



**LOUIS A. RICHARDSON**  
**Consulting Engineering Geologist**

202 Jason Way  
Mountain View, California 94043

(415) 967-1000

Registered Geologist • Certified Engineering Geologist • California and Oregon

August 28, 1991

Proj. No. 479.44

D & D Management Consultants  
P.O. Box 23040  
San Jose, California 95153

Attention: Mr. Paul Dzakowic

Re: Soil Sampling at Tank Removal Site  
Peterson Metal Fabricating Co.  
20478 Mission Boulevard  
Hayward, CA

Dear Mr. Dzakowic:

Pursuant to your request, the undersigned has observed the soil sampling operations, performed by your firm on August 9, 1991, at the site of a previously removed gasoline tank and dispenser in a paved yard area near the west-center of the above-referenced site. The samples were obtained by drilling through concrete pavement and, at the tank location, backfill of the excavation made for removal of the tank.

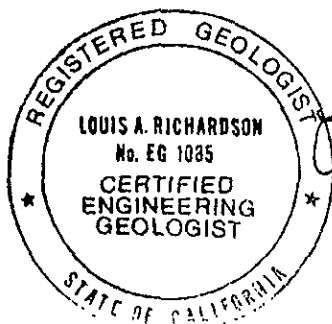
One sample was obtained from a boring at the northerly end of the old tank location at a depth of 12 feet. The sampled material was moderate-brown clay that was encountered beneath pea gravel backfill of the tank excavation.

Three borings were performed in a triangular pattern adjacent to the old dispenser site associated with the tank. Two of those borings were terminated at a depth of 10 feet, after samples of brown clay were obtained at 5 and 10 feet. After sampling similar clays at 5 and 10 feet, the third boring at the dispenser location was extended to a depth of 41 feet, where groundwater was encountered and sampled.

All soil samples were obtained by driving a clean, brass cylinder into soil in the bottom of the boring as it was advanced. Each 2-inch-diameter cylinder was immediately sealed with aluminum foil and then teflon caps were taped to the ends. The samples were then refrigerated for transport to the analytical laboratory. After completion of the work, all borings were sealed with neat cement grout. The drilling contractor was HEW Drilling of East Palo Alto, California.

Thank you for the opportunity to be of assistance to you regarding this matter. If you have any questions, or require further services, please feel free to call.

Very truly yours,



*Louis A. Richardson*  
Louis A. Richardson  
Certified Engineering Geologist  
No. EG 1085

LAR:ka

**D & D Management Consultants, Inc.**

P.O. Box 23040  
San Jose, CA 95153  
(408) 683-4254  
FAX (408) 683-2359

91 SEP -5 AM 11:11

September 3, 1991

Alameda County Health Care Services  
Department of Environmental Health  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, CA 94621

Attention: Ms. Pamela J. Evans

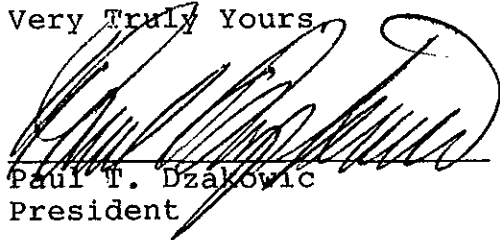
Subject: Soil Contamination Investigation at, Peterson Metal  
Fabricating, 20478 Mission Blvd., Hayward, CA 94541

Dear Ms. Evans:

Enclosed is the soil sampling report from our Engineering  
Geologist and the requested soil sample laboratory results.

If you have any questions please call.

