WEST ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

January 12, 1996

Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Ms. Juliet Shin
Hazardous Materials Specialist

SUBJECT: SUBMITTAL OF QUARTERLY GROUNDWATER MONITORING REPORT, WEYERHAEUSER PAPER COMPANY, ALAMEDA CORRUGATED BOX FACILITY, 1801 HIBBARD STR., STID 1202

Dear Ms. Shin,

West & Associates Environmental Engineers, Inc. respectfully submits the third quarter 1995 groundwater monitoring report for the Weyerhaeuser Paper Company, Alameda Corrugated Box Facility. This report is submitted in accordance with the interim groundwater monitoring plan proposed in our Site Investigation Report of January 1995.

In October and November of this year soil remedial excavation activities were conducted at the site. During excavation activities, air sparging lines and soil vapor recovery/extraction lines were installed. A soil remedial action report is currently being generated and will be submitted later this month.

We look forward to your review of our quarterly report. Should you require any additional information please contact me at (707) 451-1360.

Yours truly,

Brennan Mahoney
Project Manager
West & Associates Environmental Engineers, Inc.

BGM/di
Enclosure: Third Quarter 1995 WPC Alameda Groundwater Monitoring Report

cc: Ed Granados, Weyerhaeuser Office of the Environment, Tacoma
John Hipner, WPC Alameda

QUARTERLY GROUNDWATER MONITORING REPORT
FORMER UNDERGROUND TANK SITES
JULY - SEPTEMBER 1995

WEYERHAEUSER PAPER COMPANY
ALAMEDA CORRUGATED BOX FACILITY
1801 Hibbard Street
Alameda, California
STID 1202

Submitted to:

ALAMEDA COUNTY
HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
Alameda

Prepared for:

THE WEYERHAEUSER CORPORATION
OFFICE OF THE ENVIRONMENT
TOXIC/SOLID WASTE TEAM
Tacoma, Washington

Prepared by:

WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.
Vacaville

December 1995

EXECUTIVE SUMMARY

The Weyerhaeuser Paper Company (WPC) Alameda facility at 1801 Hibbard Str. manufacturers corrugated cardboard boxes. The facility was originally constructed in 1946. Underground fuel tanks had been historically installed at the facility for vehicle, generator and boiler fuel storage. Both gasoline and diesel fuels were formerly stored underground. The last remaining underground tank was removed from the WPC site in January 1994.

The WPC facility is located on Alameda island in San Francisco Bay. The site is less than 0.25 miles west of the Oakland Inner Harbor. Site soils are predominantly sand with minor clay stringers. Unconfined groundwater is 3-6 feet below ground surface and tidally influenced.

There are two separate areas of groundwater monitoring at the WPC Alameda site. One monitoring well (MW-7) is located at the east end of the property adjacent to a former diesel tank installation. Ten monitoring wells are located near the west end of the property surrounding a former gasoline tank cluster. Monitoring wells MW-1 through MW-7 were installed by Soil Tech Engineers. Monitoring wells MW-9 through MW-12 were installed by West & Associates.

Site investigation at the WPC Alameda facility was concluded in January 1995 with the submittal of a comprehensive report covering all work dating back to 1990. Activity at the site has now shifted to remedial action. In October and November of 1995 contaminated soil was excavated from the site around the former gasoline tank cluster and air sparging lines were installed in the open excavations prior to backfill. Pilot tests will be performed in January 1996 to determine the most effective operation parameters of the newly installed sparging system.

During the remedial excavation program monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-9 were removed. In December 1995 two new wells MW-3B and MW-4B were installed in two locations within the newly backfilled excavation area, near the former locations of MW-3 and MW-4, respectively.

A groundwater monitoring program is in effect at the WPC Alameda site. Groundwater monitoring, which consists of depth to groundwater measurements and collection of groundwater samples for analysis, is conducted quarterly. Third quarter groundwater monitoring activities were conducted on September 26, 1995.

ACKNOWLEDGEMENTS

This report was prepared under authorization of the Weyerhaeuser Corporation, Office of the Environment, Toxic/Solid Waste Team, Tacoma, Washington. The Weyerhaeuser project officer is Ms. Jennifer Strachan, mail stop CH 1K29, Tacoma, WA 98477; (206) 924-6511.

At the WPC plant, both Mr. John Hipner, Plant Engineer and Mr. Tom Muncell, Maintenance Manager, have environmental compliance responsibilities related to this project. The Alameda plant address is 1801 Hibbard Street, PO Drawer X, Alameda, CA 95601; (510) 814-1167.

The lead regulatory agency for the Weyerhaeuser Alameda plant is the Alameda County Health Care Agency, Department of Environmental Health. Ms. Juliet Shin, Hazardous Materials Specialist, is the staff person assigned. The Department of Environmental Health is located at 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577; (510) 567-6700.

In the preparation of this quarterly report reliance was made on past site work performed by Soil Tech Engineering, Inc. Mr. Frank Hamedi was the Soil Tech Engineering employee most closely associated with the Weyerhaeuser Alameda site. The address for Soil Tech Engineering is 298 Brokaw Road, Santa Clara, CA 95050; (408) 496-0265.

Analytical work performed for this quarters monitoring was sub-contracted to Pace Analytical in Petaluma. Pace is certified by the State Department of Health Services for the analyses performed.

This quarterly groundwater monitoring report was prepared by West & Associates Environmental Engineers, Inc. West & Associates is located at 490 Merchant St., Suite 104, Vacaville, CA 95688; mailing address, PO Box 5891, Vacaville 95696; (707) 451-1360. Principal authors are Mr. Brennan Mahoney and Mr. Brian W. West PE. (Registered California Civil Engineer No. 32319 - expires 12/31/96).

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION

This quarter, groundwater monitoring was performed on September 26, 1995. During groundwater sampling activities, all eleven of the existing monitoring wells were inspected for the presence of floating product, measured for depth to groundwater and sampled for chemical analysis.

In the following Sections, monitoring procedures are described, monitoring data is summarized and a discussion of results is presented. Technical data is included in the appendix.

1.1 Scope

The scope of this project included performing quarterly groundwater monitoring at Weyerhaeuser Paper Company (WPC) Alameda property, 1801 Hibbard Str., in Alameda. Figure 1 illustrates the WPC Alameda regional setting. Figure 2 depicts the site location. Specific scope items include:

- Check eleven existing monitoring wells for floating product
- Measure depth to groundwater in all monitoring wells
- Determine the groundwater gradient profile
- Collect groundwater samples from all eleven monitoring wells
- Analyze groundwater samples for contaminants of interest
- Prepare a written report of findings
- Properly manage sampling residues

1.2 Summarized Background

The Weyerhaeuser Paper Company (WPC) Alameda facility located at 1801 Hibbard Str. manufacturers corrugated cardboard boxes. The facility was originally constructed in 1946. Underground fuel tanks (UGT) had been historically installed at the facility for vehicle, generator and boiler fuel storage. Both gasoline and diesel fuels were formerly stored. The last remaining UGT was removed from the WPC site in January 1994.

