

November 2, 2000

Mr. Sai Itula  
First Samoan Congregational Church  
1911 Everett Street  
Alameda, California 94501

RE: Subsurface Site Assessment Letter Report  
2526 Blanding Avenue, Alameda, California  
*ACC Project No. 00-6659-001.00*

Dear Mr. Itula:

This letter report presents results of recent subsurface site assessment performed by ACC Environmental Consultants, Inc. (ACC), at 2526 Blanding Avenue, Alameda, California (Figure 1). The goals of the work performed were: to characterize any impact to soil and groundwater at the subject site due to the documented release from the former underground storage tank (UST); to identify and classify subsurface materials to characterize migration potential; and to obtain sufficient information to justify regulatory case closure. ACC believes all three goals were accomplished.

## **BACKGROUND**

ACC oversaw excavation and removal of the former 280-gallon heating fuel UST in August 2000. Confirmation soil samples collected below the UST reported up to 680 parts per million (ppm) total petroleum hydrocarbons as kerosene, and up to 9.9 ppm benzene. Based on these analytical results and on field observations, ACC returned to the site to remove approximately 8 cubic yards of impacted soil between 5.5 and 7.5 feet below ground surface (bgs). Based on this work summarized in ACC's September 11, 2000 *Underground Storage Tank Closure Report*, Ms. Eva Chu of the Alameda County Health Care Services Agency (ACHCSA) requested that additional subsurface investigation be performed.

## **SOIL SAMPLING**

Field work was performed on October 13, 2000. ACC advanced three continuous soil borings (B1 through B3) to depths up to 14 feet below ground surface (bgs) for visual observation of subsurface materials and collection of soil and grab groundwater samples. Soil borings B1 and B2 were advanced adjacent to the former UST excavation to depths of 12 and 10 feet bgs respectively, and boring B3 was advanced approximately 9 feet in the presumed downgradient direction to a depth of 14 feet bgs. Soil boring locations are illustrated on Figure 2.

The borings were drilled using a pneumatic direct-push sampling tool equipped with 1 0-inch inside-diameter clear acetate liners. Soil borings B1 and B2 were cored continuously in 2-foot drives from 4 to 12 and 10 feet bgs, respectively. Upon removal from the sampling probes, each soil core was logged and inspected for lithologic variations by an ACC geologist.

Soil samples selected for analysis were capped with Teflon tape and plastic end caps. Grab groundwater samples were collected in laboratory-supplied containers with the use of precleaned stainless steel bailers attached to new string. Upon collection, all samples were labeled and immediately placed in a pre-chilled insulated container pending transport to Chromalab, Inc. (Chromalab), a state-certified analytical laboratory. Soil and grab groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Methods 8015 Modified and 8020, and for total extractable petroleum hydrocarbons (TEPH) as kerosene by EPA Method 8015 Modified.

**ANALYTICAL RESULTS**

No gasoline or BTEX constituents were reported above laboratory reporting limits in either of the two soil samples analyzed. Kerosene was reported at a concentration of 1.7 ppm in the sample from soil boring B2. Grab groundwater analytical results reported a concentration of 72 parts per billion (ppb) TPHg in the grab groundwater sample collected from boring B3, and kerosene was reported at a concentration of 150 ppb. No BTEX constituents were detected above laboratory reporting limits in any of the soil or grab groundwater samples. Analytical results are summarized in Tables 1 and 2, and copies of laboratory reports and the chain of custody record are attached.

**TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS**

Sample ID	TEPH as Kerosene (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
B1-10.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
B2-8.0	1.7 <sup>nkp</sup>	<1.0	<0.005	<0.005	<0.005	<0.005

Notes: mg/kg = milligrams per kilogram (equivalent to ppm)  
 < Indicates sample tested below the specified laboratory detection limit  
 nkp Indicates that the hydrocarbon reported does not match the laboratory's kerosene standard

**TABLE 2 - GRAB GROUNDWATER SAMPLE ANALYTICAL RESULTS**

Sample ID	TEPH as Kerosene (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
B1-W	<110	<50	<0.50	<0.50	<0.50	<0.50
B3-W	150 <sup>nkp</sup>	72 <sup>g</sup>	<0.50	<0.50	<0.50	<0.50

Notes: µg/L = micrograms per liter (equivalent to ppb)  
 < Indicates sample tested below the specified laboratory detection limit  
 nkp Indicates that the hydrocarbon reported does not match the laboratory's kerosene standard  
 g Indicates that the hydrocarbon reported does not match the laboratory's gasoline standard

## **SUBSURFACE CONDITIONS**

The soil observed within soil borings B1 and B2 consisted primarily of brown to reddish brown silt to 4 to 5 feet bgs, underlain by silty sand to the total depth of the soil borings. Soils encountered in soil borings B1 and B2 contrasted slightly with soils encountered in the former open tank excavation. In the former tank excavation, soil rapidly transitioned from sand into clay with minor amounts of sand at approximately 8 feet bgs. In borings B1 and B2, no petroleum hydrocarbon odors were noted in soil or groundwater and approximately one inch of light green soil discoloration was noted in soil boring B2 at 8.0 feet bgs.

