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4057 Port Chicago Highway, Concord, CA 94520 (415) 67I-2387

FAX: (415) 685-9148

October 6, 1993

Project No. 020204554

Ms. Bernadine Palka Sears, Roebuck and Company 3333 Beverly Road, Building A2-281A Department 824C Hoffman Estates, IL 60179

SUBJECT:

Quarterly Monitoring and Sampling Report

Former Sears Automotive Center

2633 Telegraph Avenue Oakland, California

Dear Ms. Palka:

Groundwater Technology, Inc. is pleased to submit this Quarterly Monitoring and Sampling Report for May through July 1993. The report presents the results of monitoring well gauging and sampling analysis for the former Sears Automotive Center located at 2633 Telegraph Avenue, Oakland, California (Attachment 1, Figure 1). The monitoring and sampling activities were performed and this report prepared according to the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, dated August 10, 1990, the State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, and the sampling requirements approved by Alameda County Health Care Services Agency, October 7, 1992, and amended in correspondence to Sears, dated June 1, 1993.

#### SUMMARY OF WORK COMPLETED

#### Monitoring Well Gauging

On May 28, June 21, and July 22, 1993, the depth to groundwater was measured in five monitoring wells using an INTERFACE PROBE™ Well Monitoring System, which can detect both water and separate-phase product levels. Groundwater monitoring data are presented in Attachment 2, Table 1.

Groundwater monitoring data were used to construct potentiometric surface maps across the site (Figures 2 through 4). Measurable thicknesses of separate-phase hydrocarbons were not detected in the wells. The local groundwater gradient was approximately 0.03 foot per foot (ft/ft) to the

4554R013.020

southwest on May 28, 1993, 0.03 ft/ft to the south on June 21, 1993, and 0.03 ft/ft to the south on July 22, 1993.

#### Monitoring Well Sampling and Results

On June 21, 1993, the five on-site wells were sampled for hydrocarbon constituents and dissolved metals. Before sampling, the wells were purged of approximately 4 well-casing volumes. The temperature, conductivity, and Ph of the purge water were measured during purging. Well purge data are included in Attachment 3. The wells were allowed to recharge to a least 80 percent of their initial water level before sampling.

Groundwater samples were collected using a Teflon® bailer and placed in appropriate containers. The sample containers were labeled and placed in an ice-chilled, insulated cooler for transport under chain-of-custody protocol to a California-certified laboratory for the analyses described below. A summary of historical groundwater analytical results is presented in Table 2.

- Groundwater samples from well MW-1 were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Methods 5030/8020 and total petroleum hydrocarbons-as-motor oil (TPH-M) using modified EPA Method 8015.
- Groundwater samples from wells MW-2 and MW-5 were analyzed for total petroleum hydrocarbons-as-gasoline (TPH-G) and BTEX using modified EPA Method 8015 and EPA Methods 5030/8020; TPH-M using modified EPA Method 8015; total dissolved lead using EPA Method 7421; and cadmium, chromium, nickel, and zinc using EPA Method 6010.
- Groundwater samples from well MW-3 were analyzed for total petroleum hydrocarbons (TPH) using EPA Method 418.1 (SM5520FC); TPH-G and BTEX using modified EPA Method 8015 and EPA Methods 5030/8020; TPH-M using modified EPA Method 8015; total dissolved lead using EPA Method 7421; and cadmium, chromium, nickel, and zinc using EPA Method 6010.
- Groundwater samples from well MW-4 were analyzed for TPH-G and BTEX using modified EPA Method 8015 and EPA Methods 5030/8020; TPH-M using modified EPA Method 8015; and total dissolved lead using EPA Method 7421.

The laboratory reports and chain-of-custody records are included in Attachment 4. Figures 5 and 6 illustrate the distribution of TPH-G and TPH concentrations in the groundwater.

Aromatic Volatile Organic Compounds. Concentrations of aromatic VOCs were detected in samples from wells MW-1 through MW-4 as follows: benzene from nondetectable to 21 micrograms per liter  $(\mu g/l)$ ; toluene from nondetectable to  $5 \mu g/l$ ; ethylbenzene from nondetectable to  $2 \mu g/l$ ; and xylenes from nondetectable to  $19 \mu g/l$ . No detectable concentrations of BTEX were present in the groundwater sample from well MW-5. The results of BTEX analyses are summarized in Table 2.

GROUNDWATER
TECHNOLOGY, INC.

Total Petroleum Hydrocarbons. Concentrations of TPH-G ranging from nondetectable to apact pg/l were detected in wells MW-2 through MW-5. No detectable concentrations of TPH-M were present in wells MW-1, MW-2, and MW-5. The analytical results of groundwater samples from wells MW-3 and MW-4 reported TPH-M concentrations of apact pg/l and 19,000 µg/l, respectively. The results of TPH, TPH-G, and TPH-M analyses are summarized in Table 2.

