

# GROUNDWATER TECHNOLOGY®

ENVIRONMENTAL  
PROTECTION  
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Groundwater Technology, Inc.

4057 Port Chicago Highway, Concord, CA 94520 USA  
Tel: (510) 671-2387 Fax: (510) 685-9148

May 9, 1995

Mr. G. Keith West  
General Motors Corporation  
Argonaut "A" - 1004H  
485 W. Milwaukee Avenue  
Detroit, Michigan 48202

SUBJECT: GMC TRUCK CENTER  
8099 South Coliseum Way, Oakland, California

Dear Mr. West:

Groundwater Technology has prepared this brief letter report summarizing the activities performed and data gathered during the subsurface investigation at the General Motor Corporation (GMC) trucking facility at 8099 South Coliseum Way in Oakland, California. Field activities were conducted on March 23 and 24, 1995 and included drilling 17 soil cores with collection and laboratory analysis of soil and groundwater samples.

As described in Groundwater Technology's *Work Plan for Future Site Assessment GM Truck Center, 8099 S. Coliseum Way, Oakland, California* dated January 26, 1995 the purpose of the work completed was to collect data to assist in determining the horizontal and vertical impact of fugitive hydrocarbons at the site. The areas investigated included the underground storage tanks (USTs) formerly located on the south side of the main building, the oil water separator on the east side of the main building and the garbage collection area at the far northeast corner of the property.

Previous work conducted at the site by Clayton Environmental Consultants during 1993 included a subsurface investigation of the following areas: (1) near the property boundary of the former CalTrans facility, (2) near the former site USTs, (3) near the garbage collection area.

## SUMMARY OF WORK COMPLETED BY GROUNDWATER TECHNOLOGY

### Drilling and Soil and Groundwater Sampling Methods

Seventeen soil cores (SB1 through SB17; Figure 1) were completed on March 23 and 24, 1995 using a Geoprobe 5400 hydraulically-driven rig equipped with 2-inch outer diameter dual rod probes. Prior to coring each hole, all tools were steam cleaned to avoid cross contamination. Coring was supervised by Groundwater Technology field geologist who described the soil types encountered according to the Unified Soil Classification System. The core holes were completed to depths ranging from 8- to 16 feet below grade. Soil conditions and lithology will be described in the final report, which will be presented at a later date.

During coring, soil samples were collected at approximately 5- and 10-foot intervals with a 7/8-inch inner rod equipped with acetate liners. The soil samples collected and retained for chemical analyses were transferred to brass liners immediately after collection. These liners were sealed using aluminum foil, capped with plastic end caps and secured with tape. The soil samples were screened in the field for hydrocarbons vapors using a photo-ionization detector (PID). One soil sample from each boring was submitted to a California state certified laboratory for chemical analyses. Samples were selected based on the results of

he field screening. After the samples were sealed and labeled, the samples were placed on ice in a cooler for transport to the California-certified approved laboratory under chain of custody protocol.

Groundwater samples were collected from each boring through temporarily installed slotted PVC casing. A clean stainless steel bailer was used to retrieve the groundwater samples. Following completion of sampling, the cores were backfilled with neat cement and finished with asphalt or concrete to the existing grade.

#### Soil and Groundwater Sample Analysis

One groundwater and one soil sample per boring was tested for total petroleum hydrocarbons (TPH) as gasoline with additional analysis for benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Test Method 5030/8015/8020) and hydrocarbon screen by GC/FID for compounds in ranges for diesel fuel through motor oil. Chemical analysis of soil and groundwater samples was performed by a California certified analytical laboratory.

#### RESULTS OF SUBSURFACE INVESTIGATION

Soil analytical results are summarized in Table 1; groundwater result are summarized in Table 2. TPH as diesel and motor oil groundwater concentration maps are attached (Figures 2 and 3, respectively). Please note that the concentration maps were developed using groundwater data generated by Clayton in 1993 and current data gathered by Groundwater Technology in 1995. These maps are preliminary concentration maps were prepared to illustrate all groundwater data collected at the site to date.

#### Soil Sample Results

The analytical results of the soil sample collected from soil boring SB-3 located near the oil/water separator reported concentrations of benzene at 5.4 parts per million (ppm), xylenes at 87 ppm, TPH as gasoline at 3,500 ppm and TPH as kerosene at 1,800 ppm. In addition, the condition of the soil observed at the groundwater interface in soil boring SB-3 was saturated with petroleum product. The remaining soil samples analyzed from this investigation did not exhibit constituents above the laboratory method detection limit. The analytical results are summarized in Table 1.

#### Groundwater Sample Results

The groundwater samples collected from near the former waste oil tank (SB-4, SB-5, SB-6) and down-gradient of the former waste oil tank (SB-14 and SB-15) reported dissolved concentrations of diesel ranging from less than the detection limit to 500 parts per billion (ppb) and dissolved concentrations of motor oil ranged from less than the detection limit to 2,100 ppb.

The groundwater samples collected adjacent to the former gasoline and diesel USTs (SB-7, SB-8, SB-9 and SB-10) and down-gradient of the gasoline and diesel tank (SB-16 and SB-17) reported dissolved concentrations of diesel from less than the detection limit to 2,300 ppb and concentrations of motor oil from 480 ppb to 7,600 ppb.

Free phase hydrocarbons were detected in soil boring SB-3 (characterized by the laboratory as TPH as mineral spirits) and 4,000 ppb as motor oil was detected in soil boring SB-2. Both of these borings are located near the oil/water separator north of the main building. TPH as diesel was detected in soil boring SB-1 at 260 ppb, located approximately 350 feet west of the CalTrans property line. Groundwater collected from soil boring SB-11, located at the western portion of the site near the garbage collection area, reported concentrations of motor oil at 2,000 ppb.

#### SUMMARY OF WORK CONDUCTED BY CLAYTON ENVIRONMENTAL CONSULTANTS

Clayton Environmental Consultants (Clayton) conducted work at the site during the period of July through September 1993. Subsurface work consisted of drilling soil borings with subsequent collection of soil and groundwater samples near the property boundary of GMC and CalTrans, the area of the former site USTs, and near the garbage collection area.

Results of their investigation (Phase I, Level II Environmental Site Assessment at GMC Truck, dated August 9, 1993) reported that soil and groundwater near the property boundary with CalTrans had been impacted with hydrocarbons possibly from leaking USTs located formerly on the CalTrans property. In addition, the soil near the garbage collection area had reportedly been impacted by hydrocarbons up to 0.5 ppm TPH as gasoline, 700 ppm TPH as diesel, and 820 ppm as oil and grease.

Review of laboratory data presented by Clayton for soil and groundwater samples collected near the former waste oil, gasoline and diesel USTs indicate that TPH as diesel and oil and grease remain in the soil and groundwater. Analyses of samples collected during this investigation reported to 5,400 ppm TPH as diesel remained in soil near the diesel tank with 110,000 ppb detected in groundwater. In addition, up to 3,900 ppm oil and grease was reported in the soil near the former waste oil tank with 18,000 ppb oil and grease and 10,000 ppb TPH as diesel reported in groundwater samples collected.

#### FINDINGS

Based on the results of Clayton's 1993 investigation, and Groundwater Technology's 1995 investigation petroleum hydrocarbons remain in the soil and groundwater beneath the site. The recently completed investigation suggest that dissolved concentrations of motor oil in groundwater have migrated off-site in the southwest direction (toward I-880).

Based on the data presented above, it is our opinion that additional work should be performed to further define the extent of constituents present beneath the site. Work proposed to be conducted includes the coring of nine additional soil borings, using the geoprobe method at the locations shown on Figure 3. The purpose of coring at additional locations, with the collection and analysis of soil and groundwater samples, is to evaluate the subsurface conditions thoroughly prior to installing permanent groundwater monitoring wells. Further evaluation of site conditions would ultimately reduce the number of wells that may need to be installed in the future which would, therefore, reduce the overall cost of the project investigation phase. Minimization of the number of wells installed at the site would: (1) reduce the number of groundwater samples collected, (2) reduce the laboratory analytical cost, and (3) reduce the time spent reviewing and interpreting the data. Therefore, implementation of the recommended scope of work would, in the long run, reduce the overall project cost. The work described above could be scheduled immediately if desired.

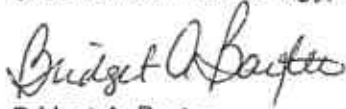
GMC Truck Center, 8099 S. Coliseum Way, Oakland, CA  
Mr. G. Keith West

May 9, 1995  
Page 4

The soil boring locations (Figure 3) were selected in areas near the oil/water separator and down- and cross-gradient of the former waste oil, gasoline, and diesel USTs and are based on results of previous data collected. It is estimated that the proposed additional coring work could be completed in one day of field work.

If you have any questions or would like to discuss the information presented above, please contact us in our Concord office at (510) 671-2387.

Sincerely,  
Groundwater Technology, Inc.



