DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621 (415) 271-4320

November 8, 1989

Francis Hedrick Barghausen Engineering 3750 Auburn Blvd. Suite A Sacramento, Ca. 95821

RE: Information of Underground Tank Removal and Installation

Dear Francis:

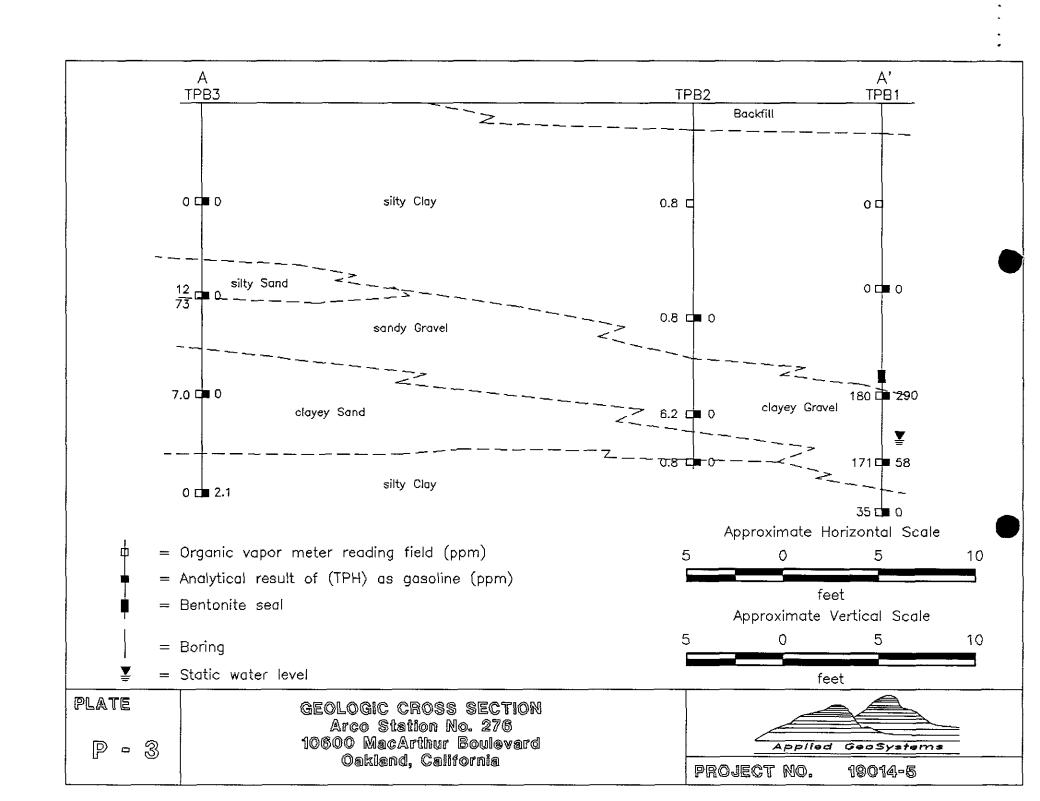
Enclosed is the information you need for the removal and installation of the underground tanks for the Arco Station, 10600 Macarthur Blvd., Oakland, 94605. Also enclosed is the form for tank leakage before or during removal of any or all tanks on site. The permit forms for new underground tank installation is as follows, $Form \ A$ is for the site information, $Form \ B$ is to register each tank being installed.

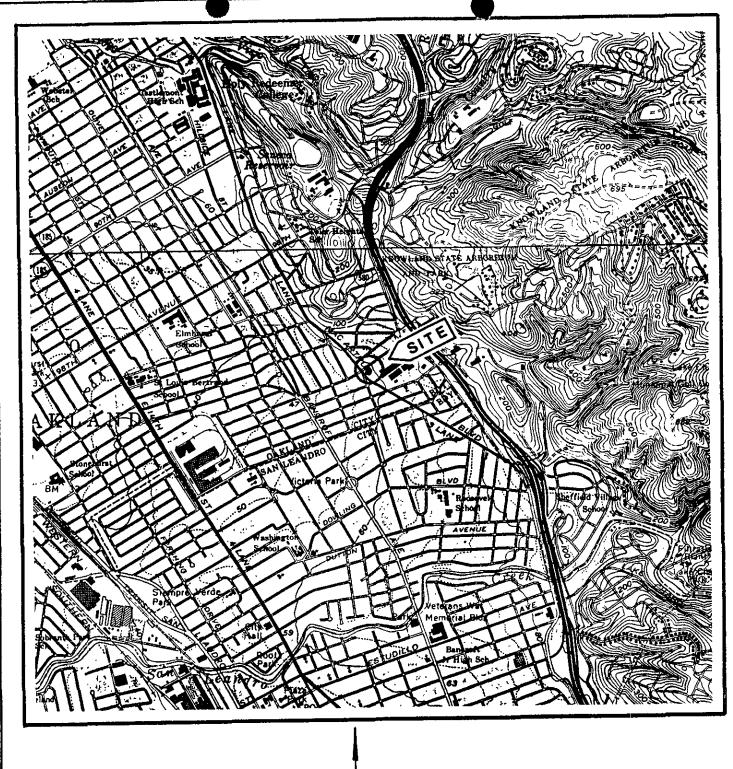
If you have any questions, please contact Ariu Levi at 271-4320.

