



# BACE Environmental

A Division Of

Brunsing Associates, Inc.

99-SEP 27 AM 11:43

September 10, 1993

Project No. 29.7

Ms. Normita Callison  
Pacific Coast Building Products  
4290 Roseville Road  
North Highlands, CA 95660

3826

**RE: QUARTERLY GROUNDWATER MONITORING REPORT: JULY 1993  
PACIFIC SUPPLY COMPANY  
1735 24<sup>TH</sup> STREET  
OAKLAND, CALIFORNIA**

Dear Ms. Callison:

This report has been prepared to document groundwater sampling performed by BACE Environmental, a Division of Brunsing Associates, Inc. (BAI) at the Pacific Supply Company property located at 1735 24<sup>th</sup> Street, Oakland, California on July 21, 1993.

### Scope of Work

The scope of work performed during this reporting period included testing for the existence of free product, calculating groundwater elevations, and collecting groundwater samples for on-site monitoring wells MW-1 through MW-5 and off-site wells MW-6 and MW-7 on July 21, 1993.

### Site Background

Monitoring wells MW-1 through MW-5 were constructed by BAI staff on September 13, 1988 as the first phase of a soil and groundwater investigation. Monitoring wells MW-6 and MW-7 were constructed by BAI on December 19, 1989 as Phase II of the same investigation. The construction and sampling of these wells are documented in BAI's Report of Findings, dated March 23, 1990.

Table 1 is a cumulative summary of the groundwater analytical data available for the wells as documented in the March 23, 1990 Report of Findings and subsequent quarterly groundwater monitoring reports.

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September 10, 1993  
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### Groundwater Elevations

Depths to groundwater measurements were obtained on July 21, 1993 for wells MW-1 through MW-7. The groundwater depths and elevations relative to mean sea level are summarized in Table 2. As shown on Figure 1, variations in the groundwater elevations suggest a complex groundwater flow regime at the site.

### Groundwater Sampling

Groundwater monitoring wells MW1-MW7 were sampled on July 21, 1993 using methods described in Appendix A. Free product was not found in any of the wells. Water samples were transported to BACE Analytical and Field Services (BAFS). Groundwater samples were tested for petroleum hydrocarbon constituents and organic lead using the following analytical methods:

- Total Petroleum Hydrocarbons (TPH) as gasoline  
-EPA Test Method 5030/GCFID;
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX)  
-EPA Test Method 5030/8020;
- Organic Lead  
-SWRCB LUFT Method.

### Groundwater Analytical Results

Analytical laboratory reports for the July 21, 1993 groundwater monitoring are summarized in Table 1. A copy of the laboratory reports are attached.

### Hydrocarbons Removed from Site

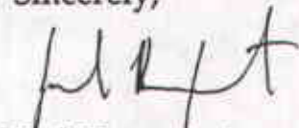
Based on the volume of purge water removed during the sampling and the concentrations of TPH as gasoline, negligible quantities of hydrocarbons were removed from the site during this reporting period.



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September 10, 1993  
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If you have any questions, please contact Mike Velzy at (415) 364-9030.

Sincerely,



Joel Bruxvoort  
Staff Geologist



Thomas P. Brunsing Ph.D., P.E., R.E.A  
Principal Engineer



JBB:jbb

Attachments:      Table 1 – Analytical Data Summary  
                            Table 2 – Groundwater Elevation Data  
                            Figure 1- Groundwater Elevation Contours  
                            Appendix A- Monitoring Well Sampling Protocol  
                            Appendix B -Analytical Laboratory Reports

cc:                      Jennifer Eberle, Alameda County Health Care Services  
                            Tony Dejohn, Pacific Supply Company  
                            Larry Halsey, Pacific Coast Building Products



TABLE 1  
ANALYTICAL DATA SUMMARY  
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-1	10/14/88	1.1	1.1	ND	-	ND	-
MW-1	12/29/89	ND	ND	ND	ND	ND	ND (1)
MW-1	5/28/92	ND	ND	ND	ND	ND	0.003(2)
MW-1	9/3/92	ND	ND	ND	ND	ND	0.12 (2)
MW-1	11/24/92	ND	ND	ND	ND	ND	0.017 (2)
MW-1	3/9/93	ND	ND	ND	ND	ND	ND (1)
MW-1	7/21/93	ND	ND	ND	ND	ND	ND (1)