Bridget A. Baxter  
Project Geologist



Christopher P. DeSocio  
Project Manager

TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
GENERAL MOTORS TRUCKING FACILITY  
OAKLAND, CALIFORNIA

Sample I.D.- Depth	Date Collected	Benzene	Toluene	Ethly- Benzene	Xylenes	TPH-as- gasoline mg/kg	TPH-as- diesel fuel mg/kg	Hydrocar- bons (c) mg/kg
BH-1-6*	07/23/93	--	--	--	--	340	280	480
BH-1-10.5*	07/23/93	--	--	--	--	20	8	<50
BH-1-15.5*	07/23/93	--	--	--	--	0.5	10	140
BH-3-5.5*	07/23/93	--	--	--	--	6.3	44	180
BH-4-5.5*	07/23/93	--	--	--	--	51	17	70
BH-5-5.5*	07/23/93	--	--	--	--	0.5	700	820
BH-5-10.5*	07/23/93	--	--	--	--	<0.3	3	<50
B4D-7*	09/09/93	--	--	--	--	<0.3	27	--
B4D-5*	09/09/93	--	--	--	--	1.4(a)	1,700	<5
B8D-4.5*	09/09/93	--	--	--	--	<0.3	1,500	<5
B9D-5.5*	09/09/93	--	--	--	--	<0.3	900	--
B7D-5*	09/09/93	--	--	--	--	<0.3	1,900	--
B10D-10*	09/09/93	--	--	--	--	1.1(a,b)	7,000	--
B11-4.5D*	09/09/93	--	--	--	--	<0.3	3,800	--
BH4-B-5*	09/10/93	--	--	--	--	--	570	580
BH1-B-4.5*	09/10/93	--	--	--	--	--	6	<50
BH2-B-5*	09/10/93	--	--	--	--	--	490	540
BH3-B-5.5*	09/10/93	--	--	--	--	--	470	440

TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
GENERAL MOTORS TRUCKING FACILITY  
OAKLAND, CALIFORNIA

Sample I.D.- Depth	Date Collected	Benzene	Toluene	Ethly- Benzene	Xylenes	TPH-as- gasoline mg/kg	TPH-as- diesel fuel mg/kg	Hydrocar- bons (c) mg/kg
B2-D-2.5*	09/15/93	<0.005	<0.005	<0.005	<0.005	<0.3	320	--
B6-D-2*	09/15/93	<0.005	<0.005	0.005	<0.005	<30	400	--
B13-D-3.5*	09/15/93	<0.005	<0.005	<0.005	<0.005	<0.3	5,400	--
B12-D-4.5*	09/15/93	--	--	--	--	--	1,100	--
B12-D-7.0*	09/15/93	--	--	--	--	--	2,400	--
B14-D-10.0*	09/15/93	<0.005	<0.005	0.005	<0.005	0.9	1,000	--
B1-0-5.5*	09/15/93	--	--	--	--	--	92	230
B2-0-6.5*	09/15/93	--	--	--	--	--	1,400	1,400
B3-0-6.0*	09/15/93	--	--	--	--	--	1,200	1,100
B7-0-4.5*	09/15/93	--	--	--	--	--	350	3,900
B7-0-9.5*	09/15/93	--	--	--	--	--	5	<50
B9-0-5.5*	09/15/93	--	--	--	--	--	1,500	2,100
B10-0-4.5*	09/15/93	--	--	--	--	--	170	160
B11-0-4.5*	09/15/93	--	--	--	--	--	1,300	1,100
B11-0-6.5*	09/15/93	--	--	--	--	--	1,100	2,500
SB1-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB2-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<0.1	<10	<100
SB3-10**	03/23/95	<0.25	<0.25	5.4	87	3,500	<500	1,800(d)

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**GENERAL MOTORS TRUCKING FACILITY**  
**OAKLAND, CALIFORNIA**

Sample I.D.- Depth	Date Collected	Benzene	Toluene	Ethly- Benzene	Xylenes	TPH-as- gasoline mg/kg	TPH-as- diesel fuel mg/kg	Hydrocar- bons (c) mg/kg
SB4-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB5-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB6-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<100	<1000
SB7-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB8-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<100	<1000
SB9-10**	03/23/95	<0.005	<0.005	<0.005	<0.015	<1.0	<100	<1000
SB10-5**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<100	<1000
SB11-10**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB12-10**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB13-10**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB14-10**	03/25/95	<0.005	<0.005	<0.005	<0.015	<1.0	<10	<100
SB15-5**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<50	<500
SB16-5**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<100	<1000
SB17-10**	03/24/95	<0.005	<0.005	<0.005	<0.015	<1.0	<50	<500

Note:  
See laboratory reports for Environmental Protection Agency (EPA) analytical methods

TPH = Total Petroleum Hydrocarbons

\* = Samples collected by Clayton Environmental Consultants.

- \*\*** = Samples collected by Groundwater Technology, Inc.
- a** = According to lab report "Purgeable hydrocarbons quantitated as gasoline may be due to heavier petroleum product.
- b** = According to lab report Purgeable hydrocarbons quantitated as gasoline do not match typical gasoline pattern.
- c** = Hydrocarbons reported as oil and grease.
- d** = Reported by laboratory as uncategorized compound TPH Kerosene.



**TABLE 2**  
**WATER SAMPLE ANALYTICAL RESULTS**  
**GENERAL MOTORS TRUCKING FACILITY**  
**OAKLAND, CALIFORNIA**

Sample I.D.- Depth	Date Collected	Benzene	Toluene	Ethly- Benzene	Xylenes	TPH-as- gasoline ug/l	TPH-as- diesel fuel ug/l	Hydrocar- bons (a) ug/l
BH-1*	07/23/93	--	--	--	--	780	1,300	--
BH-3*	07/23/93	--	--	--	--	--	47,000	--
1-WD (under fuel tank)	08/05/93	<0.4	0.4	<0.3	0.5	--	--	--
B4-O*	09/10/93	<0.4	<0.3	<0.3	<0.4	<50	5,600	18,000
B6-O*	09/10/93	<0.4	<0.3	<0.3	<0.4	<50	1,400	<5
B11-O*	09/15/93	<0.4	<0.3	<0.3	<0.4	<50	6,000	10,000
B14-O*	09/15/93	<0.4	<0.3	<0.3	<0.4	<50	10,000	--
B3-O* (FREE PRODUCT)	09/15/93	--	--	--	--	--	--	150,000
BH9-D*	09/09/93	--	--	--	--	--	110,000	--
BH10-D*	09/09/93	--	--	--	--	--	8,500	--
BH-8D*	09/09/93	--	--	--	--	--	7,700	--
B14-D*	09/15/93	<0.4	<0.3	<0.3	<0.4	<50	10,000	--
SB1-WATER**	03/23/95	0.4	<0.3	<0.3	0.6	<503	260	<250
SB2- WATER***	03/23/95	<0.3	<0.3	<0.3	<0.5	<50	<500	4,000
SB3-(FREE PROJECT)**	03/23/95	--	--	--	--	--	--	--
SB4-WATER**	03/23/95	<0.3	<0.3	<0.3	<0.4	<50	300	<250

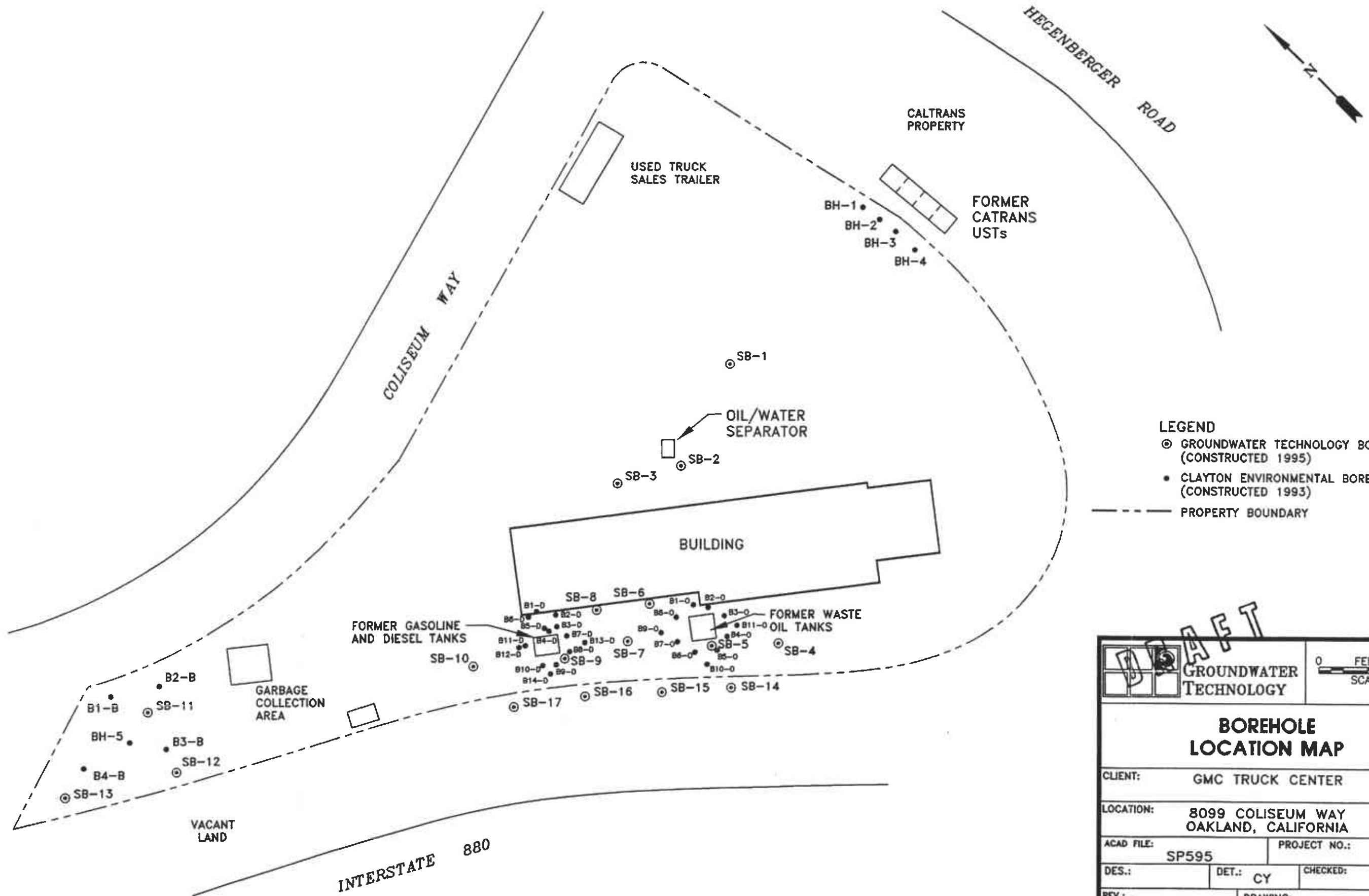
**TABLE 2**  
**WATER SAMPLE ANALYTICAL RESULTS**  
**GENERAL MOTORS TRUCKING FACILITY**  
**OAKLAND, CALIFORNIA**

