 7130,7190,780,780,780,780,780,780,780,780,780,78	74152	N SZ
BH-3,5'	3/4/17	10:12 am			Hole					74153	1
B43 101	-	10:25am		[		<			· ·	74154	1
BH-3, 10'		10:32am	<b> </b>		₹ <u>`</u>	<del>`</del>				74154	1/
1314-3, 15		10:44 am			31101	ح ا				74155	
BH-3, 15' BH-3, 20' BH-1, 5'		12:00			)'					74156	
BH-1, 101		12:08			X	X			5		
BH-1,15'		12:25								74157	1 J
BH-1,201		12:56			3 HO10	!				74158	1
BH-2,51		1:55	· L		/					_	<u> </u>
BH-1,10		2:10			X.	<u> </u>				74159	<u>;</u>
BH-2, 15'		2:17		1	2 Hal	<u>d</u>				74160	<u> </u>
BH-2, 15'		2:40	L		<u>/                                    </u>						
					_	\	/OAS 1080 i	METALS (OTHER			_
			ICE/T°		PROSE	PVATIVE					[
			GOOD CONDITION		APPRO	PRIATE					
ANALYTICAL LAB: Mccam	Obel	- RE	LINOUISHED	BY! VI	LONI	NERBYE	D DY:	1 RELING	UISHED BY: 5	RECEIVED	BY: 2
ADDRESS:	·····		Signature			Signatur	e	Sigi	nature S MCLEAN	Signature Heid, R.cci Printed Nan	ca
PHONE: ( ) FA	X: ( )		Printed Name	hole	1 JAM	ES ( rinted N	MCLEAN ame	Print	ed Name	Heidi Kicci Printed Nan	4
INSTRUCTIONS/COMMENTS:		A	727 1 '		1 <i>I</i> tte	1く()		1 4 6 100		Mc Camp Dell Company	
			Company  // 3() Date	2/2/02	frime	1130	y Date3かり	7 Time 123 C	Date 3-7-97	Time 1230 Da	<sub>1c</sub> 3/1/97
		1 1 line/		7711	T time	<del></del>	Date	-1.411112		- 1 x 1111.C D'ii	<u> </u>