<u>Metals</u>. Lead was not detected in the groundwater samples from wells MW-2 through MW-5. Cadmium, chromium, nickel, and zinc were not detected in the groundwater samples from wells MW-2 and MW-5. Cadmium was detected at the method detection limit of 5  $\mu$ g/l in well MW-3. The metals analyses results are summarized in Table 2.

### WORK TO BE COMPLETED FROM AUGUST THROUGH OCTOBER 1993

A schedule of work tasks at the site planned for August through October 1993 is presented.

Date	Task
08/93	Monthly well gauging
09/93	Monthly well gauging and quarterly sampling
10/93	Monthly well gauging and preparation of Quarterly Monitoring and Sampling
	Report for the period of August through October 1993.

Additional assessment will be conducted to further evaluate the horizontal distribution of hydrocarbons in the groundwater as recommended in the *Phase II Assessment Report*, dated March 24, 1993. The additional assessment will include the following activities:

- Collect additional soil and grab-groundwater samples. At least three sampling points will be located downgradient of the former tank pits along the southern edge of the subject property. The purpose of the additional sampling will be to evaluate the horizontal extent of petroleum hydrocarbons in the soil and groundwater and to select locations for one to two additional monitoring wells.
- Install one to two additional monitoring wells downgradient of well MW-3.
- Prepare and submit a report to Alameda County Health Care Services Agency describing the findings of the further assessment.



DAVID R. KLEESATTE

NO. 5138

If you have any questions or comments concerning this report, please call our Concord office at (510) 671-2387.

Sincerely.

Groundwater Technology, Inc.

Written/Submitted by

Project Geologist

Michael J. Wrav Project Manager

Groundwater Technology, Inc. Reviewed/Approved by

Registered Geologist

No. 5136

For:

Frank J. Gorry

Vice President, General 1

**National Industry Division** 

Attachment 1

**Figures** 

Attachment 2

**Tables** Well Purge Data

Attachment 3 Attachment 4

Laboratory Reports and Chain-of-Custody Records

CC:

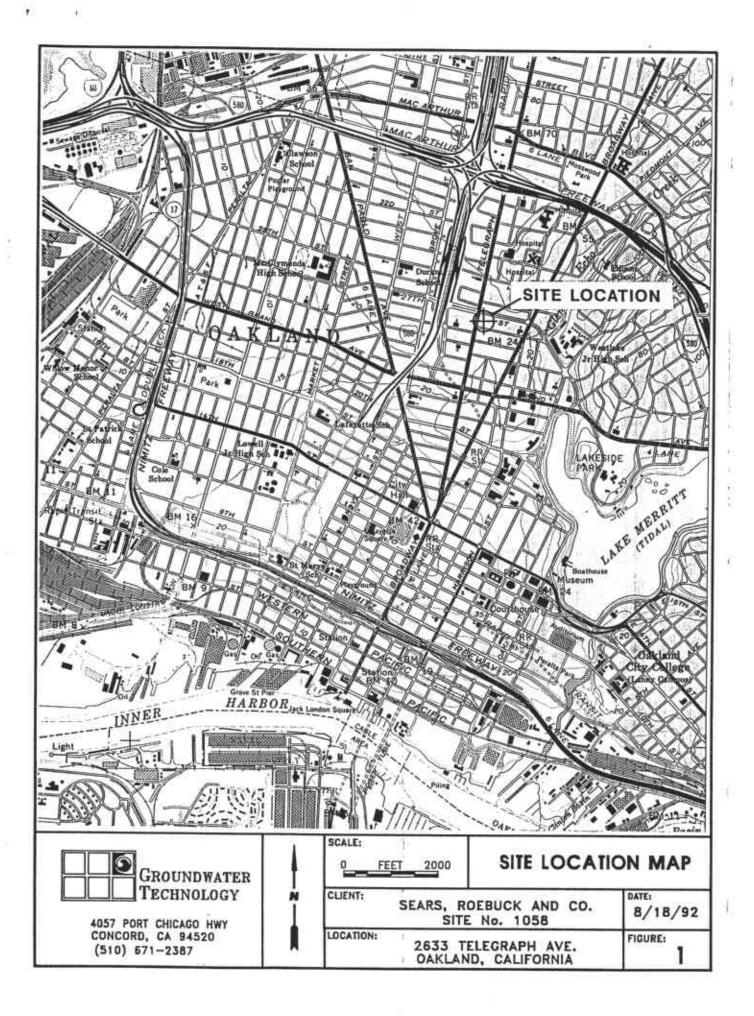
Thomas Peacock, Alameda County Health Services Agency