Sample I.D.- Depth	Date Collected	Benzene	Toluene	Ethly- Benzene	Xylenes	TPH-as- gasoline ug/l	TPH-as- diesel fuel ug/l	Hydrocar- bons (a) ug/l
SB5-WATER**	03/23/95	<0.3	<0.3	<0.3	<0.4	<50	500	<250
SB6-WATER**	03/24/95	1.3	<0.3	<0.3	<0.4	<50	<250	2,100
SB7-WATER **	03/23/95	<0.3	<0.3	<0.3	<0.4	<50	2,300	<250
SB8-WATER**	03/23/95	<0.3	<0.3	<0.3	<0.4	<50	<50	480
SB9-WATER **	03/23/95	<0.3	<0.3	<0.3	<0.4	<50	<1,000	7,600
SB10- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<500	4,200
SB11- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<250	2,000
SB12- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<500	<2,500
SB13- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<250	<1,250
SB14- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<50	1,000
SB15- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<50	720
SB16- WATER**	03/24/95	0.4	<0.3	<0.3	<0.4	<50	<50	1200
SB17- WATER**	03/24/95	<0.3	<0.3	<0.3	<0.4	<50	<250	<1,250

Note:

**See laboratory reports for Environmental Protection Agency (EPA) analytical methods**

- TPH** = Total Petroleum Hydrocarbons
- \*** = Samples collected by Clayton Environmental Consultants
- \*\*** = Samples collected by Groundwater Technology, Inc.
- = Not analyzed
- a** = Hydrocarbons reported as oil.



- LEGEND**
- ⊙ GROUNDWATER TECHNOLOGY BOREHOLE (CONSTRUCTED 1995)
  - CLAYTON ENVIRONMENTAL BOREHOLE (CONSTRUCTED 1993)
  - PROPERTY BOUNDARY

DRAFT

	<b>GROUNDWATER TECHNOLOGY</b>	
<h3 style="margin: 0;">BOREHOLE LOCATION MAP</h3>		
<b>CLIENT:</b> GMC TRUCK CENTER		
<b>LOCATION:</b> 8099 COLISEUM WAY OAKLAND, CALIFORNIA		
<b>ACAD FILE:</b> SP595	<b>PROJECT NO.:</b>	
<b>DES.:</b>	<b>DET.:</b> CY	<b>CHECKED:</b>
<b>REV.:</b> 2	<b>DRAWING:</b>	
<b>DATE:</b> 5/8/95	<b>1</b>	

**LEGEND**

⊙ GROUNDWATER TECHNOLOGY BOREHOLE  
(CONSTRUCTED 1995)

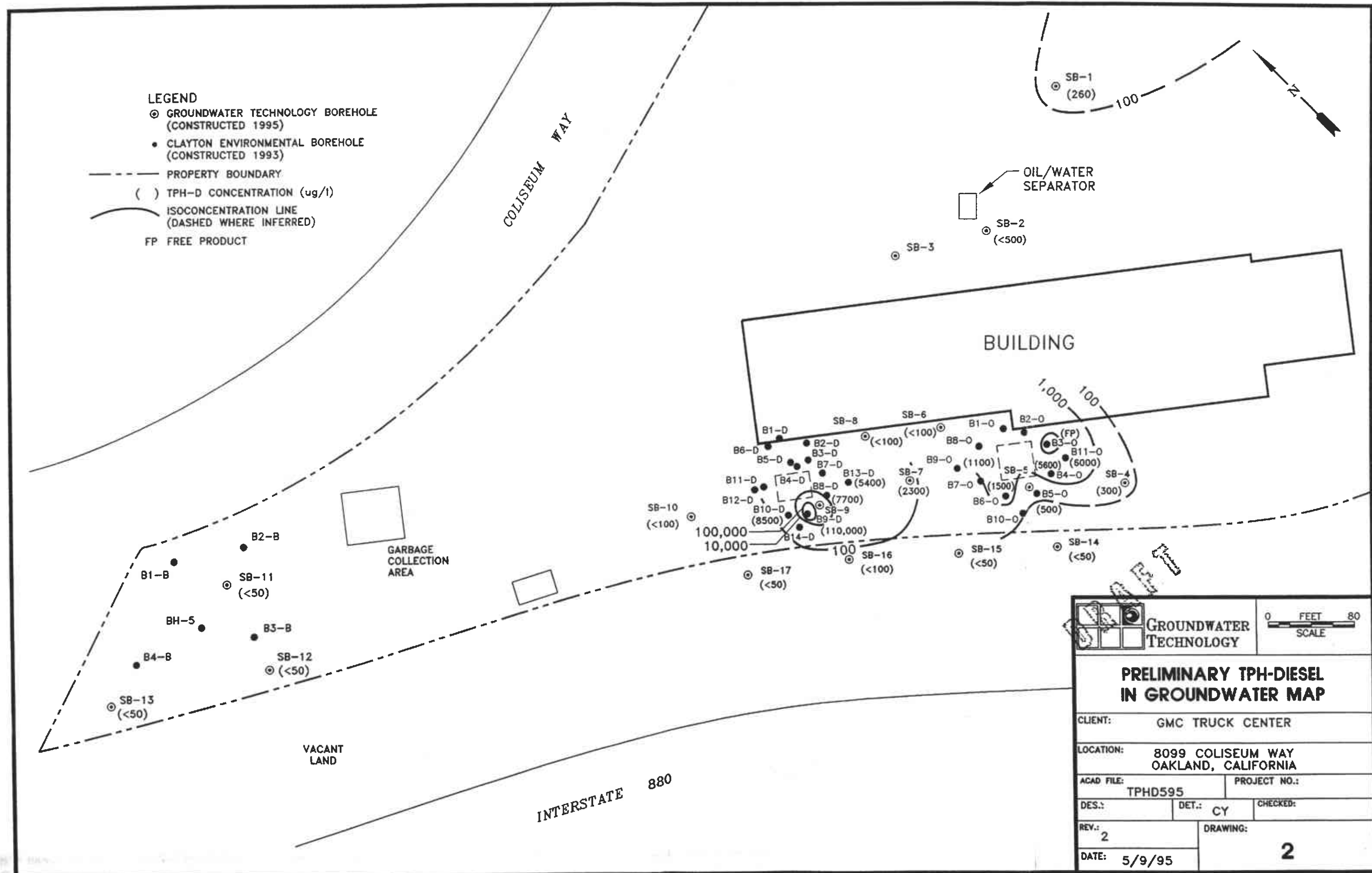
• CLAYTON ENVIRONMENTAL BOREHOLE  
(CONSTRUCTED 1993)

--- PROPERTY BOUNDARY

( ) TPH-D CONCENTRATION (ug/l)

— ISOCONCENTRATION LINE  
(DASHED WHERE INFERRED)

