

Susan L. Hugo
Hazardous Materials Specialist
Alameda County Department
of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Re: 3924 Market Street
Oakland

Dear Ms. Hugo:

Enclosed please find two copies of Groundwater Technology Inc.'s report re the second excavation at the above-referenced property. Please review this report and contact me as soon as possible so that we may discuss.

Very truly yours,

SAN FRANCISCO FRENCH BREAD COMPANY

PETER H. SHER

Vice President/General Counsel

PHS:1m attachment



UNDERGROUND STORAGE TANK
CLOSURE REPORT
FOR THE PROPERTY LOCATED AT
3924 MARKET STREET
OAKLAND, CALIFORNIA

JULY 22, 1991

Prepared for:

Mr. Peter H. Sher San Francisco French Bread Company

7801 Edgewater Drive Oakland, CA 94621 Prepared by:

GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway

Concord, CA 94520

Kenneth P. Johnson

Project Manager/Geologist

Elevin Sullivan

ofessional Engineer

~0**N**b. C46253

R1079A1.KJ (200322) No. 4625,3



FAX: (415) 685-9148

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UNDERGROUND STORAGE TANK CLOSURE REPORT FOR THE PROPERTY LOCATED AT 3924 MARKET STREET OAKLAND, CALIFORNIA

JULY 22, 1991

INTRODUCTION

This <u>Underground Storage Tank Closure Report</u> has been prepared for the San Francisco French Bread Company and presents documentation of the tank-removal procedures, laboratory analytical results and Groundwater Technology, Inc.'s conclusions based on these results for the tank closure conducted at 3924 Market Street in Oakland, California (Figure 1).

BACKGROUND

The site is located in the Alameda Bay Plain Groundwater Basin. Groundwater within the site vicinity occurs in Pleistocene Age alluvial deposits which consist of layers of poorly consolidated to unconsolidated- clay, silt, sand and gravel. Depth-to-groundwater is estimated to be approximately 15-feet below ground surface. (Refer to Groundwater Technology's Phase I Site Audit For The Property Located At 3924 Market Street, Oakland, California, dated March 1991 for more information.) The area around the site is used primarily for commercial and residential purposes. Currently, a commercial bakery building is located at the site. The bakery has not been in operation since 1987.

One, 500-gallon, underground storage tank and a fuel pump were located on the western side of the project site (Figure 2). The underground storage tank was located beneath the sidewalk on the western edge of the property and the fuel pump was located in the wall of the western-most of the five buildings located on the site.



WORK SCOPE

The site work described below includes those work steps required by the Alameda County Health Agency, Department of Environmental Health for closure of the 500-gallon capacity, single-wall, steel storage tank which was located on site.

TANK REMOVAL AND EXCAVATION PROCEDURES

<u>Tank Removal and Excavation</u>. On March 28, 1991, H & H Shipping Service vacuumed out 400 gallons of diesel fuel from the underground storage tank. The storage tank was then rinsed with water in preparation for the excavation.

On March 29, 1991, the storage tank was inerted by Paradiso Construction Co. with 100 pounds of dry ice. Approximately 20 yards of soil were removed to free the tank. The tank was removed from the excavation and was noted as being in "good shape" with no holes observed. The size of the excavation was noted as being approximately 8-feet-wide by 12-feet-long by 9-feet-deep. The product line which extended from the storage tank to the fuel pump was excavated. The product line was noted as being 1.5-inch-diameter by 31-feet-long. Photographs showing the underground storage tank, the product line, the excavation and the excavated soil pile are provided (Appendix A).

<u>Secondary Excavation</u>. On June 21, 1991, Paradiso Construction Co. excavated the backfill and soil from the former tank pit to a depth of 14-feet below grade. Appendix B presents photographs of the excavation. The excavation was backfilled was filled with clean, exported pea gravel. Excavated soil and backfill and are stockpiled on-site.

SOIL SAMPLING AND ANALYSIS PROCEDURES

<u>Tank Removal and Excavation</u>. After removal of the underground storage tank and the associated product line, soil samples were completion from the underlying soils. Two soil samples were collected from the tank pit at depths of 8-feet and 10-feet below grade (soil samples A1 and A2, respectively). One sample (P1) was collected from the product line trench at a depth of 2-feet below grade.