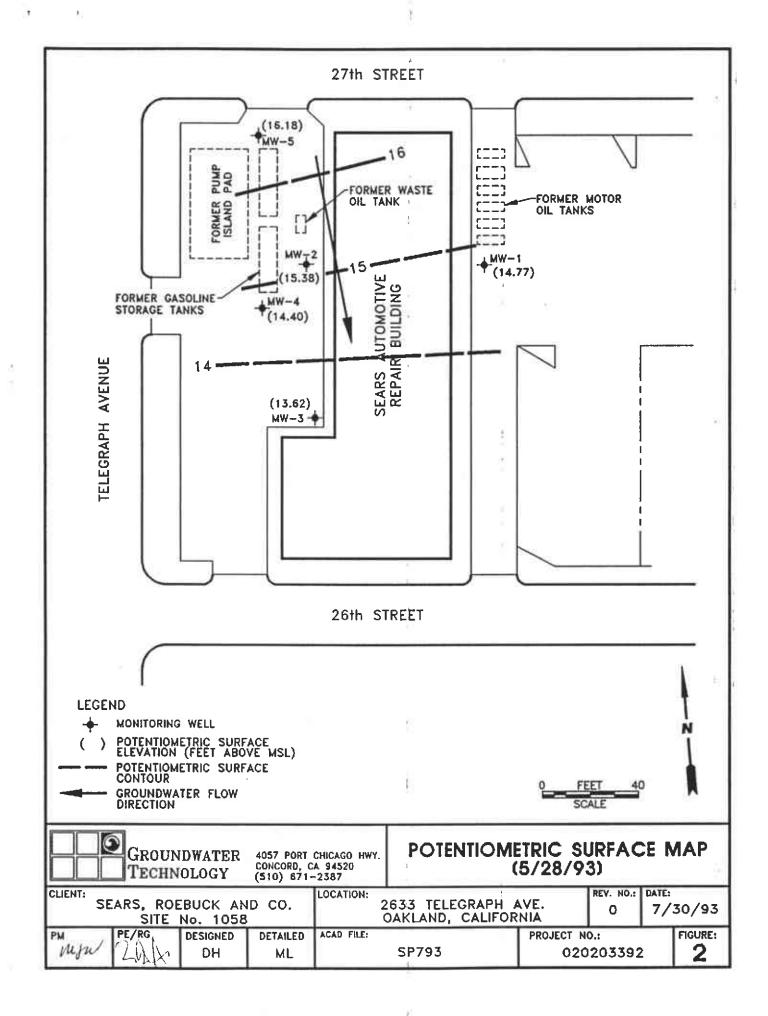
Richard Hiett, Regional Water Quality Control Board