Sincerely,

Paul Haworth

cc: Ariu Levi

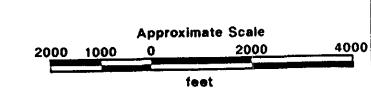




Source: U.S. Geological Survey 7.5-Minute Quadrangle Oakland East/San Leandro

California

Photorevised 1980



Applied GeoSystems

SITE VICINITY MAP ARCO Station No. 276 10600 MacArthur Boulevard Oakland, California

PLATE

PROJECT NO. 19014-5

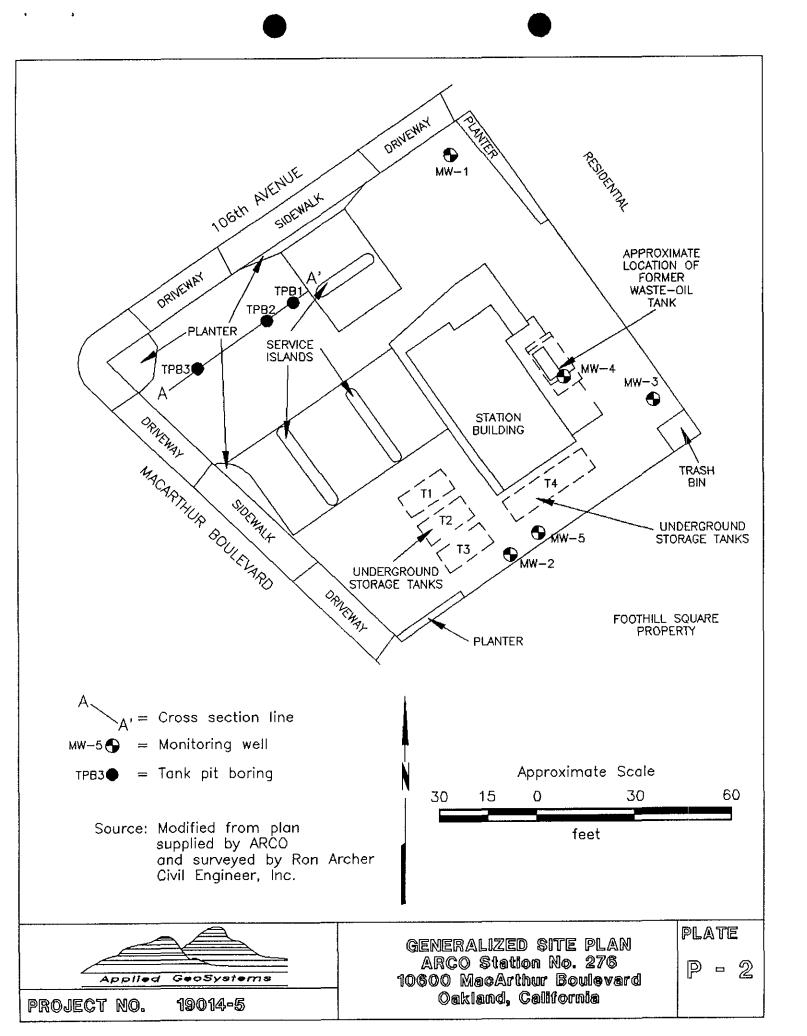


TABLE 1 RESULTS OF ANALYSIS OF SOIL SAMPLES ARCO Station No. 276 10600 MaCarthur Boulevard Oakland, California

