

PIERS@BEST.com

CRSP-10/14/99  
DEC 14, 1999

**PIERS**



**Environmental  
Services, Inc.**

ENVIRONMENTAL  
PROTECTION

1330 S. Bascom Ave., Suite F  
San Jose, CA 95128

99 NOV -2 PM 3: 59

Tel. (408) 559-1248 Fax (408) 559-1224

STP  
666

October 26, 1999

Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Second Floor  
Alameda, CA 94502

Attn: Mr. Amir Gholami; Haz Mat. Specialist for : 2896 Castro Valley Blvd., Castro Valley

Re: Report of Groundwater Sampling

Dear Mr. Gholami,

On October 14, 1999, a single round of groundwater samples were obtained from monitoring wells MW1 through MW3.

The groundwater samples were collected as follows:

Each well was bailed until the volume of water withdrawn was equal to at least four casing volumes. To assure that a representative groundwater sample was collected, periodic measurements of the temperature, pH and specific conductance were made. The sample was collected only when the temperature, pH, and/or specific conductance reached relatively constant values.

A hand operated bailer was used for evacuating each well casing (purging) of the monitor wells. Water samples were collected using a new, disposable bailer. An effort was made to minimize exposure of the sample to air.

Sample containers, obtained directly from the analytical laboratory, were labeled with self-adhesive tags. Field personnel labeled each tag, using waterproof ink, with the following information: Sampling location and number; project name; date and time samples were collected; treatment (preservatives, filtered, etc.); name of sampler

Subsequent to collection, the samples were immediately stored on ice in an appropriate ice chest. Samples were transported under Chain-of-Custody procedures to Entech Analytical Labs (Entech) of Sunnyvale.

Sampling equipment was cleaned after its use at each sampling location. Care was taken to collect all excess water resulting from the sampling and cleaning procedures. The excess water was contained in a pre-labeled 55-gallon drum on-site pending receipt of laboratory analyses.

The following analyses was performed by Entech on groundwater samples obtained from the monitor wells:

TPH-gas,TPH/diesel(EPA Method 8015M); BTEX (EPA Method 602)

The results of the groundwater sample were as follows:

Results in Parts Per Billion (PPB)

Well#	Sample#	TPH/g	Benzene	Toluene	EthylBenzene	Xylene	TPH/d
W-MW	MW1	ND	ND	ND	ND	ND	ND
E-MW	MW2	ND	ND	ND	ND	ND	ND
S-MW	MW3	ND	ND	ND	ND	ND	ND

### Determination of Horizontal Groundwater Gradient

On July 14, 1999, water levels in each of the monitor wells were measured within a one hour period. The assumed water surface elevations in the wells were calculated using the July, 1999 survey data. Then, the horizontal hydraulic gradient was calculated based on accurately determined well locations.

The gradient calculated showed a 0.37% slope in a southwestern direction. Figure 2 shows survey data and groundwater topography.

### Soil Waste Disposal Manifests

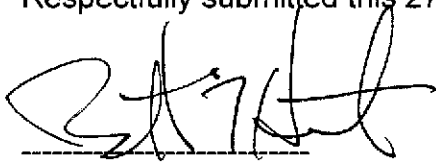
PIERS submitted a written request to Browning-Ferris Industries (BFI) Vasco Road Landfill to obtain the waste profile code, and corresponding manifests, for the soil removed from the site in 1994 and on February 7, 1995. As of the date of this report, BFI staff has not been able to locate the archived documents.

The known transporter of the soil, Maciel Trucking Inc. of San Jose, CA, is now looking through their archived documents to try to find a weight tag showing the BFI waste profile code.