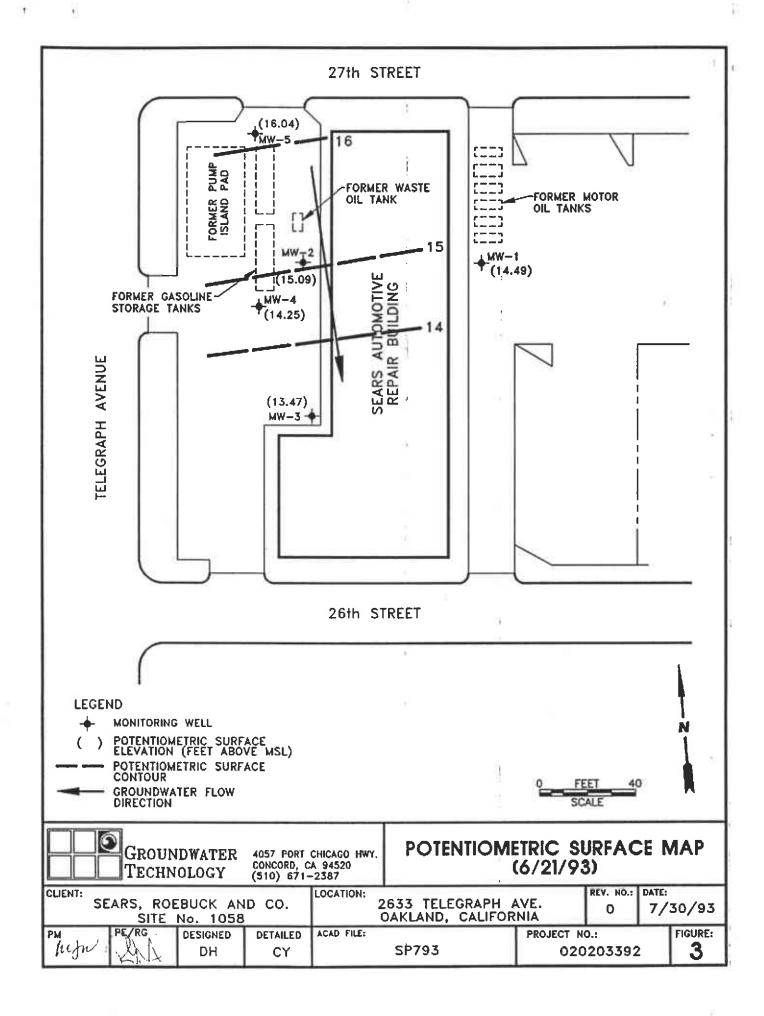
#### **ATTACHMENT 1**

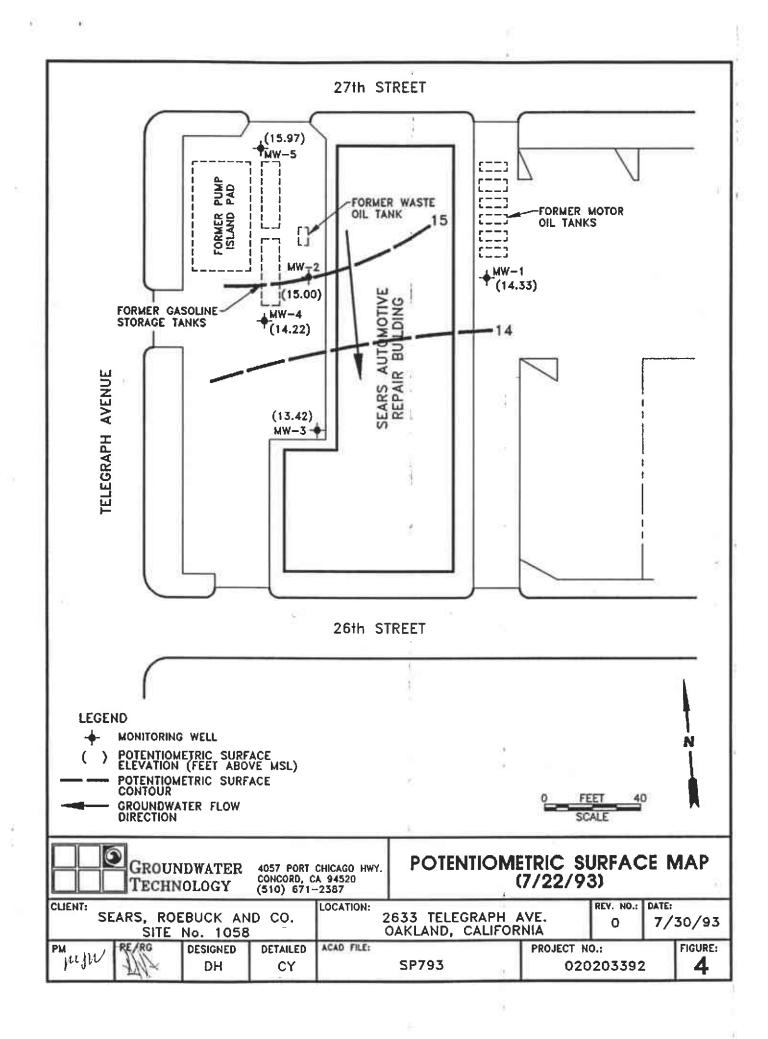
### **Figures**

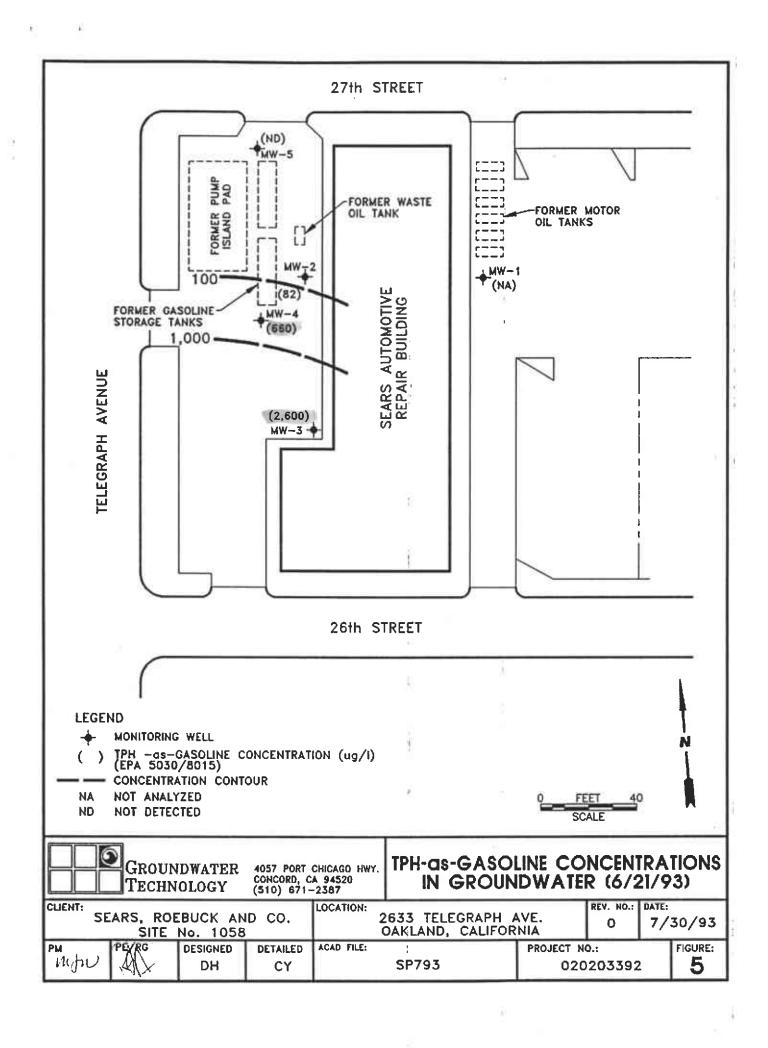
Figure 1	Site Plan
Figure 2	Potentiometric Surface Map (05/28/93)
Figure 3	Potentiometric Surface Map (06/21/93)
Figure 4	Potentiometric Surface Map (07/22/93)
Figure 5	TPH-as-Gasoline Concentrations in Groundwater (June 1993)
Figure 6	TPH-as-Motor Oil Concentrations in Groundwater (June 1993)

