in use

SITE INVESTIGATION INSTALLATION RESTORATION PROGRAM (IRP) SITE NO.4 AND SITE NO.5

VOLUME II

APPENDICES A-H

216th ENGINEERING INSTALLATION SQUADRON
& 234th COMBAT COMMUNICATIONS SQUADRON
CALIFORNIA AIR NATIONAL GUARD
HAYWARD AIR NATIONAL GUARD STATION
HAYWARD, CALIFORNIA
MARCH 1996

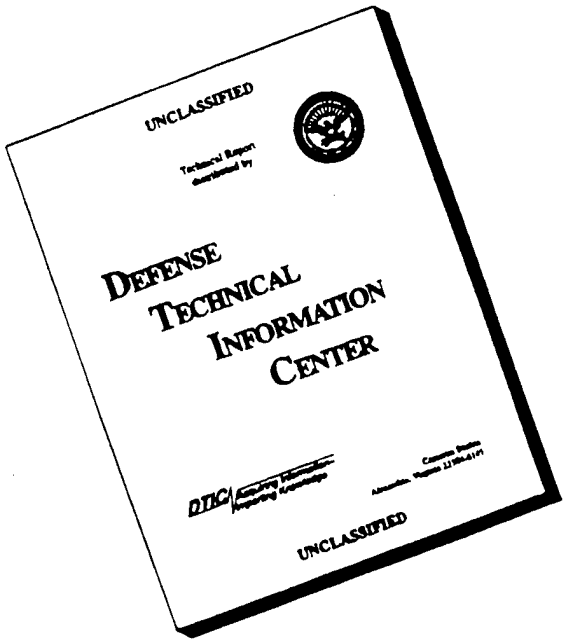


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	March 1996	Site Investigation Report

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13. ABSTRACT *(Maximum 200 words)*

Site Investigation Report for IRP Site No. 4 and 5, California Air National Guard, 216th EIS & 234th CCS, Hayward Air National Guard Station, Hayward, CA - Volume II. This is the second volume of a two volume site investigation report. The sites were investigated under the Installation Restoration Program. Soil and groundwater samples were collected and analyzed. Further investigation was recommended to further delineate the impacted soil and groundwater, conduct a risk assessment, and continue groundwater monitoring.

Volume II contains the analytical data, boring logs, and QA/QC sheets.

DTIC QUALITY INSPECTED 3

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Installation Restoration Program; Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); Air National Guard; Site Investigation, California Air National Guard; Hayward, California

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Unclassified	Unclassified	Unclassified	None

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G	- Grant	**TA**	- Task
PE	- Program Element	**WU**	- Work Unit Accession No.

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SITE INVESTIGATION INSTALLATION RESTORATION PROGRAM (IRP) SITE NO.4 AND SITE NO.5

VOLUME II
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CALIFORNIA AIR NATIONAL GUARD
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MARCH 1996

Prepared For

HQ ANG/CEVR
ANDREWS AFB, MARYLAND

Prepared By

Operational Technologies Corporation
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253
(210) 731-0000

1315-189

APPENDIX A

SOIL VAPOR SURVEY RESULTS

teg

TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY, INC.

August 19, 1994

Mr. John Morris
Operational Technologies
4100 NW Loop 410, Suite 230
San Antonio, TX 78229-4253

SUBJECT: DATA REPORT - **Operational Technologies Project #1315-117-115**
Soil Vapor Analyses - Air National Guard, Hayward, California

TEG Project # 940725C

Mr. Morris:

Please find enclosed a data report for the samples analyzed from the above referenced project for Operational Technologies. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 79 analyses on 42 soil vapor samples.

– 35 analyses on soil vapor for aromatic volatile hydrocarbons by EPA method 8020.

– 44 analyses on soil vapor for total petroleum hydrocarbons by EPA method 8015mod.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and continuing calibration data are included in the tables.

