ALL ENVIRONMENTAL, INC.
3364 Mt. Diablo Boulevard
Lafayette, California 94549
(510) 283-6000
(510) 283-6121 FAX

FAX TRANSMITTAL SHEET

TO: Jennifer Eberle

FAX NUMBER: 337 9335

FROM: Jennifer Anderson

MESSAGE: Thanks for your patience. Analytical of soil sample collected from SB-1 at 18 ft bgs to follow. Also, an update on manual purging episodes from earlier this year. We are meeting with Vic on Thursday to obtain a signed contract for the skimming system. Phase II report will be forwarded shortly. Thanks. JA

Date: 9/9/96 **No. of Pages (Including Cover Page):** 8

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1255; Lum	Date Sampled: 08/08/96
		Date Received: 08/09/96
	Client Contact: Jennifer Anderson	Date Extracted: 08/27/96
	Client P.O:	Date Analyzed: 08/27-08/28/96

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)+	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
67781	SB-1, L-1, 18	S	9100,a	47	57	580	190	1000	111#
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	50 ng/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	1.0 mg/kg	0.005	0.005	0.005	0.005	

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

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); 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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

ALL ENVIRONMENTAL, INC.
3364 Mt. Diablo Boulevard
Lafayette, CA 94549
(510) 283-6000 FAX: (510) 283-6121

5 DAY

Chain of Cus

DATE: 8/9/96 PAGE: 1 OF: 1

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SEP-09-1996 19:03 P.03

AEI PROJECT MANAGER: Jennifer Anderson
PROJECT NAME: LUM
PROJECT NUMBER: 1255
SIGNATURE: J. Anderson
TOTAL # OF CONTAINERS: 11
RECD. GOOD COND./COLD: YES

ANALYSIS REQUEST

Analysis columns: TPH-Gasoline (EPA 5030/8015); TPH-Gasoline (EPA 5030/8015) w/ BTEX and MTBE (EPA 602/8020); TPH-Diesel (EPA 3510/3550/8015); PURGEABLE AROMATICS BTEX and MTBE (EPA 602/8020); TOTAL OIL & GREASE (EPA 5520 E&F); TOTAL LEAD (AA) (EPA 7420); VOLATILE ORGANIC COMPOUNDS (EPA 8240); LUFT Metals (EPA 7130/7190/7420/7520/7950); STLC CAM 17 (EPA 1310/6010); RCI REACTIVITY, CORROSIVITY, IGNITABILITY (Title 22 CCR 66261.21-3)

	SAMPLE I.D.	DATE	TIME	MATRIX	TPH-Gasoline w/ BTEX and MTBE		NUMBER OF CONTAINERS
	SB-1, L-1, 18	8/8/96	925	SOIL	Hold off Hold 8/27/96 per JA.	67781	1
	SB-1, L-2, 24	↓	935	↓	X	67782	1
	SB-2, L-1, 24		1015		X	67783	1
	SB-3, L-1, 24		1105	↓	X	67784	1
+5	SB-1, W		–	WATER	X	67785	2
5+	SB-2, W		–	↓	X	67786	2
10+	SB-3, W	↓	–	↓	X	67787	3

ICED ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓
PRESERVATIVE ✓ APPROPRIATE CONTAINERS ✓
VOAS

ANALYTICAL LAB: McCampbell Analytical
ADDRESS:
PHONE: 510-798-1620 FAX: ( )
INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
Signature: J. Anderson	Signature: Heidi Ricci	Signature	Signature
Printed Name: Jennifer Anderson	Printed Name: HEIDI RICCI	Printed Name	Printed Name
Company: AEI	Company: MAI	Company	Company
Time 8/9/96 Date [illegible]	Time 11:?0 Date 8/9/96	Time Date	Time Date

ALL ENVIRONMENTAL, INC.
Environmental Engineering & Construction

September 9, 1996
Job No. 1255

Ms. Jennifer Eberle
Alameda County Health Services Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: 245 8th Street, Oakland

Dear Jennifer:

The following letter report details the groundwater and free product level measurements collected during the purging activities performed between March 19, 1996 and ~~May 23,~~ 7-25 1996 at the above referenced address. Free floating product was purged from the on-site well, MW-1, on six separate occasions during this time frame. Thickness of the product was measured using an oil water interface probe. Floating product was removed from the well using a bailer and is currently being stored within 55 gallon drums on-site.

