BLYMYER ENGINEERS, INC. 1829 Clement Avenue Alameda, California 94501-1396 (510) 521-3773 FAX: (510) 865-2594 STID 363 Alameda Co. Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

We are sending you

☐ Copy of letter

☐ For signature

☐ For payment

☐ As requested

☐ For approval

☐ FOR BIDS DUE

☐ Invoice

DATE February 13, 1995	BEI Job No. 89070
ATTENTION: SUSAN HUGO)
^{CITY:} EMERYVILLE	
sic-	
COMPONENT:	
PM: MICHAEL S. 1	LEWIS

☐ Specifications

☐ Resubmit copies for approval

☐ Submit copies for distribution

☐ Return___corrected prints

LETTER OF TRANSMITTAL

Copies	Date	Number	Description	
1	2/13/95		QUARTERLY GROUNDWATER MONITORING	
			1301-65TH STREET	
· · · ·				-
	· · · · ·			

□/Work Order

Change Order

☐ Report

☐ Prints

☐ Plans

REMARKS:

THE ENCLOSED QUARTERLY GROUNDWATER MONITORING REPORT IS FOR YOUR USE.

COPY TO: CAROLINE BAXTER

SIGNED:

MICHAEL S. LEWIS/DS

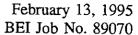
☐ Approved as submitted

☐ Returned for Corrections

☐ For review and comment

☐ Approved as noted

☐ For your use/files





Ms. Caroline Baxter 1301 65th Street Association 1939 Harrison Street, Suite 605 Oakland, CA 94612

Subject:

Quarterly Groundwater Monitoring

1301 65th Street Emeryville, California

Dear Ms. Baxter:

This letter constitutes the quarterly groundwater monitoring report for the period October 1994 through December 1994 for the subject site. This work was performed in accordance with the letter from Blymyer Engineers to the Alameda County Department of Environmental Health (ACDEH), dated July 11, 1994, and the letter from the ACDEH to Mr. Charles Gensler, dated October 14, 1994.

1.0 Introduction

1.1 Background

One 2,000-gallon gasoline underground storage tank (UST) was removed from the subject site on June 9, 1988. The UST removal was performed for the previous property owner, Mr. Charles Gensler, under the supervision of Blymyer Engineers. The UST was installed in 1952 and had been out-of-service since 1972. The UST was inspected upon removal and two 1-inch-diameter holes were found. Groundwater infiltrated the excavation to a depth of approximately 12 feet below ground surface (bgs). A sheen was visible on the groundwater in the excavation. Three soil samples were collected from the bottom of the excavation and analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Only one soil sample contained detectable concentrations of TPH as gasoline at 180 milligrams per kilogram (mg/kg), or parts per million, and benzene at 0.053 mg/kg. The UST backfill material, consisting of partially cemented foundry sand, was excavated, aerated on-site, and properly disposed of off the site.

One 23-foot-deep, 2-inch-diameter groundwater monitoring well, MW-1, was installed by Blymyer Engineers on June 8, 1988, in the inferred downgradient direction (southwest). The



monitoring well was installed 25 feet from the UST excavation, rather than within 10 feet as specified in the Regional Water Quality Control Board's *Tri-Regional Guidelines*, due to the presence of an overhead power line. Soil samples were collected during the installation of the monitoring well at approximate depths of 5, 10, and 15 feet bgs. The soil samples were analyzed for TPH as gasoline and BTEX. In the soil sample collected at approximately 5 feet bgs, TPH as gasoline was detected at 35 mg/kg, benzene at 0.580 mg/kg, toluene at 0.460 mg/kg, ethylbenzene at 0.670 mg/kg, and total xylenes at 4.9 mg/kg. In the soil sample collected at approximately 10 feet bgs, TPH as gasoline was detected at 0.630 mg/kg and benzene at 0.020 mg/kg. TPH as gasoline and BTEX were not detected in the soil sample collected at approximately 15 feet bgs.

Groundwater was encountered initially during drilling at a depth of approximately 14.5 feet bgs and stabilized at a depth of approximately 3 to 4 feet bgs. The site stratigraphy generally consisted of clay with varying amounts of silt and sand.

A groundwater sample was initially collected from well MW-1 on June 10, 1988, and quarterly groundwater sampling was performed from February 1989 to May 1991. Quarterly groundwater sampling was resumed in May 1994. The groundwater sample analytical results for all previous sampling events are summarized in Table I.

A neighboring site file review was performed in May 1994 to establish the regional groundwater flow direction. Based on the review of the ACDEH files for several neighboring sites, groundwater in the immediate vicinity of the subject site appears to flow generally towards the west to southwest, which is towards San Francisco Bay.

1.2 Site Conditions

The subject site is located in an industrial area in northern Emeryville, California (Figure 1). The site consists of a single building surrounded by asphalt and concrete paving. The former gasoline UST was located in the northwest portion of the site in a former automobile parking area (Figure 2). The site is presently occupied by Sybase, a computer software developer.

