geo - logic *geotechnical and environmental consulting services*
1140 - 5th Avenue, Crockett, CA 94525 (510) 787-6867 - Fax (510) 787-1457

LETTER OF TRANSMITTAL

March 21, 2001

To: Ms. Susan Hugo
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94608

Enclosed:

1st Quarter 2001 Quarterly Monitoring Report
Former Berkeley Farms Truck Shop and Yard
4575 San Pablo Avenue
Emeryville, CA

geo - logic *geotechnical and environmental consulting services*
1140 - 5th Avenue, Crockett, CA 94525 (510) 787-6867 - Fax (510) 787-1457

GL-97-110.R16
Paradiso Job No. 1120-02
March 20,2001

Mr. Peter Puckett
Berkeley Farms
25500 Clawiter Road
Hayward, California

RE: 1st Quarter 2001 Monitoring and Sampling Report for Former Berkeley Farms Truck Repair Shop and Yard 4575 San Pablo Avenue, Emeryville, California

Mr. Puckett:

This report presents the results of the first quarter 2001 monitoring and sampling of the wells at the subject site. During this quarter, the three wells were monitored and sampled on March 13, 2001. The work during this quarter was performed in compliance with the guidelines established Regional Water Quality Control Board (RWQCB), and the Alameda County Department of Environmental Health (ACDEH).

SITE DESCRIPTION AND BACKGROUND

The subject site is located on the western side of San Pablo Avenue between 45th and 47th Streets in Emeryville, California, and formerly contained a service station facility at the southern portion of the property. Until 1998, the site operated as a truck repair shop and yard for Berkeley Farms. A Site Plan (Figure 1) is attached to this report.

Geo-Logic's previous work at the site includes sampling during overexcavation of a waste oil tank at the northern end of the property. This work is summarized in Geo-Logic's reports (GL-97-110.R1 and GL-97-110.R2), both dated February 10, 1998.

Following this work, installation of three monitoring wells was proposed (workplan/proposal GL-98-110, dated November 15, 1997). The wells were installed in February, 1998. This work, including the results of the first quarter of monitoring and sampling, was documented in Geo-Logic's report (GL-97-110.R3) dated March 7, 1998.

In April and May, 1998, a former service station fuel tank pit at the southern portion of the site was extensively overexcavated. This work, and the results of the second quarter of monitoring and sampling, was documented in Geo-Logic's report (GL-97-110.R4) dated June 9, 1998.

On September 5, 1998, as discussed in a prior meeting with Ms. Susan Hugo of the ACDEH, ORC filter socks were placed in monitoring wells MW2 and MW3. ORC is a insoluble solid peroxygen consisting of magnesium peroxide which has been formulated to release oxygen at a controlled rate when hydrated. The purpose of the ORC in wells MW2 and MW3 was to enhance conditions for the natural biodegradation of petroleum hydrocarbons. Prior to installation of the ORC, baseline measurements of dissolved oxygen in groundwater (DO) were taken. With the concurrence of MS. Susan Hugo of the ACDEH, the ORC was removed from well MW2 on February 5, 1999.

On July 30, 1999, well MW1, damaged during construction, was properly abandoned, and replacement well MW1A was constructed, developed, and initially sampled. This work was documented in Geo-Logic's report (GL-97-110.R9) dated August 12, 1999. The wells have been monitored and sampled quarterly since that time.

RECENT FIELD ACTIVITIES

Wells MW1A, MW2 and MW3 were monitored and sampled during this quarter on March 13, 2001. Prior to sampling, the wells were checked for depth to water, and the presence of free product and sheen. No free product or sheen was noted in any of the wells. Monitoring data collected this quarter is summarized in Table 1. Water samples were then collected by the use of a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

HYDROLOGY

On March 13, 2001, the measured depth to ground water in the three monitoring wells varied between 5.21 and 6.47 feet below the tops of the well casings. Since last quarter, the elevation of ground water in the wells has

increased between 1.98 and 2.86 feet. The calculated ground water flow direction at the site March 13, 2001, was to the west, as shown on the attached Potentiometric Surface Map, Figure 1. The hydraulic gradient at the site on March 13, 2001, was approximately 0.01.