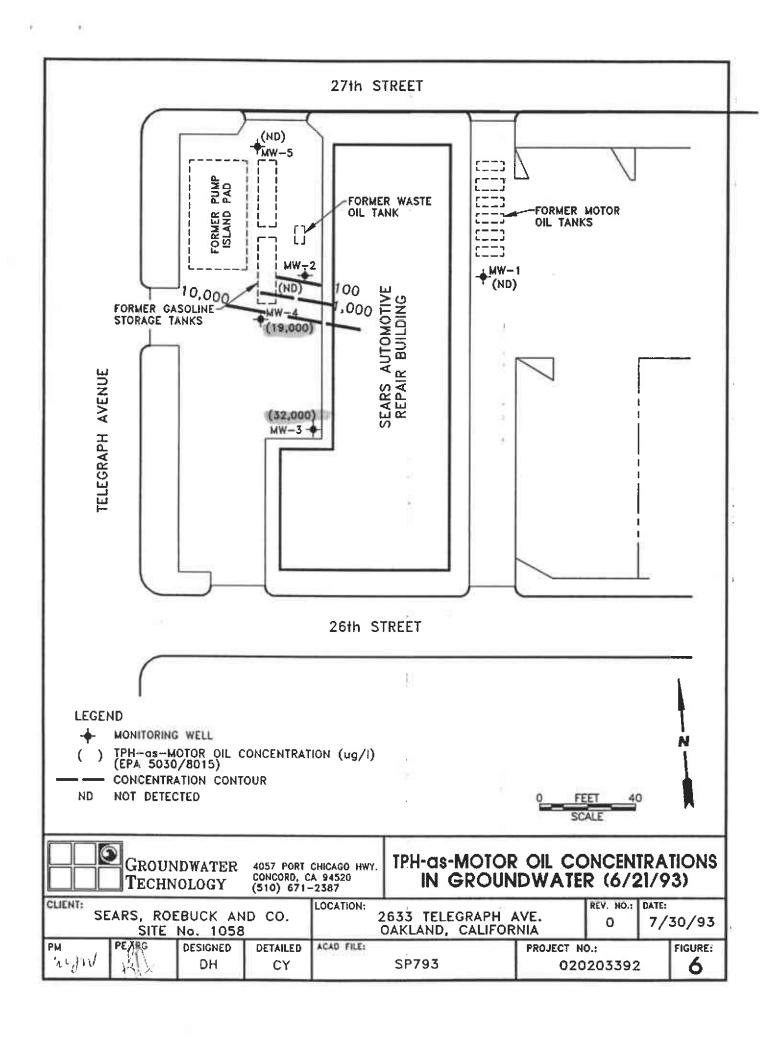












### **ATTACHMENT 2**

#### **Tables**

Table 1 Monitoring Data

Table 2 Summary of Groundwater Sample Analytical Results

TABLE 1 **SUMMARY OF HISTORICAL MONITORING DATA** 

Well	Casing	Date	WTG	DTP	PT	Groundwater
No.	Elev					Elev
MW-1	26.20	12/30/92	10.60			15.60
		02/26/93	10.14			16.06
		03/24/93	10.48			15.72
		04/27/93	11.30			14.90
		05/28/93	11.43			14.77
		06/21/93	11.71			14.49
		07/22/93	11.87			14.33
MW-2	26.50	12/30/92	10.65		*	15.85
		02/26/93	10.56			15.94
		03/24/93	10.52			15.98
ii .		04/27/93	11.17			15.33
		05/28/93	11.12			15.38
		06/21/93	11.41		<b></b>	15.09
		07/22/93	11.50			15.00
MW-3	26.34	12/30/92	12.43		*	13.91
		02/26/93	12.21			14.13
		03/24/93	12.36			13.98
		04/27/93	12.70			13.64
		05/28/93	12.72			13.62
		06/21/93	12.87			13.47
		07/22/93	12.92			13.42
MW-4	26.17	12/30/92	11.53			14.64
		02/26/93	11.35		<b></b>	14.82
		03/24/93	11.46			14.71
		04/27/93	11.74			14.43
]		05/28/93	11.77			14.40
		06/21/93	11.92			14.25
		07/22/93	11.95			14.22
MW-5	26.98	12/30/92	10.50			16.48
		02/26/93	10.12			16.86
		03/24/93	10.31			16.67
		04/27/93	10.75	<del>-</del> -		16.23
		05/28/93	10.80			16.18
		06/21/93	10.94			16.04
		07/22/93	11.01			15.97

Elev = Elevation in feet above mean sea level

DTW = Depth to water (in feet) Depth to product (in feet) Product thickness (in feet) DTP PT Sheen observed (<0.01 foot)
Product not detected