TEG appreciates the opportunity to have provided analytical and soil vapor services to Operational Technologies on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California

PO Box 162580, Sacramento, CA 95816 · Phone: (916) 736-3233 Fax: (916) 452-5806

OPERATIONAL TECHNOLOGIES
Project #1315-117-115
Air National Guard - Hayward, California

TEG PROJECT #940725C

BTEX (EPA 8020) & TPH (EPA mod8015) ANALYSES OF SOIL VAPOR in ppmV

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	TPH ppmV	BENZENE ppmV	TOLUENE ppmV	ETHYLBNZ ppmV	XYLENES ppmV
BLANK	7/25/94	7/25/94	nd	nd	nd	nd	nd
BLANK	7/26/94	7/26/94	nd	nd	nd	nd	nd
SOV 5-01-5'	7/25/94	7/25/94	244	11.04	0.08	nd	0.07
SOV 5-01-10'	7/25/94	7/25/94	1695	44.36	nd	nd	nd
SOV 5-02-5'	7/25/94	7/25/94	16	0.36	nd	nd	nd
SOV 5-02-10'	7/25/94	7/25/94	889	33.57	nd	nd	0.50
SOV 5-03-5'	7/25/94	7/25/94	207	0.18	0.44	nd	nd
SOV 5-03-10'	7/25/94	7/25/94	119	nd	nd	nd	nd
SOV 5-04-5'	7/25/94	7/25/94	36	nd	nd	nd	nd
SOV 5-04-10'	7/25/94	7/25/94	18	nd	nd	nd	nd
SOV 5-05-5'	7/25/94	7/25/94	1985	1.53	0.98	nd	nd
SOV 5-05-10'	7/25/94	7/25/94	551	6.16	nd	nd	nd
SOV 5-06-5'	7/25/94	7/25/94	48	0.45	nd	nd	nd
SOV 5-06-10'	7/25/94	7/25/94	2586	2.19	3.17	nd	nd
SOV 5-07-5'	7/25/94	7/25/94	2316	36.66	nd	nd	nd
SOV 5-07-10'	7/25/94	7/25/94	17700	126.38	nd	0.46	1.42
SOV 5-08-5'	7/25/94	7/25/94	1435	6.61	nd	nd	nd
SOV 5-08-10'	7/25/94	7/25/94	45340	391.93	9.55	1.38	1.61
SOV 5-09-5'	7/25/94	7/25/94	4144	107.37	10.98	nd	3.68
SOV 5-09-10'	7/25/94	7/25/94	16800	113.49	2.80	3.58	2.77
SOV 5-10-5'	7/26/94	7/26/94	24	0.13	0.64	nd	nd
SOV 5-10a-10'	7/26/94	7/26/94	124	0.30	nd	nd	nd
SOV 5-11-5'	7/26/94	7/26/94	295	0.35	0.07	nd	0.13
REPORTING LIMITS - parts per million by volume (ppmV)			1	0.01	0.01	0.01	0.01

'nd' INDICATES NOT DETECTED AT LISTED REPORTING LIMITS.
'—' INDICATES ANALYSIS NOT REQUESTED

ANALYSES PERFORMED IN TEG's DHS CERTIFIED MOBILE LAB
ANALYSES PERFORMED BY: Mr. Leif Jonsson
DATA REVIEWED BY: Mr. Mark Jerpbak 8-19-94

Transglobal Environmental Geochemistry
PO Box 162580, Sacramento, CA 95816 Phone: (916) 736-3233 Fax: (916) 452-5806

OPERATIONAL TECHNOLOGIES
Project #1315-117-115
Air National Guard - Hayward, California