The site is located approximately 2,500 feet east of San Francisco Bay at an approximate elevation of 20 feet above mean sea level.



2.0 Data Collection

2.1 Groundwater Elevation Measurements

In accordance with the requirements in the letter from the ACDEH, dated October 14, 1994, the top-of-casing (TOC) elevation for well MW-1 at the subject site was surveyed relative to the TOC of well MW-1 at the adjacent Rix Industries site. The TOC elevations for wells MW-1, MW-2, and MW-3 at the Rix Industries site were previously surveyed by Hageman-Aguiar, Inc., the environmental consultant for the Rix Industries site, relative to an arbitrary datum of 100.00 feet, set for the TOC of well MW-1. The depths to groundwater in well MW-1 at the subject site and wells MW-1, MW-2, and MW-3 at the Rix Industries site were measured by Blymyer Engineers and Hageman-Aguilar prior to coordinated sampling on November 11, 1994. The TOC elevations, depths to groundwater, and groundwater elevations for these four wells are summarized in Table II.

2.2 Groundwater Sample Collection

A groundwater sample was collected from well MW-1 at the subject site by Blymyer Engineers on November 11, 1994. Prior to sampling, approximately three well casing volumes (10.25 gallons) of groundwater were purged from the well using a disposable polyethylene bailer and placed in a DOT-approved, 55-gallon drum for later disposal by the client. Temperature, conductivity, and pH were measured initially and after the removal of each well casing volume. A representative groundwater sample was collected and placed in three 40-milliliter vials, containing hydrochloric acid preservative, provided by the laboratory. The vials were fitted with Teflon®-lined lids, labeled, and placed in a cooler with blue ice. The Well Purging and Sampling Data form is included in Appendix A.

2.3 Analytical Methods and Results

The groundwater sample was delivered via courier to National Environmental Testing, Inc. (NET), a California-certified analytical laboratory, and analyzed for TPH as gasoline using modified EPA Method 8015 and BTEX using EPA Method 8020. The analytical results are summarized in Table I and the laboratory report is included in Appendix A.



3.0 Data Interpretation

3.1 Groundwater Gradient

The depth to groundwater in well MW-1 has decreased 1.34 feet since the last groundwater sampling event. Based on the groundwater elevations in well MW-1 and the wells at the neighboring Rix Industries site, the direction of groundwater flow on November 11, 1994, was determined to be generally to the southwest (Figure 2), which is generally consistent with the flow direction determined at nearby sites. The approximate groundwater gradient was 0.059 feet per foot. The interpretation of groundwater contours depicted in Figure 2 was made within the confines of the spatial distribution of the data points.

3.2 Discussion of Groundwater Sample Analytical Results

TPH as gasoline and ethylbenzene were not found in the groundwater sample above the respective method reporting limits. Benzene, toluene, and total xylenes were detected in the groundwater sample at concentrations of 28, 4.3, and 5.0 micrograms per liter (µg/L), respectively. This represents an increase in benzene, toluene, and total xylenes concentrations since the last groundwater sampling event. However, the benzene concentration is still well below the historical high concentration of 440 µg/L in the February 1990 groundwater sampling event.

4.0 Additional Information

The following additional information is provided in response to the issues presented in the letter from the ACDEH to Mr. Charles Gensler, dated October 14, 1994. The numbering of the items is the same as those in the ACDEH letter:

- #2 A Bore & Well Construction Log for well MW-1 at the subject site is presented as Appendix B.
- #3 The petroleum-contaminated soil excavated to remove the gasoline UST was aerated onsite to reduce the TPH concentrations to less than 100 mg/kg. The aerated soil was then transported for disposal at West Contra Costa Landfill in Richmond, California. Copies of the analytical report for the soil samples collected after aeration and a letter and check from Blymyer Engineers to West Contra Costa Landfill for the disposal of the soil are



presented as Appendix C. No weight tickets or other documentation for the soil disposal were provided by West Contra Costa Landfill.

#5 The former UST at the subject site only stored gasoline. The Underground Tank Closure/Modification Plans for the removal of this UST incorrectly stated that the UST stored diesel.

5.0 Recommendations

A copy of this report should be submitted to the following regulatory agencies:

Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502 Attn: Susan Hugo

California Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, CA 94612 Attn: Richard Heitt

Blymyer Engineers recommends that quarterly groundwater elevation measurements and sampling, coordinated with the Rix Industries site, be continued in accordance with ACDEH requirements.

6.0 Limitations

Services performed by Blymyer Engineers, Inc. have been provided in accordance with generally accepted professional practices for the nature and conditions of similar work completed in the same or similar localities, at the time the work was performed. The scope of work for the project was conducted within the limitations prescribed by the client. This report is not meant to represent a legal opinion. No other warranty, expressed or implied, is made. This report was prepared for the sole use of 1301 65th Street Association.



If you have any questions, please contact Mike Lewis at (510) 521-3773.