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-2	10/14/88	11	23	20	-	16	-
MW-2	12/29/89	4	200	6.7	ND	ND	0.22 (1)
MW-2	5/28/92	8.9	550	48	ND	13	ND (2)
MW-2	9/3/92	2.1	760	6.2	1.8	5.1	0.006 (2)
MW-2	11/24/92	4.2	370	15	3.4	9.5	ND (2)
MW-2	3/9/93	4.3	280	14	3.7	7.1	ND (1)
MW-2	7/21/93	3.4	250	9.6	2.5	11	ND(1)

(1) Analysis completed for organic lead

(2) Analysis completed for total lead

ND = not detected at laboratory reporting limit

µg/L = micrograms per liter

mg/L = milligrams per liter



TABLE 1  
ANALYTICAL DATA SUMMARY  
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-3	10/14/88	3.4	ND	ND	-	2.8	-
MW-3	12/29/89	ND	ND	ND	ND	ND	.205 (1)
MW-3	5/28/92	ND	0.8	0.5	ND	ND	.016 (2)
MW-3	9/3/92	ND	ND	ND	ND	ND	0.033 (2)
MW-3	11/24/92	ND	ND	ND	ND	ND	0.011 (2)
MW-3	3/9/93	0.1	1.8	ND	ND	ND	ND(1)
MW-3	7/21/93	ND	ND	ND	ND	ND	ND(1)

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-4	10/14/88	4.6	1.2	ND	-	2.2	-
MW-4	12/29/89	0.5	0.7	ND	ND	ND	ND (1)
MW-4	5/28/92	0.27	8.8	1	ND	3.2	.030 (2)
MW-4	9/3/92	0.20	4.5	4.4	ND	1.9	0.022 (2)
MW-4	11/24/92	0.14	3.2	3.2	ND	1.0	0.005 (2)
MW-4	3/9/93	0.47	10	ND	ND	2.5	ND (1)
MW-4	7/21/93	0.28	4.4	5.9	ND	ND	ND(1)

(1) Analysis completed for organic lead

(2) Analysis completed for total lead

ND = not detected at laboratory reporting limit

µg/L = micrograms per liter

mg/L = milligrams per liter



TABLE 1  
ANALYTICAL DATA SUMMARY  
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-5	10/14/88	3.2	ND	ND	-	ND	-
MW-5	12/29/89	ND	ND	ND	ND	ND	ND (1)
MW-5	5/28/92	ND	ND	ND	ND	ND	.008 (2)
MW-5	9/3/92	ND	ND	ND	ND	ND	0.034 (2)
MW-5	11/24/92	ND	ND	ND	ND	ND	0.011 (2)
MW-5	3/9/93	ND	ND	ND	ND	ND	ND (1)
MW-5	7/21/93	ND	ND	ND	ND	ND	ND(1)

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-6	12/29/89	1.1	5.4	4.5	ND	ND	ND (1)
MW-6	3/9/93	2.3	2.3	2.8	ND	3.1	ND (1)
MW-6	7/21/93	0.59	ND	7.6	ND	ND	ND(1)

(1) Analysis completed for organic lead

(2) Analysis completed for total lead

ND = not detected at laboratory reporting limit

µg/L = micrograms per liter

mg/L = milligrams per liter



TABLE 1  
ANALYTICAL DATA SUMMARY  
PACIFIC SUPPLY COMPANY

Well Identification	Sampling Date	TPH (gasoline) mg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
MW-7	12/29/89	ND	ND	ND	ND	ND	0.235 (1)
MW-7	3/9/93	ND	ND	ND	ND	ND	ND (1)
MW-7	7/21/93	ND	ND	ND	ND	ND	ND(1)