TEG PROJECT #940725C

BTEX (EPA 8020) & TPH (EPA mod8015) ANALYSES OF SOIL VAPOR in ppmV

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	TPH ppmV	BENZENE ppmV	TOLUENE ppmV	ETHYLBNZ ppmV	XYLENES ppmV
SOV 5-11-10'	7/26/94	7/26/94	5538	38.62	nd	nd	nd
SOV 5-16-10'	7/26/94	7/26/94	9200	–	–	–	–
SOV 5-17-10'	7/26/94	7/26/94	26200	79.26	46.97	3.00	1.09
SOV 5-18-10'	7/26/94	7/26/94	15655	353.34	103.71	20.34	33.29
SOV 5-19-10'	7/26/94	7/26/94	13830	202.77	4.58	nd	0.20
SOV 5-20-10'	7/26/94	7/26/94	16900	42.45	nd	nd	7.19
SOV 5-21-10'	7/26/94	7/26/94	8362	37.74	51.71	8.81	7.19
SOV 5-23-10'	7/26/94	7/26/94	11140	91.86	25.03	nd	12.18
SOV 5-24-10'	7/26/94	7/26/94	27500	285.46	85.29	5.45	18.74
SOV 5-25-10'	7/26/94	7/26/94	3941	103.34	1.73	2.00	1.05
SOV 5-26-10'	7/26/94	7/26/94	9256	117.94	72.21	10.80	23.71
SOV 5-27-10'	7/26/94	7/26/94	7284	12.63	30.43	4.43	7.62
SOV 5-28-10'	7/26/94	7/26/94	7528	–	–	–	–
SOV 5-29-10'	7/26/94	7/26/94	2063	–	–	–	–
SOV 5-29-10' DUP	7/26/94	7/26/94	2126	–	–	–	–
SOV 5-30-10'	7/26/94	7/26/94	39	0.06	0.03	nd	nd
SOV 5-30-10' DUP	7/26/94	7/26/94	35	0.07	0.04	nd	nd
SOV 5-31-10'	7/26/94	7/26/94	14730	59.47	57.79	8.72	25.02
SOV 5-32-10'	7/26/94	7/26/94	2783	–	–	–	–
SOV 5-33-10'	7/26/94	7/26/94	955	–	–	–	–
SOV 5-34-10'	7/26/94	7/26/94	8330	–	–	–	–
SOV 5-35-10'	7/26/94	7/26/94	5490	–	–	–	–
SOV 5-36-10'	7/26/94	7/26/94	2620	–	–	–	–
REPORTING LIMITS - parts per million by volume (ppmV)			1	0.01	0.01	0.01	0.01

'nd' INDICATES NOT DETECTED AT LISTED REPORTING LIMITS.
'–' INDICATES ANALYSIS NOT REQUESTED

ANALYSES PERFORMED IN TEG's DHS CERTIFIED MOBILE LAB
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OPERATIONAL TECHNOLOGIES
Project #1315-117-115
Air National Guard - Hayward, California

TEG PROJECT #940725C

CALIBRATION DATA - Area Counts

	BENZENE	TOLUENE	ETHYLBNZ	XYLENES	TPH
Average RF - Midpoint	80.6	80.9	63.6	253.5	2112
Continuing Calibration					
7/25/94	84.1	77.0	62.7	244.1	2119
	104.4%	95.2%	98.6%	96.3%	100.3%
7/25/94	72.3	75.3	58.3	250.5	2062
	89.7%	93.1%	91.7%	98.8%	97.6%
7/26/94	71.6	81.5	55.8	253.9	2352
	88.8%	100.7%	87.7%	100.2%	111.4%
7/26/94	73.6	76.4	58.2	249.5	1827
	91.3%	94.4%	91.5%	98.4%	86.5%