As anticipated, groundwater was encountered at approximately 11 feet bgs in soil boring B1. The water was silty and highly turbid. Sufficient volume was present in soil boring B1 to collect a grab sample. Boring B3 was advanced for the sole purpose of collecting a grab groundwater sample in the estimated downgradient direction. Boring B3 was advanced to 14 feet bgs in an attempt to obtain a less turbid sample; however, groundwater clarity did not improve.

## **DISCUSSION**

Soil boring locations were chosen to be representative of subsurface conditions in the vicinity of and downgradient from the former UST excavation. Soil samples were collected from intervals believed to exhibit the highest degree of potential residual impact from the prior documented release in order to characterize worst-case conditions. Grab groundwater samples collected approximately 8 feet away on two sides of the former tank excavation are believed to be highly representative of ambient groundwater conditions in the vicinity of the former UST.

Soil sample analytical results reported only residual concentrations of kerosene (1.7 ppm), suggesting that previous overexcavation has successfully removed the majority of impacted soil. The residual concentration of kerosene is well below applicable action levels, and can be expected to degrade naturally with time. Grab groundwater sample analytical results reported concentrations of 150 ppb kerosene and 72 ppb TPHg. Both concentrations were flagged by Chromalab as not matching the laboratory's standard, and ACC believes that the TPHg concentration is anomalous and does not actually represent gasoline. Fuel oxygenates by EPA Method 8260 were not run because there were no detectable gasoline constituents in groundwater, and no fuel oxygenates were reported in the soil sample collected during the August 2000 UST removal that contained the highest concentration of BTEX constituents. The reported kerosene concentration of 150 ppb is below applicable action levels, and can be expected to degrade naturally.

All subsurface investigation data collected to date, including data obtained during the tank removal, indicate that impacts to soil under the UST were likely due to overspillage. The kerosene UST did not appear to be the source. Impacted soil and groundwater are localized around the immediate area of the former UST and current minor residual concentrations do not warrant any additional site investigation. ACC believes the site should be evaluated for immediate regulatory closure.

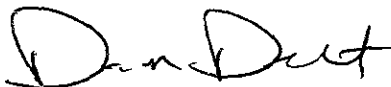
## CONCLUSIONS

Based on field work performed and soil sample analytical results, ACC concludes:

- Kerosene impact to soil has been verified to be minor and residual levels of kerosene will naturally degrade without significantly impacting groundwater;
- Kerosene impacted soil has largely been remediated through overexcavation and future potential impact to groundwater has been reduced significantly;
- Kerosene impact to groundwater is minor and localized to the immediate area of the former UST;
- Reportable concentrations of BTEX were not detected in groundwater and chromatograms did not indicate the presence of MTBE or other fuel oxygenates;
- Analytical reports note that residual concentrations of kerosene are degraded, indicating that no significant source is present and that natural attenuation processes are active;
- Additional site investigation or remediation is not warranted; and
- The site should be evaluated for immediate regulatory closure.

If you have any questions regarding this letter or the findings of the work, please contact me at (510) 638-8400, ext. 109.