At the end of 1990 the WPC facility was equipped with five underground fuel storage tanks. The five tanks were distributed in three separate installations located along the northwestern side of the facility.

In early 1991 Weyerhaeuser removed a cluster of three, 1,000 gallon gasoline tanks and one, 10,000 gallon diesel tank. Upon removal, the 10,000 gallon diesel tank installation was found to be virtually uncontaminated, however, significant soil and groundwater contamination was encountered at the gasoline tank cluster location.

The tank removal contractor performed overexcavation at the gasoline tank cluster location in an attempt to remediate soil contamination. Between February and April 1991 the tank excavation was enlarged from 460 ft^2 to 640 ft^2 and then to 930 ft^2.

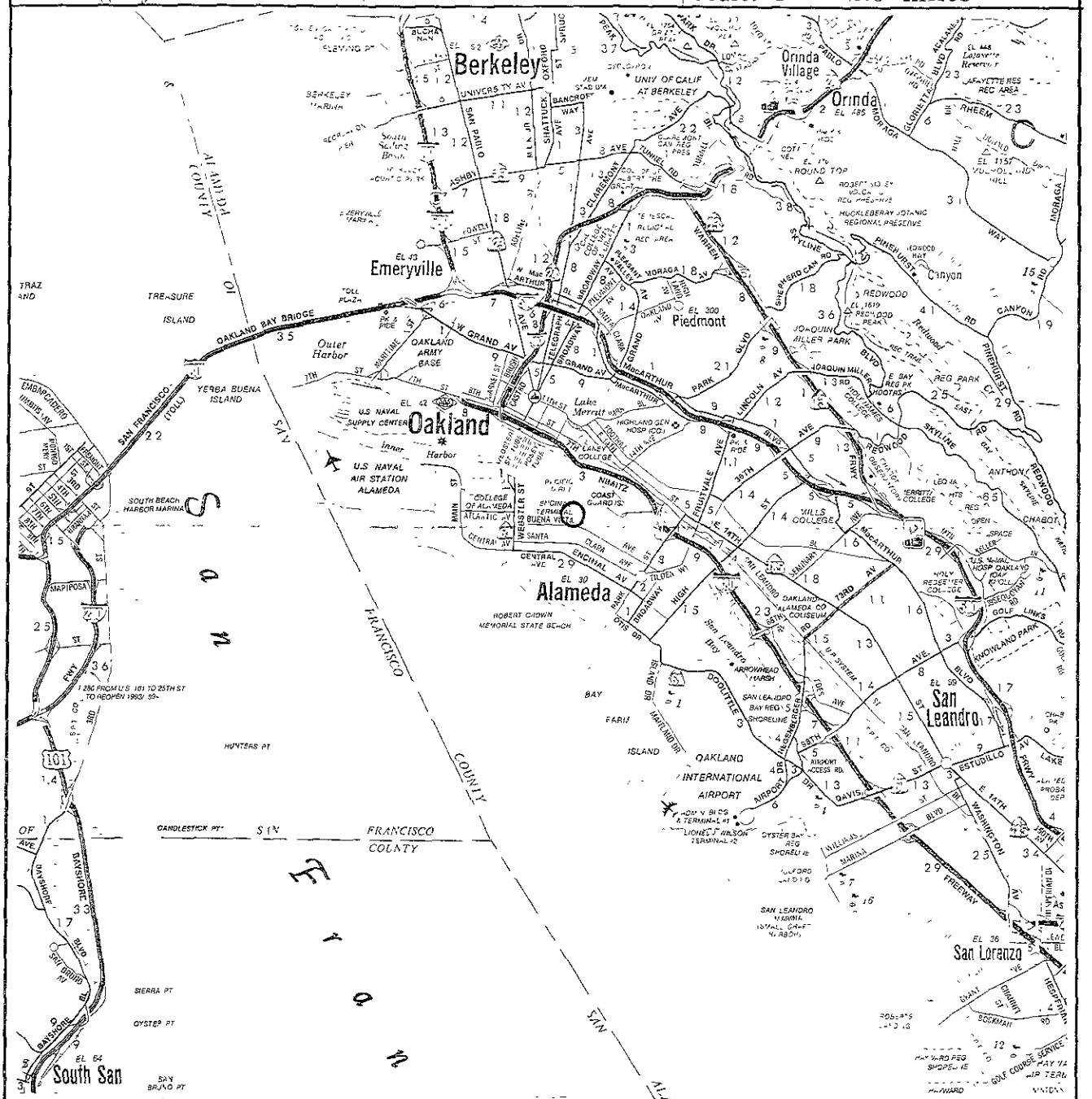
WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.