# TABLE 2 SUMMARY OF HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS (Compounds micrograms per liter [µg/I] except where noted otherwise)

Well ID	Date	В	T	E	х	TPH-G	TPHAM	TPH (mg/l)	Dissolved Metals
MW-1	12/30/92 03/24/93 06/21/93	1 0.4 <0.3	1 1 1	2 0.3 2	2 10 6		- - <100	1 1 -	<u>-</u>
MW-2	12/30/92	0.7	<0.3	< 0.3	3	190	-	1	<sup>a</sup> ND
	03/24/93	0.6	<0.3	< 0.3	2	120		<1	<sup>a</sup> ND
	06/21/93	0.3	<0.3	< 0.3	0.7	82	<100		<sup>c</sup> ND
MW-3	12/30/92	11	0.9	<0.3	2	910		20	<sup>a</sup> ND
	03/24/93	28	0.7	1	8	3,300		28	<sup>a</sup> 15*
	06/21/93	21	5	2	19	2,800**	32,000	26	<sup>cd</sup> 5
MW-4	12/30/92 03/24/93 06/21/93	2 <0.3 <0.3	<0.3 <0.3 2	1 <0.3 <0.3	<0.5 <0.5 0.5	1,200 750 660	- 19,000	<1 2 -	aND a7* aND
MW-5	12/30/92	<0.3	<0.3	<0.3	<0.5	37	-	<1	<sup>bc</sup> 5
	03/24/93	<0.3	<0.3	<0.3	0.5	19	-	2	<sup>c</sup> 341
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	-	<sup>c</sup> ND

BTEX	<b>4</b>	Benzene, toluene, ethylbenzene, and total xylenes (EPA Methods 5030, 8020)
TPH-G	#	Total petroleum hydrocarbons-as-gasoline (EPA Methods 5030 and modified EPA Method 8015)
TPH	=	Total petroleum hydrocarbons (EPA Method 418.1 [SM 5520 FC])
TPH-M	=	Total petroleum hydrocarbons-as-motor oil (modified EPA Method 8015)
mg/i	=	Milligrams per liter
-	-	Not analyzed
ND	=	Nondetectable (Detection limits for each compound are listed in laboratory reports, which are included in
		Appendix D.)
*	=	Water samples were not filtered, analytical results represent total metals present, not dissolved
**		concentrations.
	=	Uncategorized compound not included in the hydrocarbon gasoline concentration.
<u>a</u>	=	Dissolved lead
b	-	Dissolved lead only analyte detected
C	-	Dissolved lead, cadmium, total chromium, nickel, and zinc.
d	.=	Cadmium only analyte detected.

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**ATTACHMENT 3** 

**Well Purge Data** 

t .			
Project Name:	ears/Telegra	oh Ave.	Date:
Project Number: (	020203392.0	61002	Page: / of 5
Site Address: 2	533 Telegraph	Ave.	Project Manager: Mike Wa
Well ID MI	N-5	DTW Meas Initial Recha	
Purged Method Peristaltic Gear Drive X Submersible	Pump DepthHand BailedAir LiftOther	<u>&gt;</u>	Instruments Used  YSI 3650 pH/ C/mmbo OMEGA Cond. HYDAC pH/ F/umbo DRT-15C TURBID OMEGA pH/ C Other
	TEMP Conductivity	AH PURCE	TURRIDITA

TIME	TEMP F	Conductivity XZO	рН	PURGE VOLUME gallons	TURBIDIT	COMMENTS
11:56	21.7	0.57	7.4	elllers		
11:57	21.3	0,58	7.02			
11:58	21.1	0,58	7.02	6		
11:59	21.1	0.57	7.01	8		
12:00	21,1	0,58	7.02	10		
·	·					
	-					

Proje	ct Name: 5	220203	elegmpl 3392,06 egraph	L Ave 1002 Ave.		Page 2	
		V - I			DTW Measu Initial Recha	ft Calc W ft Well Vo  Instrum YSI 3650 pH HYDAC pH/	F/umbo DRT-15C TURBID
	TIME	TEMP X C	Conductivity	pH	PURGE VOLUME	OMEGA pH/	C Other  COMMENTS
	11:39	19,4	0.35	<b>7</b> .48	gallons		OOMINE TO
	11:40	19.9	0.62	<b>8</b> .35	4		

8.22

8.22

8.21

8

10

11141

11:42

11:43

19.9

19.9

19.9

0.62

0.62

0,62

Project Number: 020203392, 06100	Date: 6/21/93  2 Page 3 of 5
Site Address: 2633 Telegraph Aus	Project Manager: Mike Wmy
Well ID MW-2 Well Dia 2"	DTW Measurements Initialft Calc Well Volume =gal Rechaft Well Volume = \chi \frac{7}{gal}
Purged Method Pump Depth 20 ft Peristaltic Hand Bailed Gear Drive Air Lift Submersible Other	Instruments Used  YSI 3650 pH/ C/mmbo OMEGA Cond.  HYDAC pH/ F/umbo DRT-15C TURBID  OMEGA pH/ C Other