Sample Number	ТРНд	Benzene	Toluene	Ethyl- benzene	Xylenes
1/31/90					
S-9.5-TPB1	<2.0	<0.050	<0.050	<0.050	<0.050
S-15-TPBl	290	0.19	0.47	3.3	6.6
S-18.5-TPB1	58	<0.050	0.069	0.14	0.22
S-21-TPB1	<2.0	<0.050	<0.050	<0.050	<0.050
S-11-TPB2	<2.0	<0.050	<0.050	<0.050	<0.050
S-16-TPB2	<2.0	<0.050	<0.050	<0.050	<0.050
S-18.5-TPB2	<2.0	<0.050	<0.050	<0.050	<0.050
2/6/90					
S-5-TPB3	<2.0	<0.050	<0.050	<0.050	<0.050
S-10-TPB3	<2.0	0.075	<0.050	<0.050	<0.050
S-15-TPB3	<2.0	<0.050	<0.050	<0.050	<0.050
S-20-TPB3	2.1	0.46	<0.050	0.086	<0.050

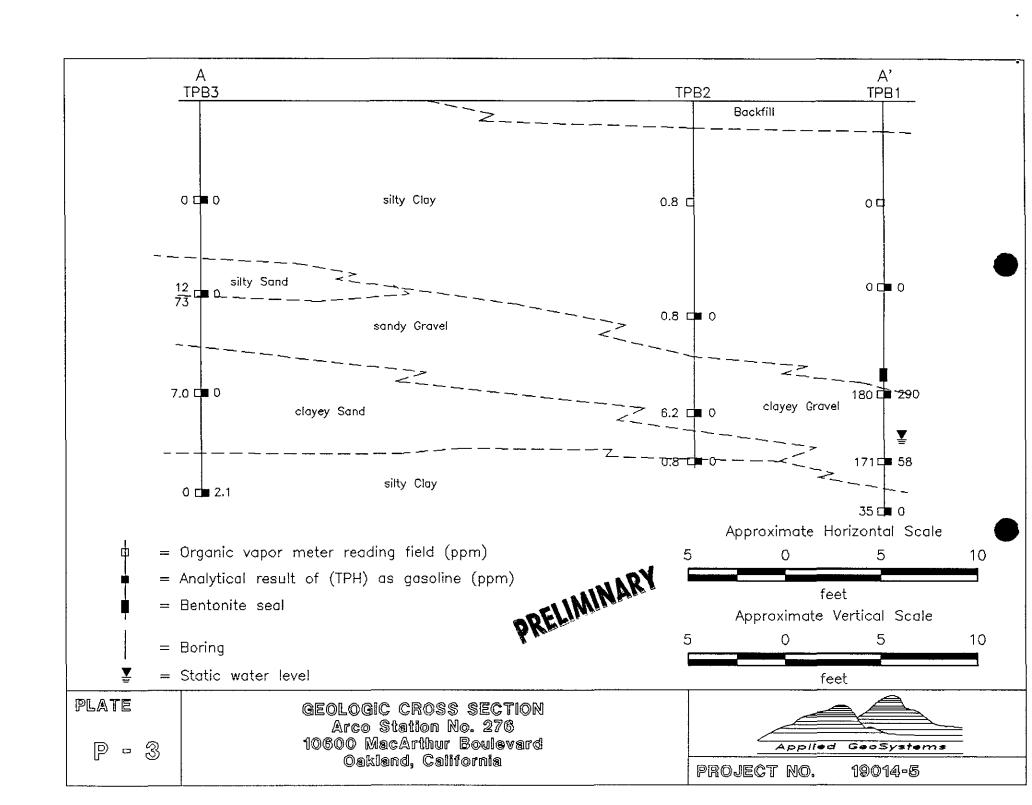
Results in milligrams/kilogram (mg/kg) = parts per million (ppm)
TPHg = Total petroleum hydrocarbons

< = Less than method detection limit</pre>

Sample designation: S-11-TPB1

borehole number
depth of sample in feet
soil sample





CHAN OF CUSTODY RESORD

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SAMPLER (signat	nurei:		200	Applied	d GeoSyste	ms	
Mente	3/ John	100					
Phone 4/5	-651-1906	<u> </u>		43255 Mission Blva Suite B		s39 415165	1-1906
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AGS				Shipper			
				Address			
				Date Shipped			
TURNAROUND T	rime: <u>24</u>	hr.		Service Used			
I UNIVARIOUS I	Bill Howe	//		Airbill No	Cooler No), <u> </u>	
Project Leader:	15-651-190	26					
			Pege	ived by: (signatures)		Date	Time
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Sample	Site	Date Sampled	RATOR	Y RESULTS Analyses Requested	Samp	ie Conditi on Receipt	on
No.		1/31/91		V /	ice	Q	
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Applied GeoSystems

Suite B Fremont, CA 94539 (415) 651-1906 43255 Mission Blvd.