Cordially,

Blymyer Engineers, Inc.

Michael S. Lewis

Vice-President, Technical Services

John Morrison, R.G.

Director, Earth Sciences

No. 5773 Q Exp. 2/28/97

cc: Mr. Robert Coussan

Mr. Charles Gensler Joe Armao, Esq.

Enclosures:

Table I:

Summary of Groundwater Sample Analytical Results

Table II:

Groundwater Elevations

Figure 1:

Site Location Map

Figure 2:

Site Plan

Appendix A:

Well Purging and Sampling Data Form, August 2, 1994, and

Laboratory Report, NET, August 16, 1994

Appendix B:

Bore & Well Construction Log, MW-1

Appendix C:

Laboratory Report, NET Pacific, August 29, 1988, and Letter and

Check from Blymyer Engineers, Inc. to West Contra Costa

Landfill, September 23, 1988

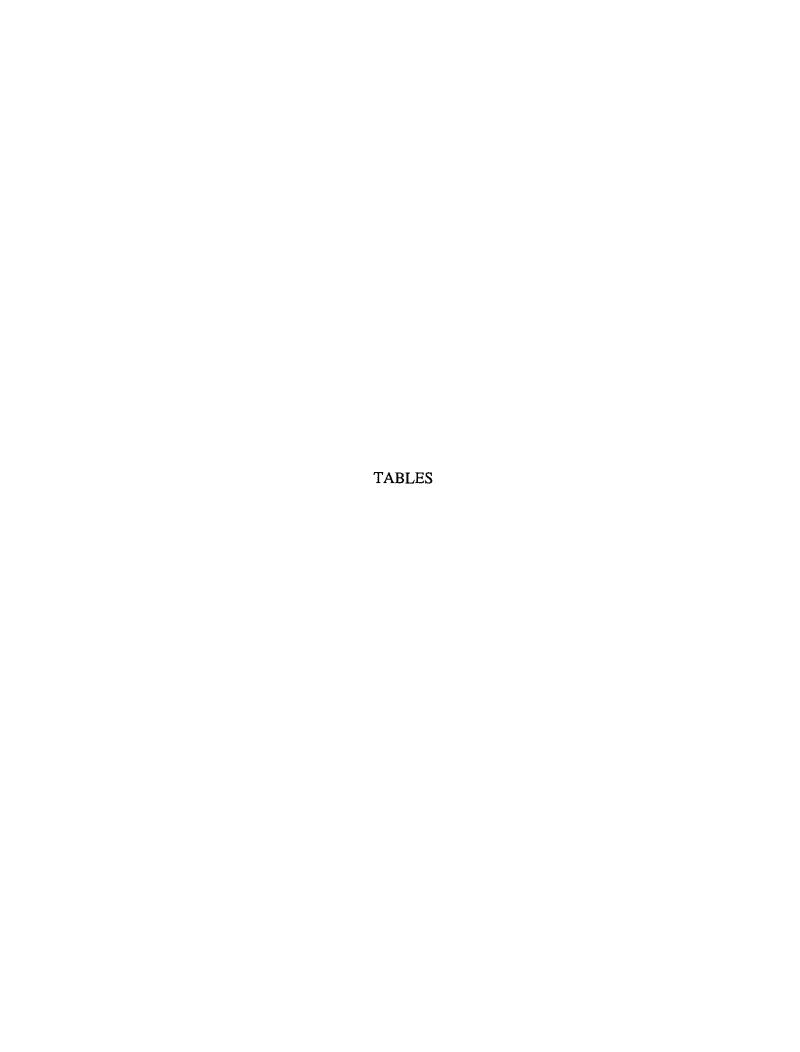


Table I, Summary of Groundwater Sample Analytical Results 1301 65th Street Association 1301 65th Street, Emeryville, California BEI Job No. 89070

Monitoring	Sampling	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
Well	Date	8015M	8020	8020	8020	8020
		mg/L	µg/L	µg/L	µg/L	µg/L
MW-1	6/10/88*	1.4	<3	<10	<4	15
	2/13/89	0.21	<1	<0.9	5.6	<2
	5/8/89	0.36	79	<2	7.5	<4
	8/8/89	0.24	21	<2	5.2	<7
	11/8/89	0.44	270	<3	5.9	<9
	2/8/90	0.56	440	5.6	13	<10
	5/10/90	0.29	200	<3	<5	<10
	8/8/90	0.62	430	<5	25	<10
	11/12/90	0.18	9.4	1.8	<0.5	<0.5
	2/11/91	1.3	45	1.9	4.8	0.7
	5/14/91	1.0	61	<0.5	9.5	1.9
	5/2/94	<0.05	<0.5	<0.5	<0.5	<0.5
	8/2/94	<0.05	31	<0.5	3.4	2.7
	8/25/94	<0.05	13	<0.5	<0.5	<0.5
	11/11/94	<0.05	28	4.3	<0.5	5.0

^{*} Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 624

TPH = Total Petroleum Hydrocarbons

mg/L = milligrams per liter (parts per million)

 $\mu g/L$ = micrograms per liter (parts per billion)

Note: For results shown as <x, x represents the method reporting limit.