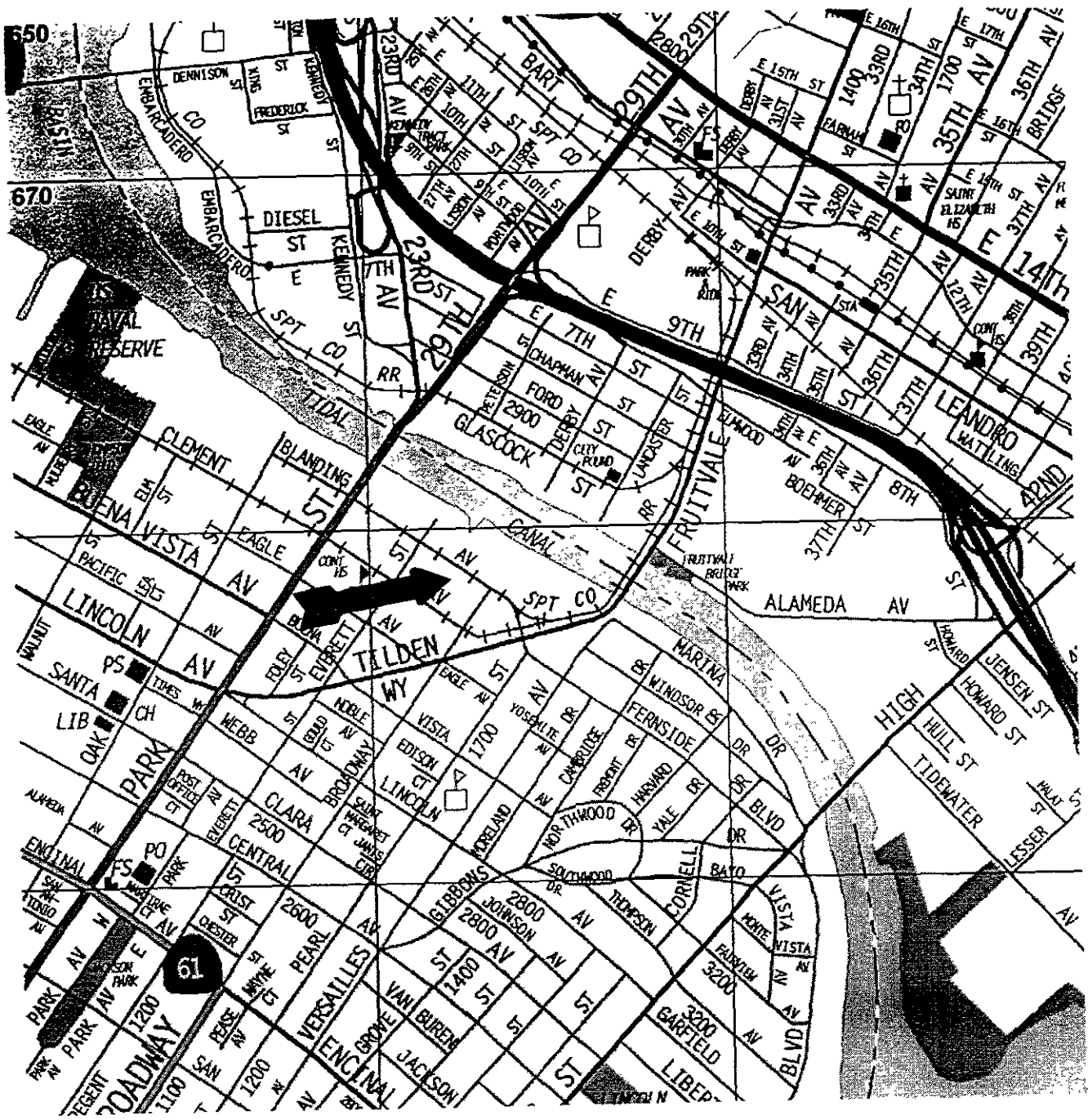
Sincerely,



David DeMent, RG  
Environmental Division Manager

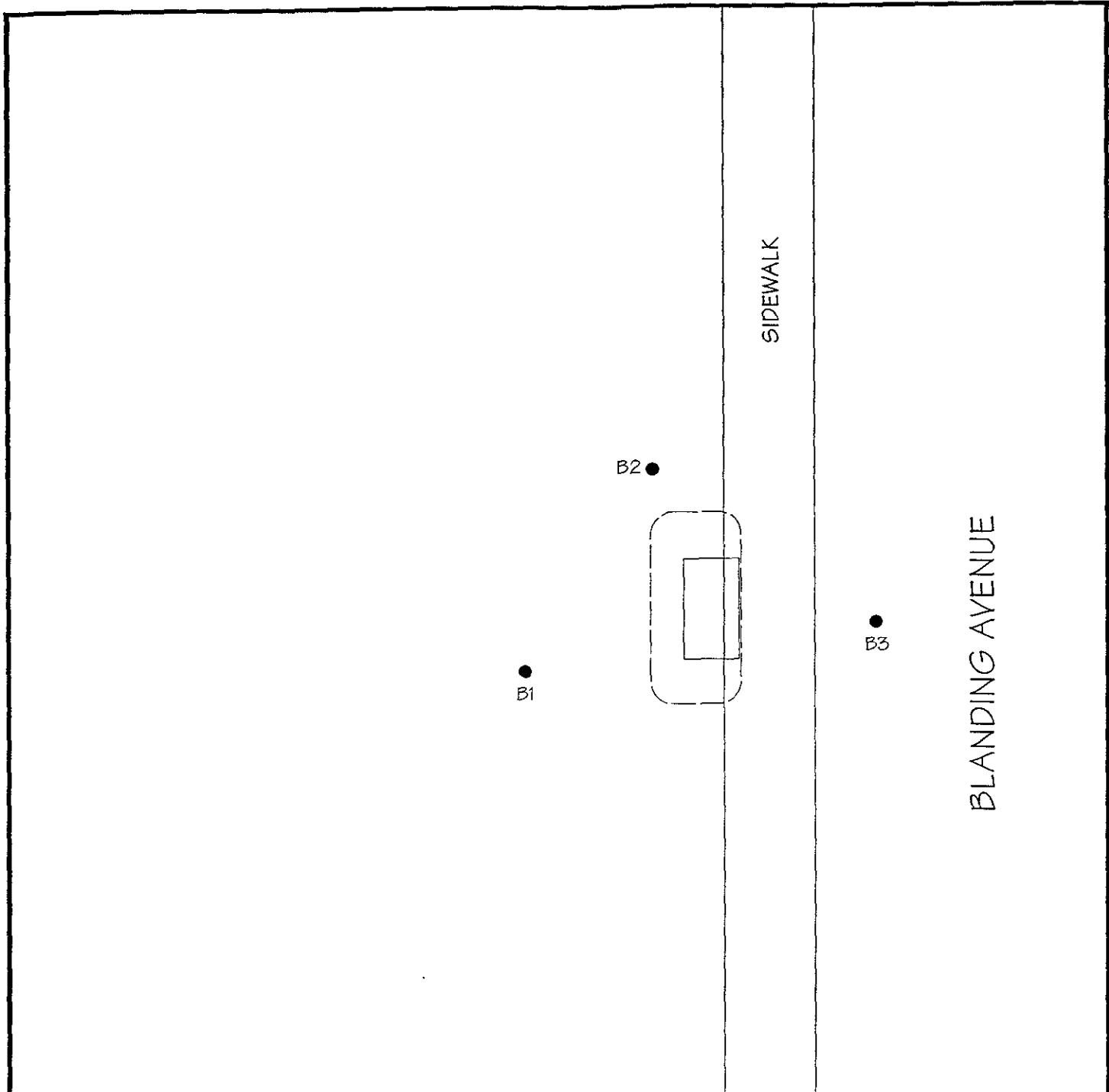
Attachments

/nhd:drd



Source: Thomas Guide CD-ROM, 1997

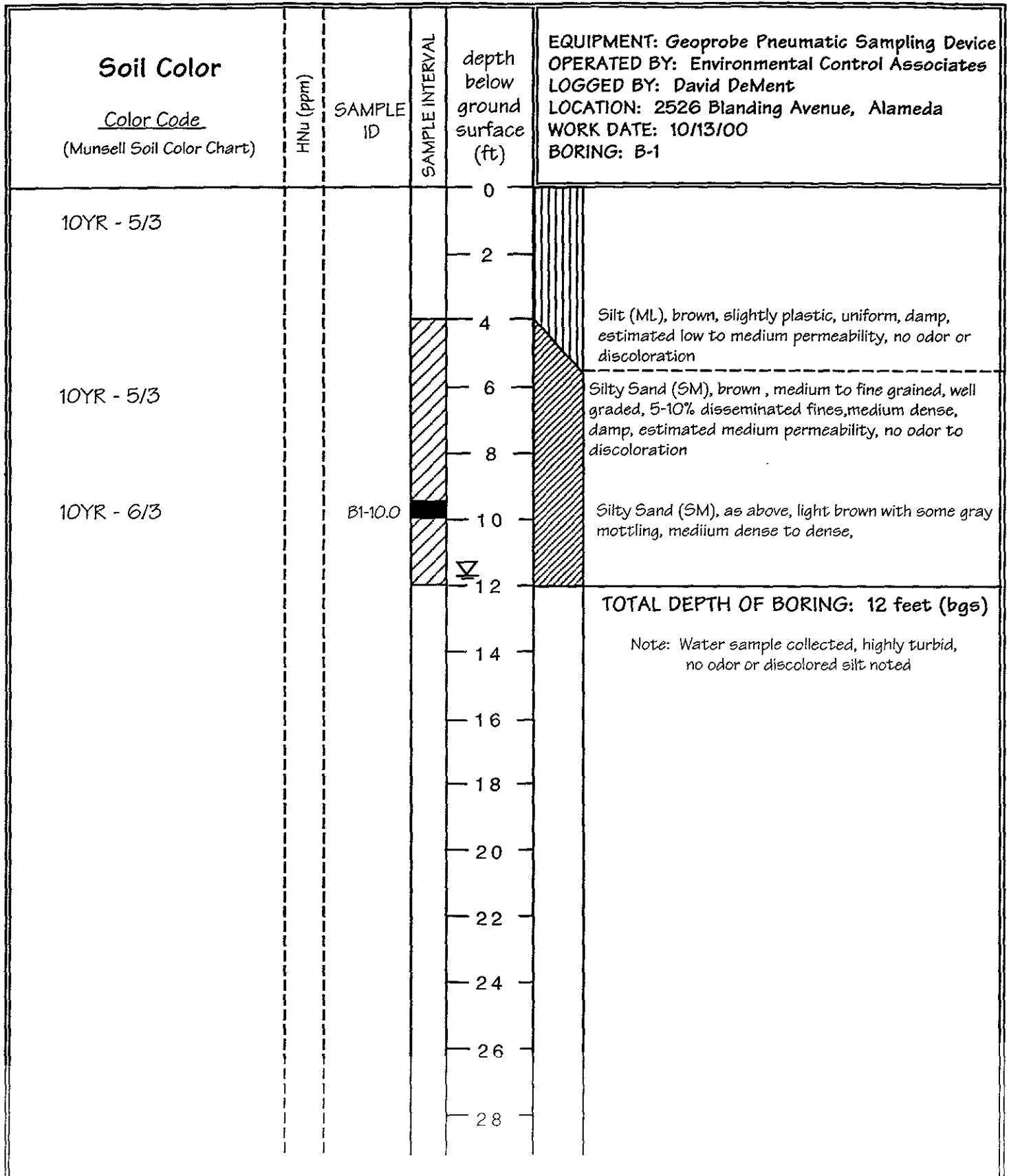
Title: Location Map 2526 Blanding Avenue Alameda, California	
Figure Number 1	Scale 1" = 0.3 Mile
Project Number 6659-01.00	Drawn By NHD
 7477 Lakeview Drive, Suite 100 Oakland, CA 94621 (510) 533-1100	Date 11/01/00