PO Box 5891, Vacaville, California 95696

Project Name: Weyerhaeuser Paper Company - Alameda | Date: Jan. 1995

Location: 1801 Hibbard Str., Alameda, California 94501

Drawing By: BWW | Scale: 1" = 2.5 miles



LEGEND

○ SITE LOCATION

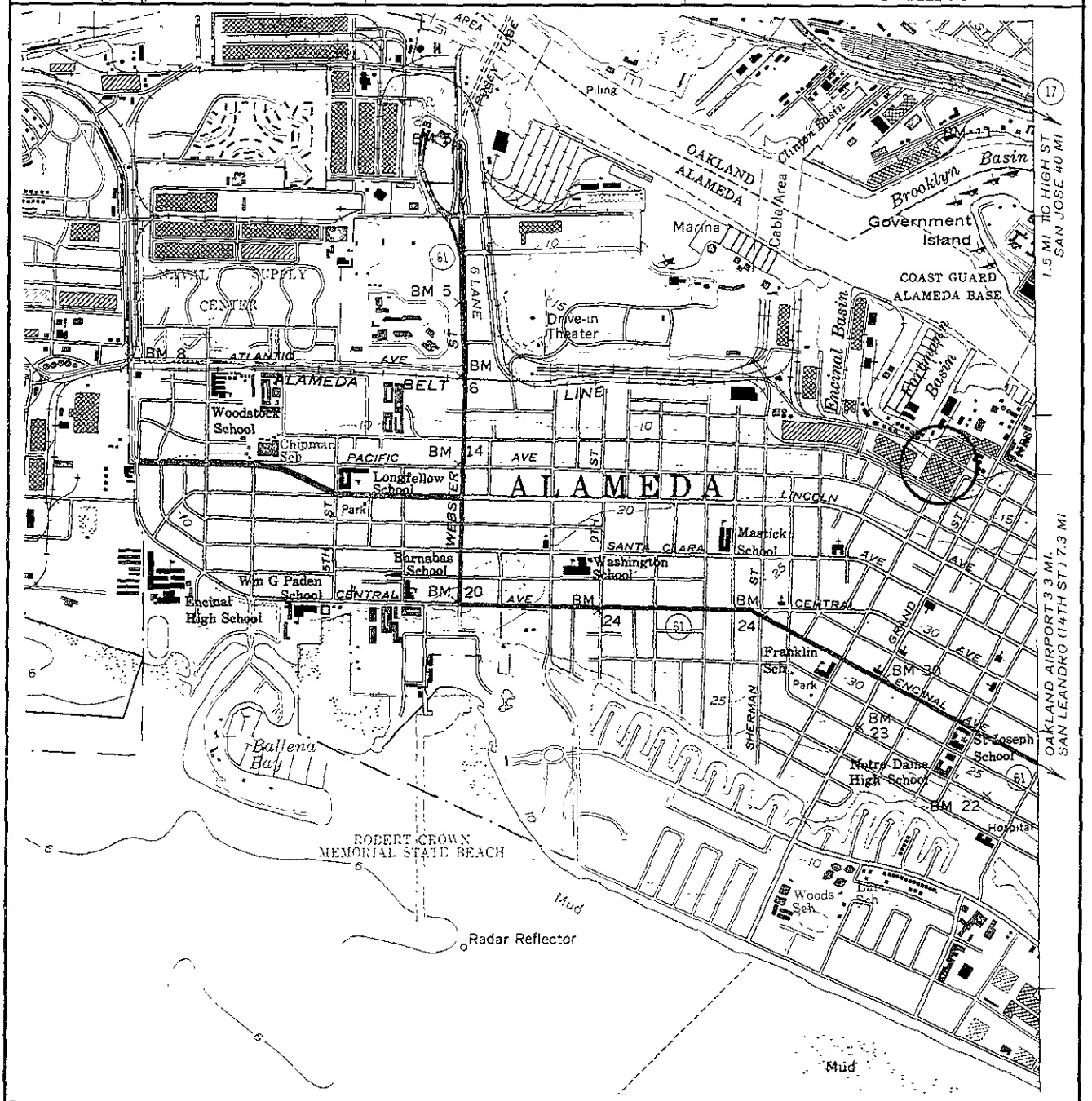
Figure 1

WPC ALAMEDA FACILITY - REGIONAL SETTING

WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.

PO Box 5891, Vacaville, California 95696

Project Name: Weyerhaeuser Paper Company - Alameda	Date: Jan. 1995
Location: 1801 Hibbard Str., Alameda, California 94501	
Drawing By: BWW	Scale: 1" = 0.4 Miles



LEGEND

○ SITE LOCATION

Figure 2

WPC ALAMEDA FACILITY - SITE LOCATION

Four soil samples were collected from the gasoline tank cluster pit sidewalls at the conclusion of overexcavation. Only one endpoint sidewall soil sample (Sample No. 11) was non-detectable for all tested chemical constituents. One of the sidewall soil samples (Sample No. 9) was found to contain only trace levels of toluene. The other two endpoint soil samples (Sample No.'s 8 & 10), were found to contain low levels of TPH and BTXE compounds.

During the time the gasoline tank cluster excavation was open, the standing groundwater level in the pit was observed to rise from greater than 8 feet to less than 4 feet below ground surface. As the pit water level rose, presumably overexcavation became more difficult. The file record indicates endpoint soil samples were collected from higher on the pit sidewalls as the water level rose.

Both the gasoline tank cluster and diesel tank excavations were backfilled with clean soil. Contaminated soil was transported to off-site disposal.

In December 1991 and again in April 1992, Soil Tech Engineering performed soils and groundwater investigations near the former gasoline tank cluster. A total of six groundwater monitoring wells were installed. Soil samples for laboratory analysis were collected during monitoring well installation. Between December 1991 and July 1993 Soil Tech performed groundwater monitoring on six occasions.

In December 1992, Soil Tech constructed one monitoring well (MW-7) adjacent to the former underground diesel tank, increasing the total number of site wells to seven. STE monitored MW-7 a total of 3 times.

Soil Tech's investigations revealed significant remaining soil contamination as well as widespread groundwater contamination in the vicinity of the former gasoline tank cluster. The six soil borings and monitoring wells completed by STE did not fully define the total extent of either soil or groundwater contamination around the former gasoline tank cluster.

In January 1994 the last remaining underground fuel storage tank, (20,000 gallon diesel) was removed from the WPC property. No evidence of any leakage from the diesel tank was encountered, however, soil contamination from the 1991 gasoline tank cluster was observed on the west sidewall of the diesel tank pit.

West & Associates Environmental Engineers submitted a proposed workplan for additional site investigation to the Alameda County Health Care Agency in November 1993. Site investigations were performed in January and February 1994. In May 1994 a supplemental workplan was submitted to conduct further investigation under the main plant building. In June 1994 an interim report of findings was submitted and in October 1994 clarifications to the May supplemental workplan were submitted to the County. Final site investigation field work took place in September and December 1994.

In October and November 1995 contaminated soil was excavated from the site around the former gasoline tank cluster and air sparging lines were installed in the open excavations prior to backfill. Some of the contaminated soil was aerated on site and reused as backfill material and some of the contaminated soil was transported to a local landfill for disposal.

During the remedial excavation program monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-9 were removed. In December 1995 two new wells MW-3B and MW-4B were installed in two locations within the newly backfilled excavation area, near the former locations of MW-3 and MW-4, respectively.

2.0 FLOATING PRODUCT

This quarter, each monitoring well was visually inspected for the presence of floating product. Prior to well purging, a column of groundwater was bailed from the water surface in a transparent bailer suitable for capture of light hydrocarbons.

No floating product or sheen was detected in any of the groundwater wells inspected this quarter. No floating product has been observed in any WPC Alameda wells on previous monitoring occasions.

3.0 GROUNDWATER SAMPLING

A quantity of groundwater is purged from each monitoring well prior to collecting a sample for chemical analysis. A description of equipment and procedures employed for groundwater purging and sample collection is presented in the following paragraphs.

3.1 Sampling Protocol

All the WPC Alameda monitoring wells are equipped with a 0.5 inch OD polyethylene tube extending the full depth of the well. Well purging is accomplished by attaching an Accuwell PTP-150 peristaltic pump at the well head to draw groundwater from the well. This procedure eliminates the need for any downhole equipment.

As groundwater is extracted from the well, 20ml samples are periodically collected for measurement of ph, temperature and conductivity using a Hydac instrument. Groundwater data is recorded on purge data forms (presented in the Appendix). At the conclusion of purging, the well is allowed to recharge to at least 80% of its initial water level prior to sample collection.

Purge water is contained in 55 gallon drums during the sampling process. At the conclusion of sampling, purge water drums are sealed, labeled and stored on-site in a secure area pending chemical analysis and arrangements for proper disposal.

Groundwater sample collection is performed by lowering a new, disposable, bailer into the well. Sample water is transferred to a laboratory supplied 40 ml VOA bottle containing a suitable preservative. The sample bottles are only opened during sample transfer, are completely filled and are not re-opened again by field personnel.

All samples are immediately labeled, sealed in zip lock bags and placed in a cooler containing crushed ice. The samples remain chilled, sealed and undisturbed during transport to the testing laboratory, usually within no more than 48 hours. All samples are entered on a chain of custody form which accompanies the sample set at all times.