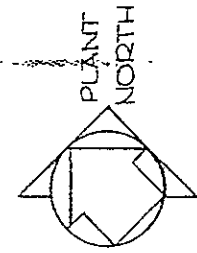
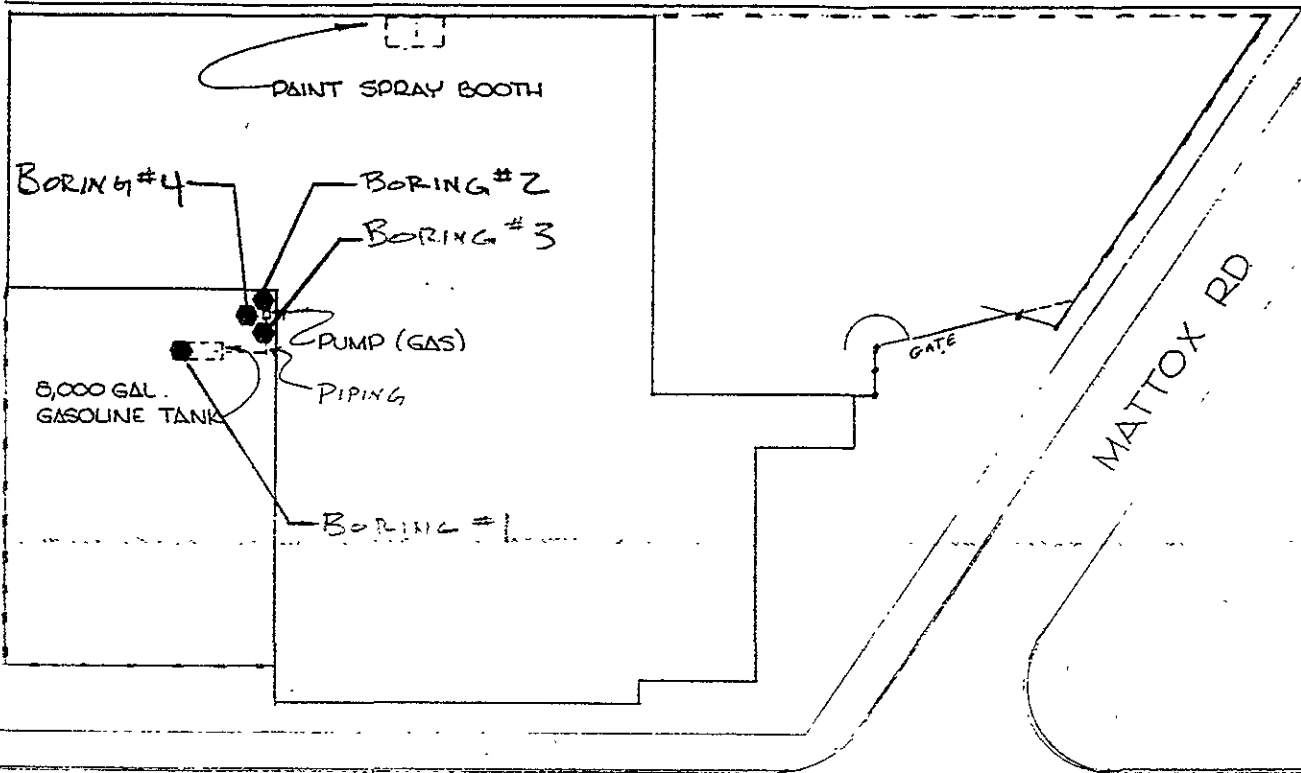
Very Truly Yours



Paul T. Dzakovic  
President

cc Peterson Metal Fabricating  
Att: Mr. Ray Peterson  
w/enclosure

PTD:cmd



MISSION BLVD. (EAST 14TH ST)

<b>A. R. PETERSON &amp; SONS</b> 20478 MISSION BOULEVARD P. O. BOX 3940 HAYWARD, CALIFORNIA 94540		
SCALE 50' = 0-1"	APPROVED BY	DRAWN BY SHE.
DATE 3-10-76		REVISED
PLANT LAYOUT		
		DRAWING NUMBER

DATE PLOT ENDED 10/10/76 (PLANT TRACING YELLUM) 3 PORK RD. 10/14/1978 PARCOUT 6/8/76



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.®

NET Pacific, Inc.  
435 Tesconi Circle  
Santa Rosa, CA 95401  
Tel: (707) 526-7200  
Fax: (707) 526-9623

Paul Dzakowic  
D & D Management Cons., Inc  
PO Box 23040  
San Jose, CA 95153

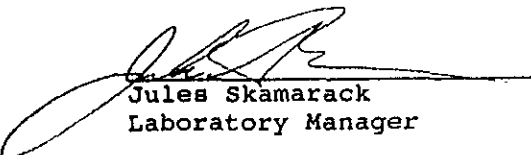
Date: 08-26-91  
NET Client Acct. No: 777  
NET Pacific Log No: 9203  
Received: 08-13-91 0830

Client Reference Information

20478 Mission Blvd

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:



Jules Skamarack  
Laboratory Manager

Enclosure(s)



Client Acct: 777  
 Client Name: D & D Management Cons., Inc  
 NET Log No: 9203

Date: 08-26-91  
 Page: 2

NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: E. side 5' 08-09-91 0835  
 LAB Job No: (-94437 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
METHOD GC FID/5030				
as Gasoline		1	ND	mg/Kg
METHOD 8020				
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*Waste? gas pump*

**NET**

NET Pacific, Inc

Client Acct: 777  
@Client Name: D & D Management Cons., Inc  
NET Log No: 9203Date: 08-26-91  
Page: 3

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: E. side 10' 08-09-91 0845  
LAB Job No: (-94438 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (SOIL)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
METHOD GC FID/5030			--	
as Gasoline		1	ND	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*gas pump*



Client Acct: 777  
 Client Name: D & D Management Cons., Inc  
 NET Log No: 9203

Date: 08-26-91  
 Page: 4

NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: W. side 5' 08-09-91 0855  
 LAB Job No: (-94439 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
METHOD GC FID/5030				
as Gasoline		1	ND	mg/Kg
METHOD 8020				
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*gas pump*



Client Acct: 777  
 Client Name: D & D Management Cons., Inc  
 NET Log No: 9203

Date: 08-26-91  
 Page: 5

NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: W. side 10' 08-09-91 0907  
 LAB Job No: (-94440 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (SOIL)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
METHOD GC FID/5030			--	
as Gasoline		1	ND	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*gas pump*





