



2055 Junction Avenue  
San Jose, California 95131-2105  
408-894-1200  
Fax 408-894-0701

August 5, 1996

Ms. Dolores Staudenraus  
Montgomery Washington Tower  
611 Washington Street, #2305  
San Francisco, California 94111

IT Project No. 768157

SUBJECT: Letter Report of Soil and Groundwater Sampling at  
Staudenraus Property  
2424 Blanding Street  
Alameda, California

96 AUG -6 PM 2:15  
ENVIRONMENTAL  
PROTECTION

Dear Ms. Staudenraus:

IT Corporation (IT) is pleased to present this letter report of soil and groundwater sampling completed at the above referenced site. A site vicinity map is shown as Figure 1. All site activities were completed in accordance with local regulatory requirements and as described below.

**1.0 SITE HISTORY**

On February 23, 1993, one 700-gallon, steel, underground storage tank (UST), formerly containing gasoline, was removed from the site by Pacific Excavators under the supervision of ACC Environmental Consultants (ACC) of Alameda, California. The UST was reported to be in good condition upon removal. Water was present in the excavation, however, it was determined that the water was due to surface runoff and therefore was not sampled. Following removal, one soil sample was collected from native soil beneath each end of the former tank location (D-1 and D-2), and one sample was collected from soil excavated during tank removal (SP-1). Analytical results indicated total petroleum hydrocarbons as gasoline (TPH-G) were present in one of the samples (D-1, collected from the northeastern end of the excavation) at a concentration of 110 parts per million (ppm), benzene was detected at a concentration of 0.041 ppm. Sample D-2 was not reported to contain hydrocarbons above the Method Detection Limit (MDL). The sample collected from backfill material contained 19 ppm TPH-G.

Approximately 10 cubic yards of soil was removed from the excavation and disposed offsite. The excavation was subsequently backfilled with import fill material and capped with concrete.

**2.0 METHODS AND PROCEDURES**

Activities described in this report were performed in accordance with the IT work plan dated June 27, 1996. The work plan was submitted to, and approved by, the Alameda County Department of

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Environmental Health (ACDEH). Site work was completed in accordance with a site specific health and safety plan.

### 2.1 Soil Boring and Soil Sampling

The concrete surface at the location of boring SB1 was cored on July 8, 1996. On July 9, soil boring SB1 was advanced by hand auger on the eastern side of the former UST (Figure 2, Site Plan). The boring was hand augered at an angle approximately 30 degrees from vertical. Soil sample SB1-5 was collected at a depth of approximately 5 feet below grade (fbg, measured vertically from surface) using a slide hammer equipped with a sampler lined with a brass tube. Several attempts were made using the slide hammer to collect a sample at the capillary fringe (approximately 7.0 fbg), however, the soil could not be retained in the sampler. As a result, sample SB1-6.5 fbg was collected from hand auger cuttings from the 6.5 to 7.0 fbg depth interval. Samples were retained in brass sample collection sleeves, capped, labeled and placed in an iced cooler for transport to an analytical laboratory under chain of custody documentation.

Soils encountered during augering consisted primarily of silts and clays. A brownish sandy clay was observed from an approximate depth of 1.5 to 3.0 fbg. At approximately 3.0 feet a brownish green sandy silt with a slight petroleum odor was observed. Organic Vapor Monitoring (OVM) of the soil was performed using a HNu system photoionization detector. OVM readings of soils ranged from 80 to 100 parts per million (ppm). Brown sandy silts were encountered from 5.0 to 8.5 fbg.

### 2.2 Grab Groundwater Sampling

The soil boring was advanced approximately 1.5 feet beyond groundwater. A slotted PVC casing was placed in the boring and approximately 2 gallons of groundwater was purged using a disposable bailer. The sample was collected using a clean disposable bailer and placed in appropriate sample containers supplied by the laboratory. Methods for sample handling, transport and documentation were consistent with procedures used for soil sampling.

### 2.3 Laboratory Analysis

Two soil samples and one groundwater sample were analyzed for TPH-G and benzene, toluene, ethyl benzene and total xylenes (BTEX), using EPA Methods 8015 (modified) and 8020.

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### 3.0 RESULTS

Although a minor petroleum odor was observed in soil, neither TPH-G or BTEX were detected in either of the soil samples collected. Additionally, benzene and toluene were not detected in the grab groundwater sample. However, TPH-G was detected in the groundwater at a concentration of 620 parts per billion (ppb). Ethylbenzene and xylene were also reported at concentrations of 5.6 ppb and 43 ppb, respectively. Analytical results are summarized in Table 3.1 below. A copy of the laboratory report is presented in Attachment A.