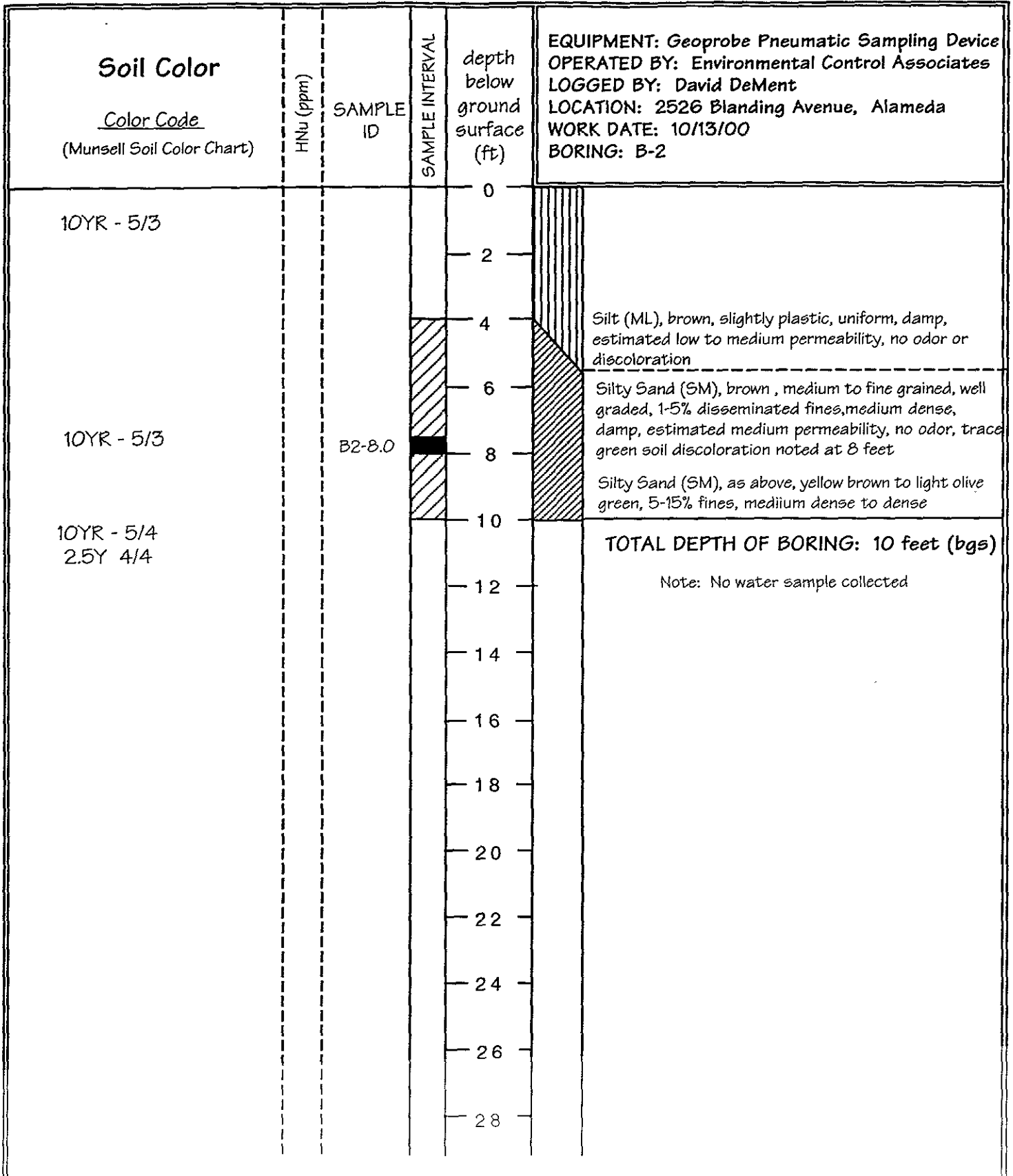
**LEGEND**

- AOC So. Boring location
- Formed concrete pit
- Approximate limit of excavation

Title: <b>Site Plan</b> <b>2526 Blanding Avenue</b> Alameda, California	
Figure Number 2	Scale 1/8" = 1'
Project Number 6659-0100	Drawn By NHD
<p><b>A·C·C</b> ENVIRONMENTAL CONSULTANTS 1471 Laguna Drive Suite 101 Daly City, California 94024 Phone: (415) 991-1100</p>	Date 11/01/00



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX. (510)638-8404	Project No 6659-001.00	Title: LOG OF BORING B-1  2526 Blanding Avenue Oakland, California
Date: 10/31/00		



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project No 6659-001.00	Title LOG OF BORING B-2  2526 Blanding Avenue Oakland, California
	Date: 10/31/00	



**ACC Environmental Consultants**  
7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn.: Mr. Dave DeMent

Project: 6646-002.00  
2526 Blanding

Dear Mr. DeMent,

Attached is our report for your samples received on Friday October 13, 2000  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after November 27, 2000  
unless you have requested otherwise. We appreciate the opportunity to be of service to you.  
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.  
My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