Chemical analysis was performed by Pace Inc. located in Petaluma. Pace is certified by the Department of Health Services for the analyses performed.

Quality assurance and quality control measures include:

- Utilizing State WQCB approved sampling methods
- Assigning trained, experienced personnel for sample collection
- Utilizing laboratory supplied sample containers
- Employing extraction methods not requiring downhole equipment
- Using new, disposable bailers
- Sampling wells sequentially from cleanest to most contaminated
- Maintaining sample chain of custody documentation
- Keeping samples in a chilled state until laboratory delivery
- Storing suspected high concentration samples in a separate container
- Prompt delivery of the sample set to the testing laboratory
- Utilizing a DHS certified laboratory

3.2 Sample Analyses

Each groundwater sample except MW-7 was analyzed for Total Petroleum Hydrocarbons in the gasoline range (TPH-g). Groundwater from monitoring well MW-7 was analyzed for TPH in the diesel range. As per an Alameda County Health Care Services Agency request, groundwater samples were also analyzed for chlorinated hydrocarbons (EPA method 8240) and wells MW-2 & MW-3 were sampled for naphthalene (EPA 625).

All analyses were performed using EPA approved test methods. Minimum detection limits for all analyses were within Tri-regional guidelines and are indicated on each original laboratory report form.

This quarters analytical results for TPH-g and BTXE contamination are presented in Table 1. Analysis of groundwater sample MW-7 detected 1.1 mg/l of TPH-d. Solvent contamination results are presented in Table 2. Results of semi-volatile (naphthalene) analysis are presented in Table 3. Copies of original laboratory data sheets and chain of custody forms are presented in the appendix.

TABLE 1
PETROLEUM CONTAMINATION ANALYSES - GROUNDWATER
SEPTEMBER 1995
All Values in ug/l

WELL ID	TPH (gas)	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
MW-1	ND	ND	ND	ND	ND
MW-2	440	140	26	46	52
MW-3	24,000	5,300	1,200	2,200	940
MW-4	2,900	90	ND	5.7	8.9
MW-5	67	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND
MW-9	5,900	340	ND	20	53
MW-10	ND	ND	ND	ND	ND
MW-11	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND

TABLE 2
VOLATILE ORGANIC ANALYSIS - GROUNDWATER
SEPTEMBER 1995

WELL IDENTIFICATION	COMPOUND	CONCENTRATION ug/l
MW-4	1,1 DICHLOROETHANE	10
	1,2-DICHLOROETHANE	6.6

WELL IDENTIFICATION	COMPOUND	CONCENTRATION ug/l
MW-5	1,1-DICHOLORETHANE	31

WELL IDENTIFICATION	COMPOUND	CONCENTRATION ug/l
MW-6	1,1-DICHOLORETHANE	12

WELL IDENTIFICATION	COMPOUND	CONCENTRATION ug/l
MW-9	1,1 DICHLOROETHANE	8.7

TABLE 2 Con't.
VOLATILE ORGANIC ANALYSIS - GROUNDWATER
SEPTEMBER 1995

WELL IDENTIFICATION	COMPOUND	CONCENTRATION ug/l
MW-12	1,1-DICHOLORETHANE	9.6

TABLE 3
SEMI-VOLATILE ORGANIC ANALYSIS - GROUNDWATER
SEPTEMBER 1995

WELL IDENTIFICATION	COMPOUND	CONCENTRATION ug/l
MW-2	NAPHTHALENE	ND
MW-3	NAPHTHALENE	310

ABBREVIATIONS
ug/l: Micrograms per liter
ND: Not Detected (See Appendix for minimum detection limits)
TPH: Total Petroleum Hydrocarbons

3.3 Conclusions

The spatial distribution of gasoline contamination has not appreciably changed from last quarter. The magnitude of gasoline contamination in samples collected this quarter has fluctuated within the range previously observed at the site.

Results of this quarters groundwater sample chemical analyses with respect to solvent contamination is consistent with previous monitoring cycles. The extent and magnitude of solvent contamination has not significantly changed since routine monitoring began in February 1994.

Detectable concentrations of TPH-diesel were found in monitoring well MW-7 this quarter. The concentration of TPH-d detected this quarter is similar to concentrations detected in previous quarters.

4.0 HYDROLOGIC MONITORING

Depth to groundwater (DTGW) was measured in all eleven of the WPC Alameda monitoring wells on September 26, 1995 this quarter. DTGW was measured using a Solinst electronic sounding meter. Measurement accuracy was +/- 0.01 feet.

Table 4 presents depth to groundwater measurements (DTGW) and groundwater elevations (GW) as measured on September 26, 1995. The

change in groundwater elevation in each well relative to most recent previous measurement (May 17, 1995) is also indicated in Table 4.

Figure 3 illustrates groundwater contours under the site extrapolated from the September 26, 1995 groundwater elevation data. The groundwater gradient direction measured this quarter has a westerly orientation. This groundwater gradient direction is consistent with previous groundwater gradient observations at the WPC site.

TABLE 4
HYDROLOGIC MEASUREMENTS
SEPTEMBER 26, 1995
(All measurements in feet)

WELL ID	TOC	DTGW	GWE	CHANGE[1]
MW-1	99.93	5.58	94.35	-0.53
MW-2	99.65	5.30	94.35	-0.45
MW-3	100.35	5.38	94.97	-0.53
MW-4	97.84	6.26	91.58	-2.03
MW-5	99.98	6.88	93.10	-1.56
MW-6	99.30	7.59	91.71	-1.24
MW-7	97.68	3.51	94.17	-0.01
MW-9	100.60	5.67	94.93	-0.82
MW-10	99.21	6.26	92.95	-0.01
MW-11	99.45	5.42	94.03	0.61
MW-12	102.59	8.90	93.69	-2.89

ABBREVIATIONS
TOC: Top of Casing
DTGW: Depth to Groundwater
GWE: Groundwater Elevation
NA: Not Available
[1] Relative to last available DTGW measurement: May 17, 1995

4.1 Conclusions

Groundwater elevations were lower in all monitoring wells, except for MW-11, this quarter as compared to last quarter.

5.0 SUMMARY

- All eleven WPC groundwater wells were monitored on September 26, 1995.
- No floating product was observed in any groundwater well this quarter.
- The contaminant profile in groundwater has not significantly changed from previous quarters.
- Groundwater levels have dropped slightly under most of the site as compared to last quarter (May 17, 1995).