Client Acct: 777  
 Client Name: D & D Management Cons., Inc  
 NET Log No: 9203

Date: 08-26-91  
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NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: N. side 5' 08-09-91 0915  
 LAB Job No: (-94441 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			08-20-91	
METHOD GC FID/5030			--	
as Gasoline		1	ND	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-20-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*gas pump*

**NET**Client Acct: 777  
Client Name: D & D Management Cons., Inc  
NET Log No: 9203Date: 08-26-91  
Page: 7

NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: N. side 10' 08-09-91 0925  
LAB Job No: (-94442 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (SOIL)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
METHOD GC FID/5030			--	
as Gasoline		1	ND	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-13-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*gas pump*



Client Acct: 777  
 Client Name: D & D Management Cons., Inc  
 NET Log No: 9203

Date: 08-26-91  
 Page: 8

NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: N. end 12' 08-09-91 1100  
 LAB Job No: (-94443 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
METHOD GC FID/5030				
as Gasoline			1	mg/Kg
METHOD 8020				
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg

*tank pit*



Client Acct: 777  
 Client Name: D & D Management Cons., Inc  
 NET Log No: 9203w

Date: 08-26-91  
 Page: 9

NET Pacific, Inc

Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: N. side 41' 08-09-91 1020  
 LAB Job No: (-94444 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (WATER)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	0.09	mg/L
METHOD 602			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
Benzene		0.5	1.7	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	ND	ug/L
Xylenes, total		0.5	ND	ug/L

~~XXXXXXXXXX~~  
 Dispenser  
 Water Sample



NET Pacific, Inc

Client Acct: 777  
@Client Name: D & D Management Cons., Inc  
NET Log No: 9203w

Date: 08-26-91  
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Ref: 20478 Mission Blvd

SAMPLE DESCRIPTION: trip blank  
LAB Job No: (-94445 )

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (WATER)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	ND	mg/L
METHOD 602			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-14-91	
Benzene		0.5	ND	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	ND	ug/L
Xylenes, total		0.5	ND	ug/L

**NET**

NET Pacific, Inc

Client Acct: 777  
©Client Name: D & D Management Cons., Inc  
NET Log No: 9203Date: 08-26-91  
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Ref: 20478 Mission Blvd

## QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	105	ND	108	113	4.4
Benzene	0.5	ug/L	95	ND	103	106	2.4
Toluene	0.5	ug/L	97	ND	102	104	1.5
Gasoline	1	mg/Kg	99	ND	82	72	13
Benzene	2.5	ug/Kg	114	ND	88	84	4.7
Toluene	2.5	ug/Kg	116	ND	92	87	5.6
Gasoline	1	mg/Kg	101	ND	89	94	5.4
Benzene	2.5	ug/Kg	97	ND	87	97	11
Toluene	2.5	ug/Kg	98	ND	93	94	1.1

COMMENT: Blank Results were ND on other analytes tested.



NET Pacific, Inc.

## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- \* : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

### Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

# CHAIN OF CUSTODY RECORD

PROJECT NO.		SITE NAME & ADDRESS					ANALYSES REQUESTED						REMARKS
		20478 Mission Blvd					TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & B, T, X, & E	Total Oil & Grease	Halogenated HC's	B, T, X & E	Heavy Metals	
WITNESSING AGENCY / INSPECTOR NAME / DATE												REMARKS	
ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION								
	8/9/91	0835	X		EAST SIDE of DISPENSER @ 5'							10 DAY TURN-AROUND  CUSTODY CLEARED 8/12/91 @ 19:00	
	8/9/91	0845	X		EAST SIDE of DISPENSER @ 10'								
	8/9/91	0855	X		WEST SIDE of DISPENSER @ 5'								
	8/9/91	0907	X		WEST SIDE of DISPENSER @ 10'								
	8/9/91	0915	X		NO. SIDE of DISPENSER @ 5'								
	8/9/91	0925	X		NO. SIDE of DISPENSER @ 10'								
	8/9/91	1100	X		NO. END of GAS TANK @ 7'								
	8/9/91	1030	X		NO. SIDE of DISPENSER @ 4'								
					TRIP BLANK								

Relinquished by: <i>[Signature]</i>	Date/Time: 8/9/91 14:10	Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>	Date/Time: 8/12/91 19:00	Received by: <i>[Signature]</i>	
Relinquished by: _____	Date/Time: _____	Received by: _____	

The following MUST BE completed by the laboratory receiving samples for analysis:	
1. Have all samples received in a clean, leak-proof container?	yes
2. Will samples remain refrigerated until analyzed?	yes
3. Did any samples received for analysis have headspace?	no
4. Was the sample properly labeled?	yes
5. Was the sample properly sealed?	yes
6. Was the sample properly stored?	yes
7. Was the sample properly handled?	yes
8. Was the sample properly analyzed?	yes
9. Was the sample properly reported?	yes
10. Was the sample properly disposed of?	yes

A. Lopez      8-13-91 0830      Sample received 8-13-91