ANALYTICAL RESULTS

Water samples from the three wells were analyzed at McCampbell Analytical, Inc., in Pacheco, California. All samples analyzed were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for TPH as gasoline and TPH as diesel by EPA method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA method 8020. In addition, the sample collected from MW2, located in the downgradient vicinity of a former waste oil tank, was analyzed for TPH as Motor Oil by EPA Method 8015-modified.

The concentrations of TPH as gasoline, benzene, and TPH as diesel detected in the ground water samples collected on March 13, 2001, are shown on the attached Figure 2. The results of the water analyses are summarized in Table 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

DISTRIBUTION

A copy of this report should be sent to Ms. Susan Hugo of the ACDEH.

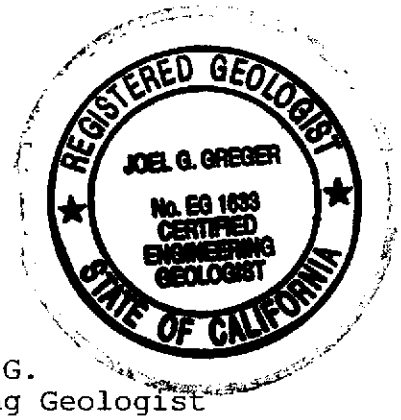
LIMITATIONS

Environmental changes, either naturally occurring or artificially induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this work are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed these data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

If you have any questions regarding this report, please do not hesitate to call me at (510) 787-6867.

Sincerely,



Geo-Logic

Joel G. Greger, C.E.G.
Certified Engineering Geologist

License No. EG 1633
Exp. Date 8/31/2002

Attachments: Tables 1 and 2
Figures 1 and 2
Laboratory Analyses and
Chain of Custody documentation

TABLE 1

SUMMARY OF GROUND WATER MONITORING AND PURGING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)♦	Total Well Depth (feet)*	Product Thickness (feet)	Sheen	Water Purged (gallons)
	(Monitored and Sampled on March 13, 2001)					
MW1A	35.54	6.47	16.91	0	No	0
MW2	34.54	6.24	16.51	0	No	0
MW3	35.87	5.21	16.56	0	No	0
	(Monitored and Sampled on December 13, 2000)					
MW1A	32.68	9.33	16.92	0	No	0
MW2	32.56	8.22	16.52	0	No	0
MW3	33.67	7.41	16.56	0	No	0
	(Monitored and Sampled on September 19, 2000)					
MW1A	32.10	9.91	16.92	0	No	0
MW2	32.04	8.74	16.53	0	No	0
MW3	32.89	8.19	16.57	0	No	0
	(Monitored and Sampled on June 6, 2000)					
MW1A	33.59	8.42	16.93	0	No	0
MW2	32.46	8.32	16.53	0	No	0
MW3	33.93	7.15	16.58	0	No	0
	(Monitored and Sampled on March 6, 2000)					
MW1A	36.46	5.55	16.93	0	No	8
MW2	35.77	5.01	16.54	0	No	8
MW3	37.49	3.59	16.58	0	No	8
	(Monitored and Sampled on December 8, 1999)					
MW1A	32.95	9.06	16.93	0	No	8
MW2	31.87	8.91	16.55	0	No	8
MW3	32.57	8.51	16.58	0	No	8
	(Monitored and Sampled on September 6, 1999)					
MW1A	32.92	9.88	16.94	0	No	8
MW2	32.16	8.62	16.55	0	No	8
MW3	32.88	8.20	16.59	0	No	8
	(Monitored and Sampled on June 7, 1999)					
MW1			(Well inaccessible, damaged)			
MW2	32.65	8.13	16.55	0	No	8
MW3	33.57	7.51	16.61	0	No	8

TABLE 1 - (Continued)

SUMMARY OF GROUND WATER MONITORING AND PURGING DATA

	(Monitored and Sampled on March 4, 1999)					
MW1	(Well inaccessible, damaged)					
MW2	35.28	5.5	16.56	0	No	8
MW3	35.85	5.23	16.60	0	No	8
	(Monitored and Sampled on November 17, 1998)					
MW1	32.95	9.06	16.59	0	No	7
MW2	31.73	9.05	16.55	0	No	7
MW3	33.09	7.99	16.61	0	No	7
	(Monitored and Sampled on August 21, 1998)					
MW1	35.51	7.84	16.60	0	No	7
MW2	34.17	8.61	16.56	0	No	7
MW3	35.42	6.27	16.61	0	No	7
	(Monitored and Sampled on June 3, 1998)					
MW1	35.51	6.50	16.60	0	No	8
MW2	34.17	6.61	16.57	0	No	8
MW3	35.42	5.66	16.62	0	No	8
	(Monitored and Sampled on February 27, 1998)					
MW1	37.51	4.50	16.61	0	No	8
MW2	35.61	5.17	16.58	0	No	8
MW3	37.28	3.80	16.63	0	No	8
	(Monitored and Developed on February 24, 1998)					
MW1	37.57	4.44	16.59	0	No	24
MW2	35.69	5.09	16.58	0	No	21
MW3	37.38	3.70	16.62	0	No	25