**TABLE 3.1 - ANALYTICAL RESULTS**

**Soil Sample Results (in ppm)**

	TPH-Gas	Benzene	Toluene	Ethyl Benzene	Xylene
SB1-6.5	ND	ND	ND	ND	ND
SB1-5	ND	ND	ND	ND	ND
MDL	1.0	0.005	0.005	0.005	0.005

**Groundwater Sample Results ( in ppb)**

	TPH-Gas	Benzene	Toluene	Ethylbenzene	Xylenes
SB1-W	620	ND	ND	5.6	43
MDL	50	0.5	0.5	0.5	0.5
MCL	and/A	5	1,000	700	10,000

ND - Not Detected at laboratory detection limit

ppm - parts per million

ppb - parts per billion

MDL - Method Detection Limit

MCL - Maximum Concentration Levels

and/A - Not Applicable


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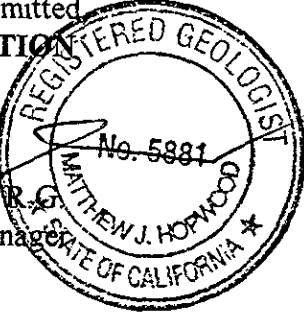
#### 4.0 CONCLUSIONS

Based on the results of this limited investigation, a discrete layer of soil may contain minor residual hydrocarbons. However, analysis of soil collected within this zone and just above groundwater were not reported to contain petroleum hydrocarbons. Furthermore, groundwater at the site is not impacted at concentrations that exceed State of California Maximum Contaminant Levels (MCL) for drinking water (there is no MCL for TPH-G). In addition, the shallow groundwater encountered at the site has little or no potential beneficial uses (ACC, Request for Closure Report, April 1994), therefore, we recommend regulatory closure of the site.

If you have any questions or comments, please contact me at (408) 894-1200.

Respectfully submitted  
IT CORPORATION

  
Matt Hopwood, R.G.  
Geosciences Manager





PENDING-F1	PENDING GCD
DRAWING NO	FILE/DISK
QA/QC BY	APPROVED BY
JM	06-26-96
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**NOTES.**

OAKLAND EAST QUADRANGLE 7.5 MINUTE  
 SERIES (TOPOGRAPHIC)  
 MAPPED, EDITED AND PUBLISHED BY THE  
 GEOLOGICAL SURVEY, PHOTOREVISED 1980