Table IL, Groundwater Elevations 1301 65th Street Association/Rix Industries 1301 65th Street/6460 Hollis Street, Emeryville, California BEI Job No. 89070

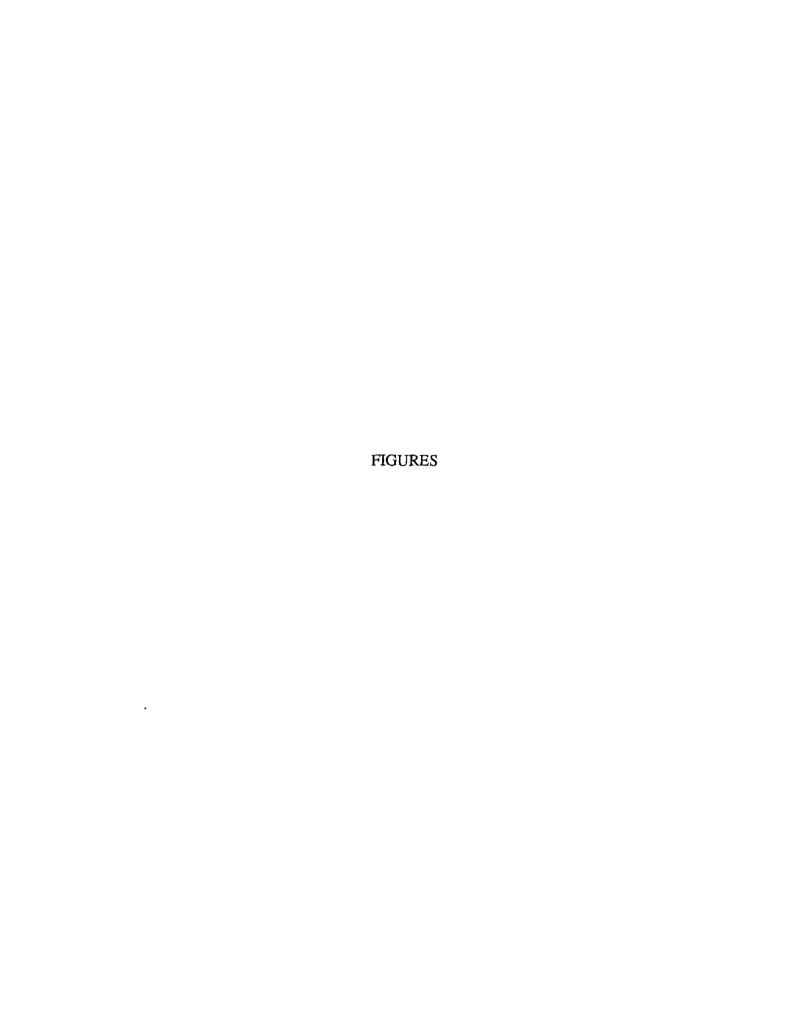
Monitoring Well	Date	TOC Elevation* (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1 ¹	11/11/94	100.66	2.24	98.42
MW-1 ²	11/11/94	100.00	2.08	97.92
MW-2 ²	11/11/94	100.04	1.89	98.15
MW-3 ²	11/11/94	101.99	2.38	99.61