Well #	Top of Casing Elevation* (feet)
MW1A	42.01
MW2	40.78
MW3	41.08
MW1-Dairy	NA
MW2-Dairy	42.12

♦ Depth to water and total well depth measurements are taken from the top of the well casings.

* The elevation of the tops of the well casings have been surveyed relative to City of Oakland Benchmark No. 241.

TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER

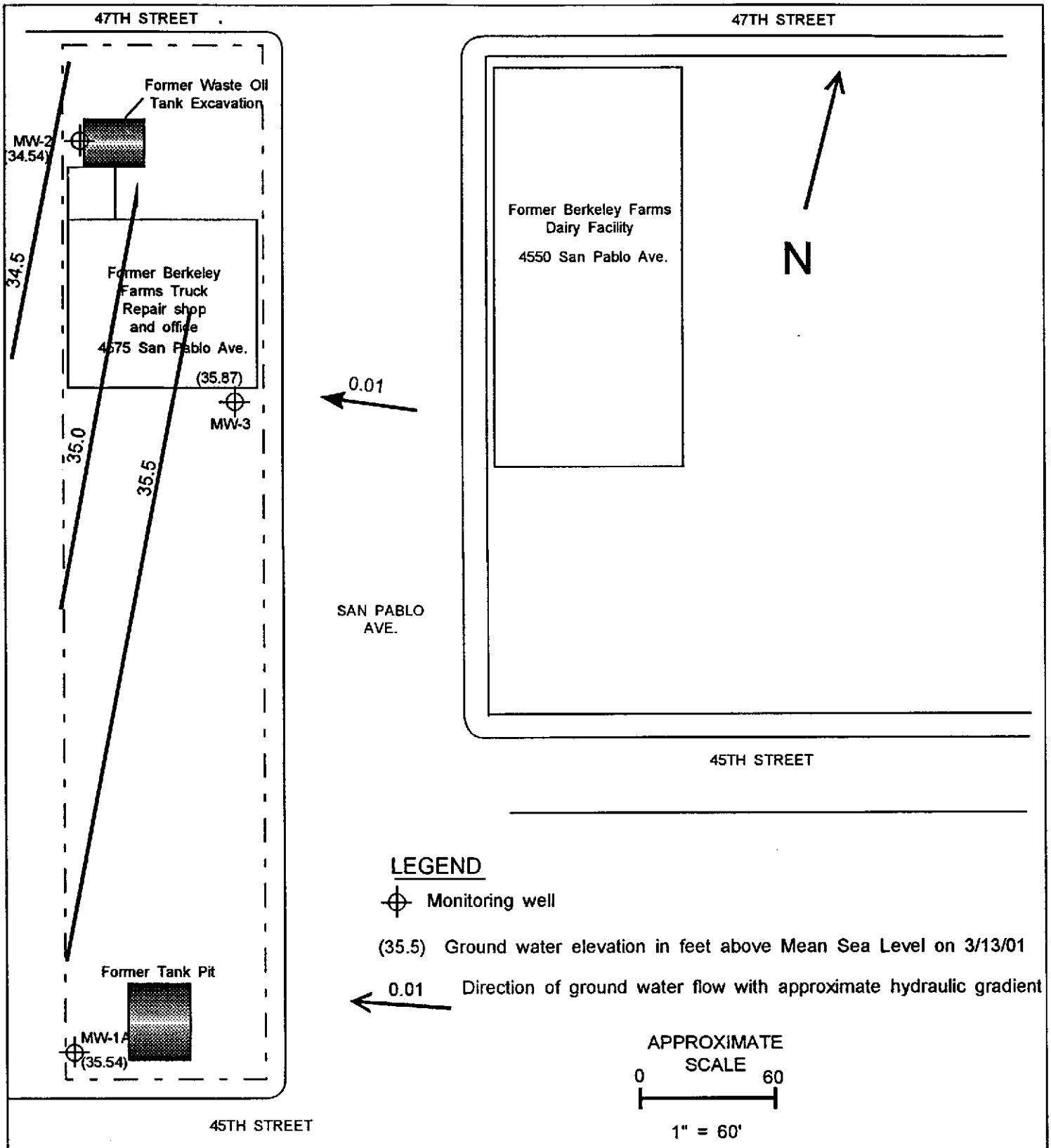
Date	Sample Number	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl benzene	Xylenes
3/13/01	MW1A	1,600	15,000	980	37	820	2,100
12/13/00	MW1A	250	1,400	96	12	<2.0	10
9/19/00	MW1A	<50	<50	<0.5	<0.5	<0.5	<0.5
6/6/00	MW1A	630	2,400	270	9.5	79	27
3/6/00	MW1A	2,100	13,000	560	<20	640	1,200
12/8/99	MW1A	310	1,200	93	1.8	48	53
9/6/99	MW1A	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
8/6/99	MW1A	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
6/7/99	MW1		(Well inaccessible, damaged)				
3/4/99	MW1		(Well inaccessible, damaged)				
11/17/98	MW1	88,000	29,000	2,300	3,000	3,600	3,100
8/21/98	MW1+	96,000	38,000	1,700	1,000	2,400	3,300
6/2/98	MW1	105,000	34,000	1,900	1,600	2,400	3,500
2/27/98	MW1	81,000	27,000	2,200	910	1,700	2,700
3/13/01	MW2	<50	<50	<0.5	<0.5	<0.5	<0.5