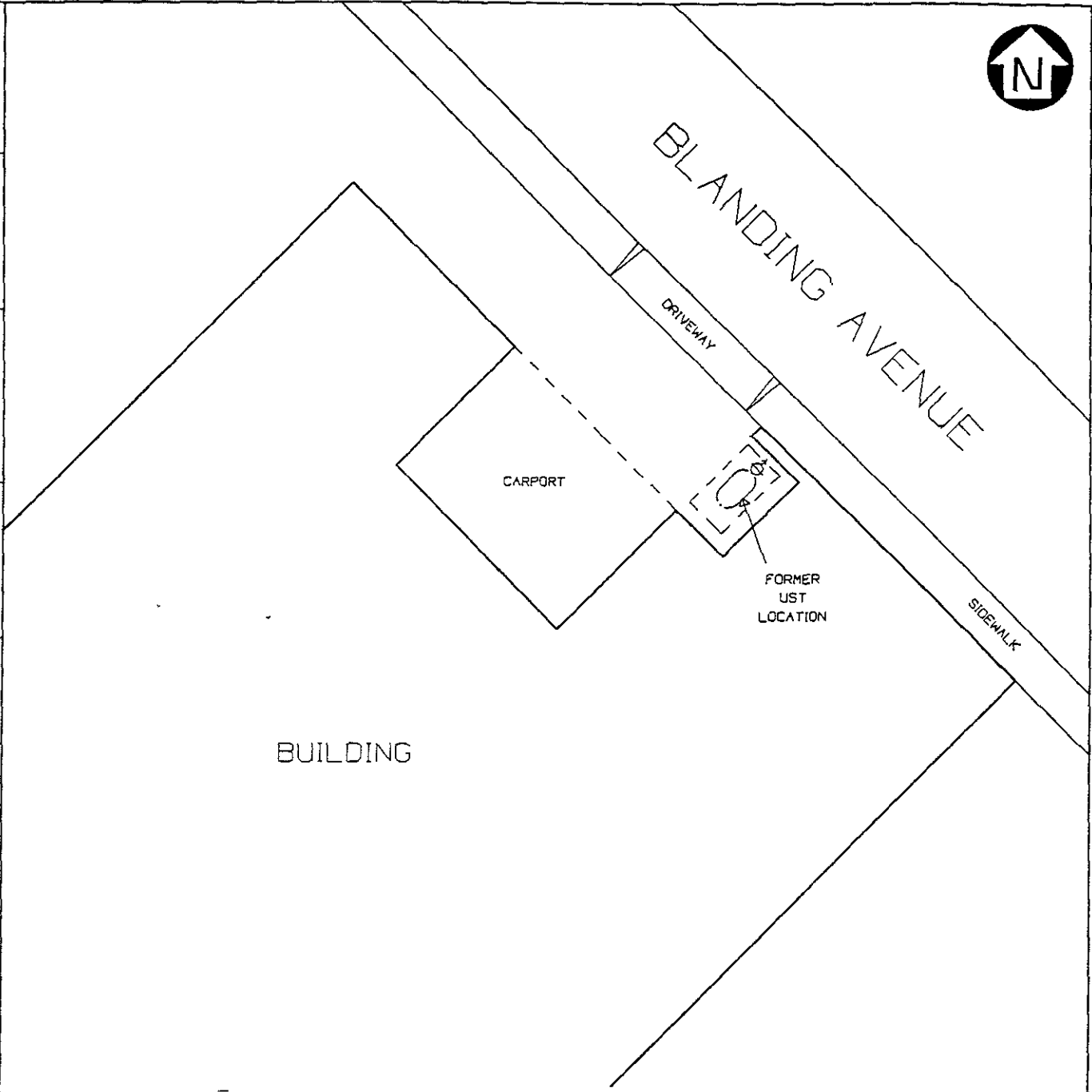
**FIGURE 1  
 SITE VICINITY MAP**

STAUDENRAUS PROPERTY  
 2424 BLANDING AVE  
 ALAMEDA, CALIFORNIA

IT JOB NO PENDING



DRAWN BY	JM	QA/QC BY	DRAWING NO	PENDING-F2
	06-26-96	APPROVED BY	FILE/DISK	PENDING.OCD



LEGEND

 ANGLE BORING LOCATION

FIGURE 2  
SITE PLAN WITH  
BORING LOCATION

STAUDENRAUS PROPERTY  
2424 BLANDING AVE  
ALAMEDA, CALIFORNIA

IT JOB NO. PENDING



NOT TO SCALE

**ATTACHMENT A**

**Laboratory Report and  
Chain of Custody Form**

# Entech Analytical Labs, Inc.

CA ELAP# 1369

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Attn: Dave Anderson  
IT Corporation  
2055 Junction Avenue  
San Jose, CA 95131

Date:	7/11/96
Date Received:	7/9/96
Date Analyzed:	7/9/96
Project:	767XXX
Sampled By:	Client

## Certified Analytical Report

### Soil Sample Analysis:

Sample ID	Sample Date	Sample Time	Lab #	DF	TPH-Gas	Benzene	Toluene	Ethyl Benzene	Xylene
SB1-5	7/9/96	0924	C9151	1	ND	ND	ND	ND	ND
SB1-6.5	7/9/96	0951	C9152	1	ND	ND	ND	ND	ND

1.  $DLR = DF \times PQL$
2. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #1369)

### Summary of Methods and Detection Limits:

	TPH-Gas	Benzene	Toluene	Ethylbenzene	Xylenes
EPA Method #	8015M	8020	8020	8020	8020
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL	1.0 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg

  
Michael N. Golden, Lab Director

DF=Dilution Factor  
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit  
ND=None Detected at or above DLR

*Environmental Analysis Since 1983*



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Attn: Dave Anderson  
IT Corporation  
2055 Junction Avenue  
San Jose, CA 95131

Date:	7/11/96
Date Received:	7/9/96
Date Analyzed:	7/9/96
Project:	767XXX
Sampled By:	Client

## Certified Analytical Report

### Water Sample Analysis:

Sample ID	Sample Date	Sample Time	Lab#	DF	TPH-Gas	Benzene	Toluene	Ethyl Benzene	Xylene
SB1-W	7/9/96	10:30	C9153	1	620	ND	ND	5.6	43

1.  $DLR = DF \times PQL$
2. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #1369)

### Summary of Methods and Detection Limits:

	TPH-Gas	Benzene	Toluene	Ethylbenzene	Xylenes
EPA Method #	8015M	8020	8020	8020	8020
Units	µg/liter	µg/liter	µg/liter	µg/liter	µg/liter
PQL	50.0 µg/liter	0.5 µg/liter	0.5 µg/liter	0.5 µg/liter	0.5 µg/liter

  
Michael N. Golden, Lab Director

DF=Dilution Factor  
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit  
ND=None Detected at or above DLR

# Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone. (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

## Chain of Custody/Analysis Work Order

Client: IT-CORP  
 Address: 2055 Junction  
205 San Jose, CA  
 Contact: Jan Anderson  
 Telephone #: (408) 894-2000  
 Date Received: 7/9/96  
 Turn Around: Normal

Project ID: 767XXX  
 Purchase Order #: \_\_\_\_\_

Sampler/Company:	Telephone #:
<u>D Anderson IT-CORP</u>	
Special Instructions/Comments	
<u>fax: 894-0701</u>	

LAB USE ONLY

Samples arrived chilled and intact:

Yes                      No

Notes: \_\_\_\_\_

\_\_\_\_\_

Sample Information								Requested Analysis							
Lab #	Sample ID	Grab/Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH-G							
09151	SBI-5	Grab	soil	7/9/96	0924	cool	2"x6" Brass tube	X							
09152	SBI-6.5	↓	soil	↓	0951	↓	2"x6" Brass tube	X							
09153	SBI-W	↓	Groundwater	↓	1030	↓	2x4Duo VOA	X							
Relinqu. By: <u>[Signature]</u> IT-CORP								Received By: <u>Jennifer Ellinger</u>				Date: <u>7-9-96</u>		Time: <u>13:15</u>	
Relinqu. By: _____								Received By: _____				Date: _____		Time: _____	
Relinqu. By: _____								Received By: _____				Date: _____		Time: _____	