Gas/BTEX

**ACC Environmental Consultants**

✉ 7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6646-002.00

Project: 2526 Blanding

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
B1-10.0	Soil	10/13/2000 09:20	1
B2-8.0	Soil	10/13/2000 10:15	2
B1-W	Water	10/13/2000 09:45	3
B3-W	Water	10/13/2000 11:15	4

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn.: Dave DeMent

Prep Method: 5030

Gas/BTEX

Sample ID: B1-10.0	Lab Sample ID: 2000-10-0285-001
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 09:20	Extracted: 10/17/2000 17:18
Matrix: Soil	QC-Batch: 2000/10/17-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/17/2000 17:18	
Benzene	ND	0.0050	mg/Kg	1.00	10/17/2000 17:18	
Toluene	ND	0.0050	mg/Kg	1.00	10/17/2000 17:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/17/2000 17:18	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/17/2000 17:18	
<b>Surrogate(s)</b>						
Trifluorotoluene	72.8	53-125	%	1.00	10/17/2000 17:18	
Trifluorotoluene-FID	70.7	53-125	%	1.00	10/17/2000 17:18	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn.: Dave DeMent

Prep Method: 5030

Gas/BTEX

Sample ID: B2-8.0	Lab Sample ID: 2000-10-0285-002
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 10:15	Extracted: 10/17/2000 17:46
Matrix: Soil	QC-Batch: 2000/10/17-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/17/2000 17:46	
Benzene	ND	0.0050	mg/Kg	1.00	10/17/2000 17:46	
Toluene	ND	0.0050	mg/Kg	1.00	10/17/2000 17:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/17/2000 17:46	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/17/2000 17:46	
<b>Surrogate(s)</b>						
Trifluorotoluene	81.6	53-125	%	1.00	10/17/2000 17:46	
4-Bromofluorobenzene-FID	59.2	58-124	%	1.00	10/17/2000 17:46	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn.: Dave DeMent

Prep Method: 5030

Gas/BTEX

Sample ID: B1-W	Lab Sample ID: 2000-10-0285-003
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 09:45	Extracted: 10/17/2000 11:59
Matrix: Water	QC-Batch: 2000/10/17-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/17/2000 11:59	
Benzene	ND	0.50	ug/L	1.00	10/17/2000 11:59	
Toluene	ND	0.50	ug/L	1.00	10/17/2000 11:59	
Ethyl benzene	ND	0.50	ug/L	1.00	10/17/2000 11:59	
Xylene(s)	ND	0.50	ug/L	1.00	10/17/2000 11:59	
<b>Surrogate(s)</b>						
Trifluorotoluene	95.9	58-124	%	1.00	10/17/2000 11:59	
4-Bromofluorobenzene-FID	81.8	50-150	%	1.00	10/17/2000 11:59	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn.: Dave DeMent

Prep Method: 5030

Gas/BTEX

Sample ID: B3-W	Lab Sample ID: 2000-10-0285-004
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 11:15	Extracted: 10/17/2000 12:30
Matrix: Water	QC-Batch: 2000/10/17-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	72	50	ug/L	1.00	10/17/2000 12:30	g
Benzene	ND	0.50	ug/L	1.00	10/17/2000 12:30	
Toluene	ND	0.50	ug/L	1.00	10/17/2000 12:30	
Ethyl benzene	ND	0.50	ug/L	1.00	10/17/2000 12:30	
Xylene(s)	ND	0.50	ug/L	1.00	10/17/2000 12:30	
<b>Surrogate(s)</b>						
Trifluorotoluene	92.3	58-124	%	1.00	10/17/2000 12:30	
4-Bromofluorobenzene-FID	84.7	50-150	%	1.00	10/17/2000 12:30	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M

Attn.: Dave DeMent

8020

Prep Method: 5030

## Batch QC Report Gas/BTEX

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/10/17-01.02</b>
MB: 2000/10/17-01.02-001		Date Extracted: 10/17/2000 06:35

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/17/2000 06:35	
Benzene	ND	0.5	ug/L	10/17/2000 06:35	
Toluene	ND	0.5	ug/L	10/17/2000 06:35	
Ethyl benzene	ND	0.5	ug/L	10/17/2000 06:35	
Xylene(s)	ND	0.5	ug/L	10/17/2000 06:35	
<b>Surrogate(s)</b>					
Trifluorotoluene	82.0	58-124	%	10/17/2000 06:35	
4-Bromofluorobenzene-FID	77.4	50-150	%	10/17/2000 06:35	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M

Attn.: Dave DeMent

8020

Prep Method: 5030

## Batch QC Report

Gas/BTEX

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/10/17-01.04</b>
MB: 2000/10/17-01.04-001		Date Extracted: 10/17/2000 06:40

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	10/17/2000 06:40	
Benzene	ND	0.0050	mg/Kg	10/17/2000 06:40	
Toluene	ND	0.0050	mg/Kg	10/17/2000 06:40	
Ethyl benzene	ND	0.0050	mg/Kg	10/17/2000 06:40	
Xylene(s)	ND	0.0050	mg/Kg	10/17/2000 06:40	
<b>Surrogate(s)</b>					
Trifluorotoluene	81.0	53-125	%	10/17/2000 06:40	
4-Bromofluorobenzene-FID	61.2	58-124	%	10/17/2000 06:40	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn: Dave DeMent