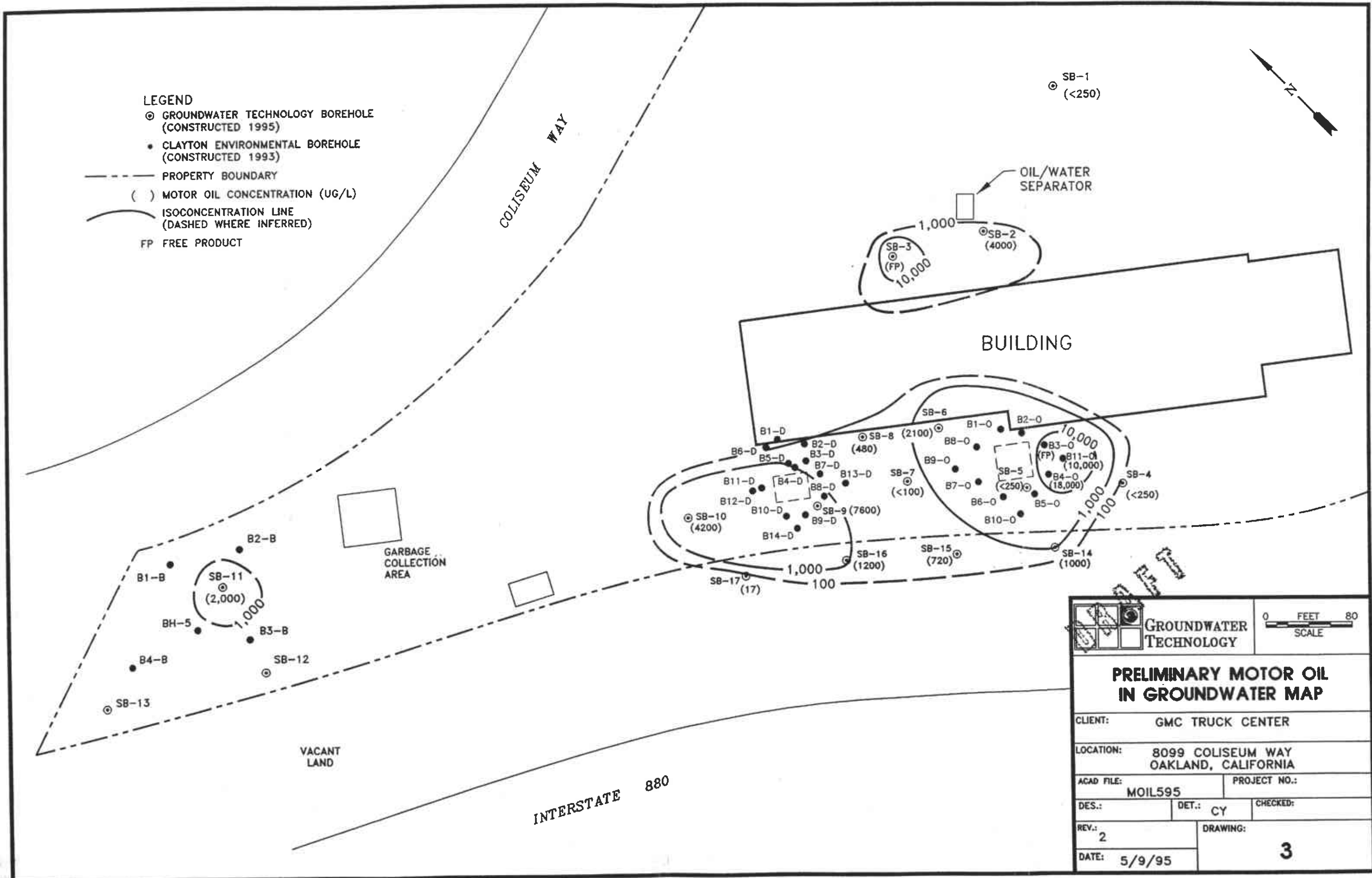
FP FREE PRODUCT



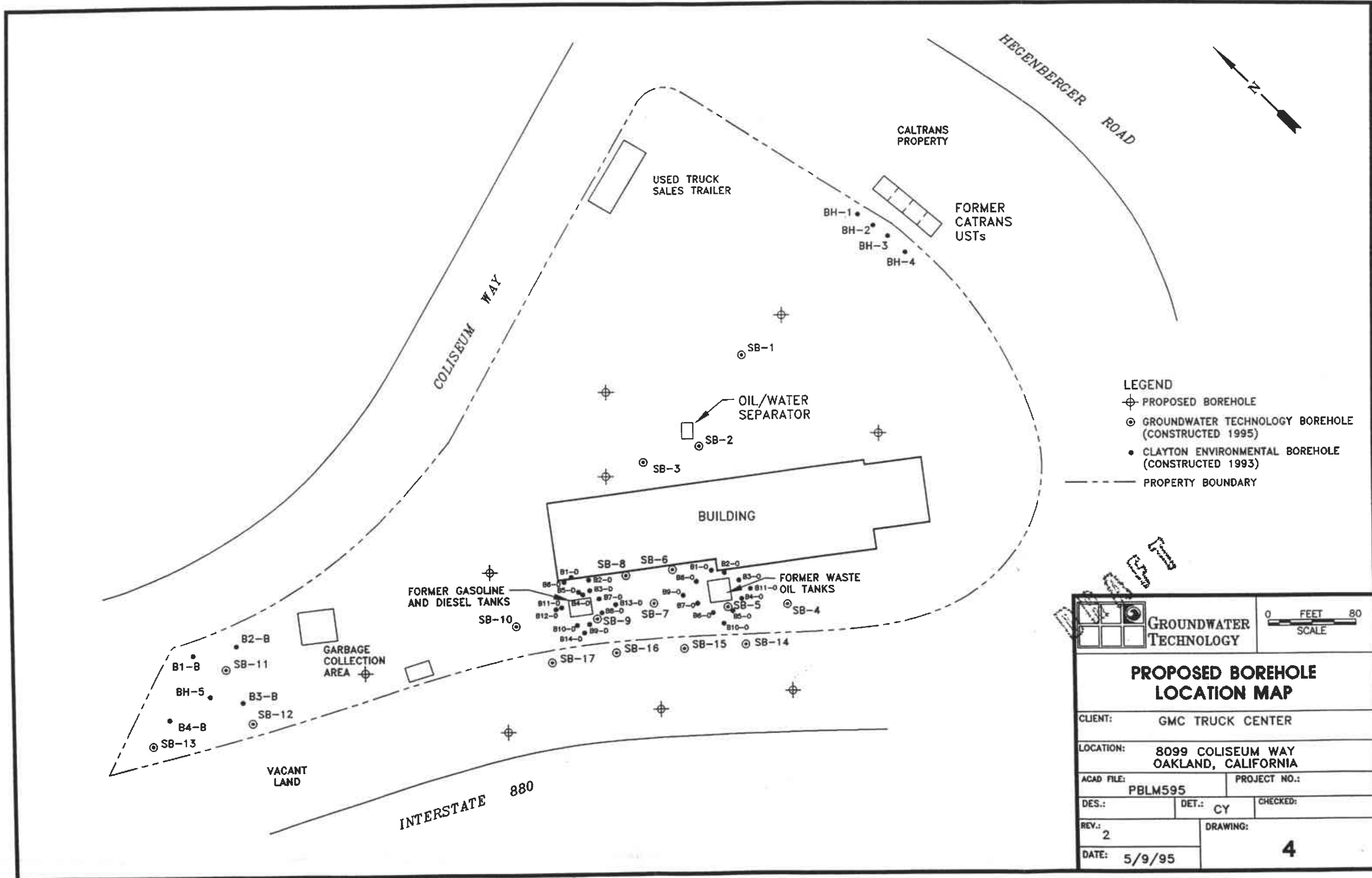
<b>PRELIMINARY TPH-DIESEL IN GROUNDWATER MAP</b>		
CLIENT: GMC TRUCK CENTER		
LOCATION: 8099 COLISEUM WAY OAKLAND, CALIFORNIA		
ACAD FILE:	PROJECT NO.:	
TPHD595		
DES.:	DET.: CY	CHECKED:
REV.: 2	DRAWING:	
DATE: 5/9/95	2	

**LEGEND**

- ⊙ GROUNDWATER TECHNOLOGY BOREHOLE (CONSTRUCTED 1995)
- CLAYTON ENVIRONMENTAL BOREHOLE (CONSTRUCTED 1993)
- - - PROPERTY BOUNDARY
- ( ) MOTOR OIL CONCENTRATION (UG/L)
- - - ISOCONCENTRATION LINE (DASHED WHERE INFERRED)
- FP FREE PRODUCT



<b>PRELIMINARY MOTOR OIL IN GROUNDWATER MAP</b>		
CLIENT:		GMC TRUCK CENTER
LOCATION:		8099 COLISEUM WAY OAKLAND, CALIFORNIA
ACAD FILE:	PROJECT NO.:	
MOIL595		
DES.:	DET.: CY	CHECKED:
REV.: 2	DRAWING:	
DATE: 5/9/95	3	



**LEGEND**

- ⊕ PROPOSED BOREHOLE
- ⊙ GROUNDWATER TECHNOLOGY BOREHOLE (CONSTRUCTED 1995)
- CLAYTON ENVIRONMENTAL BOREHOLE (CONSTRUCTED 1993)
- - - PROPERTY BOUNDARY

	0	FEET	80
	SCALE		

**PROPOSED BOREHOLE LOCATION MAP**

CLIENT: GMC TRUCK CENTER		
LOCATION: 8099 COLISEUM WAY OAKLAND, CALIFORNIA		
ACAD FILE:	PROJECT NO.:	
PBLM595		
DES.:	DET.: CY	CHECKED:
REV.: 2	DRAWING:	
DATE: 5/9/95	4	



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**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: 042020136  
Project ID: GMC Trucking  
Oakland, CA  
Work Order Number: C5-04-0081

April 17, 1995

Chris DeSocio  
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 04/07/95, under chain of custody record 38424.

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. This report is to be reproduced only in full.

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.

Rashmi Shah  
Laboratory Director



Client Number: 042020136  
 Project ID: GMC Trucking  
 Oakland, CA  
 Work Order Number: C5-04-0081

**ANALYTICAL RESULTS**  
**Hydrocarbons in Product**  
 Method: GC-FID<sup>a</sup>

GTEL Sample Number		01			
Client Identification		SB3 PRODUCT			
Date Sampled		03/23/95			
Date Extracted		04/13/95			
Date Analyzed		04/15/95			
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as gasoline <sup>b</sup>	10	<10000			
TPH as mineral spirits	10	590000			
TPH as kerosene	10	<10000			
TPH as diesel fuel	10	<10000			
TPH as motor oil	100	<100000			
Detection Limit Multiplier		1000			

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.
- b. Quantitation uncertain due to analyte losses during extraction and chromatographic interference by the solvent peak.