LEDGEND

MONITORING WELL

MAIN PLANT BUILDING

93.69′ MW-12

BOILER ROOM

MACHINE SHOP

REST ROOM

OFFICES

94′

93′

92′

HOT WAX TANK

MW-9
94.93′

MANHOLE

4" SS

MW-3
94.97′

93.10′ MW-5

DIESEL TANK EXCAVATION

PROPANE ENCLOSURE

94.35′ MW-1

FORMER GASOLINE TANK CLUSTER EXCAVATION

PLATE

MW-6
91.71′

MW-2
94.35′

MW-11
94.03′

MW-4
91.58′

BUENA VISTA ST. →

8" SEWER

A.G. TANK

SAND CRIB

MANHOLE

FORMER DISPENSER

GATE

93′ MW-10 92′
92.95′

PRIVATE DRIVE

N

WEYERHAEUSER - ALAMEDA

SCALE: 1" = 10′	APPROVED BY:	DRAWN BY BWW
DATE: FEB. 94		REVISED

GROUNDWATER CONTOURS - SEPT. 95

1801 HIBBARD ST.

DRAWING NUMBER FIGURE 3

APPENDICES

Purge Data Forms
Chain of Custody
Original Laboratory Report Forms

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: IMMEDIATELY NE OF TANK CLUSTER

Monitoring Well ID: MW-1 Sampler: BWW - BGM

Date: 9-26-95 Time: 3:35 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO GASOLINE ODOR / CLEAR

20' - 5.58 x (2") 4" .17 .66 = 2.5

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
3:35	0	0	77.1	6.55	6.04
3:37	2.5	2.5	77.0	8.16	5.93
3:40	2.5	5	76.0	8.17	5.72
3:45	2	7	75.4	8.09	5.68

REMARKS: TPH - GAS ; 624

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: NORTH OF TANK CLUSTER

Monitoring Well ID: MW-2 Sampler: BWW - BGM

Date: 9-26-95 Time: 3:14 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: GASOLINE ODOR PRESENT / CLEAR

20' - 5.30 x (2") 4" .17 .66 = 2.5

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
3:14	0	0	75.6	7.36	6.40
3:16	2.5	2.5	76.8	7.91	6.31
3:20	2.5	5	76.3	8.33	6.01
3:24	2 1.	7 6	74.8	7.60	6.65
3:28	21.5	7.5	74.8	7.56	6.53

REMARKS: TPH - GAS ; 624 ; 625 (NAPTHALENE)

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: SOUTH OF TANK CLUSTER

Monitoring Well ID: MW-3 Sampler: BWW - BGM

Date: 9-26-95 Time: 1:22 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: STRONG GASOLINE ODOR / GRAY - CLEAR

20' - 5.38 x (2") 4" .17 .66 = 2.5

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
1:22	0	0	71.9	18.68	6.82
1:40	2.5	2.5	72.4	18.85	6.06
1:50	2	4.5	72.6	19.02	5.40
2:00	2	6.5	73.3	19.18	5.80

REMARKS: TPH-GAS; 624; 625 (NAPTHALENE) SLOW RECHARGE

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: WEST OF TANK CLUSTER

Monitoring Well ID: MW-4 Sampler: BWW - BGM

Date: 9-26-95 Time: 2:58 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: MODERATE GASOLINE ODOR / CLEAR

20' - 6.26 x (2") 4" .17 .66 = 2

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
2:58	0	0	77.2	10.30	7.11
3:00	2	2	74.8	9.68	6.75
3:04	2	4	75.4	10.36	6.31
3:08	2	6	75.4	10.38	6.08

REMARKS: TPH-GAS, 624

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: SOUTH OF OIL STORAGE SHED

Monitoring Well ID: MW-5 Sampler: BWW - BGM

Date: 9-26-95 Time: 2:06 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO GASOLINE ODOR / SL. TURBID - CLEAR

20' - 6.88 x (2") 4" .17 .66 = 2.2

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
2:06	0	0	72.4	10.17	5.26
2:08	2	2	71.9	10.12	5.34
2:20	2	4	71.8	8.59	5.14
2:30	1	5	71.3	8.22	6.87
2:36	1	6	71.2	8.51	6.53

REMARKS: TPH - GAS ; 624 , SAND @ WELL BOTTOM

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: SOUTH WEST OF OIL STORAGE BLDG.

Monitoring Well ID: MW-6 Sampler: BWW

Date: 9-26-95 Time: 10:36 (AM) PM

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO HYDROCARBON ODOR / CLEAR

20' - 7.59' x (2") 4" .17 .66 = 2

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
10:36	0	0	70.3	6.73	7.56
10:40	2	2	72.0	6.32	6.91
10:43	2	4	71.4	8.09	5.89
10:46	2	6	71.3	8.32	5.85

REMARKS: TPH GAS EPA 624

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: NEXT TO FORMER DIESEL TANK LOCATION

Monitoring Well ID: MW-7 Sampler: BWW

Date: 9-26-95 Time: 5:43 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO HYDROCARBON ODOR / CLEAR

20' - 3.51' (2") 4" x .17 .66 = ~2.5

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 1000	PH
5:43	0	0	68.3	2.22	6.43
5:45	2.5	2.5	68.2	2.25	6.32
5:50	2.5	5	68.0	2.26	6.02
5:54	2.5	7.5	67.5	2.27	5.50

REMARKS: TPH - DIESEL

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: NEXT TO HOT WAX TANK

Monitoring Well ID: MW-9 Sampler: BWW - BGM

Date: 9-26-95 Time: 12:46 AM (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: STRONG GASOLINE ODOR PRESENT / CLEAR

17 - 5.67 x 2" (4") .17 .66 = 7.5

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
12:46	0	0	75.3	16.57	5.49
12:50	7.5	7.5	76.1	18.05	5.14
12:58	7.5	15	74.6	19.28	4.99
1:06	7.5	22.5	74.3	19.34	4.89

REMARKS: TPH - GAS; 624

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: PRIVATE DRIVE EAST OF PLANT

Monitoring Well ID: MW-10 Sampler: BWW

Date: 9-26-95 Time: 10:52 (AM) PM

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO HYDROCARBON ODOR / CLEAR

18' - 6.26' x 2" (4") .17 .66 = 7.7

WELL DEPTH - DTGW x .17 .66 = WELL VOLUME (GALS)

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
10:52	0	0	70.1	5.61	6.11
10:58	7.5	7.5	70.7	5.60	6.02
11:10	7.5	15	70.3	5.63	6.20
11:20	7.5	22.5	70.1	5.55	6.18

REMARKS: TPH-GAS ; EPA 624

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: NORTH OF TANK CLUSTER

Monitoring Well ID: MW-11 Sampler: BWW - BGM

Date: 9-26-95 Time: 11:32 (AM) PM

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO GASOLINE ODOR / CLEAR

WELL DEPTH	-	DTGW	x	.17	.66	=	WELL VOLUME (GALS)
~~At~~ 19'		5.42		2"	(4")		9

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
11:32	0	0	70.3	8.64	6.46
11:40	9	9	70.3	8.59	6.02
11:58	9	18	69.5	8.35	5.62
12:12	9	27	69.5	8.28	5.64