ANALYSIS REPORT

1020lab.frm

Mr. Bill Howell Attention:

Applied GeoSystems

43255 Mission Boulevard

Fremont, CA 94539

Project:

AGS 19014-5

Date Sampled:

01-31-90

Date Received: BETX Analyzed: 01-31-90

TPHg Analyzed:

01-31-90

TPHd Analyzed:

01-31-90 NR

Matrix

Soil

Detection Limit:	Benzene ppm 0.050	Toluene ppm 0.050	Ethyl- benzene <u>ppm</u> 0.050	Total Xylenes ppm 0.050	TPHg <u>ppm</u> 2.0	TPHd ppm 10
SAMPLE Laboratory Identificat	ion					
S-9.5-TPB1 S1001201	ND	ND	ND	ND	ND	NR
S-15-TPB1 S1001202	0.19	0.47	3.3	6.6	290	NR
S-18.5-TPB1 S1001203	ND	0.069	0.14	0.22	58	NR
S-21-TPB1 S1001204	ND	ND	ND	ND	ND	NR
S-11-TPB2 S1001205	ND	ND	ND	ND	ND	NR
S-16-TPB2 S1001206	ND	ND	ND	ND	ND	NR

ANALYTICAL PROCEDURES

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high be ling points) are measured by extraction using EPA Method 3550 for soils and EPA Method-3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

02-01-90 Date Reported

ppm = parts per million = mg/kg = milligrams per kilogram.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.



43255 Mission Blvd

Suite B

Fremont, CA 94539

(415) 651-1906

ANALYSIS REPORT

1020lab.frm

Attention:

Mr. Bill Howell

Date Sampled:

01-31-90

Applied GeoSystems

Date Received:

01-31-90

43255 Mission Boulevard Fremont, CA 94539

BETX Analyzed:

01-31-90

TPHg Analyzed: TPHd Analyzed: 01-31-90

Project:

NR Soil

AGS 19014-5

Matrix

Detection Limit:

Toluene Benzene ppm ppm 0.050 0.050

Ethylbenzene ppm 0.050

Xylenes ppm 0.050

Total

TPHg ppm 2.0

TPHd ppm

10

SAMPLE

Laboratory Identification

S-18.5-TPB2 S1001207

ND

ND

ND

ND

ND

NR

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TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

02-01-90 Date Reported

APPLIED GEOSYSTEMS IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 153)

CHAIN OF CUSTODY RECORD

			(C)OPY =	
SAMPLER (signa	ature):		Applie	ed GeoSystems
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LABORATORY:	5 Leb.		Shipper	
	5 Les.		Address	
			Date Shipped	
	244		Service Used	
	TIME: 29 11			Cooler No
Project Leader:			Airbill No.	COOIGI NO.
Phone No				Date Time
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Rills	Laser II			
				
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		1	Received for laboratory by.	2-6-90 1220
Sample	Site Identification	Date Sampled	Analyses	Sample Condition Upon Receipt
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5-10. 18B3		- 19/	1919	
5-15-TPB3		''		Vm4
5-20-TPB3	KM1	AAA	<u>h intl</u>	RIPICA
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Applied GeoSystems

(415) 651-1906 Fremont, CA 94539 Suite B 43255 Mission Blvd.

ANALYSIS REPORT

1020lab.frm

Mr. Bill Howell Attention:

Applied GeoSystems 43255 Mission Boulevard

Fremont, CA 945 9

Project:

AGS 19014-5

Date Sampled:

02-06-90

Date Received:

02-06-90

BETX Analyzed: TPHg Analyzed:

02-06-90

TPHd Analyzed:

02-06-90 NR

Matrix

Soil

Detection Limit:	Benzene ppm 0.050	oluene <u>ppm</u> 050	Ethyl- benzene ppm 0.050	Total Xylenes <u>ppm</u> 0.050	TPHg ppm 2.0	TPHd ppm 10
SAMPLE Laboratory Identificat	ion					
S-5-TPB3 S1002032	ND	.γD	ND	ND	ND	NR
S-10-TPB3 S1002033	0.075	ND	ND	ND	ND	NR
S-15-TPB3 S1002034	ND	ND	ND	ND	ND	NR
S-20-TPB3 S1002035	0.46	ND	0.086	ND	2.1	NR

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-cm 6 Laboratory Representative

02-07-90 Date Reported

ppm = parts per million = mg/kg = milligrams per kilogram.

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NR = Analysis not requested.