4080 PIKE LANE, SUITE C  
CONCORD, CA 94520  
(510) 685-7852  
(800) 423-7143

CHAIN-OF-CUSTODY RECORD  
AND ANALYSIS REQUEST

3842

ANALYSIS REQUEST

OTHER

Company Name: **GROUNDWATER TECH** Phone #: **(510) 671-2337**  
 Company Address: **4057 Port Chicago Hwy** Site Location: **OAKLAND**  
 Project Manager: **CHRIS DESOCIO** Client Project ID: (#) **0A2020136.2010**  
 I attest that the proper field sampling procedures were used during the collection of these samples. (NAME) **GMC Trucking**  
 Sampler Name (Print): **BUDGET PAXLER**

Field Sample ID	GTEL Lab # (Lab Use) only	# CONTAINERS	Matrix					Method Preserved							Sampling		
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	UNPREPARED	OTHER (Specify)	DATE	TIME	
SB3-Product	01	2				X							X			3/23/95	8:00

BTEX 602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	BTEX/Gas Hydrocarbons PID/FID <input type="checkbox"/> with MTBE <input type="checkbox"/>	Hydrocarbons GC/FID Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Screen <input checked="" type="checkbox"/>	Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> SM-503 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/> SM 503 <input type="checkbox"/>	EDB by 504 <input type="checkbox"/> DBCP by 504 <input type="checkbox"/>	EPA 503.1 <input type="checkbox"/> EPA 502.2 <input type="checkbox"/>	EPA 601 <input type="checkbox"/> EPA 8010 <input type="checkbox"/>	EPA 602 <input type="checkbox"/> EPA 8020 <input type="checkbox"/>	EPA 608 <input type="checkbox"/> 8060 <input type="checkbox"/> PCB only <input type="checkbox"/>	EPA 624/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+15) <input type="checkbox"/>	EPA 625/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) <input type="checkbox"/>	EPA 610 <input type="checkbox"/> 8310 <input type="checkbox"/>	EP TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>	EPA Metals - Priority Pollutant <input type="checkbox"/> TAL <input type="checkbox"/> RCRA <input type="checkbox"/>	CAM Metals <input type="checkbox"/> TLG <input type="checkbox"/> STLC <input type="checkbox"/>	Lead 239.2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 <input type="checkbox"/>	Organic Lead <input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flash Point <input type="checkbox"/> Reactivity <input type="checkbox"/>
--	---	---	---	--	---	--	---	--	--	--	---	---	--	--	---	---	--	--	---------------------------------------	---

**TAT**  
 Priority (24 hr)   
 Expedited (48 hr)   
 7 Business Days   
 Other \_\_\_\_\_  
 Business Days

**Special Handling**  
 GTEL Contact \_\_\_\_\_  
 Quote/Contract # \_\_\_\_\_  
 Confirmation # \_\_\_\_\_  
 P.O. # \_\_\_\_\_

**QA/QC Level**  
 Blue I.I.  CLP I.I.  Other I.I. \_\_\_\_\_

**SPECIAL DETECTION LIMITS**

**SPECIAL REPORTING REQUIREMENTS**

FAX

**REMARKS:**

Lab Use Only Lot #: \_\_\_\_\_ Storage Location **X2**

Work Order #: **C5040081**

**CUSTODY RECORD**

Relinquished by Sampler: **Budget Paxler**

Relinquished by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date **4/7/95** Time **2:30 PM** Received by: \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_ Received by: \_\_\_\_\_

Date **4/7/95** Time **14:30** Received by Laboratory: **Budget Paxler**  
 Waybill # \_\_\_\_\_



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**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)

April 7, 1995

Chris Desocio  
Groundwater Technology, Inc.  
4057 Port Chicago Hwy.  
Concord, CA 94520

---

RE: GTEL Client ID: 042020136  
Login Number: C5030301  
Project ID (number): 042020136.2010  
Project ID (name): GMC Trucking/CA

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Dear Chris Desocio:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 03/24/95 under Chain-of-Custody Number(s) 28420, 28417, 28418, 28419, 28416.

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 Department of Health Service under Certification Number E1075.

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

Sincerely,  
GTEL Environmental Laboratories, Inc.

Rashmi Shah  
Laboratory Director

GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C5030301-01	C5030301-02	C5030301-03	C5030301-04
Client ID	SB1-WATER	SB2-WATER	SB4-WATER	SB5-WATER
Date Sampled	03/23/95	03/23/95	03/23/95	03/23/95
Date Analyzed	04/03/95	03/31/95	03/31/95	03/31/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.3	ug/L	0.4	< 0.3	< 0.3	< 0.3
Toluene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Ethylbenzene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Xylenes (total)	0.5	ug/L	0.6	< 0.5	< 0.5	< 0.5
TPH as GAS	50	ug/L	< 50	< 50	< 50	< 50
BFB (Surrogate)	--	%	99.4	106	107	105

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

GTEL Concord, CA  
 C5030301:1



GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C5030301-05	C5030301-06	C5030301-07	C5030301-08
Client ID	SB6-WATER	SB7-WATER	SB8-WATER	SB9-WATER
Date Sampled	03/24/95	03/23/95	03/23/95	03/23/95
Date Analyzed	03/31/95	03/31/95	04/01/95	04/01/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.3	ug/L	1.3	< 0.3	< 0.3	< 0.3
Toluene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Ethylbenzene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50	ug/L	< 50	< 50	< 50	< 50
BFB (Surrogate)	--	%	106	107	105	98.4

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

C5030301-08:

MTBE concentration is not included in the gasoline concentration.

GTEL Concord, CA  
 C5030301:2



GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

-ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C5030301-09	C5030301-10	C5030301-11	C5030301-12
Client ID	SB10-WATER	SB11-WATER	SB12-WATER	SB13-WATER
Date Sampled	03/24/95	03/24/95	03/24/95	03/24/95
Date Analyzed	04/01/95	04/01/95	04/01/95	04/01/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Ethylbenzene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50	ug/L	< 50	< 50	< 50	< 50
BFB (Surrogate)	--	%	97.4	99.8	102.	102.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

GTEL Concord, CA  
 C5030301:3



GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C5030301-13	C5030301-14	C5030301-15	C5030301-16
Client ID	SB14-WATER	SB15-WATER	SB16-WATER	SB17-WATER
Date Sampled	03/24/95	03/24/95	03/24/95	03/24/95
Date Analyzed	04/01/95	04/03/95	04/03/95	04/03/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.3	ug/L	< 0.3	< 0.3	0.4	< 0.3
Toluene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Ethylbenzene	0.3	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50	ug/L	< 50	< 50	< 50	< 50
BFB (Surrogate)	--	%	101	96.8	90.0	95.4

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

C5030301-15:

Uncategorized compound is not included in gasoline concentration.

GTEL Concord, CA  
 C5030301:4



GTEL Client ID: 042020136  
Login Number: C5030301  
Project ID (number): 042020136.2010  
Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
Method: EPA 8020  
Matrix: Aqueous

GTEL Sample Number	C5030301-49	--	--	--
Client ID	TRIP BLANK	--	--	--
Date Sampled	03/23/95	--	--	--
Date Analyzed	03/27/95	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.3	ug/L	< 0.3	--	--	--
Toluene	0.3	ug/L	< 0.3	--	--	--
Ethylbenzene	0.3	ug/L	< 0.3	--	--	--
Xylenes (total)	0.5	ug/L	< 0.5	--	--	--
TPH as GAS	50.	ug/L	< 50.	--	--	--
BFB (Surrogate)	--	%	89.8	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

GTEL Concord, CA  
C5030301:5





GTEL Client ID: 042020136  
Login Number: C5030301  
Project ID (number): 042020136.2010  
Project ID (name): GMC Trucking/CA

QUALITY CONTROL RESULTS

Volatile Organics  
Method: EPA 8020  
Matrix: Aqueous

Method Blank Results

QC Batch No: E033195-1  
Date Analyzed: 31-MAR-95

Analyte	Method: EPA 8020	Concentration: ug/L
Benzene	< 0.30	
Toluene	< 0.30	
Ethylbenzene	< 0.30	
Xylenes (Total)	< 0.50	
Naphthalene	< 20.	
TPH as Gasoline	< 50.	

Notes:

ANALYTICAL RESULTS

Hydrocarbons in Water

Method: GC-FID<sup>a</sup>

GTEL Sample Number		01	02 <sup>c</sup>	03	04
Client Identification		SB1 WATER	SB2 WATER	SB4 WATER	SB5 WATER
Date Sampled		03/23/95	03/23/95	03/23/95	03/23/95
Date Extracted		03/25/95	03/25/95	03/25/95	03/25/95
Date Analyzed		03/29/95	03/29/95	03/29/95	03/29/95
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as mineral spirits	50	<50	<500	<50	<50
TPH as kerosene	50	<50	<500	<50	<50
TPH as diesel fuel	50	260 <sup>b</sup>	<500	300 <sup>b</sup>	500 <sup>b</sup>
TPH as motor oil	250	<250	4000	<250	<250
Detection Limit Multiplier		1	10	1	1
O-Terphenyl surrogate, % recovery		117	50.2	82.3	115

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. O-Terphenyl surrogate acceptability limits are 50-150%.
- b. Uncharacteristic of GTEL's diesel standard, uncategorized compounds not included in concentration.
- c. Detection limit raised due to matrix interference.

ANALYTICAL RESULTS

Hydrocarbons in Water

Method: GC-FID<sup>a</sup>

GTEL Sample Number		05 <sup>c</sup>	06	07	08 <sup>c</sup>
Client Identification		SB6 WATER	SB7 WATER	SB8 WATER	SB9 WATER
Date Sampled		03/24/95	03/23/95	03/23/95	03/23/95
Date Extracted		03/25/95	03/25/95	03/25/95	03/25/95
Date Analyzed		03/31/95	03/29/95	03/31/95	03/29/95
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as mineral spirits	50	<250	<50	<50	<1000
TPH as kerosene	50	<250	<50	<50	<1000
TPH as diesel fuel	50	<250	2300 <sup>b</sup>	<50	<1000
TPH as motor oil	250	2100	<250	480	7600
Detection Limit Multiplier		5	1	1	20
O-Terphenyl surrogate, % recovery		103	111	114	72.1

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. O-Terphenyl surrogate acceptability limits are 50-150%.
- b. Uncharacteristic of GTEL's diesel standard, uncategorized compounds not included in concentration.
- c. Detection limit raised due to matrix interference.