REMARKS: TPH-GAS ; 624

WEST & ASSOCIATES ENGINEERS

GROUNDWATER SAMPLING - PURGE DATA FORM

Project: WEYERHAEUSER ALAMEDA

Location: METAL SHOP INSIDE BUILDING

Monitoring Well ID: MW-12 Sampler: BWW - BGM

Date: 9-26-95 Time: 12:15 ~~AM~~ (PM)

==========

Floating Product: Y (N) Petroleum Sheen: Y (N)

ODOR / APPEARANCE: NO HYDROCARBON ODOR / CLEAR

	8.90		2" (4")		7	
WELL DEPTH	- DTGW	x	.17 .66	=	WELL VOLUME (GALS)	

==========

PURGE MEASUREMENTS

TIME	PURGE VOLUME GALLONS	CUMULATIVE GALLONS	TEMP. °F	CONDUCT umhos x 100	PH
12:15	0	0	70.6	14.97	5.46
12:22	7	7	70.4	15.29	5.09
12:30	7	14	70.1	14.17	5.03
12:38	7	21	70.1	12.68	5.02

REMARKS: TPH - GAS ; EPA 624

302537

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

BRENNAN MAHONEY

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client WEST & ASSOCIATES
Address P.O. BOX 5891
VACAVILLE, CA 95696
Phone (707) 451-1360

Report To: WEST & ASSOCIATES
Bill To: SAME
P.O. # / Billing Reference WPC
Project Name / No. WPC ALAMEDA

Pace Client No.
Pace Project Manager
Pace Project No 703507
*Requested Due Date. STANDARD

Sampled By (PRINT): BRENNAN MAHONEY
Sampler Signature
Date Sampled 9-26-95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA HCl	ANALYSES REQUEST: TPH-GAS	EPA 8240	TPH-DIESEL	EPA 625-NAPTHALENE	REMARKS
1	MW-1	PM	GW	321377	4				✓	✓	✓			
2	MW-2			321385	5				✓	✓	✓		✓	
3	MW-3			321393	5				✓	✓	✓		✓	
4	MW-4			321401	4				✓	✓	✓			
5	MW-5			321419	4				✓	✓	✓			
6	MW-6	AM		321427	4				✓	✓	✓			
7	MW-7	PM		321435	1							✓		
8	MW-9	PM		321443	4				✓	✓	✓			

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	SHIPMENT METHOD RETURNED/DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Joe Mathews	Joe Mathews	9/27/95	1250
	Joe Mathews	[illegible]	9-27-95	1940

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

PAGE 2 @ 2 302536

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

WEST & ASSOCIATES

Client: WEST & ASSOCIATES
Address: P.O. BOX 5891, VACAVILLE CA 95696
Phone: (707) 451-1360

Report To: BRENNAN MAHONEY
Bill To: SAME
P.O. # / Billing Reference: ~~SAME~~ WPC
Project Name / No: WPC ALAMEDA

Pace Client No.:
Pace Project Manager:
Pace Project No.: 703507
*Requested Due Date: STANDARD

Sampled By (PRINT): BRENNAN MAHONEY
Sampler Signature: [signature]
Date Sampled: 9-26-95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA HCl		TPH-GAS EPA 8240	TPH-DIESEL EPA 625 NAPTHALENE	REMARKS
1	MW-10	PM	GW	321450	4				✓		✓	✓	
2	MW-11	PM	↓	321468	4				✓		✓	✓	
3	MW-12	AM	↓	321476	4				✓		✓	✓	
4													
5													
6													
7													
8													

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	RETURNED/DATE

Additional Comments

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	Joe Mathews	9/27/95	1250
	Joe Mathews	[signature]	9-27-95	1940

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

November 01, 1995

Mr. Brian West
West & Associates
112 Pepperell Court
Vacaville, CA 95688

RE: PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

Dear Mr. West:

Enclosed are the results of analyses for sample(s) received on September 27, 1995. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

Enclosures

1455 McDowell Blvd. North, Suite D
Petaluma, CA 94954
TEL: 707-792-1865
FAX: 707-792-0342

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

DATE: 11/01/95
PAGE: 1

West & Associates
112 Pepperell Court
Vacaville, CA 95688

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

Attn: Mr. Brian West
Phone: (707)451-1360

PACE Sample No: 70321377 Date Collected: 09/26/95
Client Sample ID: MW-1 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	ND	ug/L	50	10/04/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321377 Date Collected: 09/26/95
Client Sample ID: MW-1 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	ND	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	101	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	100	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	98	%		09/30/95	EPA 8240	AXM	460-00-4	

PACE Sample No: 70321385 Date Collected: 09/26/95
Client Sample ID: MW-2 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	440	ug/L	50	10/04/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321385 Date Collected: 09/26/95
Client Sample ID: MW-2 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	140	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	26	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	52	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	46	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	104	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	99	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	98	%		09/30/95	EPA 8240	AXM	460-00-4	
GC/MS -- Semi-VOA								
Extractables in Water by 625								
Naphthalene	ND	ug/L	5	10/16/95	EPA 625	WSN	91-20-3	
Nitrobenzene-d5 (S)	45	%		10/16/95	EPA 625	WSN	4165-60-0	
2-Fluorobiphenyl (S)	45	%		10/16/95	EPA 625	WSN	321-60-8	
Terphenyl-d14 (S)	59	%		10/16/95	EPA 625	WSN	1718-51-0	
Date Extracted				10/03/95				

PACE Sample No: 70321393 Date Collected: 09/26/95
Client Sample ID: MW-3 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	24000	ug/L	500	10/04/95	CA LUFT	ADS		
GC/MS -- VOA								

1455 McDowell Blvd North, Suite D
Petaluma, CA 94954
TEL: 707-792-1865
FAX: 707-792-0342

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321393 Date Collected: 09/26/95
Client Sample ID: MW-3 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Volatile Organics								
Chloromethane	ND	ug/L	100	10/02/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	100	10/02/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	100	10/02/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	100	10/02/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	50	10/02/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	1000	10/02/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	50	10/02/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	50	10/02/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	100	ug/L	50	10/02/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	50	10/02/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	50	10/02/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	50	10/02/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	1000	10/02/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	50	10/02/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	50	10/02/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	500	10/02/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	50	10/02/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	50	10/02/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	50	10/02/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	50	10/02/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	50	10/02/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	50	10/02/95	EPA 8240	AXM	79-00-5	
Benzene	5300	ug/L	250	10/02/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	50	10/02/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	50	10/02/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	500	10/02/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	500	10/02/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	50	10/02/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	10/02/95	EPA 8240	AXM	79-34-5	
Toluene	1200	ug/L	50	10/02/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	50	10/02/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	940	ug/L	50	10/02/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	50	10/02/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	2200	ug/L	50	10/02/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	100	10/02/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	105	%		10/02/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	100	%		10/02/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	99	%		10/02/95	EPA 8240	AXM	460-00-4	