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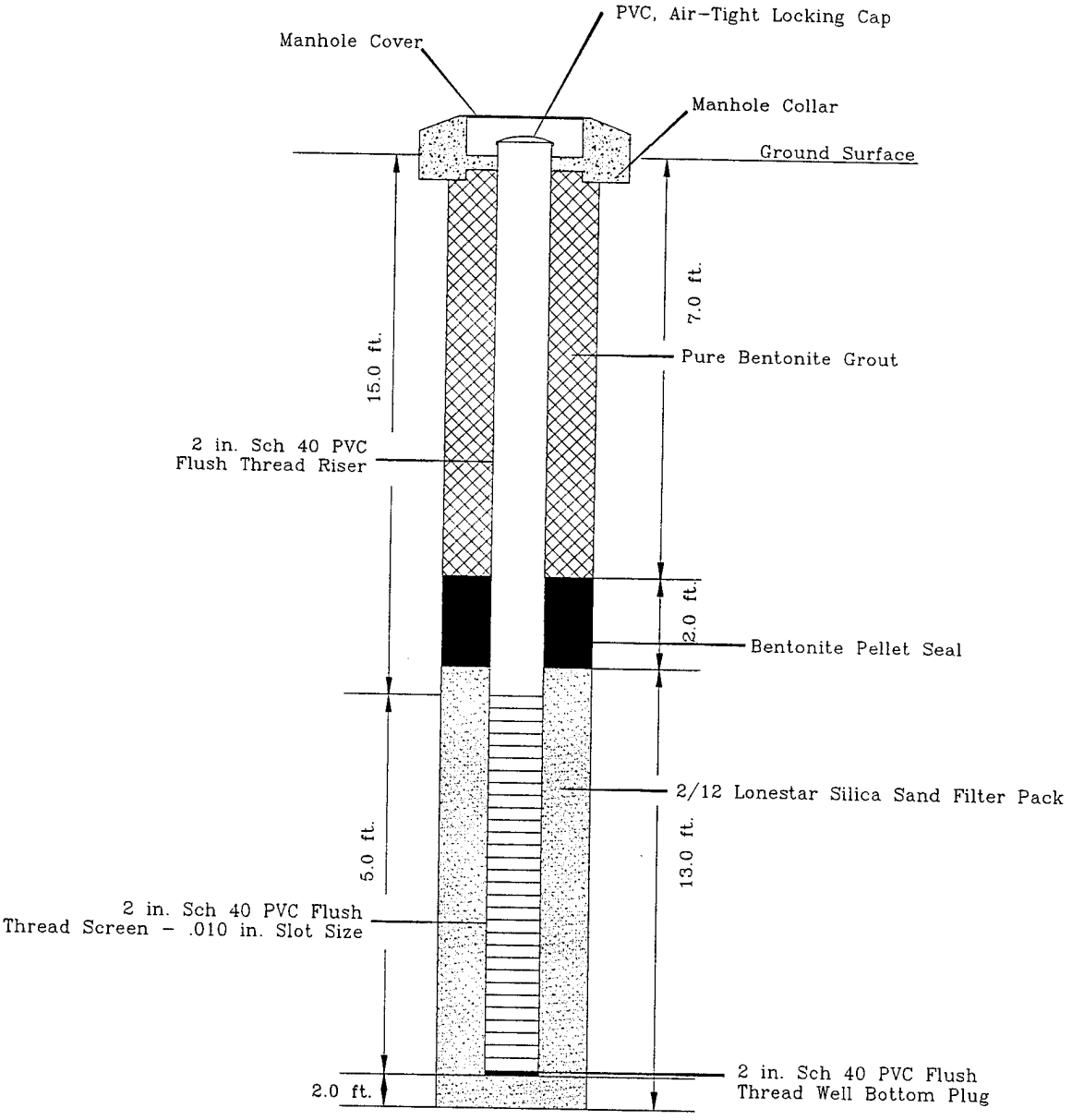
APPENDIX B

WELL CONSTRUCTION LOGS

SECTION B.1 INTRODUCTION

Well construction logs have been completed for each piezometer and monitoring well installed as part of the investigation at IRP Sites No. 4 and No. 5. Diagrams are presented in numerical order. The diagrams include water level data and well construction information for each individual well. Well construction information includes an outline of the wellbore, depth of the borehole, the screened interval, and the sand pack and bentonite seal interval.

Project:	HAYWARD ANGS	Date Installed:	7/27/94
Town/City:	HAYWARD	Drilling Contractor:	TONTO DRILLING
County:	ALAMEDA State: CALIFORNIA	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	27.99 Ft.	Borehole Diameter:	2 INCH
Ground Elev.:	28.22 Ft.	Development Technique:	NA
Water Level:	17.46 Ft. Below TOC		
Total Well Depth:	22.00 Ft.		Not To Scale

