

December 10, 1990 BEI Job No. 89070

90 ETC 12 FI11: 01

Mr. Dennis Byrne Alameda County Health Care Services Agency Division of Hazardous Materials Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Subject:

Quarterly Groundwater Sampling

Peterson Properties 1301 - 65th Street Emeryville, California

Dear Mr. Byrne:

This letter report documents the fourth round of quarterly groundwater sampling for the second year at the subject site.

The existing monitoring well (MW-1), shown on the enclosed site plan, was sampled on November 12, 1990. The well was purged prior to sampling by removal of three well casing volumes of water. A representative sample was collected with a Teflon bailer and placed in three 40-milliliter volatile organics analysis (VOA) vials provided by the laboratory. The Well Purging and Sampling Data sheet for this well is enclosed. The sample containers were packed on ice and delivered via courier to NET Pacific, Inc., a California-certified laboratory. The sample was analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline using modified EPA Method 8015 and benzene, toluene, xylenes and ethylbenzene using EPA Method 602. An equipment blank was collected after initial decontamination of the bailer, but was not analyzed by the laboratory.

As indicated in the enclosed analytical report, TPH as gasoline, benzene, and toluene were detected in the sample at concentrations of 180 parts per billion (ppb), 9.4 ppb, and 1.8 ppb, respectively. Ethylbenzene and xylenes were not found above the method detection limit of 0.5 ppb.

A table summarizing the depth to water measurements and water sample analytical results for the second year of groundwater sampling at this site is enclosed.

Mr. Dennis Byrne Alameda County Health Care Services Agency December 10, 1990 Page Two

If you have any questions, please contact me at (415) 521-3773.

Cordially,

BLYMYER ENGINEERS, INC.

Michael S. Lewis

Manager, UST Services

enclosures

cc:

Mr. Lester Feldman, RWQCB

Mr. Ed Peterson

Mr. Robert Coussan

Mr. Charles Gensler

Mr. Lawrence C. Jones, Jr.

Rick Griffith, Esq.

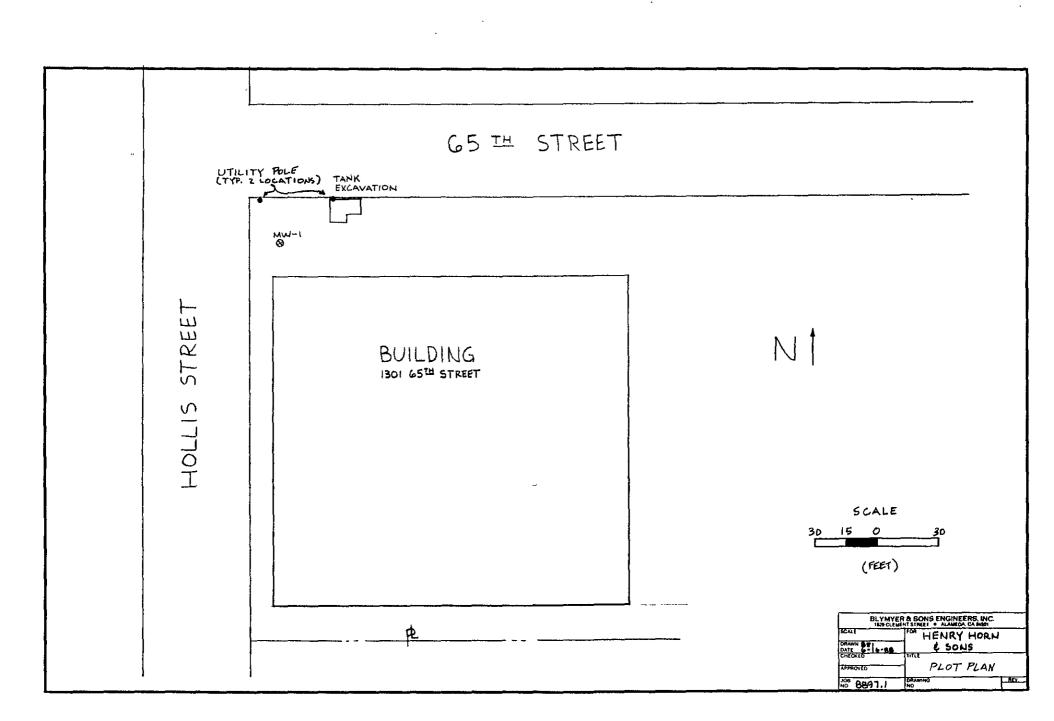
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SUMMARY OF DEPTH TO WATER AND WATER SAMPLE ANALYTICAL RESULTS FOR THE PERIOD 2/90 TO 11/90