ANALYTICAL RESULTS

Hydrocarbons in Water

Method: GC-FID<sup>a</sup>

GTEL Sample Number		09 <sup>c</sup>	GCJ 032995	10 <sup>c</sup>	11 <sup>c</sup>
Client Identification		SB10 WATER	METHOD BLANK	SB11 WATER	SB12 WATER
Date Sampled		03/24/95	—	03/24/95	03/24/95
Date Extracted		03/25/95	03/25/95	03/27/95	03/27/95
Date Analyzed		03/28/95	03/29/95	04/01/95	03/31/95
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as mineral spirits	50	<500	<50	<250	<500
TPH as kerosene	50	<500	<50	<250	<500
TPH as diesel fuel	50	<500	<50	<250	<500
TPH as motor oil	250	4200	<250	2000	<2500
Detection Limit Multiplier		10	1	5	10
O-Terphenyl surrogate, % recovery		158 <sup>d</sup>	95.2	102	135

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986.  
 O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.
- d. Surrogate high due to target compound interference.

ANALYTICAL RESULTS

Hydrocarbons in Water

Method: GC-FID<sup>a</sup>

GTEL Sample Number		12 <sup>c</sup>	13	14	15
Client Identification		SB13 WATER	SB14 WATER	SB15 WATER	SB16 WATER
Date Sampled		03/24/95	03/24/95	03/24/95	03/24/95
Date Extracted		03/27/95	03/27/95	03/27/95	03/27/95
Date Analyzed		04/01/95	03/31/95	03/31/95	03/31/95
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as mineral spirits	50	<250	<50	<50	<50
TPH as kerosene	50	<250	<50	<50	<50
TPH as diesel fuel	50	<250	<50	<50	<50
TPH as motor oil	250	<1250	1000	720	1200
Detection Limit Multiplier		5	1	1	1
O-Terphenyl surrogate, % recovery		92.7	167 <sup>d</sup>	e	e

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.
- d. Surrogate high due to target compound interference.
- e. Unable to report surrogate due to target compound interference.

Client Number: 042020136  
 Project ID: GMC-Trucking  
 Work Order Number: C5-03-0301

## ANALYTICAL RESULTS

### Hydrocarbons in Water

Method: GC-FID<sup>a</sup>

GTEL Sample Number		16 <sup>c</sup>	GCJ 033095		
Client Identification		SB17 WATER	METHOD BLANK		
Date Sampled		03/24/95	-		
Date Extracted		03/27/95	03/27/95		
Date Analyzed		04/01/95	03/30/95		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as mineral spirits	50	<250	<50		
TPH as kerosene	50	<250	<50		
TPH as diesel fuel	50	<250	<50		
TPH as motor oil	250	<1250	<50		
Detection Limit Multiplier		5	1		
O-Terphenyl surrogate, % recovery		149	120		

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986.  
 O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.

GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Solids

GTEL Sample Number	C5030301-17	C5030301-19	C5030301-21	C5030301-24
Client ID	SB1-10	SB2-10	SB3-10	SB4-10
Date Sampled	03/23/95	03/23/95	03/23/95	03/23/95
Date Analyzed	03/29/95	03/29/95	04/01/95	04/04/95
Dilution Factor	1.00	1.00	50.0	1.00

Analyte	Reporting		Concentration:Wet Weight			
	Limit	Units				
Benzene	0.005	mg/kg	< 0.005	< 0.005	< 0.25	< 0.005
Toluene	0.005	mg/kg	< 0.005	< 0.005	< 0.25	< 0.005
Ethylbenzene	0.005	mg/kg	< 0.005	< 0.005	5.4	< 0.005
Xylenes (total)	0.015	mg/kg	< 0.015	< 0.015	87.	< 0.015
TPH as GAS	1.0	mg/kg	< 1.0	< 1.0	3500	< 1.0
BFB (Surrogate)	--	%	60.5	78.6	116.	95.0

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

C5030301-21:

Detection limit raised due to high levels of hydrocarbons. Estimated concentration for gasoline due to overlapping fuel patterns.

GTEL Concord, CA  
 C5030301:1



GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Solids

GTEL Sample Number	C5030301-26	C5030301-28	C5030301-30	C5030301-32
Client ID	SB5-10	SB6-10	SB7-10	SB8-10
Date Sampled	03/23/95	03/24/95	03/23/95	03/23/95
Date Analyzed	03/29/95	04/04/95	03/30/95	04/01/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:Wet Weight			
	Limit	Units				
Benzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes (total)	0.015	mg/kg	< 0.015	< 0.015	< 0.015	< 0.015
TPH as GAS	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
BFB (Surrogate)	--	%	90.3	21.2	69.5	63.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

C5030301-28:

Estimated concentration, surrogate recovery demonstrated sample specific matrix effect. Laboratory control sample indicated the analysis was within control limits.

GTEL Concord, CA  
 C5030301:2





GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Solids

GTEL Sample Number	C5030301-34	C5030301-35	C5030301-38	C5030301-40
Client ID	SB9-10	SB10-5	SB11-10	SB12-10
Date Sampled	03/23/95	03/24/95	03/24/95	03/24/95
Date Analyzed	04/01/95	04/01/95	04/01/95	03/31/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:Wet Weight			
	Limit	Units				
Benzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes (total)	0.015	mg/kg	< 0.015	< 0.015	< 0.015	< 0.015
TPH as GAS	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
BFB (Surrogate)	--	%	65.7	58.0	63.9	83.6

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

C5030301-35:

Estimated concentration, surrogate recovery demonstrated sample specific matrix effect. Laboratory control sample indicated the analysis was within control limits.

GTEL Concord, CA  
 C5030301:3



GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Solids

GTEL Sample Number	C5030301-42	C5030301-44	C5030301-45	C5030301-46
Client ID	SB13-10	SB14-10	SB15-5	SB16-5
Date Sampled	03/24/95	03/24/95	03/24/95	03/24/95
Date Analyzed	03/31/95	03/31/95	03/31/95	04/03/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:Wet Weight			
	Limit	Units				
Benzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.005	mg/kg	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes (total)	0.015	mg/kg	< 0.015	< 0.015	< 0.015	< 0.015
TPH as GAS	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
BFB (Surrogate)	--	%	84.9	74.5	92.6	31.8

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846. Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

GTEL Concord, CA  
 C5030301:4



GTEL Client ID: 042020136  
 Login Number: C5030301  
 Project ID (number): 042020136.2010  
 Project ID (name): GMC Trucking/CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Solids

GTEL Sample Number	C5030301-48	--	--
Client ID	SB17-10	--	--
Date Sampled	03/24/95	--	--
Date Analyzed	04/01/95	--	--
Dilution Factor	1.00	--	--

Analyte	Reporting		Concentration:Wet Weight		
	Limit	Units			
Benzene	0.005	mg/kg	< 0.005	--	--
Toluene	0.005	mg/kg	< 0.005	--	--
Ethylbenzene	0.005	mg/kg	< 0.005	--	--
Xylenes (total)	0.015	mg/kg	< 0.015	--	--
TPH as GAS	1.0	mg/kg	< 1.0	--	--
BFB (Surrogate)	--	%	69.9	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.

GTEL Concord, CA  
 C5030301:5



GTEL Client ID: 042020136  
Login Number: C5030301  
Project ID (number): 042020136.2010  
Project ID (name): GMC Trucking/CA

QUALITY CONTROL RESULTS

Volatile Organics  
Method: EPA 8020  
Matrix: Solids

Method Blank Results

QC Batch No: A040195-1  
Date Analyzed: 01-APR-95

Analyte	Method: EPA 8020	Concentration: ug/L
Benzene	< 0.020	
Toluene	< 0.020	
Ethylbenzene	< 0.020	
Xylenes (Total)	< 0.060	
TPH as Gasoline	< 1.0	

Notes:

Client Number: 042020136  
 Project ID: GMC-Trucking  
 Work Order Number: C5-03-0301

## ANALYTICAL RESULTS

### Hydrocarbons in Soil

Method: GC-FID<sup>a</sup>

GTEL Sample Number		17	19	21 <sup>c</sup>	24
Client Identification		SB1-10	SB2-10	SB3-10	SB4-10
Date Sampled		03/23/95	03/23/95	03/23/95	03/23/95
Date Extracted		03/28/95	03/28/95	03/28/95	03/28/95
Date Analyzed		04/01/95	04/04/95	04/01/95	04/03/95
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as mineral spirits	10	<10	<10	<500	<10
TPH as kerosene	10	<10	<10	1800 <sup>f</sup>	<10
TPH as diesel fuel	10	<10	<10	<500	<10
TPH as motor oil	100	<100	<100	<1000	<100
Detection Limit Multiplier		1	1	10	1
O-Terphenyl surrogate, % recovery		70.5	66.6	e	70.9

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.
- e. Unable to report surrogate due to target compound interference.
- f. Uncategorized compound maybe included in the kerosene concentration.

Client Number: 042020136  
 Project ID: GMC-Trucking  
 Work Order Number: C5-03-0301

## ANALYTICAL RESULTS

### Hydrocarbons in Soil

Method: GC-FID<sup>a</sup>

GTEL Sample Number		26	28 <sup>c</sup>	30	32 <sup>c</sup>
Client Identification		SB5-10	SB6-10	SB7-10	SB8-10
Date Sampled		03/23/95	03/24/95	03/23/95	03/23/95
Date Extracted		03/28/95	03/28/95	03/28/95	03/28/95
Date Analyzed		04/03/95	04/01/95	04/03/95	04/01/95
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as mineral spirits	10	<10	<100	<10	<100
TPH as kerosene	10	<10	<100	<10	<100
TPH as diesel fuel	10	<10	<100	<10	<100
TPH as motor oil	100	<100	<1000	<100	<1000
Detection Limit Multiplier		1	10	1	10
O-Terphenyl surrogate, % recovery		70.3	59.6	63.5	98.8

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.