GC/MS -- Semi-VOA

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PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321393 Date Collected: 09/26/95
Client Sample ID: MW-3 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Extractables in Water by 625								
Naphthalene	310	ug/L	20	10/16/95	EPA 625	WSN	91-20-3	
Nitrobenzene-d5 (S)	36	%		10/16/95	EPA 625	WSN	4165-60-0	
2-Fluorobiphenyl (S)	41	%		10/16/95	EPA 625	WSN	321-60-8	
Terphenyl-d14 (S)	41	%		10/16/95	EPA 625	WSN	1718-51-0	
Date Extracted				10/03/95				

PACE Sample No: 70321401 Date Collected: 09/26/95
Client Sample ID: MW-4 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	2900	ug/L	50	10/04/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	10	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	6.6	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321401 Date Collected: 09/26/95
Client Sample ID: MW-4 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Benzene	90	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	8.9	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	5.7	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	99	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	99	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	97	%		09/30/95	EPA 8240	AXM	460-00-4	

PACE Sample No: 70321419 Date Collected: 09/26/95
Client Sample ID: MW-5 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	67	ug/L	50	10/04/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	31	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321419 Date Collected: 09/26/95
Client Sample ID: MW-5 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	ND	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	101	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	98	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	97	%		09/30/95	EPA 8240	AXM	460-00-4	

PACE Sample No: 70321427 Date Collected: 09/26/95
Client Sample ID: MW-6 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	ND	ug/L	50	10/04/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	

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REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321427 Date Collected: 09/26/95
Client Sample ID: MW-6 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	12	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	ND	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	105	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	100	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	100	%		09/30/95	EPA 8240	AXM	460-00-4	

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321435 Date Collected: 09/26/95
Client Sample ID: MW-7 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC								
TPH in Water by 8015 Modified								
Diesel Fuel	1.1	mg/L	0.05	10/23/95	TPH by EPA 8015M	JSB		
n-Pentacosane (S)	80	%		10/23/95	TPH by EPA 8015M	JSB	629-99-2	
Date Extracted				10/06/95				

PACE Sample No: 70321443 Date Collected: 09/26/95
Client Sample ID: MW-9 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	5900	ug/L	50	10/06/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	10/02/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	10/02/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	10/02/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	10/02/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	10/02/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	10/02/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	10/02/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	10/02/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	8.7	ug/L	5	10/02/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	10/02/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	10/02/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	10/02/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	10/02/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	10/02/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	10/02/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	10/02/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	10/02/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	10/02/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	10/02/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	10/02/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	10/02/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	10/02/95	EPA 8240	AXM	79-00-5	
Benzene	340	ug/L	50	10/02/95	EPA 8240	AXM	71-43-2	

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321443 Date Collected: 09/26/95
Client Sample ID: MW-9 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
cis-1,3-Dichloropropene	ND	ug/L	5	10/02/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	10/02/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	10/02/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	10/02/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	10/02/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	10/02/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	10/02/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	10/02/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	53	ug/L	5	10/02/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	10/02/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	20	ug/L	5	10/02/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	10/02/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	96	%		10/02/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	103	%		10/02/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	99	%		10/02/95	EPA 8240	AXM	460-00-4	

PACE Sample No: 70321450 Date Collected: 09/26/95
Client Sample ID: MW-10 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	ND	ug/L	50	10/06/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321450 Date Collected: 09/26/95
Client Sample ID: MW-10 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	ND	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	107	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	101	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	100	%		09/30/95	EPA 8240	AXM	460-00-4	

PACE Sample No: 70321468 Date Collected: 09/26/95
Client Sample ID: MW-11 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	ND	ug/L	50	10/06/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321468 Date Collected: 09/26/95
Client Sample ID: MW-11 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	ND	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	
1,2-Dichloroethane-d4 (S)	103	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	99	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	99	%		09/30/95	EPA 8240	AXM	460-00-4	

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321476 Date Collected: 09/26/95
Client Sample ID: MW-12 Date Received: 09/27/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	ND	ug/L	50	10/07/95	CA LUFT	ADS		
GC/MS -- VOA								
Volatile Organics								
Chloromethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-87-3	
Bromomethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	74-83-9	
Vinyl Chloride	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-01-4	
Chloroethane	ND	ug/L	10	09/30/95	EPA 8240	AXM	75-00-3	
Methylene Chloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-09-2	
Acetone	ND	ug/L	100	09/30/95	EPA 8240	AXM	67-64-1	
Carbon Disulfide	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-15-0	
1,1-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-35-4	
1,1-Dichloroethane	9.6	ug/L	5	09/30/95	EPA 8240	AXM	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	156-60-5	
Chloroform	ND	ug/L	5	09/30/95	EPA 8240	AXM	67-66-3	
1,2-Dichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	107-06-2	
2-Butanone	ND	ug/L	100	09/30/95	EPA 8240	AXM	78-93-3	
1,1,1-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-55-6	
Carbon Tetrachloride	ND	ug/L	5	09/30/95	EPA 8240	AXM	56-23-5	
Vinyl Acetate	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-05-4	
Bromodichloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-27-4	
1,2-Dichloropropane	ND	ug/L	5	09/30/95	EPA 8240	AXM	78-87-5	
trans-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-02-6	
Trichloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-01-6	
Dibromochloromethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-00-5	
Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	71-43-2	
cis-1,3-Dichloropropene	ND	ug/L	5	09/30/95	EPA 8240	AXM	10061-01-5	
Bromoform	ND	ug/L	5	09/30/95	EPA 8240	AXM	75-25-2	
4-Methyl-2-Pentanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	108-10-1	
2-Hexanone	ND	ug/L	50	09/30/95	EPA 8240	AXM	591-78-6	
Tetrachloroethene	ND	ug/L	5	09/30/95	EPA 8240	AXM	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	09/30/95	EPA 8240	AXM	79-34-5	
Toluene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-88-3	
Chlorobenzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	108-90-7	
Ethyl Benzene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-41-4	
Styrene	ND	ug/L	5	09/30/95	EPA 8240	AXM	100-42-5	
Xylene (Total)	ND	ug/L	5	09/30/95	EPA 8240	AXM	1330-20-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	10	09/30/95	EPA 8240	AXM	110-75-8	

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FAX: 707-792-0342

REPORT OF LABORATORY ANALYSIS

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PACE Sample No: 70321476 Date Collected: 09/26/95
Client Sample ID: MW-12 Date Received: 09/27/95

arameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
1,2-Dichloroethane-d4 (S)	106	%		09/30/95	EPA 8240	AXM	17060-07-0	
Toluene-d8 (S)	99	%		09/30/95	EPA 8240	AXM	2037-26-5	
4-Bromofluorobenzene (S)	96	%		09/30/95	EPA 8240	AXM	460-00-4	

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	PACE Reporting Limit
(S)	Surrogate

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12 Pepperell Court
Vacaville, CA 95688

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

Attn: Mr. Brian West
hone: (707)451-1360

QC Batch ID: 7769 QC Batch Method: EPA 8240 Date of Batch: 09/25/95
ssociated PACE Samples: 70321377 70321385 70321393 70321401 70321419
70321427 70321443 70321450 70321468 70321476