The soil samples were collected by Kaprealian Engineering Inc. in 6-inch-long by 2-inch-diameter brass sample tubes. Upon completion, the ends of the tubes were sealed with aluminum foil and plastic end caps. The sample tubes were then labeled, placed on ice, and transported under Chain-of-Custody Manifest to Sequoia Analytical for laboratory analyses.

Each of the samples collected was analyzed for the presence of benzene, toluene, ethylbenzene, xylenes (BTEX), and total petroleum hydrocarbon (TPH)-as-gasoline using Environmental Protection Agency (EPA) Methods 5030/8015/8020 and for TPH-as-diesel fuel using EPA Methods 3550/8015.

<u>Secondary Excavation</u>. Following excavation of backfill and soil, five soil samples were collected. Four sidewall samples were taken from 12- to 13-feet below grade, and one sample was taken from the bottom of the excavation at a depth of 14-feet.

The soil samples were collected in 2-inch-diameter by 6-inch-long brass tubes which were sealed with aluminum foil, plastic caps, and duct tape. The sample tubes were then labeled, placed on ice for delivery to GTEL Environmental Laboratories, Inc. for analyses accompanied by Chain-of-Custody Manifests. The soil samples were analyzed for the presence of BTEX and TPH-as-gasoline using EPA Methods 5030/8015/8020 and for TPH-as-diesel using EPA Methods 3550/8015.

RESULTS

The laboratory analytical reports for the March 29, 1991 samples, show the presence of concentrations of BTEX and TPH-as-gasoline in each of the three soil samples. Concentrations of TPH-as-diesel fuel were detected in two of the three soil samples, while the third sample (P1) showed that no TPH-as-diesel fuel concentrations were detectable. The highest concentration of TPH-as-gasoline was reported at 26 parts per million (ppm) for sample A2 collected at 10-feet below grade from the tank pit. The highest concentration of benzene was reported at 0.30 ppm for sample A1 collected at 8-feet below grade. The highest concentration of TPH-as-diesel was reported at 4.7 ppm for sample A2.

The soil sample locations are shown on Figure 2. A summary of the laboratory analytical results is provided in Table 1. Copies of the actual laboratory reports are provided in Appendix C.



The laboratory results from the analyses of the samples collected June 21, 1991 show the presence of BTEX and TPH-as-gasoline in all five samples. No detectable concentrations of TPH-as-diesel were present in any of the soil samples. The highest concentrations of BTEX and TPH-as-gasoline were reported in sample I-13, taken from the north sidewall at 13-feet below grade, and from sample D-14, taken from the bottom of the north end of the excavation at 14-feet below grade.

The soil sample locations are shown on Figure 3. Table 2 presents the analytical results. Copies of the actual laboratory reports are provided in Appendix C.

CONCLUSIONS

Groundwater Technology has conducted a review of the known site conditions, as well as a review of the "Tri-Regional Board Staff Recommendations For Preliminary Evaluation and Investigation of Underground Tank Sites," dated August 10, 1990, and has drawn the conclusions provided below.

The field observations by Groundwater Technology indicate that the 500-gallon fuel-storage tank had no visible holes. The laboratory results from the March 29, 1991, soil samples showed low levels of TPH-as-gasoline and TPH-as-diesel from 8 and 10 feet below grade. The laboratory results from the June 21, 1991, excavation showed higher concentrations of TPH-as-gasoline, and no detectable concentrations of TPH-as-diesel. The highest concentration was found in sample I-13 which was collected from the north sidewall at 13-feet below grade. The sample, D-14, taken from the bottom of the north end of the excavation, showed concentration of 150 ppm of TPH-as-gasoline, indicating the presence of adsorbed gasoline constituents. The analytical results indicate that the dieselimpacted soil has been removed.

CLOSURE

Groundwater Technology would like to thank the San Francisco French Bread Company for this opportunity to be of service. If there are any questions or comments, please contact our Concord office at (415) 671-2387.