12/13/00	MW2	<50	<50	<0.5	<0.5	<0.5	<0.5
9/19/00	MW2	330	2,000	210	8.7	5.5	6.0
6/6/00	MW2	<50	<50	<0.5	<0.5	<0.5	<0.5
3/6/00	MW2	<50	<5.0	<0.5	<0.5	<0.5	<0.5
12/8/99	MW2	<50	<5.0	<0.5	<0.5	<0.5	<0.5
9/6/99	MW2	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
6/7/99	MW2	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
3/4/99	MW2	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
11/17/98	MW2	4,300	260	190	420	470	600
8/21/98	MW2+	1,900	<5.0	<0.5	<0.5	220	400
6/2/98	MW2	7,600	60	220	510	800	1,100
2/27/98	MW2	14,000	<5.0	<0.5	120	460	730
3/13/01	MW3	<50	<50	<0.5	<0.5	<0.5	<0.5
12/13/00	MW3	<50	<50	<0.5	<0.5	<0.5	<0.5
9/19/00	MW3	<50	<50	<0.5	<0.5	<0.5	<0.5
6/6/00	MW3	<50	<50	<0.5	<0.5	<0.5	<0.5
3/6/00	MW3	<50	<5.0	<0.5	<0.5	<0.5	<0.5
12/8/99	MW3	<50	<5.0	<0.5	<0.5	<0.5	<0.5
9/6/99	MW3	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
6/7/99	MW3	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
3/4/99	MW3	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
11/17/98	MW3	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
8/21/98	MW3+	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
6/2/98	MW3	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5
2/27/98	MW3	--	<5.0	<0.5	<0.5	<0.5	<0.5