(1) Analysis completed for organic lead

(2) Analysis completed for total lead

ND = not detected at laboratory reporting limit

µg/L = micrograms per liter

mg/L = milligrams per liter



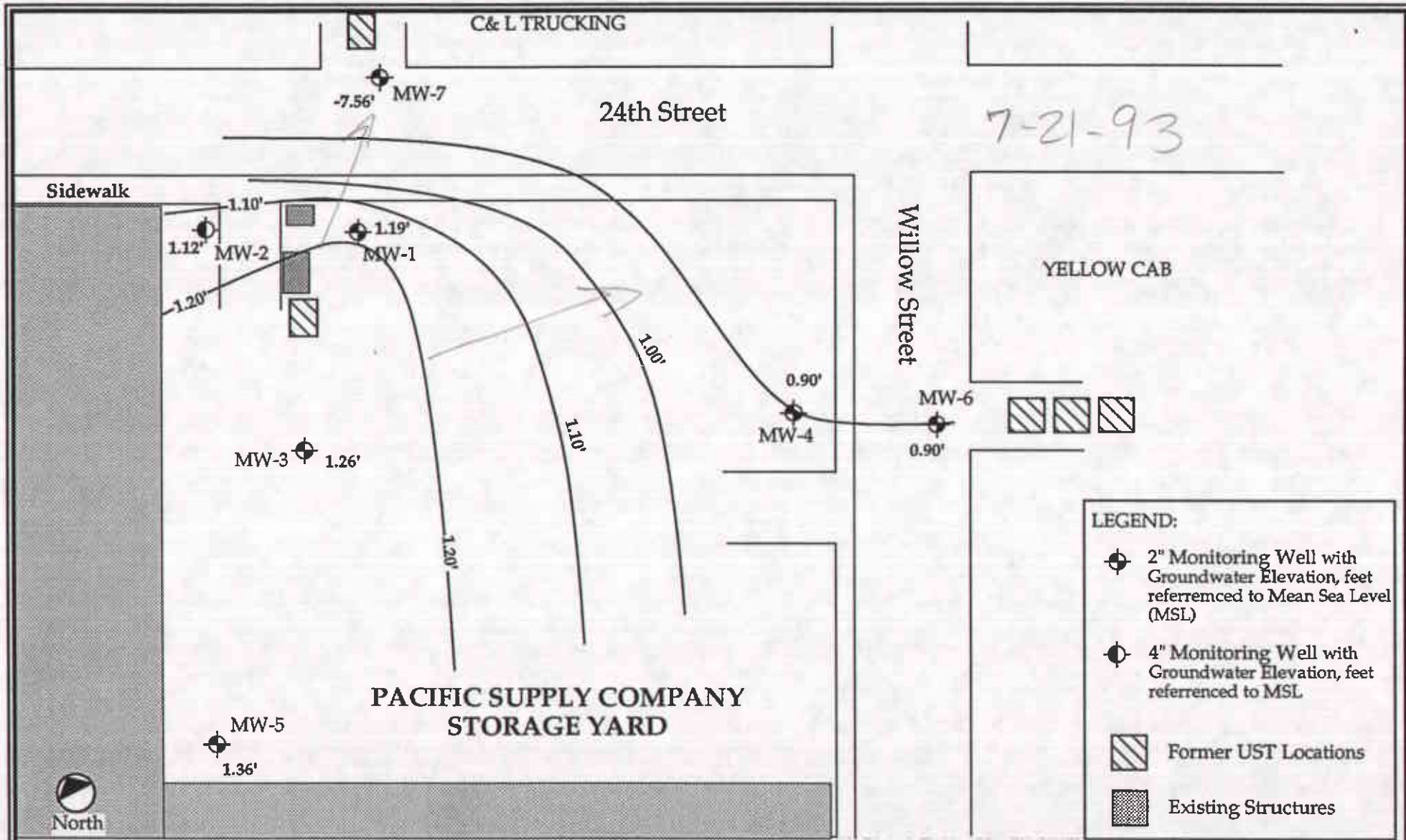
TABLE 2  
GROUNDWATER ELEVATION DATA  
PACIFIC SUPPLY COMPANY

Well Identification	Date Measured	Elevation of Casing (ft, MSL)	Depth to Water (ft)	Groundwater Elevation (ft, MSL)
MW-1	7/21/93	8.87	7.68	1.19
MW-2	7/21/93	8.14	7.02	1.12
MW-3	7/21/93	9.13	7.87	1.26
MW-4	7/21/93	9.07	8.17	0.90
MW-5	7/21/93	8.93	7.57	1.36
MW-6	7/21/93	6.13	5.23	0.90
MW-7	7/21/93	5.03	12.59	-7.56