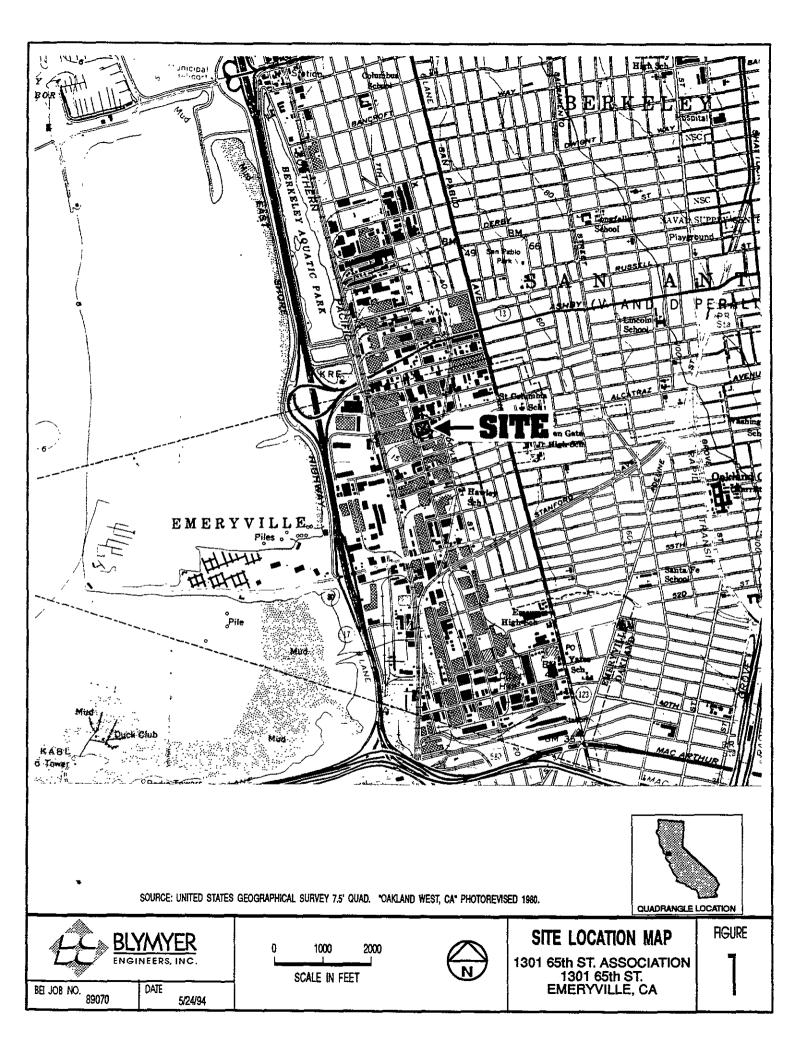
TOC = Top-of-Casing

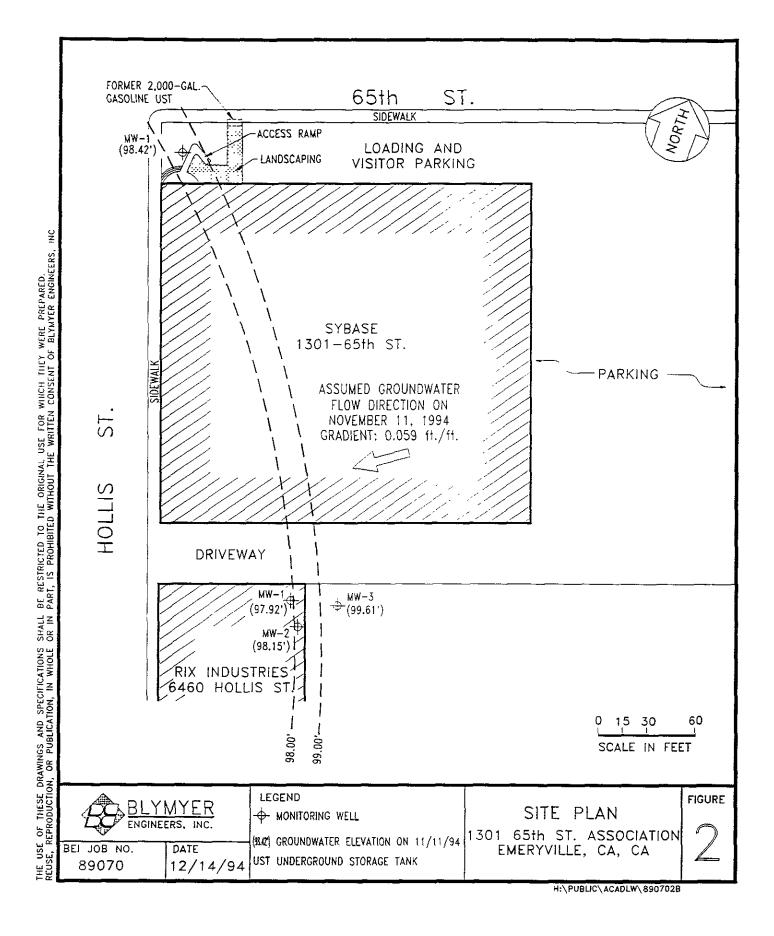
^{*} Arbitrary datum of 100.00 feet is top-of-rim on MW-1 well box at Rix Industries site

¹ Monitoring well at 1301 65th Street Association site

² Monitoring wells at Rix Industries site







APPENDIX A
WELL PURGING AND SAMPLING DATA FORM, NOVEMBER 11, 1994
LABORATORY REPORT, NET, NOVEMBER 21, 1994

Well Purging and Sampling Data

Date	11/11/94	Project Number	89070	Project Name	Peterson
Well Number	MW-1	Boring Diameter	N/A	Casing Diameter	2"

Column of Liquid in Well	Volume to be R	emoved
Depth to product N/A	Gallons per foot of casing	= 0.17 gai/ft.
Depth to water 2.24 ft.	Column of water	× 20.11 ft.
Total depth of well 22.35 ft.	Volume of casing	= 3.4 gal.
Column of water 20.11 ft.	No. of volumes to remove	x 3
	Total volume to remove	= 10.2 gai.