Prep Method: 5030

## Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/10/17-01.02	
LCS:	2000/10/17-01.02-002	Extracted:	10/17/2000 07:06	Analyzed	10/17/2000 07:06
LCSD:	2000/10/17-01.02-003	Extracted:	10/17/2000 07:37	Analyzed	10/17/2000 07:37

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD	LCS	LCSD
Gasoline	491	409	500	500	98.2	81.8	18.2	75-125	20				
Benzene	103	99.7	100.0	100.0	103.0	99.7	3.3	77-123	20				
Toluene	99.9	96.7	100.0	100.0	99.9	96.7	3.3	78-122	20				
Ethyl benzene	96.1	94.0	100.0	100.0	96.1	94.0	2.2	70-130	20				
Xylene(s)	273	268	300	300	91.0	89.3	1.9	75-125	20				
<b>Surrogate(s)</b>													
Trifluorotoluene	447	424	500	500	89.4	84.8		58-124					
4-Bromofluorobenzene-FI	447	397	500	500	89.4	79.4		50-150					

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M  
8020

Attn: Dave DeMent

Prep Method: 5030

## Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/10/17-01.04
LCS: 2000/10/17-01.04-002	Extracted: 10/17/2000 07:08	Analyzed 10/17/2000 07:08
LCSD: 2000/10/17-01.04-003	Extracted: 10/17/2000 09:27	Analyzed 10/17/2000 09:27

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD	LCS	LCSD
Gasoline	0.402	0.524	0.500	0.500	80.4	104.8	26.3	75-125	35				
Benzene	0.101	0.104	0.1000	0.1000	101.0	104.0	2.9	77-123	35				
Toluene	0.0934	0.0966	0.1000	0.1000	93.4	96.6	3.4	78-122	35				
Ethyl benzene	0.0924	0.0959	0.1000	0.1000	92.4	95.9	3.7	70-130	35				
Xylene(s)	0.273	0.283	0.300	0.300	91.0	94.3	3.6	75-125	35				
<b>Surrogate(s)</b>													
Trifluorotoluene	439	454	500	500	87.8	90.8		53-125					
Trifluorotoluene-FID	334		500		66.8			53-125					

To: ACC Environmental Consultants

Test Method: 8015M

8020

Attn: Dave DeMent

Prep Method: 5030

## Legend & Notes

Gas/BTEX

### Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Total Extractable Petroleum Hydrocarbons (TEPH)

**ACC Environmental Consultants**

✉ 7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6646-002.00

Project: 2526 Blanding

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
B1-10.0	Soil	10/13/2000 09:20	1
B2-8.0	Soil	10/13/2000 10:15	2
B1-W	Water	10/13/2000 09:45	3
B3-W	Water	10/13/2000 11:15	4

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants  
Attn.: Dave DeMent

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: <b>B1-10.0</b>	Lab Sample ID: <b>2000-10-0285-001</b>
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 09:20	Extracted: 10/18/2000 06:38
Matrix: Soil	QC-Batch: 2000/10/18-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Kerosene	ND	1.0	mg/Kg	1.00	10/20/2000 03:18	
<b>Surrogate(s)</b> o-Terphenyl	90.7	60-130	%	1.00	10/20/2000 03:18	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants  
Attn.: Dave DeMent

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: B2-8.0	Lab Sample ID: 2000-10-0285-002
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 10:15	Extracted: 10/18/2000 06:38
Matrix: Soil	QC-Batch: 2000/10/18-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Kerosene	1.7	1.0	mg/Kg	1.00	10/20/2000 03:56	nkp
<b>Surrogate(s)</b> o-Terphenyl	89.1	60-130	%	1.00	10/20/2000 03:56	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015M

Prep Method: 3510/8015M  
3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: <b>B1-W</b>	Lab Sample ID: <b>2000-10-0285-003</b>
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 09:45	Extracted: 10/18/2000 14:00
Matrix: Water	QC-Batch: 2000/10/18-04.10
Sample/Analysis Flag r l ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Kerosene	ND	110	ug/L	2.22	10/21/2000 13:59	
<i>Surrogate(s)</i> o-Terphenyl	116.9	60-130	%	2.22	10/21/2000 13:59	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants  
Attn.: Dave DeMent

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: B3-W	Lab Sample ID: 2000-10-0285-004
Project: 6646-002.00 2526 Blanding	Received: 10/13/2000 18:32
Sampled: 10/13/2000 11:15	Extracted: 10/18/2000 14:00
Matrix: Water	QC-Batch: 2000/10/18-04.10
Sample/Analysis Flag rl ( See Legend & Note section )	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Kerosene	150	74	ug/L	1.47	10/21/2000 14:37	nkp
<b>Surrogate(s)</b> o-Terphenyl	115.6	60-130	%	1.47	10/21/2000 14:37	



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M

Attn.: Dave DeMent

Prep Method: 3510/8015M

3550/8015M

## Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/10/18-01.10</b>
MB: 2000/10/18-01.10-001		Date Extracted: 10/18/2000 06:38