	2/8/90	<u>5/10/90</u>	<u>8/8/90</u>	11/12/90
Depth to Water (feet)	3.67	3.90	3.99	4.45
Analytical Decrease				
Analytical Parameter				
TPH as gasoline (ppb)	560	290	620	180
Benzene (ppb)	440	200	430	9.4
Toluene (ppb)	5.6	<3	<5	1.8
Xylenes, total (ppb)	13	<10	<10	<0.5
Ethylbenzene (ppb)	<10	<5	25	<0.5

TPH = Total Petroleum Hydrocarbons

ppb = Parts Per Billion



WELL PURGING AND SAMPLING DATA

DATE: 11/12/90	PROJECT NUMBER:_	89070	PROJECT NAME: Pete	erson - Emeryville
WELL NUMBER MW-1	BORING DIAMETER	8"	CASING DIAMETER	2"
Column of Liqui	d in Well	Volume to	be Removed	
Depth to produc	t <u>N/A</u>	gal per f	t of casing water	= 0.17 = 18.55'
Depth to water	4.45	volume of	casing volumes	= 3.15g
Total depth of	well23'			x <u>3</u>
Column of water	18.55'		unic co	<u>9.45g</u>
Method of measu	ring liquid_	Oil/water i	nterface pro	bbe
Method of purgi	ng well Har	nd bailing		rate <u>N/A</u>
Method of decon	TSP solut	ion/distil]	led water rin	ise
Physical appear	ance of water	(clarity,	color, parti	culates, odor)
Initial	Clear, sligh	nt petroleum	n odor	
During	Slightly sil	lty, petrole	eum odor	
Final	Silty, petro	oleum odor		
Field Analysis	<u>Initial</u>	Dur	ing	Final
Time	-14:35	14:43	14:49	14:55
Conductivity	1768	1731	1701	1746
рН	6.24	6.53	6.64	6.71
Temperature	70.1	67.9	66.8	<u>65.1</u>
Method of measu	rement Hydac	meter		
Total volume pu	rged 9.5 gal			
Comments				
Sample Number _	MW-1	Amount of	Sample 3 -	40-ml VOAs
Signed/Sampler_			Date	
Signed/Reviewer			Date	



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Michael Lewis Blymyer Engineers, Inc 1829 Clement Ave Alameda, CA 94501 Date: 12-05-90 NET Client Acct. No: 495 NET Pacific Log No: 4902 Received: 11-13-90 0800

95 1902

Client Reference Information

Peterson, Emeryville; Project: 89070

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)



NET Pacific, Inc.

Xylenes, total

Client Acct: 495

Client Name: Blymyer Engineers, Inc

NET Log No: 4902

Date: 12-05-90

ug/L

Page: 2

Ref: Peterson, Emeryville; Project: 89070

SAMPLE DESCRIPTION: MW-1

11-12-90

1500

LAB Job No:

LAB Job No: ((- 67970)			
Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS	5			
VOLATILE (WATER)				
DILUTION FACTOR *			1	
DATE ANALYZED			11-26-90	
METHOD GC FID/5030				
as Gasoline		0.05	0.18	mg/L
METHOD 602				
DILUTION FACTOR *			1	
DATE ANALYZED			11-26-90	
Benzene		0.5	9.4	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	1.8	ug/L

ND

0.5



NET Pacific, Inc.

Client Acct: 495

Client Name: Blymyer Engineers, Inc NET Log No: 4902

Date: 12-04-90

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Ref: Peterson, Emeryville; Project: 89070

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	102	ND	93	95	1.0
Benzene	0.5	ug/L	92	ND	93	96	3.2
Toluene	0.5	ug/L	102	ND	96	97	1.0

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, wet-weight basis (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 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram

of sample, wet-weight basis (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, 16th Edition, APHA, 1985.

BEI Field Services

1829 Clement Avenue Alameda, CA 94501

CHAIN OF CUSTODY RECORD

4902

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