MSL = referenced to Mean Sea Level







PROJECT NUMBER: 29.7  
 PACIFIC SUPPLY COMPANY  
 OAKLAND, CALIFORNIA

DRAWING NUMBER: 29.7-01

DRAWN BY: JBB 9/10/93

APPROVED BY: MEV 9/10/93

SCALE: 1 Inch = 50 Feet

BACE Environmental  
*a division of*  
**BRUNSING  
 ASSOCIATES, INC.**

**FIGURE 1**

Groundwater Elevation  
 Contours  
 Pacific Supply Company  
 Oakland, California

**APPENDIX A**  
**Monitoring Well Sampling Protocol**



## Monitoring Well Sampling Protocol

Prior to purging of monitoring well, groundwater level are measured and a single bailer full of water is retrieved from the well to check for floating product. The monitoring well is then purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water stabilizes. Purge water is stored on-site in clean, 55-gallon drums.

A single groundwater sample is collected from each monitoring well following re-equilibration of the wells after purging. Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

The sample was collected in the following manner:

- A hand-operated, factory-sealed, disposable, polyethylene bailer with sampling port is used for collecting all water samples. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the sampling port when collecting VOCs.
- The sample container(s) are obtained directly from the analytical laboratory.

The sample container is labeled with a self-adhesive tag. Field personnel label the tag, using waterproof ink, with the following information:

- Project number
- Sample number
- Date and time sample is obtained
- Initials of sample collector(s).

Following collection, the sample is immediately stored on blue ice in an appropriate container. A Chain-of-Custody Record is completed with the following information:

- Date the sample was taken
- Sample number and the number of containers



- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the Chain-of-Custody Record accompanies the sample containers to a California-certified laboratory. The duplicate copy is retained by the BAI representative who sampled the well.

Sample bottles, bottle caps and septa are cleaned by the analytical laboratory subcontractor using standard EPA-approved protocols. Sample bottles, bottle caps, and septa are protected from solvent contact, dust or other contamination between time of receipt by the field sampler and time of actual usage at the sampling site.

Sampling equipment is cleaned both before and after their use at the sampling location. Thermometers, pH electrodes, and conductivity probes are also cleaned.

The following cleaning procedures are used:

- Scrub with a detergent-potable water solution or other solutions deemed appropriate using a hard bristle brush
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Air-dry
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

Cleaning solutions are contained on-site in a clean 55-gallon drum. The drums are labeled pursuant to San Mateo County guidelines.



**APPENDIX B**  
**Analytical Laboratory Reports**





**BACE Analytical & Field Services, Inc.**

P. O. Box 838, Windsor, CA 95492  
707-838-8338 FAX 707-838-4420

August 9, 1993  
Log No: 1795

BACE Environmental  
*a division of*  
Brunsing Associates, Inc.  
1735 East Bayshore Road, Suite 2A  
Redwood City, California 94063

ATTN: Joel Bruxvoort

RE: Results of the analyses of groundwater samples obtained for project number  
29.7 on July 21, 1993.

Dear Mr. Bruxvoort:

This letter serves to confirm the analytical results previously communicated to you.  
Should any questions arise concerning procedure or results, please feel free to  
contact us.

Sincerely,

William G. Rotz  
Director, Mobile Analytical Services

Tami Hucke Norgrove  
Laboratory Manager

Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 1 of 4

Sample Date: 7/21/93  
Analysis Date: 7/28/93 & 8/4/93

BAFS Log No: 1795

METHOD: EPA 5030/8020

Matrix: Water

Results - µg/L

Parameter	Reporting Limit µg/L	Lab No: Descriptor:	1795-1	1795-2
			(MW - 1)	(MW - 2)
Benzene	0.5		ND	250
Toluene	0.5		ND	9.6
Ethylbenzene	0.5		ND	2.5
Xylenes (total)	0.5		ND	11
Dilution Factor:	1			

METHOD: 5030 / GC FID

Results - mg/L

Parameter	Reporting Limit mg/L	Lab No: Descriptor:	1795-1	1795-2
			(MW - 1)	(MW - 2)
TPH - gasoline	0.05		ND	3.4
Dilution Factor:	1			

NOTE: ND = not detected.  
NR= not requested.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 2 of 4

Sample Date: 7/21/93  
Analysis Date: 7/28/93 & 8/4/93

BAFS Log No: 1795

METHOD: EPA 5030/8020

Matrix: Water

Results - µg/L

Parameter	Reporting Limit µg/L	Lab No:	1795-3	1795-4
		Descriptor:	(MW - 3)	(MW - 4)
Benzene	0.5		ND	4.4
Toluene	0.5		ND	5.9
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND

Dilution Factor: 1

METHOD: 5030 / GC FID

Results - mg/L

Parameter	Reporting Limit mg/L	Lab No:	1795-3	1795-4
		Descriptor:	(MW - 3)	(MW - 4)
TPH - gasoline	0.05		ND	0.28

Dilution Factor: 1

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.





Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 3 of 4

Sample Date: 7/21/93  
Analysis Date: 7/28/93 & 8/4/93

BAFS Log No: 1795

METHOD: EPA 5030/8020

Matrix: Water

Results -  $\mu\text{g/L}$

Parameter	Reporting Limit $\mu\text{g/L}$	Lab No: Descriptor:	1795-5 (MW - 5)	1795-6 (MW - 6)
Benzene	0.5		ND	ND
Toluene	0.5		ND	7.6
Ethylbenzene	0.5		ND	ND
Xylenes (total)	0.5		ND	ND

Dilution Factor: 1

METHOD: 5030 / GC FID

Results -  $\text{mg/L}$

Parameter	Reporting Limit $\text{mg/L}$	Lab No: Descriptor:	1795-5 (MW - 5)	1795-6 (MW - 6)
TPH - gasoline	0.05		ND	0.59

Dilution Factor: 1

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.



Client: BACE Environmental  
Client Contact: Joel Bruxvoort

Page: 4 of 4

Sample Date: 7/21/93  
Analysis Date: 7/28/93 & 8/4/93

BAFS Log No: 1795

METHOD: EPA 5030/8020

Matrix: Water

Results -  $\mu\text{g/L}$

Parameter	Reporting Limit $\mu\text{g/L}$	Lab No: Descriptor:	1795-7 (MW - 7)
Benzene	0.5		ND
Toluene	0.5		ND
Ethylbenzene	0.5		ND
Xylenes (total)	0.5		ND
Dilution Factor:	1		

METHOD: 5030 / GC FID

Results -  $\text{mg/L}$

Parameter	Reporting Limit $\text{mg/L}$	Lab No: Descriptor:	1795-7 (MW - 7)
TPH - gasoline	0.05		ND
Dilution Factor:	1		

NOTE: ND = not detected.  
NR = not requested.

BACE Analytical  
& Field Services, Inc.



**SUMMARY OF  
LABORATORY RESULTS \***

**Pacific Supply -- Project No. 29.7**

<b>Sampling Date</b>	<b>Lab Number</b>	<b>Descriptor</b>	<b>Benzene µg/L</b>	<b>Toluene µg/L</b>	<b>Ethylbenzene µg/L</b>	<b>Xylenes µg/L</b>	<b>TPH (gasoline) mg/L</b>
7/21/93	1795-1	MW - 1	ND	ND	ND	ND	ND
7/21/93	1795-2	MW - 2	250	9.6	2.5	11	3.4
7/21/93	1795-3	MW - 3	ND	ND	ND	ND	ND
7/21/93	1795-4	MW - 4	4.4	5.9	ND	ND	0.28
7/21/93	1795-5	MW - 5	ND	ND	ND	ND	ND
7/21/93	1795-6	MW - 6	ND	7.6	ND	ND	0.59
7/21/93	1795-7	MW - 7	ND	ND	ND	ND	ND

*\* See original laboratory report dated 8/9/93 for complete results.*

## QUALITY CONTROL SUMMARY

Client: BACE Environmental  
Client Contact: Joel Bruxvoort  
Sample Date: 7/21/93  
Analysis Date: 7/28/93 & 8/4/93

BAFS Log No. : 1795

Matrix: Water

Parameter	% RECOVERY				
	CCV%*	Blank	Spike	Spike Dup	RPD
Benzene	92	ND	96	97	1.0
Toluene	95	ND	93	96	3.2
Ethylbenzene	105	ND	96	99	3.1
Xylenes	93	ND	97	103	6.0
Gasoline	98	ND	100	101	1.0