Method of measuring liquid Oil/water interface probe

Method of purging well Disposable polyethylene bailer

Method of decontamination Liqui-nox and distilled water

	Physical appearance of water (clarity, color, particulates, odor)
Initial	Slightly silty, reddish color, no odor
During	Silty, reddish color, no odor
Final	Silty, reddish color, no odor

Field Analysis	Initial	During		Final			
Time	14:10	14:17	14:23	14:29			
Temperature (F)	63.8	64.8	65.8	66.0			
Conductivity (us/cm)	2010	1923	1935	1866			
рН	7.27	6.91	6.57	6.55			
Method of measurement H	ydac meter						
Total volume purged 10.25 gal.							

Sample Number	Amount of Sample
MW-1	3-40ml VOA w/HCl
Λ Λ	

Signed/Sampler Stonk William	Date 11 11 94	
Signed/Reviewer Much . L	Date 11/11/94	



Santa Rosa Division 435 Tesconi Circle Santa Rosa, CA 95401

Tei· (707) 526-7200 Fax· (707) 526-9623

Mike Lewis Blymyer Engineers, Inc 1829 Clement Ave Alameda, CA 94501



Date: 11/21/1994

NET Client Acct. No: 49500 NET Pacific Job No: 94.05495

Received: 11/15/1994 REVISED: 12/02/1994

Client Reference Information

Peterson/Emeryville, CA/89070

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:

Judy Rídley
Project Coordinator

Jim Hoch Operations Manager

Enclosure(s)





Client Name: Blymyer Engineers, Inc Date: 11/21 Client Acct: 49500 ELAP Cert: 1386 NET Job No: 94.05495 Page: 2 NET Job No: 94.05495

Date: 11/21/1994

Ref: Peterson/Emeryville, CA/89070

SAMPLE DESCRIPTION: MW-1

Date Taken: 11/11/1994 Time Taken: 14:35 NET Sample No: 222597

NET Sample No: 222597								Run
			Reporting			Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015							11/17/1994	2312
DILUTION FACTOR*	1						11/17/1994	2312
as Gasoline	ND	**	0.05	mg/L	5030		11/17/1994	2312
METHOD 8020 (GC, Liquid)							11/17/1994	2312
Benzene	28		0.5	ug/L	8020		11/17/1994	2312
Toluene	4.3		0.5	ug/L	8020		11/17/1994	2312
Ethylbenzene	ND		0.5	ug/L	8020		11/17/1994	2312
Xylenes (Total)	5.0		0.5	ug/L	8020		11/17/1994	2312
SURROGATE RESULTS							11/17/1994	2312
Bromofluorobenzene (SURR)	106			% Rec.	5030		11/17/1994	2312

^{** :} The positive result of 0.30 mg/L quantified as Gasoline appears to be a lighter hydrocarbon than gasoline.



 Client Name:
 Blymyer Engineers, Inc
 Date:
 11/21

 Client Acct:
 49500
 ELAP Cert:
 1386

 NET Job No:
 94.05495
 Page:
 3
 NET Job No: 94.05495

Date: 11/21/1994

Page: 3

Ref: Peterson/Emeryville, CA/89070

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

	ccv	CCV Standard	CCV Standard			
	Standard	Amount	Amount		Date	Analyst
<u>Parameter</u>	% Recovery	Found	Expected	Units	Analyzed	Initials
TPH (Gas/BTXE,Liquid)						
as Gasoline	98.0	0.98	1.00	mg/L	11/17/1994	aal
Benzene	109.2	5.46	5.00	ug/L	11/17/1994	aal
Toluene	94.8	4.74	5.00	ug/Ļ	11/17/1994	aal
Ethylbenzene	100.0	5.00	5.00	ug/L	11/17/1994	aal
Xylenes (Total)	100.0	15.0	15.0	ug/L	11/17/1994	aal
Bromofluorobenzene (SURR)	110.0	110	100	% Rec.	11/17/1994	aal



Client Name: Blymyer Engineers, Inc Date: 11/21/1994
Client Acct: 49500 ELAP Cert: 1386 NET Job No: 94.05495

Page: 4

Ref: Peterson/Emeryville, CA/89070

METHOD BLANK REPORT

Method

	Blank				
	Amount	Reporting		Date	Analyst
Parameter	Found	Limit	Units	Analyzed	Initials
TPH (Gas/BTXE, Liquid)					
as Gasoline	ND	0.05	mg/L	11/17/1994	aa1
Benzene	ND	0.5	ug/L	11/17/1994	aal
Toluene	ND	0.5	ug/L	11/17/1994	aal
Ethylbenzene	ND	0.5	ug/L	11/17/1994	aal
Xylenes (Total)	ND	0.5	ug/L	11/17/1994	aal
Bromofluorobenzene (SURR)	103		% Rec.	11/17/1994	aal



 Client Name:
 Blymyer Engineers, Inc
 Date:
 11/21/1994

 Client Acct:
 49500
 ELAP Cert:
 1386

 NET Job No:
 94.05495
 Page:
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 NET Job No: 94.05495

Ref: Peterson/Emeryville, CA/89070

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

	Matrıx Spike	Matrix Spike Dup		Spike	Sample	Matrix Spike	Matrix Spike Dup.		Date	Analyst
Parameter	% Rec.	% Rec.	RPD	Amount	Conc.	Corte.	Conc.	Units	Analyzed	Initials
TPH (Gas/BTXE, Liquid)										
as Gasoline	92.0	87.0	5.6	1.00	ND	0.92	0.87	mg/L	11/17/1994	aal
Benzene	88.1	93.5	5.9	20.1	ND	17.7	18.8	ug/L	11/17/1994	aal
Toluene	96.8	96.8	0.0	55.8	ND	54.0	54.0	ug/L	11/17/1994	aal



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. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.

dw : Result expressed as dry weight.