TABLE 2-(Continued)

SUMMARY OF LABORATORY ANALYSES-WATER

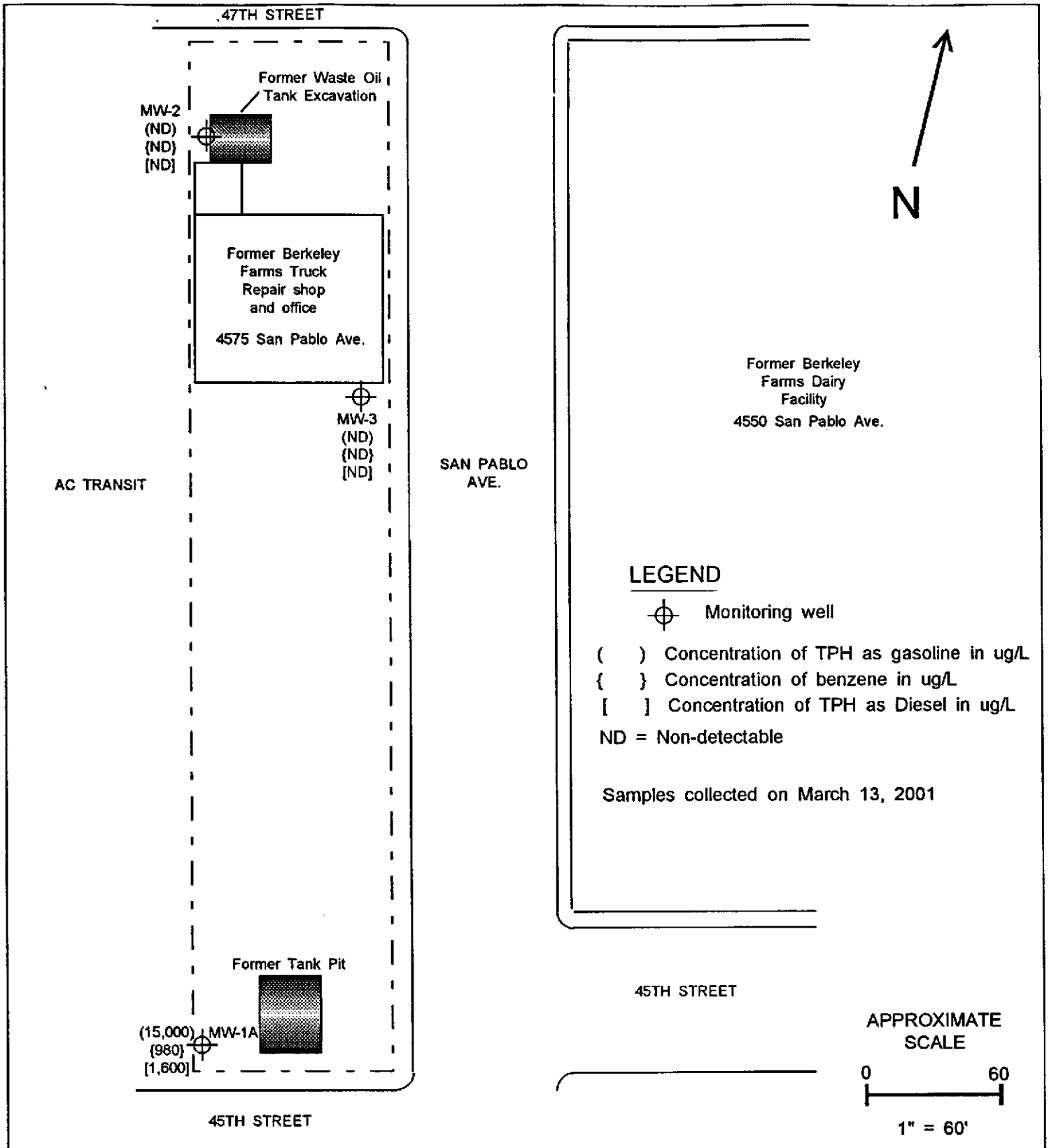
Date	Sample Number	TPH as Motor Oil	MTBE	TOTAL LEAD
3/13/01	MW1A	--	320	--
12/13/00	MW1A	--	170	--
9/19/00	MW1A	--	13	--
6/6/00	MW1A	--	210	--
3/6/00	MW1A	320	<400	--
12/8/99	MW1A	--	140	--
9/6/99	MW1A	--	<0.5	--
8/6/99	MW1A	--	<0.5	--
6/7/99	MW1	(Well inaccessible, damaged)		
3/4/99	MW1	(Well inaccessible, damaged)		
11/17/98	MW1	--	<0.5	--
6/2/98	MW1*	80,000	<0.5	<5.0
2/27/98	MW1	--	<0.5	--
3/13/01	MW2	<250	<5.0	--
12/13/00	MW2	<250	<5.0	--
9/19/00	MW2	<250	180	--
6/6/00	MW2	<250	<5.0	--
3/6/00	MW2	<250	<5.0	--
12/8/99	MW2	<250	<5.0	--
9/6/99	MW2	47	<0.5	--
6/7/99	MW2	<0.5	<0.5	--
3/4/99	MW2	<0.5	<0.5	--
11/17/98	MW2	<0.5	<0.5	--
6/2/98	MW2*	3,800	<0.5	<5.0
2/27/98	MW2	20,000**	<0.5	--
13/13/01	MW3	--	11	--
12/13/00	MW3	--	9.3	--
9/19/00	MW3	--	<5.0	--
6/6/00	MW3	--	21	--
3/6/00	MW3	<250	24/21++	--
12/8/99	MW3	--	18	--
9/6/99	MW3	--	<0.5	--
6/7/99	MW3	--	<0.5	--
3/4/99	MW3	--	<0.5	--
11/17/98	MW3	--	<0.5	--
6/2/98	MW3*	<5.0	<0.5	<5.0
2/27/98	MW3	--	--	--