\* Continuous Calibration Verification Standard



PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS													No	1616	REMARKS
L.P. NO.		SAMPLERS: (Signature)			Gas	BTEX	Organic Ph													
DATE	SAMPLE ID.		TYPE																	
7-21-93	MW-1 ABC		Water	3	*	*	*											1795-1		
	MW-2 ABC		↓	↓	↓	↓	↓											-2		
	MW-3 ABC		↓	↓	↓	↓	↓											-3		
	MW-4 ABC		↓	↓	↓	↓	↓											-4		
	MW-5 ABC		↓	↓	↓	↓	↓											-5		
	MW-6 ABC		↓	↓	↓	↓	↓											-6		
	MW-7 ABC		↓	↓	↓	↓	↓											-7		
																		Organic Road to N/E 7/28/93 C of C # 1500		

LABORATORY: **BASF**

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 7/28/93 10:00	Received by: (Signature) <i>[Signature]</i>	Remarks
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	

**BRUNTING ASSOCIATES, INC.**

Offices:

PO Box 588 Windsor CA 95492 707-838-3027	1735 E. Bayshore Rd., 2A Redwood City CA 94063 415-364-9031	1515 Ninth Street Rock Springs WY 82901 307-362-9277
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NATIONAL  
ENVIRONMENTAL  
TESTING, INC. ®

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

Dean Aaland  
BACE Analytical  
930 Shiloh Road Bldg 44  
PO Box 749  
Windsor, CA 95492

Date: 08/13/1993  
NET Client Acct. No: 32500  
NET Pacific Job No: 93.03246  
Received: 07/28/1993

**Client Reference Information**

Project Name 1795, Project No. 29.7

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: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
Page: 2

Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-1C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169356

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
Page: 3

Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-2C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169357

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting</u> <u>Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993





Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
Page: 4

Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-3C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169358

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting</u> <u>Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
Page: 5

Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-4C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169359

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
Page: 6

Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-5C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169360

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
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Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-6C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169361

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
ELAP Certificate: 1386  
Page: 8

Ref: Project Name 1795, Project No. 29.7

SAMPLE DESCRIPTION: MW-7C  
Date Taken: 07/21/1993  
Time Taken:  
NET Sample No: 169362

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Org. Lead (FLAA)	ND		1.0	mg/L	DOHS-LUFT	08/02/1993	08/03/1993



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

Date: 08/13/1993  
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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

<u>Parameter</u>	<u>CCV Standard % Recovery</u>	<u>CCV Standard Amount Found</u>	<u>CCV Standard Amount Expected</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Analyst Initials</u>
Org. Lead (FLAA)	102.0	5.1	5.00	mg/L	08/03/1993	ket



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

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## METHOD BLANK REPORT

<u>Parameter</u>	<u>Method Blank Amount Found</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Analyst Initials</u>
Org. Lead (FLAA)	ND	1.0	mg/L	08/03/1993	ket



Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

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### MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Analyst Initials
	% Rec.	% Rec.				Conc.	Conc.			
Org. Lead (FLAA)	51.3	51.3	0.0	8.00	ND	4.1	4.1	mg/L	08/03/1993	ket





Client Acct: 32500  
Client Name: BACE Analytical  
NET Job No: 93.03246

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## LABORATORY CONTROL STANDARD REPORT

<u>Parameter</u>	<u>LCS</u> <u>% Recovery</u>	<u>RPD</u>	<u>LCS</u> <u>Amount</u> <u>Found</u>	<u>LCS</u> <u>Amount</u> <u>Expected</u>	<u>Units</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u> <u>Initials</u>
Org. Lead (FLAA)	71.3		5.7	8.00	mg/L	08/03/1993	ket



## 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,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, 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, 17th Edition, APHA, 1989.

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No 1500

PROJ. NO. 29.7		PROJECT NAME 1795	NO. OF CON- TAINERS	ANALYSIS ORGANIC LEAD	REMARKS
L.P. NO.	SAMPLERS: (Signature)				
DATE	SAMPLE I.D.	TYPE			
7/21/93	MW-1C		1		
	MW-2C				
	MW-3C				
	MW-4C				
	MW-5C				
	MW-6C				
	MW-7C				

**LABORATORY:**

Relinquished by: (Signature) <i>William A. R. J.</i>	Date/Time 7/28/93 13:21	Received by: (Signature) <i>CSF</i>	Remarks
Relinquished by: (Signature) <i>SKG</i>	Date/Time 7/28/93 13:55	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>A. Lopez</i>	



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