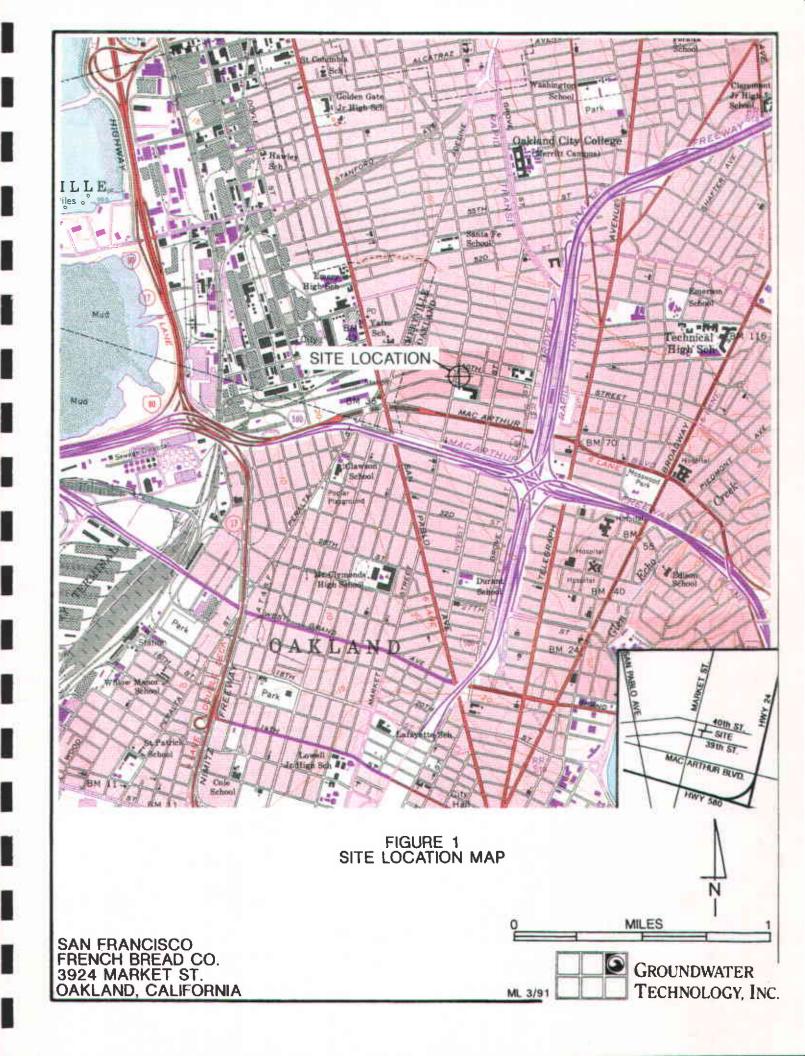
LIST OF FIGURES

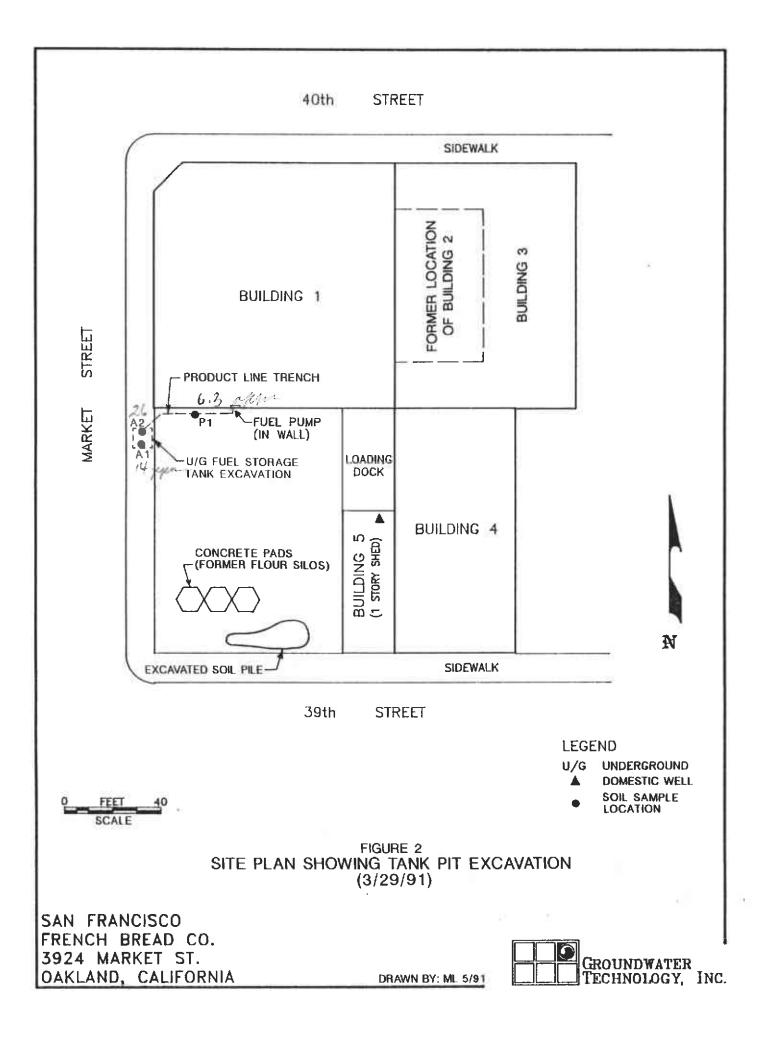
FIGURE 1 SITE LOCATION MAP

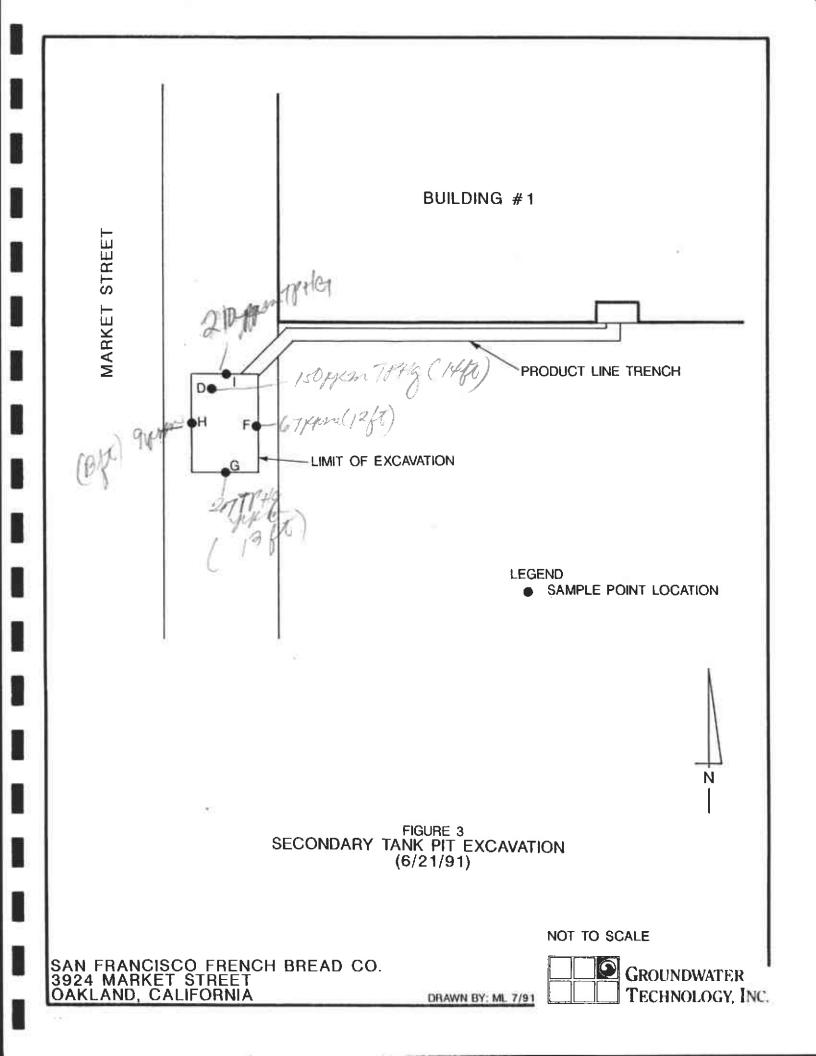
FIGURE 2 SITE PLAN SHOWING TANK PIT EXCAVATION (3/29/91)

FIGURE 3 SECONDARY TANK PIT EXCAVATION (6/21/91)









LIST OF TABLES

TABLE 1	ANALYTICAL RESULTS OF SOIL SAMPLES (3/29/91)
TABLE 2	ANALYTICAL RESULTS OF SOIL SAMPLES (6/21/91



TABLE 1 RESULTS OF SOIL SAMPLES COLLECTED MARCH 29, 1991 (Results in parts per million)

SAMPLE ID	DEPTH (ft)	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TPH-AS- GAS	TPH-AS- DIESEL FUEL
A1	8	0.30	0.12	0.14	0.40	14	1.0
A2	10	0.28	0.24	0.19	0.20	26	4.7
P1	2	0.20	0.11	0.042	0.012	6.3	<1.0

TABLE 2 - RESULTS OF SOIL SAMPLES COLLECTED JUNE 21, 1991 (Results in parts per million)