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 the 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., Rev. 1, December 1987.

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

Revised September, 1993 abb.93

1829 Clement Avenue CHAIN OF CUSTODY RECORD Alameda, CA 94501 (510) 521-3773 FAX (510) 865-2594 JOB# PROJECT NAME/LOCATION 89070 Peterson/Emeryville CA TURNAROUND TIMES tand 2 rd DAY(S) TPH AS DIESEL (MOD EPA 8015) SEMI-VOC (EPA 625/8270) SAMPLERS (SIGNATURE) REMARKS: VOC (EPA 624/8240) BTXE (EPA 8020/602) IRPH (EPA 418.1) # OF CONTAINERS 8 TIME DATE SAMPLE NAME/LOCATION 즲 3 1435 MW-1 REQUESTED BY: RESULTS AND INVOICE TO: Mike Lewis Engineers Fuc_ Clymyor RECOVED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE / TIME RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE / TIME REMARKS: 1/27 WHITE: Accompany Sample YELLOW: BEI, After Lab Signs PINK: Original Sampler

APPENDIX B BORE & WELL CONSTRUCTION LOG, MW-1

BORE & WELL CONSTRUCTION LOG: MW-1 Page 1 of 1 Jab Na.: 89070 Orlling Company: All Terrain Exploration BLYMYER ENGINEERS, INC. Clant Henry Horn and Sons **Driller:** Harry Site: 1301 85th Street Orlling Equipment: Hollow Stem Auger Emeryville, CA Sample Method: Lined Split-spoon Date Drilled: 6/8/88 Bore Diameter: 8 in. Lagged By: S. Castella/ENSCO Env. Services Total Depth: 28 ft. Well Completion Depth: 23 ft. Initial Water Depth: ¥ 14.4 ft. Depths in feet Component Size/Type From Stabilized Water Depth: 📭 Sample Intervals Cored Cored/Malvzed Surface Completion: Flush Traffic Rated Vault with Locking Cap Surface Seat Cement 1.50 00 Classification Annular Seal: Cement (mdd) Ξ Soll Seat Bentonite Blows/8 Sand Pack: #3-18 Sand 2.00 23.50 Graphic Log Unified Depth P.I.D. Bottom Seal: Bentonite 23.50 24.50 Water Depth Blank Casing: 2" Diam. PVC 3.00 25 Screened Casing: 0.02" Slot-2" Diam. PVC 3.00 23.00 LITHOLOGIC DESCRIPTION 0 ASPHALT Sandy GRAVEL FILL Dark brown CLAY, with minor amounts of silt and СН fine grained sand; damp; slight odor Gray-green sandy CLAY; with fine to coarse 7 grained sand; hard; damp; slight odor - 5 15 mottled light brown; few root holes 28 10 silty; very stiff; damp; very slight odor 10 8 10 CH <u>Ų</u> 14.4° 15 less silty; hard; wet; odorless; root holes - 15 13 (0.375-0.825 in. in diameter) 20 gray mottling; odorless; trace organic staining; few 10 20 15 shell fragments 20 19 Light brown sandy CLAY, very silty; very stiff; wet; adorless; one 4 in. thick black silty sand lens CL 25 - 25 11 14 Bore terminated at 28 ft. 30 30

APPENDIX C
LABORATORY REPORT, NET PACIFIC, AUGUST 29, 1988
LETTER AND CHECK FROM BLYMYER ENGINEERS TO WEST CONTRA COSTA
LANDFILL, SEPTEMBER 23, 1988



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

Formerly: ANATEC Labs. Inc.

Sue Black Blymyer Engineers, Inc. 1829 Clement Ave Alameda. SA 94501

08-29-88 NET Pacific Log No: 3914 (1-4) 495/018 Series No:

Client Ref: Project# 88216

Subject: Analytical Results for Four Soil Samples Identified as "Henry Horn & Sons, 1301 65th St., Emeryville, CA" Received 08-09-88.

Dear Ms. Black:

Analysis of the samples referenced above has been completed. This report is written in confirmation of results transmitted verbally on August 29, 1988. Results are presented on the following pages.

Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Kenneth A. Crawford

Project Chemist

Approved by:

Project Manager

/sm

Enc: Sample Custody Document



495/018 LOG NO 3914

- 2 -

August 29, 1988

KEY TO ABBREVIATIONS

mg/Kg (ppm): Concentration in units of milligrams of analyte per

kilogram of sample, wet-weight basis (parts per million).

mg/L : Concenti

: 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.

NA : Not analyzed; see cover letter for details.

NO : Not detected: the analyte concentration is less than the listed

reporting limit.

NR : Not requested.

NTU : Nephelometric turbidity units.

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.

: See cover letter for details.



495/018 LOG NO 3914 ___ - 3 -

August 29, 1988

		Descript	or, Lab No. ar	nd Results (mg/	(Kg)
	Reporting	S-1 08-08-88 1100	S-2 08-08-88 1105	S-3 08-08-88 1110	\$ -4 08 - 08-88 1115
Parameter	Limit (mg/Kg_)	(-13681)	<u>(-13682)</u>	(-13683)	(-13684)
PETROLELM HYDROCARBONS Volatile, as Gasoline	10	NO	18	39	NO
Benzene Toluene Xvlenes, total	0.05 0.05 0.15	ND ND NO	ND ND 0.24	0. 0 62 0.24 0.88	VO VO VO

•		B1 6 (4184)						OF CUST	OD	Y RE	COP	1D			
382	16	HEL	I HA	ME	ORN DRN	ek y vi	JE, CA.	MQ			/	6/		1	TO ANATEC LABS/NET PA SANTA POSA, CAL.
SAMPLER	\$: I#en	10)	de		BEI	D# EDM		/.		/			REMARKS
STA, MO.	DATE	TIME	8	GAAS		STATIO	N LOCATION	TAMERS	1		_	\angle	\angle	/1	
		15.00	T		5-1		Soil Pice	1-5						17	
5-2 5-3		11.05	-	X	5-2 5-3		Soil PILE Soil PILE	-5		}-				7	E STAUDARD 10-DAY TAT
5-4	777			坟	5-4		Soil Pile	1 5	L					工	
														<u> </u>	SAMPLES PACKED ON ICE.
) 		-	-						ļ	 	ļ			NET TO PICK UP SAMPLES
									_	<u> </u>		1		<u>}</u>	
<u></u>	·								-	 -	-			} 	SAMPLES TAKEN AT
														ļ	MREAS LOCATED
										ļ 4	 	1			ON ATTACHED DEAWING
								<u> </u>	_	j	f 	• •	<u> </u>	 	3K-1, DATEID 2/3/32,
	-	ļ,	-	_				<u> </u>	-	_	<u> </u>	ļ		•	"FIRST SAMPLAKE POUNTO".
Ratinguish	yd by: (1		99995 39995	Ł	Malion	• /	Reli	endere)	i	ly: fSq	protes	<u>i. </u>	Date f Time Received by: #S-p-unrel
Ashnowsh	ad by: (<u> Ji o C</u>	1	-		Time	Received by: Iberaryla		Prote	INDPIN	hed b	ry: /\$-	produr	rel	Date / Time Received by: Highward
Mul	Plus	Joru	۵		4/48	19:21	Figure Con to Company	<u> </u>		0+1 79/c	2			Barria	3914
			بديود	••• 0	nymai Auti	hadense E		1991 7 40 Mg F 400	•				L		0.000

3 - 0605

September 23, 1988 BEI Job No. 88216 UPS NEXT DAY AIR

WEST CONTRA COSTA LANDFILL 205-41st Street Richmond, CA. 94805

Attention: Linda

Dear Linda:

Enclosed please find our check #7014 in the amount of \$250.00 for 50 cubic yards of dirt (\$5.00/yard x 50 yards). If there is a difference please bill us or mail a refund to our office. My phone number is 521-3773. The contractor hauling the soil is Pacific Bobcat.

Thank you.

Cordially yours,

BLYMYER ENGINEERS, INC.

Dan Gorecki Environmental Specialist

DG/ds

Attachments

P.S. Enclosed also are lab analytical results and our submittal package.

BLYMYER & SONS ENGINEERS. INC.

1829 CLEMENT AVE. PH. 415-521-3773 ALAMEDA, CA 94501-1396

- Alameda Bank

90-730 1211

7014

Sept. 23, 1988

PAY Two Hundred Fifty and no/100's---------DOLLARS \$ 250_00

WCC Landfill TO

_

THE ORDER OF

205 41st St.

Richmond, CA 94805

Attn: Linda

#121107303# Olo 91109# #007014#

BLYMYER & SONS ENGINEERS, INC. ALAMEDA, CA

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED THECK S IN PAYMENT OF TEMS DESCRIBED BELOW
F NOT JORRECT PLEASE NOTIFY US PROMPTLY NO RECEIPT DESIRED

	DELUXE - FORM WAG-2 4-2						
DATE		DESCRIPTION	AMOUNT				
9/23/88	88216	50 cu. yd. of dirt	250.0				
ļ							
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•							