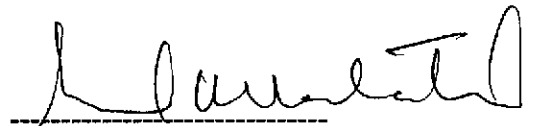
## LIMITATIONS

The observations and conclusions presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The opinions presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions of the groundwater with respect to hydrocarbons identified during previous work. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

Respectfully submitted this 27th day of October, 1999,



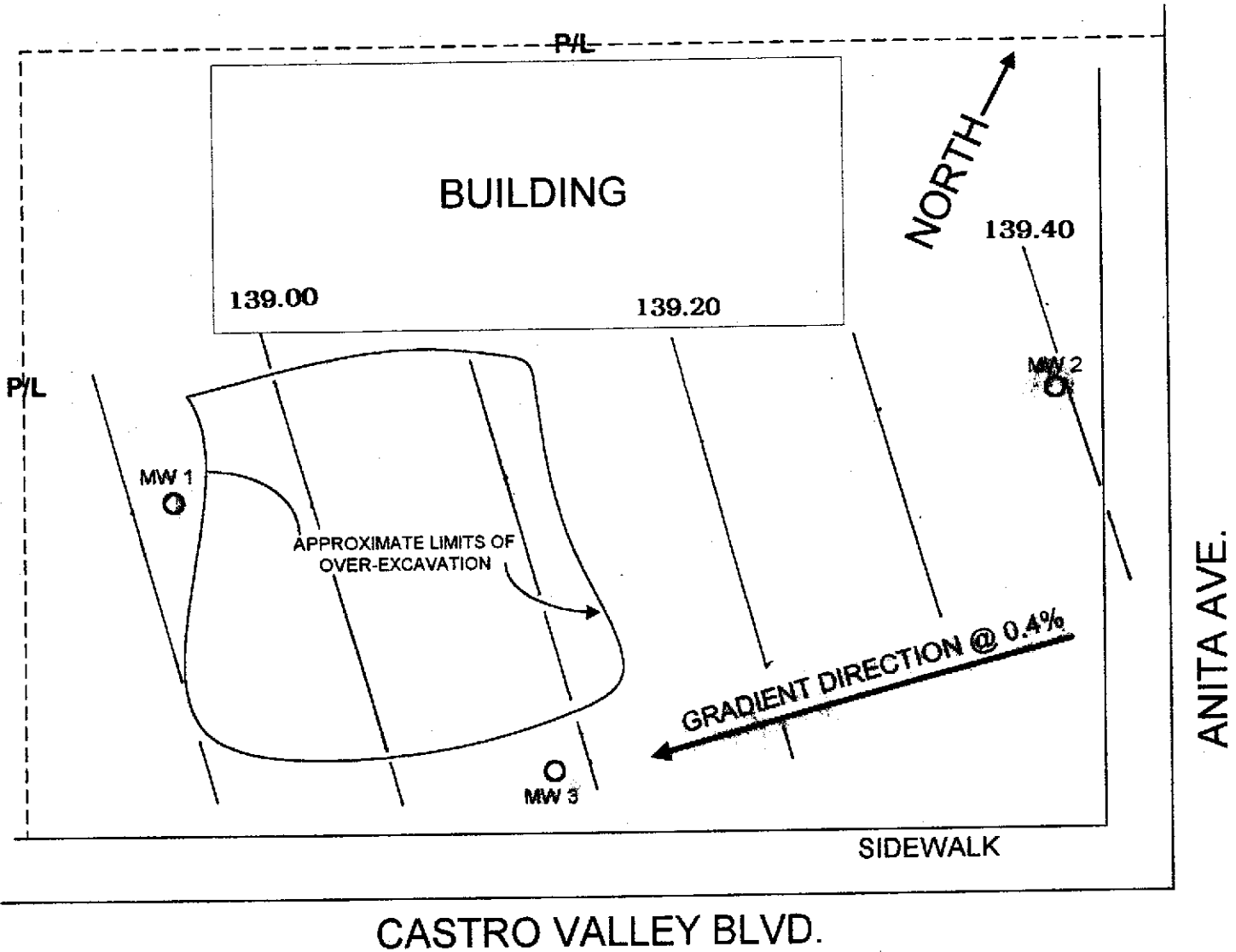
Bennett T Halsted  
Project Manager



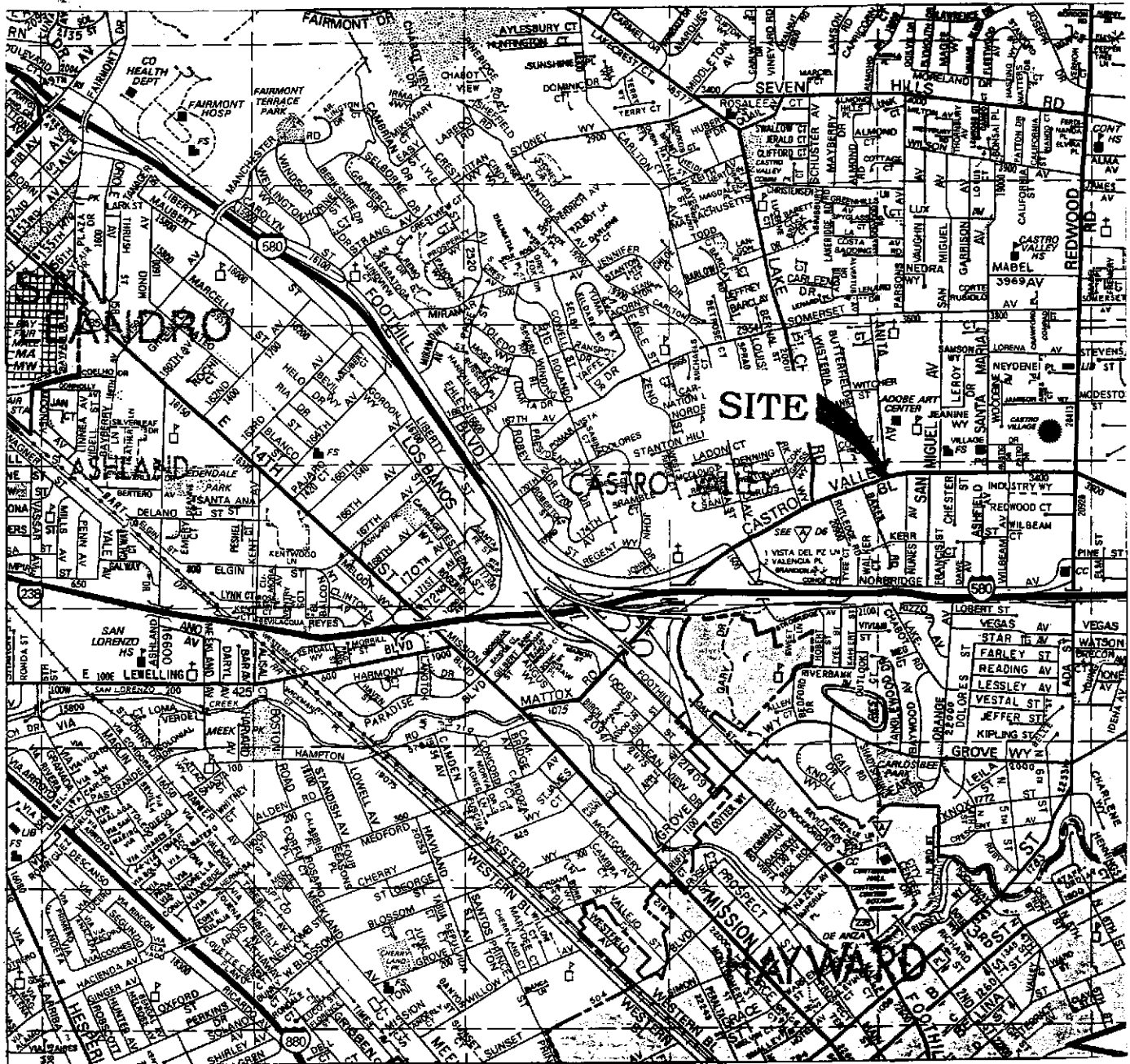
Samuel H Halsted P.E.  
CE 14095

Well#	Casing Elev.	Depth to Grndwtr.	Grndwtr. Elev.
MW1	150.11	11.19	138.92
MW2	150.66	11.27	139.39
MW3	150.00*	10.92	139.08

\*ASSIGNED ELEV. USING USGS. TOPO.