SAMPLED ID	DEPTH (ft)	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TOTAL	TPH-AS- GASOLINE	TPH- AS- DIESEL
D-14	14	<0.005	0.2	0.51	2	3	(150)	<10
F-12	12	0.03	0.13	0.27	0.75	1	67	<10
G-13	13	0.01	0.04	0.1	0.27	0.42	27	<10
H-13	13	0.01	0.02	0.04	0.08	0.15	9	<10
I-13	13	0.4	0.6	1	2	4	210	<10

APPENDIX A

PHOTOGRAPHS OF TANK REMOVAL AND EXCAVATION (3/28, 3/29/91)







PHOTOGRAPHS 1 AND 2. PREPARING 550-GALLON FUEL STORAGE TANK FOR REMOVAL FROM THE TANK PIT



GROUNDWATER TECHNOLOGY, INC.



PHOTOGRAPH 3. STORAGE TANK REMOVED FROM THE TANK PIT



PHOTOGRAPH 4. EXCAVATION OF THE PRODUCT LINE





PHOTOGRAPH 5. BOTTOM OF TANK PIT AFTER TANK WAS REMOVED



PHOTOGRAPH 6. EXCAVATED SOILS COVERED WITH VISQUEEN



APPENDIX B

PHOTOGRAPHS OF EXCAVATION (6/21/91)





PHOTOGRAPH 7. SECONDARY EXCAVATION (11.5 FEET BELOW GRADE)



PHOTOGRAPH 8. SECONDARY EXCAVATION (14 FEET BELOW GRADE)



APPENDIX C

LABORATORY REPORTS



SEQUOIA ANALYTICA

1900 Bates Avenue . Suite LM . Concord, California 94520 (415) 686-9600 • FAX (415) 686-9689

A CONTRACTOR OF THE PROPERTY O Kapreallan Engineering, Inc. ₽P.O. Box 996

Client Project ID: Matrix Descript:

Paradiso, 3924 Market St., Oakiand Soli

Sampled: Received:

Mar 29, 1991g

Benicia, CA 94510

Analysis Method:

EPA 5030/8015/8020

Analyzed:

Apr 1, 19919 Apr 11, 1991

Attention: Mardo Kaprealian, P.E.

First Sample #:

104-0036

Reported:

Apr 16, 1991∰

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
104-0036	Aı	14	0.30	0.12	0 14	0.40
104-0037	A2	26	0.29	0.24	0 19	0.20
104-0038	P1	6.3	0.20	0.11	0.042	0.012

Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

to Medium Bailing Point Hydrocarbons are quantitated against a gasoline standard. slytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520 (415) 686-9600 • FAX (415) 686-9689

Kapresilan Engineering, Inc.

∄P.O. Box 996

Benicla, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Paradiso, 3924 Market St., Oakland

Matrix Descript:

Analysis Method:

First Sample #:

EPA 3550/8015 104-0036

Soil

Sampled:

Mar 29, 1991 Apr 1, 1991

Received: Extracted:

Apr 9, 1991

Analyzed: Reported:

4/11-4/12/91 Apr 16, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Semple Number	Şamplə Description	High B.P. Hydrocarbons mg/kg (ppm)
104-0036	A1	1.0
104-0037	A2	4.7
104-0038	P1	N.D.

Detection Limits;

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega Laboratory Director

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

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Client Number: 020501079 Project ID: 3924 Market St. Oakland, CA Work Order Number: C1-06-556

July 8, 1991

Northwest Region 4080-C Pike Lane Concord, CA 94520

(415) 685-7852 (800) 544-3422 from inside California (800) 423-7143 from outside California

(415) 825-0720 (FAX)

Ken Johnson Groundwater Technology, Inc. 4057 Port Chicago Hwy. Concord, CA 94520

Enclosed please find the analytical results report prepared by GTEL for samples received on 06/21/91, under chain of custody number 72-5583.

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

A formal quality control/quality assurance program is maintained by GTEL', which is designed to meet or exceed the EPA requirements. Analytical work for this project was performed in strict adherence to our QA/QC program to ensure sample integrity and to meet quality control criteria.

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.