ETHOD BLANK: 70321633
ssociated PACE Samples:
70321377 70321385 70321393 70321401 70321419 70321427 70321443
70321450 70321468 70321476

Parameter	Units	Method Blank Result	PRL	Footnotes
Chloromethane	ug/L	ND	10	
Bromomethane	ug/L	ND	10	
inyl Chloride	ug/L	ND	10	
hloroethane	ug/L	ND	10	
Methylene Chloride	ug/L	ND	5	
cetone	ug/L	ND	100	
arbon Disulfide	ug/L	ND	5	
1,1-Dichloroethene	ug/L	ND	5	
1,1-Dichloroethane	ug/L	ND	5	
rans-1,2-Dichloroethene	ug/L	ND	5	
hloroform	ug/L	ND	5	
1,2-Dichloroethane	ug/L	ND	5	
-Butanone	ug/L	ND	100	
,1,1-Trichloroethane	ug/L	ND	5	
Carbon Tetrachloride	ug/L	ND	5	
inyl Acetate	ug/L	ND	50	
romodichloromethane	ug/L	ND	5	
1,2-Dichloropropane	ug/L	ND	5	
trans-1,3-Dichloropropene	ug/L	ND	5	
richloroethene	ug/L	ND	5	
ibromochloromethane	ug/L	ND	5	
1,1,2-Trichloroethane	ug/L	ND	5	
enzene	ug/L	ND	5	
is-1,3-Dichloropropene	ug/L	ND	5	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 11/01/95
PAGE. 17

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

ETHOD BLANK: 70321633
Associated PACE Samples:

70321377 70321385 70321393 70321401 70321419 70321427 70321443
70321450 70321468 70321476

arameter	Units	Method Blank Result	PRL	Footnotes
Bromoform	ug/L	ND	5	
-Methyl-2-Pentanone	ug/L	ND	50	
-Hexanone	ug/L	ND	50	
Tetrachloroethene	ug/L	ND	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	5	
oluene	ug/L	ND	5	
hlorobenzene	ug/L	ND	5	
Ethyl Benzene	ug/L	ND	5	
tyrene	ug/L	ND	5	
ylene (Total)	ug/L	ND	5	
2-Chloroethyl Vinyl Ether	ug/L	ND	10	
1,2-Dichloroethane-d4 (S)	%	104		
oluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	101		

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70310917 70310925

arameter	Units	70307871	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/L	ND	50	52	104	54	109	5	
Trichloroethene	ug/L	ND	50	48	96	49	97	1	
enzene	ug/L	ND	50	51	102	52	105	3	
oluene	ug/L	ND	50	52	104	53	106	2	
Chlorobenzene	ug/L	ND	50	49	97	50	101	4	
1,2-Dichloroethane-d4 (S)					99		104		
oluene-d8 (S)					99		100		
4-Bromofluorobenzene (S)					97		99		

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 11/01/95
PAGE: 18

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Vacaville, CA 95688

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

Attn: Mr. Brian West
hone: (707)451-1360

QC Batch ID: 8112 QC Batch Method: CA LUFT Date of Batch: 10/03/95
ssociated PACE Samples: 70321377 70321385 70321393 70321401 70321419
70321427

ETHOD BLANK: 70328760
ssociated PACE Samples:
70321377 70321393

Parameter	Units	Method Blank Result	PRL	Footnotes
asoline	ug/L	ND	50	

ETHOD BLANK: 70333802
ssociated PACE Samples:
70321385 70321401 70321419 70321427

Parameter	Units	Method Blank Result	PRL	Footnotes
asoline	ug/L	ND	50	

ABORATORY CONTROL SAMPLE & LCSD: 70328778 70328786

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
asoline	ug/L	1000	1100	106	1000	104	2	

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PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

Attn: Mr. Brian West
hone: (707)451-1360

QC Batch ID: 8117 QC Batch Method: EPA 625 CLLE Date of Batch: 10/03/95
ssociated PACE Samples: 70321385 70321393

METHOD BLANK: 70328901
ssociated PACE Samples:
70321385 70321393

arameter	Units	Method Blank Result	PRL	Footnotes
aphthalene	ug/L	ND	5	
itrobenzene-d5 (S)	%	9	1	
2-Fluorobiphenyl (S)	%	17	1	
erphenyl-d14 (S)	%	27	1	

LABORATORY CONTROL SAMPLE: 70328919

arameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
aphthalene	ug/L	100	50	50	
itrobenzene-d5 (S)				50	
2-Fluorobiphenyl (S)				58	
erphenyl-d14 (S)				67	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 11/01/95
PAGE: 20

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Attn: Mr. Brian West
hone: (707)451-1360

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

QC Batch ID: 8212 QC Batch Method: CA LUFT Date of Batch: 10/05/95
ssociated PACE Samples: 70321443 70321450 70321468

METHOD BLANK: 70336672
ssociated PACE Samples:
70321443 70321450 70321468

arameter	Units	Method Blank Result	PRL	Footnotes
asoline	ug/L	ND	50	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70347505 70347513

arameter	Units	70319637	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
asoline	ug/L	ND	1000	930	93	900	90	3	

ABORATORY CONTROL SAMPLE & LCSD: 70344718 70344726

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
asoline	ug/L	1000	1100	106	1000	104	2	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 11/01/95
PAGE: 21

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PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

Attn: Mr. Brian West
hone: (707)451-1360

QC Batch ID: 8316
QC Batch Method: CA LUFT
Date of Batch: 10/07/95
ssociated PACE Samples: 70321476

METHOD BLANK: 70344759
ssociated PACE Samples:
70321476

arameter	Units	Method Blank Result	PRL	Footnotes
asoline	ug/L	ND	50	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70347463 70347471

Parameter	Units	70323936	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
asoline	ug/L	ND	1000	810	81	900	90	11	

LABORATORY CONTROL SAMPLE & LCSD: 70344767 70344775

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
asoline	ug/L	1000	950	95	930	93	2	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 11/01/95
PAGE: 22

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Attn: Mr. Brian West
hone: (707)451-1360

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

QC Batch ID: 8833
QC Batch Method: EPA 3520
Date of Batch: 10/19/95
ssociated PACE Samples: 70321435

ETHOD BLANK: 70370523
ssociated PACE Samples:
70321435

Parameter	Units	Method Blank Result	PRL	Footnotes
iesel Fuel	mg/L	ND	0.05	
-Pentacosane (S)	%	81		

ABORATORY CONTROL SAMPLE & LCSD: 70370531 70370549

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
iesel Fuel	mg/L	1	0.93	93	0.91	91	2	
n-Pentacosane (S)				85		84		

PACE Project Number: 703507
Client Project ID: WPC ALAMEDA

QUALITY CONTROL DATA PARAMETER FOOTNOTES

The Quality Control Sample Final Results listed above have been rounded to reflect an appropriate number of significant figures. Consistent with EPA guidelines unrounded concentrations have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	PACE Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The Surrogate recovery value exceeded the established laboratory control limit value.

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