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	10/19/2000 11:21	
Kerosene	ND	1	mg/Kg	10/19/2000 11:21	
<b>Surrogate(s)</b> o-Terphenyl	114.0	60-130	%	10/19/2000 11:21	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants  
Attn.: Dave DeMent

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

**Batch QC Report**  
Total Extractable Petroleum Hydrocarbons (TEPH)

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/10/18-04.10</b>
MB: 2000/10/18-04.10-001		Date Extracted: 10/18/2000 14:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	10/21/2000 01:59	
Kerosene	ND	50	ug/L	10/21/2000 01:59	
<b>Surrogate(s)</b> o-Terphenyl	128.5	60-130	%	10/21/2000 01:59	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M

Attn: Dave DeMent

Prep Method: 3510/8015M  
3550/8015M

## Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/10/18-01.10
LCS: 2000/10/18-01.10-002	Extracted: 10/18/2000 06:38	Analyzed 10/19/2000 11:56
LCSD: 2000/10/18-01.10-003	Extracted: 10/18/2000 06:38	Analyzed 10/19/2000 12:30

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	36.7	36.8	41.7	41.7	88.0	88.2	0.2	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	23.5	23.8	20.0	20.0	117.5	119.0		60-130			

1220 Quarry Lane \* Pleasanton CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0285

To: ACC Environmental Consultants

Test Method: 8015M

Attn: Dave DeMent

Prep Method: 3510/8015M  
3550/8015M

## Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/10/18-04.10
LCS: 2000/10/18-04.10-002	Extracted: 10/18/2000 14:00	Analyzed 10/21/2000 02:43
LCSD: 2000/10/18-04.10-003	Extracted: 10/18/2000 14:00	Analyzed 10/21/2000 03:27

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD	Recovery	RPD	LCS	LCSD		
Diesel	1090	1080	1250	1250	87.2	86.4	0.9	60-130	25				
<b>Surrogate(s)</b> o-Terphenyl	24.6	24.4	20.0	20.0	123.0	122.0		60*130					

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone (925) 484-1919 \* Facsimile (925) 484-1096

To: **ACC Environmental Consultants**  
Attn: Dave DeMent

Test Method: 8015M  
Prep Method: 3510/8015M  
3550/8015M

## Legend & Notes

### Total Extractable Petroleum Hydrocarbons (TEPH)

#### Analysis Flags

rl

Reporting limits raised due to reduced sample size.

#### Analyte Flags

nkp

Hydrocarbon reported does not match the pattern of our Kerosene standard

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756  
 510/481-1919 • Facsimile 510/481-1919

Chain of Custody

55127

**2000-10-0285**

DATE 10/13/00 PAGE 1 OF 1

## ANALYSIS REPORT

PROJ. MGR David DeMent  
 COMPANY ACC Environmental  
 ADDRESS 7977 Capwell Drive  
OAKLAND CA 94621

SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) (510) 638-8400  
 (FAX NO.) (510) 638-8404

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.
B1-10.0	10/13/00	9:20	Soil	Cold
B2-8.0	↓	10:15	Soil	Cold
B7-W	10/13/00	9:45	Water	HCL
B3-W	↓	11:15	Water	HCL

TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	KEROSENE	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (ICP, STLC)	FUEL OXYGENATES by 8260	NUMBER OF CONTAINERS
	X										X							1
	X										X							1
	X										X							3
	X										X							5

7  
7  
See Note

PROJECT INFORMATION	SAMPLE RECEIPT
PROJECT NAME: <u>2526</u> <u>6646-002.00 Blanding</u>	TOTAL NO. OF CONTAINERS
PROJECT NUMBER <u>6646-002.00</u>	HEAD SPACE
P.O. # <u>6646-002.00</u>	REC'D GOOD CONDITION/COLD
TAT <input checked="" type="checkbox"/> STANDARD 5-DAY	CONFORMS TO RECORD

SPECIAL INSTRUCTIONS/COMMENTS:  
Please run WATER sample with highest BTEX for fuel oxygenates by 8260

RELINQUISHED BY 1	RELINQUISHED BY 2	RELINQUISHED BY 3
<u>[Signature]</u> (SIGNATURE) (TIME)		<u>[Signature]</u> 1832 (SIGNATURE) (TIME)
<u>David DeMent</u> 10/13/00 (PRINTED NAME) (DATE)		<u>[Signature]</u> 10/13/00 (PRINTED NAME) (DATE)
<u>ACC Environmental</u> (COMPANY)		<u>Chromalab</u> (COMPANY)
RECEIVED BY 1	RECEIVED BY 2	RECEIVED BY (LABORATORY)
<u>[Signature]</u> 1730 (SIGNATURE) (TIME)		<u>[Signature]</u> (SIGNATURE) (TIME)
<u>[Signature]</u> 10/13/00 (PRINTED NAME) (DATE)		<u>D. Harrington</u> 1832 (PRINTED NAME) (DATE)
<u>Chromalab</u> (COMPANY)		<u>Chromalab</u> 10/13/00 (LAB)