TEMP X C	Conductivity X'70	pН	PURGE VOLUME gallons	TURBIDIT	COMMENTS
21.4	0,58	7.10	2		
20.9	0.60	7.07	4		ı
20.9	0,60	7,05	6		
20.9	0,60	7.04	00		
	·				-
	21.4 20.9 20.9	21.4 0.58 20.9 0.60 20.9 0.60	21.4 0,58 7.10 20.9 0.60 7.07 20.9 0.60 7.05	Example 1     XZO     VOLUME gallons       21.4     0.58     7.10     2       20.9     0.60     7.07     4       20.9     0.60     7.05     6	21.4 0.58 7.10 2 TURBIDITY 20.9 0.60 7.07 4 20.9 0.60 7.05 6

- ..

Project Name: Sears/Telegraph Project Number: 020203392,0610 Site Address: 2633 Telegraph Au	Date: 6/21/93  Page 4 of 5  Project Manager: Mike Wray
Well ID	DTW Measurements Initialft Calc Well Volume =gal Rechaft Well Volume = X4= 8gal
Purged Method Peristaltic Peristaltic Gear Drive X_Submersible Pump Depth Hand Bailed Air Lift Other	instruments Used  YSI 3650 pH/ C/mmbo OMEGA Cond.  HYDAC pH/ F/umbo DRT-15C TURBID  OMEGA pH/ C Other

TIME	TEMP — X C — F	Conductivity	рH	PURGE VOLUME gallons	TURBIDITY	COMMENTS	
12:11	21.6	0.73	6.90	2			
12:12	20.6	0.74	6,86	4			
12:13	20.4	0,73	6.85	6			
12:14	20.3	0.73	6.85	8			
				·			

Project Name: Sears/Telegraph A.  Project Number: 020203392, 061002  Site Address: 2633 Telegraph A.	Date: 6/21/93  Page 5 of 5  Project Manager: Mike Wray
Well Dia 2"	DTW Measurements Initialft Calc Well Volume =gal Rechaft Well Volume = \( \chi \) \( \chi \) \( \frac{7}{2} \) gal
Purged Method Pump Depth 27 ft Peristaltic Hand Bailed Gear Drive Air Lift X Submersible Other	Instruments Used  X YSI 3650 pH/ C/mmbo OMEGA Cond.  HYDAC pH/ F/umbo DRT-15C TURBID  OMEGA pH/ C Other

TIME	TEMP X C F	Conductivity X20	рH	PURGE VOLUME gallons	TURBIDIT	COMMENTS
12:18	21,6	0.65	6.94	Z		
12:19	21,4	0.65	6.92	4		
12:20	21.3	0,65	6,93	.6		
12:21	21,2	0.65	6,93	8	·	
_						_

#### **ATTACHMENT 4**

Laboratory Reports and Chain-of-Custody Records



Northwest Region 4080-C Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 from inside California (800) 423-7143 from outside California (510) 825-0720 (FAX)

July 7, 1993

Mike Wray Groundwater Technology, Inc. 4057 Port Chicago Highway Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 06/21/93, under chain of custody records 30246, 30247, and 30248.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Pollen F. Bullen

Eileen F. Bullen

**Laboratory Director** 

# Table 1 **ANALYTICAL RESULTS**

TPH as Motor Oil in Water

Method: Modified EPA 8015a

GTEL Sample Number		03	05*	07*	09
Client Identification		MW5	MW1	MW2	MW4
Date Sampled		06/21/93	06/21/93	06/21/93	06/21/93
Date Extracted		06/25/93	06/25/93	06/25/93	06/25/93
Date Analyzed		07/04/93	07/04/93	07/04/93	07/06/93
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	, , , , , , , , , , , , , , , , , , , ,
TPH as motor oil	100	<100	<100	<100	19000
Detection Limit Multiplier		1	1	1	1
OTP surrogate, % recovery		119	124	182**	87.4

GTEL Sample Number		11	K070393		
Client Identification	""	MW3	METHOD BLANK		
Date Sampled		06/21/93			
Date Extracted	<del></del>	07/07/93	06/25/93		-
Date Analyzed		07/07/93	07/03/93		
Analyte	Detection Limit, ug/L		Concentration	on, ug/L	· · · · · · · · · · · · · · · · · · ·
TPH as motor oil	100	32000	<100		
Detection Limit Multiplier		20	1		
OTP surrogate, % recovery		123	88.5		<del>-</del>

a. O-Terphenyl surrogate recovery acceptability limits are 50-150%. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. O, U.S. EPA, November, 1986.
 \* Hydrocarbon pattern not characteristic of motor oil.
 \* Surrogate recovery high due to matrix interference.