<b>SITE PLAN</b>		
2896 CASTRO VALLEY BLVD., CASTRO VALLEY, CA		
SCALE: 1"=20'	APPROVED BY:	DRAWN BY:
DATE: 10/26/99		REVISED
<b>PIERS ENVIRONMENTAL SERVICES, INC.</b>		
1330 S. BASCOM AVENUE, SUITE F, SAN JOSE, CA 95128		<b>FIGURE 2</b>



<b>VICINITY MAP</b>		
<b>2896 CASTRO VALLEY BLVD., CASTRO VALLEY, CA</b>		
SCALE: 1"=2200'	APPROVED BY:	DRAWN BY:
DATE: 4/22/99		REVISED:
<b>PIERS ENVIRONMENTAL SERVICES, INC.</b>		
1330 S. BASCOM AVENUE, SUITE F, SAN JOSE, CA 95128		<b>FIGURE 1</b>

# PRIORITY ENVIRONMENTAL LABS

Chain of Custody

1764 Houret Ct. Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

DATE: 10, 14, 99 PAGE: 1 OF: 1

PROJECT MGR.: <u>Ben Halsted</u>		<b>ANALYSIS REPORT</b>											CONTAINERS			
COMPANY: <u>PIERS</u>	ADDRESS: <u>1330 S. Bascom Ave #E</u> <u>San Jose</u>															
PHONE: _____	FAX: _____	TPH-Casoline (EPA 5030.8015) w/8TEX (EPA 602.8020) TPH-Diesel (EPA 3510/3550.8015) PURGEABLE AROMATICS BTEX (EPA 602.8020) TOTAL OIL & GREASE (EPA 5520 C,D&F) PESTICIDES/PCB (EPA 608.8080) TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1) CHLORINATED HYDROCARBONS (EPA 601.8010)	<b>PEL #</b> 9910005													
SIGNATURE: <u>Ben Halsted</u>			<b>INV #</b> 28865													
SAMPLE ID	DATE		TIME	MATRIX	PH-Casoline (EPA 5030.8015)	TPH-Casoline (EPA 5030.8015) w/8TEX (EPA 602.8020)	TPH-Diesel (EPA 3510/3550.8015)	PURGEABLE AROMATICS BTEX (EPA 602.8020)	TOTAL OIL & GREASE (EPA 5520 C,D&F)	PESTICIDES/PCB (EPA 608.8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601.8010)				
MW 1	10/1/99		831	water	X	X										3
MW 2			912	↓	X	X										3
MW 3			1011	↓	X	X										3
<b>PROJECT INFORMATION</b>			<b>SAMPLE RECEIPT</b>		<b>RELINQUISHED BY:</b> 1			<b>RECEIVED BY:</b> 1			<b>RELINQUISHED BY:</b> 2		<b>RECEIVED BY:</b> 2			
PROJECT NAME: <u>C.V.</u>	TOTAL # OF CONTAINERS: <u>9</u>		SIGNATURE: <u>Ben Halsted</u>			SIGNATURE: <u>DAVID DUONG</u>			SIGNATURE: _____		SIGNATURE: _____					
PROJECT NUMBER: _____	RECD. GOOD COND./COLD: _____														Date: <u>10/18/99</u> Time: <u>10:25pm</u>	
INSTRUCTIONS & COMMENTS: _____				COMPANY: <u>PIERS</u>			COMPANY: <u>TEL</u>			COMPANY: _____		COMPANY: _____				

TABLE 3



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 20, 1999

PEL # 9910005

PIERS ENVIRONMENTAL

Attn: Ben Halsted

Re: Three water samples for Gasoline/BTEX and Diesel analyses.

Project name: C.V.

Date sampled: Oct 14, 1999

Date submitted: Oct 18, 1999

Date extracted: Oct 18-19, 1999

Date analyzed: Oct 18-19, 1999

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)	Diesel (ug/L)
MW1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	87.6%	90.8%	91.2%	87.9%	101.3%	89.5%
Detection limit	50	0.5	0.5	0.5	0.5	50
Method of Analysis	5030/ 8015	602	602	602	602	3510/ 8015

David Duong  
Laboratory Director