ANALYTICAL RESULTS

Hydrocarbons in Soil

Method: GC-FID<sup>a</sup>

GTEL Sample Number		34 <sup>C</sup>	35 <sup>C</sup>	38	40
Client Identification		SB9-10	SB10-5	SB11-10	SB12-10
Date Sampled		03/23/95	03/24/95	03/24/95	03/24/95
Date Extracted		03/28/95	03/28/95	03/28/95	03/28/95
Date Analyzed		04/01/95	04/01/95	04/01/95	04/03/95
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as mineral spirits	10	<100	<100	<10	<10
TPH as kerosene	10	<100	<100	<10	<10
TPH as diesel fuel	10	<100	<100	<10	<10
TPH as motor oil	100	<1000	<1000	<100	<100
Detection Limit Multiplier		10	10	1	1
O-Terphenyl surrogate, % recovery		76.8	62.7	60.6	70.2

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.

Client Number: 042020136  
 Project ID: GMC-Trucking  
 Work Order Number: C5-03-0301

## ANALYTICAL RESULTS

### Hydrocarbons in Soil

Method: GC-FID<sup>a</sup>

GTEL Sample Number		42	44	45 <sup>c</sup>	46 <sup>c</sup>
Client Identification		SB13-10	SB14-10	SB15-5	SB16-5
Date Sampled		03/24/95	03/24/95	03/24/95	03/24/95
Date Extracted		03/28/95	03/28/95	03/28/95	03/28/95
Date Analyzed		04/01/95	04/03/95	04/04/95	04/01/95
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as mineral spirits	10	<10	<10	<50	<100
TPH as kerosene	10	<10	<10	<50	<100
TPH as diesel fuel	10	<10	<10	<500	<100
TPH as motor oil	100	<100	<100	<500	<1000
Detection Limit Multiplier		1	1	5	10
O-Terphenyl surrogate, % recovery		54.5	67.2	73.7	65.1

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.



Client Number: 042020136  
 Project ID: GMC-Trucking  
 Work Order Number: C5-03-0301

## ANALYTICAL RESULTS

### Hydrocarbons in Soil

Method: GC-FID<sup>a</sup>

GTEL Sample Number		48 <sup>c</sup>	GCJ 033195		
Client Identification		SB17-10	METHOD BLANK		
Date Sampled		03/24/95	--		
Date Extracted		03/28/95	03/28/95		
Date Analyzed		04/01/95	03/31/95		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as mineral spirits	10	<50	<10		
TPH as kerosene	10	<50	<10		
TPH as diesel fuel	10	<50	<10		
TPH as motor oil	100	<500	<100		
Detection Limit Multiplier		5	1		
O-Terphenyl surrogate, % recovery		51.0	117		

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.
- c. Detection limit raised due to matrix interference.



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(510) 685-7852  
(800) 423-7143

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

28420 15

Company Name: **GROUNDEWATER TECH.** Phone #: **(510) 671-2387**  
 Company Address: **4057 PORTCHICAGO HWY, CONCORD, CA** FAX #: **(510) 685-9148**  
 Project Manager: **CNPIS DESOCIO** Site location:  
 Client Project ID: **(#)042020136, 2010**  
 (NAME) **GMK - Trucking**  
 Sampler Name (Print): **BRIDGET BAXTER**

I attest that the proper field sampling procedures were used during the collection of these samples.

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix					Method Preserved					Sampling		BTEX/602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	BTEX/Gas Hydrocarbons PID/FID <input checked="" type="checkbox"/> with MTBE <input type="checkbox"/>	Hydrocarbons GC/FID Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Screen <input checked="" type="checkbox"/>	Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> SM 503 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/> SM 503 <input type="checkbox"/>	EDB by 504 <input type="checkbox"/> DBCP by 504 <input type="checkbox"/>	EPA 503.1 <input type="checkbox"/> EPA 502.2 <input type="checkbox"/>	EPA 601 <input type="checkbox"/> EPA 8010 <input type="checkbox"/>	EPA 602 <input type="checkbox"/> EPA 8020 <input type="checkbox"/>	EPA 608 <input type="checkbox"/> 8080 <input type="checkbox"/> PCB only <input type="checkbox"/>	EPA 624/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+15) <input type="checkbox"/>	EPA 625/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) <input type="checkbox"/>	EPA 610 <input type="checkbox"/> 8310 <input type="checkbox"/>	EP TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Past <input type="checkbox"/> Herb <input type="checkbox"/>	EPA Metals - Priority Pollutant <input type="checkbox"/> TAL <input type="checkbox"/> RCRA <input type="checkbox"/>	CAM Metals TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead 239.2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 <input type="checkbox"/>	Organic Lead <input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flash Point <input type="checkbox"/> Reactivity <input type="checkbox"/>		
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	UNPRESERVED	OTHER (SPECIFY)																						DATE	TIME
SB1 - Water	01	4	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>							3/23		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB2 - Water	02	3															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB4 - Water	03	4															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB5 - Water	04	4															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB6																																					
SB7 - Water	06	4															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB8 - Water	07	4															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB9 - Water	08	3															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB1 - 10	017	1															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
SB2 - 5	018	1															<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			

TAT Special Handling:  GTEL Contact: \_\_\_\_\_  
 Priority (24 hr)  Quote/Contract #: \_\_\_\_\_  
 Expedited (48 hr)  Confirmation #: \_\_\_\_\_  
 7 Business Days  PO #: \_\_\_\_\_  
 Other Standard TAT  Business Days

Special Detection Limits: \_\_\_\_\_  
 Special Reporting Requirements: \_\_\_\_\_  
 Lab Use Only Lot #: 60C Storage Location: 1 OF 5  
 Work Order #: C5030301

## CUSTODY RECORD

Relinquished by Sampler: **Bridget Baxter** Date: 3/24 Time: 5:45  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 3/24 Time: 5:45  
 Received by Laboratory: [Signature] Waybill #: \_\_\_\_\_



4080 PIKE LANE, SUITE C  
CONCORD, CA 94520  
(510) 685-7852  
(800) 423-7143

CHAIN-OF-CUSTODY RECORD  
AND ANALYSIS REQUEST

28417 25

Company Name: GTL Phone #: (510) 671-2387

Company Address: 4057 Port Chicago Hwy, Concord Ca.

Project Manager: Chris DeSocio Client Project ID: (#) (NAME) GMC-Trucking

I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): BRIDGET BAXTER

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix							Method Preserved							Sampling		BTEX/602 8020 with MTBE <input type="checkbox"/>	BTEX/Gas Hydrocarbons PID/FID with MTBE <input type="checkbox"/>	Hydrocarbons GC/FID Gas Diesel Screen <input checked="" type="checkbox"/>	Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>	Oil and Grease 413.1 413.2 SM 503 <input type="checkbox"/>	TPH/IR 418.1 SM 503 <input type="checkbox"/>	EDB by 504 DBCP by 504 <input type="checkbox"/>	EPA 503.1 EPA 502.2 <input type="checkbox"/>	EPA 601 EPA 8010 <input type="checkbox"/>	EPA 602 EPA 8020 <input type="checkbox"/>	EPA 608 8030 PCB only <input type="checkbox"/>	EPA 624/PPL 8240/TAL NBS (+15) <input type="checkbox"/>	EPA 625/PPL 8270/TAL NBS (+25) <input type="checkbox"/>	EPA 610 8310 <input type="checkbox"/>	EP TOX Metals Pesticides Herbicides <input type="checkbox"/>	TCLP Metals VOA Semi-VOA Pest Herb <input type="checkbox"/>	EPA Metals - Priority Pollutant TAL RCRA <input type="checkbox"/>	CAM Metals TTLC STLC <input type="checkbox"/>	Lead 209.2 200.7 7420 7421 6010 <input type="checkbox"/>	Organic Lead <input type="checkbox"/>	Corrosivity Flash Point Reactivity <input type="checkbox"/>
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	UNPRESERVED	OTHER (SPECIFY)	DATE	TIME																							
SB2-10	19		<input checked="" type="checkbox"/>																																				
SB3-5	20																																						
SB3-10	21																																						
SB3-16	22																																						
SB4-5	23																																						
SB4-10	24																																						
SB5-5	25																																						
SB5-10	26																																						
SB7-5	29																																						
SB7-10	30																																						

Priority (24 hr) <input type="checkbox"/> Expedited (48 hr) <input type="checkbox"/> 7 Business Days <input type="checkbox"/> Other <u>Standard TAT</u> <input type="checkbox"/> Business Days <input type="checkbox"/>	Special Handling GTEL Contact _____ Quote/Contract # _____ Confirmation # _____ PO # _____	SPECIAL DETECTION LIMITS	REMARKS
BLUE <input type="checkbox"/> CLP <input type="checkbox"/> OTHER _____	QA/QC LEVEL	SPECIAL REPORTING REQUIREMENTS	Lab Use Only Lot # _____ Storage Location: _____  Work Order # <u>C5030301</u>

2 OF 5

CUSTODY RECORD

Relinquished by Sampler: <u>Bridget Baxter</u>	Date: <u>3/24</u> Time: <u>15:45</u>	Received by:
Relinquished by:	Date:	Received by:
Relinquished by:	Date: <u>3/24</u> Time: <u>3:45</u>	Received by Laboratory: <u>[Signature]</u>
		Waybill #



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CONCORD, CA 94520  
(510) 685-7852  
(800) 423-7143