Emma P. Popek

Laboratory Director

Client Number: 020501079 Project ID:

3924 Market St.

Oakland, CA Work Order Number: C1-06-556

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		01	02	03	04	
Client Identification		D-14	F-12	G-13	H-13	
Date Sampled		06/21/91	06/21/91	06/21/91	06/21/91	
Date Extracted		07/03/91	07/05/91	07/03/91	07/03/91	
Date Analyzed		07/05/91	07/03/91	07/03/91	07/03/91	
Detection Limit, Analyte mg/Kg Concentration, mg/Kg						
Benzene	0.005	<0.005	0.03	0.01	0.01	
Toluene	0.005	0.2	0.13	0.04	0.02	
Ethylbenzene	0.005	0.51	0.27	0.1	0.04	
Xylene, total	0.015	2	0.75	0.27	0.08	
BTEX, total		3	1	0.42	0.15	
TPH as Gasoline	1	150	67	27	9	
Detection Limit Multiplier		1	1	1	1	
Percent solids		68	67	63	63	

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 Control Board LUFT Manual protocols, May 1988 revision. Results reported on a wet weight basis.



Client Number: 020501079

Project ID: 3924 Market St. Oakland, CA Work Order Number: C1-06-556

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number	•	05			
Client Identification	l-13				
Date Sampled		06/21/91			
Date Extracted		07/03/91			
Date Analyzed	Date Analyzed				<u></u>
Analyte	Detection Limit, mg/Kg		Concentration	on, mg/Kg	
Benzene	0.005	0.4			
Toluene	0.005	0.6			
Ethylbenzene	0.005	1			
Xylene, total	0.015	2			:
BTEX, total		4			
TPH as Gasoline	1	210			
Detection Limit Multiplier		1			
Percent solids		71			

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 Control Board LUFT Manual protocols, May 1988 revision. Results reported on a wet weight basis.





Client Number: 020501079 Project ID: 3924 Market St. Oakland, CA Work Order Number: C1-06-557

ATORIEO, ING.

Northwest Region

4080-C Pike Lane Cancord, CA 94520 (415) 685-7852 (800) 544-3422 from inside California (800) 423-7143 from outside California (415) 825-0720 (FAX)

July 1, 1991

Ken Johnson Groundwater Technology, Inc. 4057 Port Chicago Hwy. Concord, CA 94520

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

A formal quality control/quality assurance program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project was performed in strict adherence to our QA/QC program to ensure sample integrity and to meet quality control criteria.

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.

mnia P. Popure

Emma P. Popek

Laboratory Director

Client Number: 020501079
Project ID: 3924 Market St.
Oakland, CA
Work Order Number: C1-06-557

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Diesel Fuel in Soil

Modified EPA Methods 3550/8015^a

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a wet weight basis.

reported on a wet weight basis.							
GTEL Sample Number		01	02	03	04		
Client Identification		D-14	F-12	G-13	H-13		
Date Sampled		06/21/91	06/21/91	06/21/91	06/21/91		
Date Extracted	06/25/91	06/25/91	06/25/91	06/25/91			
Date Analyzed	06/26/91 06/26/91 06/26/91 06/26/						
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg					
TPH as diesel fuel	10	<10	<10	< 10	< 10		
Detection Limit Multiplier		1	1	1	1		
Percent solids		68 67 63 63					

GTEL Sample Number		05			
Client Identification		l-13			
Date Sampled		06/21/91			
Date Extracted		06/25/91			
Date Analyzed		06/26/91			
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as diesel fuel	10	<10		Ì	
Detection Limit Multiplier	•	1			
Percent solids		71			



GTEL 4080- Pike Lane Concord, CA 94520	800-544-3422 (In CA)	CHAIN-OF-CUSTODY RECORD 72-5583	CUSTODY RECORD
ENVIRONMENTAL 415-685-7852	800-423-7143 (Outside CA)	ANALYSIS REQUEST ((2)
I attest that the proper field sampling procedures were used during the collection of these samples.	Phone #: FAX #: Site location: Crikland, (A 3/124 Market Street Project Name:	BTEX 602 C 8020 With MTBE C BTEX/TPH Gas 602/8015 C 8020/8015 D MTBE C TPH as C Gas X Diesel C Jet Fue! Product I.D. by GC (SIMDIS) C 503A C Total Oil & Grease: 413.1 C 413.2 C 503A C Total Petroleum Hydrocarbons: 418.1 C 503E C EPA 602 C 8020 C C 8020 C EPA 602 C 8020 C C EPA 603 C C 8020 C C EPA 603 C C 8020 C C EPA 603 C C 8020 C C C C R 603 C C C C C C C C C C C C C C C C C C C	Received by: Received by Laboratory: Way bill #
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