Northwest Region 4080-C Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 from inside California (800) 423-7143 from outside California (510) 825-0720 (FAX) Client Number: 020203392 Project ID: Oakland Work Order Number: C3-06-0397

July 6, 1993

Mike Wray Groundwater Technology, Inc. 4057 Port Chicago Hwy. Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 06/21/93, under chain of custody record 30246.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Ellen F. Bullen

Eileen F. Bullen

**Laboratory Director** 

### Table 1

## **ANALYTICAL RESULTS**

# Volatile Organics in Water

# EPA Methods 8020 and Modified 8015a

GTEL Sample Number		03	05	07	09
Client Identification	· · · · · · · · · · · · · · · · · · ·	MW5	MW1	MW2	MW4
Date Sampled		06/21/93	06/21/93	06/21/93	06/21/93
Date Analyzed		07/01/93	07/01/93	07/01/93	07/02/93
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	
Benzene	0.3	<0.3	<0.3	0.3	< 0.3
Toluene	0.3	<0.3	1	<0.3	2
Ethylbenzene	0.3	<0.3	2	<0.3	<0.3
Xylene, total	0.5	<0.5	6	0.7	0.5
BTEX, total			9	1	3
Gasoline	10	<10	NR	82	660
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		101	109	103	107

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery
 NR = Not Requested.



## Table 1 (continued)

# **ANALYTICAL RESULTS**

# Volatile Organics in Water

# EPA Methods 8020 and Modified 8015a

GTEL Sample Number		11	Q063093-1		
Client Identification		MW3	METHOD BLANK		
Date Sampled		06/21/93	_		
Date Analyzed		07/02/93	06/30/93	<del></del>	
Analyte	Detection Limit, ug/L		Concentration	on. ua/L	
Benzene	0.3	21	<0.3	7 3/ -	
Toluene	0.3	5	<0.3	<del></del>	
Ethylbenzene	0.3	2	<0.3		
Xylene, total	0.5	19	<0.5		
BTEX, total		47	10.0	<del></del>	
Gasoline	10	*2600	<10		
Detection Limit Multiplier		1	- 1		
BFB surrogate, % recovery		113	105		···

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%. Uncategorized compound not included in the hydrocarbon gasoline concentration.



# Table 1 ANALYTICAL RESULTS

## Dissolved Metals in Water\*

GTEL Sample Number			03	07	09	11
Client Identification			MW5	MW2	MW4	MW3
Date Sampled			06/21/93	06/21/93	06/21/93	06/21/93
Date Prepared			06/21/93	06/21/93	06/21/93	06/21/93
Date Analyzed (Method 60:	10)	<del>-</del>	06/24/93	06/24/93	06/24/93	06/24/93
Date Analyzed (Method 742		06/22/93	06/22/93	06/22/93	06/22/93	
Analyte	Methoda	Detection Limit, ug/L			ition, ug/L	,
Cadmium	EPA 6010	5	<5	<5	NA NA	5
Chromium, total	EPA 6010	10	<10	<10	NA NA	<10
Lead	EPA 7421	5	<5	<5	<5	<5
Nickel	EPA 6010	10	<10	<10	NA	<10
Zinc	EPA 6010	20	<20	<20	NA NA	<20
Detection Limit Multiplier			1	1	1	1

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Digestion by EPA Method 3005, except for Method EPA 7470 for mercury.

NA = Not Applicable



<sup>\*</sup> Unpreserved water sample was passed through a 0.45 micron membrane and analyzed as a dissolved metal. Sample was lab filtered on 06/21/93.

## Table 1 (Continued)

## **ANALYTICAL RESULTS**

## Dissolved Metals in Water\*

GTEL Sample Number			062193 DIŞ			
Client Identification			METHOD BLANK			
Date Sampled						
Date Prepared			06/21/93		-	
Date Analyzed (Method 60	10)		06/24/93	<u> </u>		
Date Analyzed (Method 74	21)		06/24/93			
Analyte	Methoda	Detection Limit, ug/L		Concen	tration, ug/L	
Cadmium	EPA 6010	5	<5			
Chromium, total	EPA 6010	10	<10			·
Lead	EPA 7421	5	<5			
Nickel	EPA 6010	10	<10	·		·
Zinc	EPA 6010	20	<20		<del>   </del>	
Detection Limit Multiplier			1		-	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Digestion by EPA Method 3005, except for Method EPA 7470 for mercury.

NA = Not Applicable



<sup>\*</sup> Unpreserved water sample was passed through a 0.45 micron membrane and analyzed as a dissolved metal. Sample was lab filtered on 06/21/93.

## Table 1

# **ANALYTICAL RESULTS**

# Total Petroleum Hydrocarbons in Water by Infrared Spectrometry

# EPA Method 418.11(SM 5520 FC2)

Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-202, Revised March 1983, U.S. Environmental Protection Agency.

Standard Methods for the Examination of Water and Wastewater, 17th ed., 1989, American Public Health Association

GTEL Sample Number		11	062593 TPH		
Client Identification		MW3	METHOD BLANK		
Date Sampled		06/21/93			
Date Prepared		06/24/93	06/24/93		
Date Analyzed		06/25/93	06/25/93		
Analyte	Detection Limit, mg/L			tion, mg/L	
Total Petroleum Hydrocarbons	1	26	<1		
Detection Limit Multiplier		12.5	1		



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