\+ Cadmium, chromium, lead, nickel, and zinc were nondetectable, except for 0.078 mg/l of nickel detected in MW1.
++ 21 ppb by EPA Method 8260.
* All EPA Method 8010 constituents were nondetectable.
** 20,000 ppb of Total Recoverable Petroleum Hydrocarbons by EPA Method 418.1.
-- Analyses not performed.
Results are in micrograms per liter (µg/L), unless otherwise indicated.



Former Berkeley Farms Truck Shop & Yard 4575 San Pablo Avenue Emeryville, California	Figure No: 1	Date: March 15, 2001 Drawn By: JG/Geo-Logic

Potentiometric Surface Map



Fmr. Berkeley Farms Truck Shop & Yard 4575 San Pablo Avenue Emeryville, California	Figure No: 2	Date: March 20, 2001 Drawn By: JG/Geo-Logic

Petroleum Hydrocarbons in Groundwater

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Geo-Logic 1140 5th Avenue Crockett, CA 94525	Client Project ID: #1120-02; Fmr. Berkeley Farms/KFC 4575 San Pablo Ave	Date Sampled: 03/13/01
		Date Received: 03/13/01
	Client Contact: Joel Greger	Date Extracted: 03/14-03/16/01
	Client P.O:	Date Analyzed: 03/14-03/16/01

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	Ethyl-benzene	Xylenes	% Recovery Surrogate
62541	MW1A	W	15,000,a	320	980	37	820	2100	101
62542	MW2	W	ND	ND	ND	ND	ND	ND	95
62543	MW3	W	ND	11	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* 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

* 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

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Geo-Logic 1140 5th Avenue Crockett, CA 94525	Client Project ID: #1120-02; Fmr. Berkeley Farms/KFC 4575 San Pablo Ave	Date Sampled: 03/13/01
		Date Received: 03/13/01
	Client Contact: Joel Greger	Date Extracted: 03/13/01
	Client P.O:	Date Analyzed: 03/13/01

Diesel Range (C10-C23) and Oil-Range (C18+) Extractable Hydrocarbons as Diesel and Motor Oil*

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)^	TPH(mo)^	% Recovery Surrogate
62541	MW1A	W	1600,d	---	97
62542	MW2	W	ND	ND	90
62543	MW3	W	ND	---	89
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

*water 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.

^ cluttered chromatogram resulting in cocluted 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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

24889 ZGeol 3

McCAMPBELL ANALYTICAL INC.

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

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY ☒

Report To: Joel Gregor	Bill To: Paradiso Mechanical
Company: Geo-Logic	PO 1836
1140 5th Ave	1800 Williams St
Oakland CA 94525	San Leandro CA 94577
Tele: (510) 7676867	Fax: 510 7871457
Project #: 1120-02	Project Name: Former Berkeley Farms/KFC
Project Location: 5575 San Pablo Ave, Emeryville	
Sampler Signature: Joel Gregor	

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO3	Other
(+) MW1A	BF/KFC	3-13-01	11Am	3		X					X	X		
(+) MW2				3		X					X	X		
(+) MW3			11:30Am	3		X					X	X		

VOA'S | O&G | METALS | OTHER

ICE/t° ____ / PRESERVATION
GOOD CONDITION / APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS /

Analysis Request															Other				Comments
BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	TPH as Motor Oil	pH	TSS	TOC	Specific Conductivity	
X	X													X					62541
X	X																		62542
X	X																		62543

Relinquished By:	Date:	Time:	Received By:
Joel Gregor	3/13/01	1207Pm	Lina A. Butler
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks: Reference Job No + Address on Lab sheets + invoice, as follows:
Former Berkeley Farms/KFC
5575 San Pablo Ave
Emeryville CA
Paradiso Job No. 1120-02