CHAIN-OF-CUSTODY RECORD  
AND ANALYSIS REQUEST

28418

3/5

Company Name: Phone #: (510) 671-2387  
 Company Address: See attached FAX #:  
 Project Manager: Client Project ID: (#)  
 (NAME)  
 I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): BRIDGET BAXTER

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix						Method Preserved					Sampling		
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	UNPRESERVED	OTHER (SPECIFY)	DATE	TIME
SB8-5	31	1	X									X			3/23	
SB8-10	32	1														
SB9-5	33	1														
SB9-10	34	1														
SB6-5	27	1													3/24	
SB6-10	28	1														
SB17-5	47	1														
SB14-5	43	1														
SB14-10	44	1														

BTEX/602  8020  with MTBE   
 BTEX/Gas Hydrocarbons PID/FID  with MTBE   
 Hydrocarbons GC/FID Gas  Diesel  Screen   
 Hydrocarbon Profile (SIMDIS)   
 Oil and Grease 413.1  413.2  SM 503   
 TPH/R 418.1  SM 503   
 EDB by 504  DBCP by 504   
 EPA 503.1  EPA 502.2 L   
 EPA 601  EPA 6010   
 EPA 602  EPA 8020   
 EPA 608  8080  PCB only   
 EPA 624/PPL  8240/TAL  NBS (+15)   
 EPA 625/PPL  8270/TAL  NBS (+25)   
 EPA 610  8310   
 EP TOX Metals  Pesticides  Herbicides   
 TCLP Metals  VOA  Semi-VOA  Pest  Herb   
 EPA Metals - Priority Pollutant  TAL  RCRA   
 CAM Metals TLLC  STLIC   
 Lead 239.2  200.7  7420  7421  6010   
 Organic Lead   
 Corrosivity  Flash Point  Reactivity   
 750 4/5

TAT: Priority (24 hr)  Expedited (48 hr)  7 Business Days  Other Standard Business Days   
 Special Handling: GTEL Contact \_\_\_\_\_ Quote/Contract # \_\_\_\_\_ Confirmation # \_\_\_\_\_ PO # \_\_\_\_\_  
 SPECIAL DETECTION LIMITS: \_\_\_\_\_  
 SPECIAL REPORTING REQUIREMENTS: \_\_\_\_\_  
 QA / QC LEVEL: BLUE  CLP  OTHER \_\_\_\_\_  
 SPECIAL DETECTION LIMITS: SPECIAL REPORTING REQUIREMENTS: \_\_\_\_\_  
 Lab Use Only Lot # \_\_\_\_\_ Storage Location: \_\_\_\_\_  
 Work Order # C5030301  
 3 OF 5

<b>CUSTODY RECORD</b>	Relinquished by Sampler: Bridget Baxter	Date: 3/24	Time: 5:45	Received by:
	Relinquished by:	Date:	Time:	Received by:
	Relinquished by:	Date: 3/24	Time: 5:45	Received by Laboratory: Karin M/B



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 (510) 685-7852  
 (800) 423-7143

CHAIN-OF-CUSTODY RECORD  
 AND ANALYSIS REQUEST

28419

415

Company Name: **GTI** Phone #: (510) 671-2387  
 Company Address: *See Attached* Site location:  
 Project Manager: Client Project ID: (#) \_\_\_\_\_

I attest that the proper field sampling procedures were used during the collection of these samples.  
 Sampler Name (Print): **BRIDGET BAXTER**

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix					Method Preserved					Sampling		DATE	TIME	BTEX/602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	BTEX/Gas Hydrocarbons PID/FID <input checked="" type="checkbox"/> with MTBE <input type="checkbox"/>	Hydrocarbons GC/FID Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Screen <input checked="" type="checkbox"/>	Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> SM 503 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/> SM 503 <input type="checkbox"/>	EDB by 504 <input type="checkbox"/> DBCP by 504 <input type="checkbox"/>	EPA 503.1 <input type="checkbox"/> EPA 502.2 <input type="checkbox"/>	EPA 601 <input type="checkbox"/> EPA 8010 <input type="checkbox"/>	EPA 602 <input type="checkbox"/> EPA 8020 <input type="checkbox"/>	EPA 608 <input type="checkbox"/> 8080 <input type="checkbox"/> PCB only <input type="checkbox"/>	EPA 624/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+15) <input type="checkbox"/>	EPA 625/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) <input type="checkbox"/>	EPA 610 <input type="checkbox"/> 8310 <input type="checkbox"/>	EP TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>	EPA Metals - Priority Pollutant <input type="checkbox"/> TAL <input type="checkbox"/> RCRA <input type="checkbox"/>	CAM Metals TLOC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead 239.2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 <input type="checkbox"/>	Organic Lead <input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flash Point <input type="checkbox"/> Reactivity <input type="checkbox"/>
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	UNPRESERVED	OTHER (SPECIFY)																							
SB16-5	46	1	X																																		
SB10-5	35	1	X																																		
SB10-10	36	1	X																																		
SB15-5	45	1	X																																		
SB17-Water	16	4	X					X			X																										
SB16-Water	15	4	X					X			X																										
SB15-Water	14	4	X					X			X																										
SB14-Water	13	4	X					X			X																										
SB6-Water	05	4	X					X			X																										
SB10-Water	09	4	X					X			X																										

TAT:  Priority (24 hr)  Expedited (48 hr)  7 Business Days  Other Standard Business Days

Special Handling: \_\_\_\_\_

SPECIAL DETECTION LIMITS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

SPECIAL REPORTING REQUIREMENTS: \_\_\_\_\_

Lab Use Only Lot #: \_\_\_\_\_ Storage Location: \_\_\_\_\_

QA / QC LEVEL:  BLUE  CLP  OTHER: \_\_\_\_\_

FAX:

Work Order #: **C5030301**

**CUSTODY RECORD**

Relinquished by Sampler: Bridget Baxter Date: 3/24 Time: 5:45

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Received by Laboratory: Kenn Date: 3/24 Time: 5:45

Waybill #: \_\_\_\_\_

PAAT/WK



4080 PIKE LANE, SUITE C  
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CHAIN-OF-CUSTODY RECORD  
AND ANALYSIS REQUEST

28416

5/5

Company Name: GTE Phone #: \_\_\_\_\_  
Company Address: See Attached Site location: \_\_\_\_\_  
Project Manager: \_\_\_\_\_ Client Project ID: (#) \_\_\_\_\_  
(NAME) \_\_\_\_\_  
I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): BRIDGET BAXTER

Field Sample ID	GTEL Lab # (Lab use only)	# Containers	Matrix						Method Preserved					Sampling		BTEX/602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	BTEX/Gas Hydrocarbons PID/FID <input checked="" type="checkbox"/> with MTBE <input type="checkbox"/>	Hydrocarbons GC/FID Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Screen <input checked="" type="checkbox"/>	Hydrocarbon Profile (SIMDIS) <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> SM 503 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/> SM 503 <input type="checkbox"/>	ED8 by 504 <input type="checkbox"/> DBCP by 504 <input type="checkbox"/>	EPA 503.1 <input type="checkbox"/> EPA 502.2 [ <input type="checkbox"/>	EPA 601 <input type="checkbox"/> EPA 8010 <input type="checkbox"/>	EPA 602 <input type="checkbox"/> EPA 8020 <input type="checkbox"/>	EPA 608 <input type="checkbox"/> 8080 <input type="checkbox"/> PCB only <input type="checkbox"/>	EPA 824/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+15) <input type="checkbox"/>	EPA 825/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) <input type="checkbox"/>	EPA 610 <input type="checkbox"/> 8310 <input type="checkbox"/>	EP TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	TCUP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>	EPA Metals - Priority Pollutant <input type="checkbox"/> TAL <input type="checkbox"/> RCRA <input type="checkbox"/>	CAM Metals TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead 200.2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 <input type="checkbox"/>	Organic Lead <input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flash Point <input type="checkbox"/> Reactivity <input type="checkbox"/>
			WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	UNPRESERVED	OTHER SPECIFY	DATE																					
SB11-5	37	1	X											3/24																						
SB11-10	38	1	X																																	
SB12-5	39	1	X																																	
SB12-10	40	1	X																																	
SB13-5	41	1	X																																	
SB13-10	42	1	X																																	
SB11-Water	10	4	X					X			X																									
SB12-Water	11	4	X					X			X																									
SB13-Water	12	4	X					X			X																									
SB17-10	48	1	X					X			X																									

Labco Business Forms - 62

TAT \_\_\_\_\_  
Special Handling \_\_\_\_\_  
SPECIAL DETECTION LIMITS \_\_\_\_\_  
SPECIAL REPORTING REQUIREMENTS \_\_\_\_\_  
FAX

Priority (24 hr)   
Expedited (48 hr)   
7 Business Days   
Other Standard  
Business Days

GTEL Contact \_\_\_\_\_  
Quote/Contract # \_\_\_\_\_  
Confirmation # \_\_\_\_\_  
PO # \_\_\_\_\_

QA / QC LEVEL  
BLUE  CLP  OTHER \_\_\_\_\_

REMARKS \_\_\_\_\_  
Lab Use Only Lot # \_\_\_\_\_ Storage Location: \_\_\_\_\_  
Work Order # C5030301  
5 OF 5

**CUSTODY RECORD**

Relinquished by Sampler: Bridget Baxter  
Relinquished by: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_

Date Time  
3/24 | 15:45

Date Time  
3/24 | 5:43

Received by: \_\_\_\_\_  
Received by: \_\_\_\_\_  
Received by Laboratory: (Kunze Sl.)  
Waybill # \_\_\_\_\_