The thickness of free-floating product measured within MW-1 during the manual purging episodes is listed in Table 1. The most recent purging episodes are bolded for easier reference.

The product thickness consistently declined from July, 1995 to December, 1995, however the measurements from January, 1996 to March, 1996 indicate an increase of approximately 2 feet in the free product thickness. The thickness of product reached a high of 4.39 feet in March, 1996 and then dropped off to approximately 3 feet for the remaining purging episodes.

No floating product was measured within MW-2 between March, 1996 and July, 1996.

Groundwater elevation (GWE) measurements were collected on July 25, 1996 from MW-2 and the off-site Aqua Science Engineers (ASE) wells, ASE-1 and ASE-2. The GWE measurements for July, 1996 indicate a continued southern groundwater flow direction. Refer to Table 3 for historic and current GWE measurements.

The manual removal has not significantly decreased the level of product from July, 1995, rather the product thickness has increased within the well. Therefore, AEI is proposing to install a peristaltic pump system to remove the free floating product in a more timely manner.

Ms. Jennifer Eberle
Alameda County Health Services Department
September 9, 1996
Job No. 1255

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

Sincerely,

Jennifer Anderson
Project Manager

cc: Victor Lum

Table 1: Product Recovery Data, MW-1

Date	Initial Depth to Product (ft)	Initial Depth to Water (ft)	Product Thickness (ft)	Volume Removed (gal)	Final Product Thickness (ft)
7/28/95	15.80	18.02	2.22	9	0.03
8/11/95	16.01	18.03	2.02	8	0.02
8/28/95	16.25	18.09	1.84	5	0.15
9/12/95	16.41	18.13	1.72	5	0.10
10/03/95	16.57	18.25	1.68	5	0.08
11/28/95	17.25	18.47	1.22	5	0.01
12/06/95	17.33	18.53	1.20	4	0.01
1/05/96	16.74	18.15	1.41	3	0.03
1/12/96	16.80	18.15	1.35	4	0.02
1/29/96	15.94	17.70	1.76	6	0.05
2/13/96	14.59	17.61	3.02	12	0.41
3/5/96	13.91	17.85	3.94	15	0.10
3/13/96	13.35	17.32	3.97	14	0.10
3/19/96	14.49	18.88	4.39	14	0.24
4/15/96	14.28	17.55	3.27	12	0.10
4/19/96	14.69	17.46	2.77	10	0.07
4/30/96	14.67	17.41	2.74	12	0.13
5/14/96	14.90	17.75	2.85	10	0.03
5/23/96	14.50	17.68	3.18	11	0.35
7/25/96	15.72	18.08	2.36	0	—

Table 2: Product Recovery Data, MW-2

Date	Initial Depth to Product (ft)	Initial Depth to Water (ft)	Product Thickness (ft)	Volume Removed (gal)	Final Product Thickness (ft)
11/28/95	18.30	18.42	0.12	0	0.12
12/06/95	18.37	18.47	0.10	3	0.00
1/05/96	18.84	18.86	0.02	0	0.02
1/12/96	17.88	17.89	0.01	0	0.01
1/29/96	-----	17.08	0.00	0	0.00
2/13/96	15.95	15.99	0.04	0	0.04
3/5/96	-----	15.53	0.00	0	0.00
3/13/96	-----	15.56	0.00	0	0.00
3/19/96	-----	15.63	0.00	0	0.00
4/15/96	-----	15.58	0.00	0	0.00
4/19/96	-----	15.76	0.00	0	0.00
4/30/96	-----	15.62	0.00	0	0.00
5/14/96	-----	15.53	0.00	0	0.00
5/23/96	-----	15.87	0.00	0	0.00
7/25/96	-----	16.94	0.00	0	0.00

167

7/95-7/96

Table 3: Groundwater Level Measurements

Date Well Number	Water Depth (feet)	Casing Elevation (feet)	Groundwater Elevation (feet)
7/21/95			
MW-2	17.21	23.980	6.770
ASE-1	16.02	23.985	7.965
ASE-2	16.71	25.510	8.800
10/17/95			
MW-2	17.67	23.980	6.310
ASE-1	16.94	23.985	7.045
ASE-2	17.72	25.510	7.790
1/12/95			
MW-2	17.89	23.980	6.090
ASE-1	17.05	23.985	6.935
ASE-2	18.03	25.510	7.480
7/25/96			
MW-2	16.94	23.980	7.040
ASE-1	16.02	23.985	7.965
ASE-2	16.82	25.510	8.690