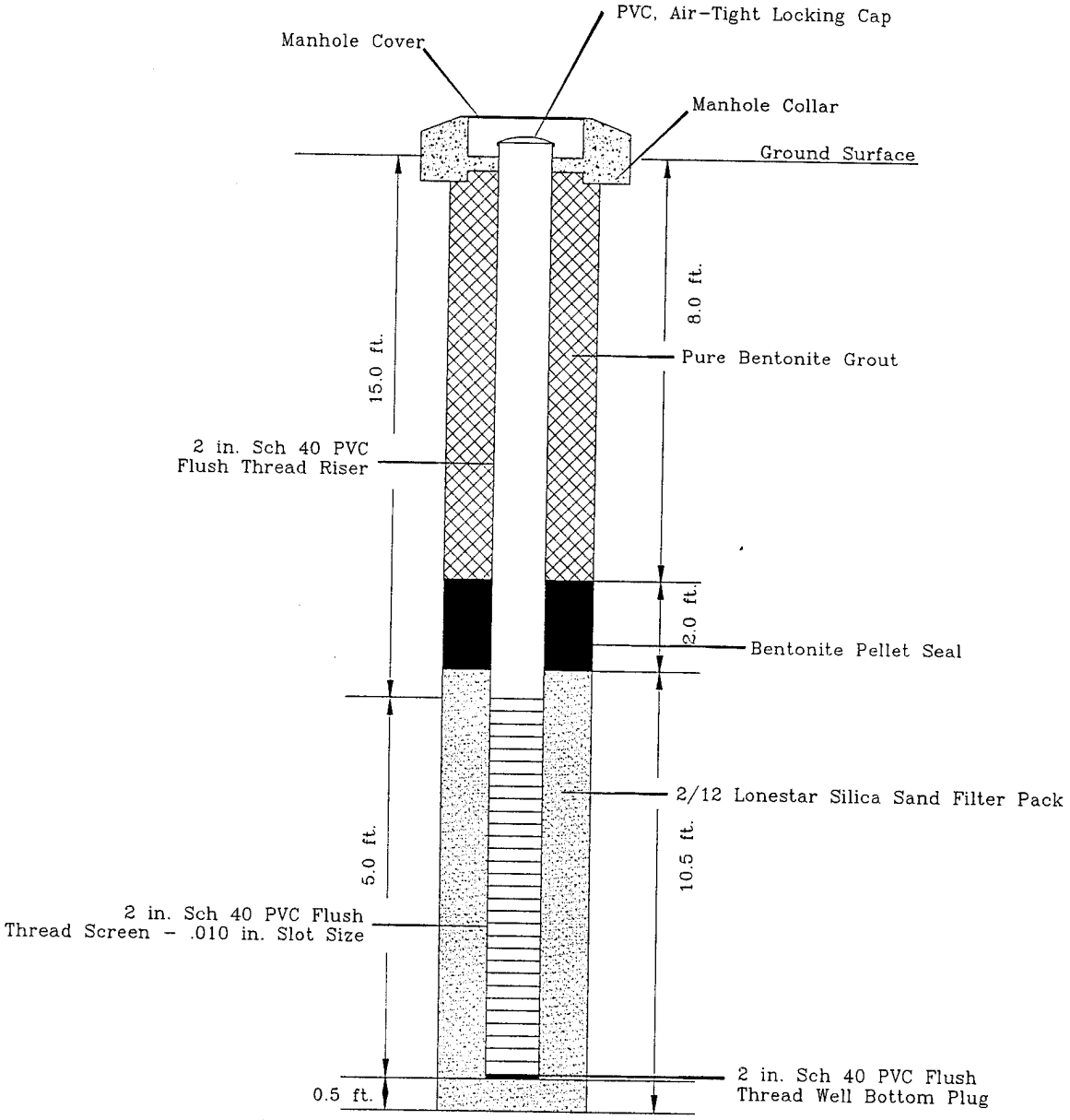


PIEZOMETER CONSTRUCTION LOG
WELL NO. PZ-001

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

JANUARY 1995 HAYWARD\PZ-001

Project:	HAYWARD ANGS	Date Installed:	7/27/94
Town/City:	HAYWARD	Drilling Contractor:	TONTO DRILLING
County:	ALAMEDA State: CALIFORNIA	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	30.95 Ft.	Borehole Diameter:	2 INCH
Ground Elev.:	31.18 Ft.	Development Technique:	NA
Water Level:	11.48 Ft. Below TOC		
Total Well Depth:	20.50 Ft.		Not To Scale

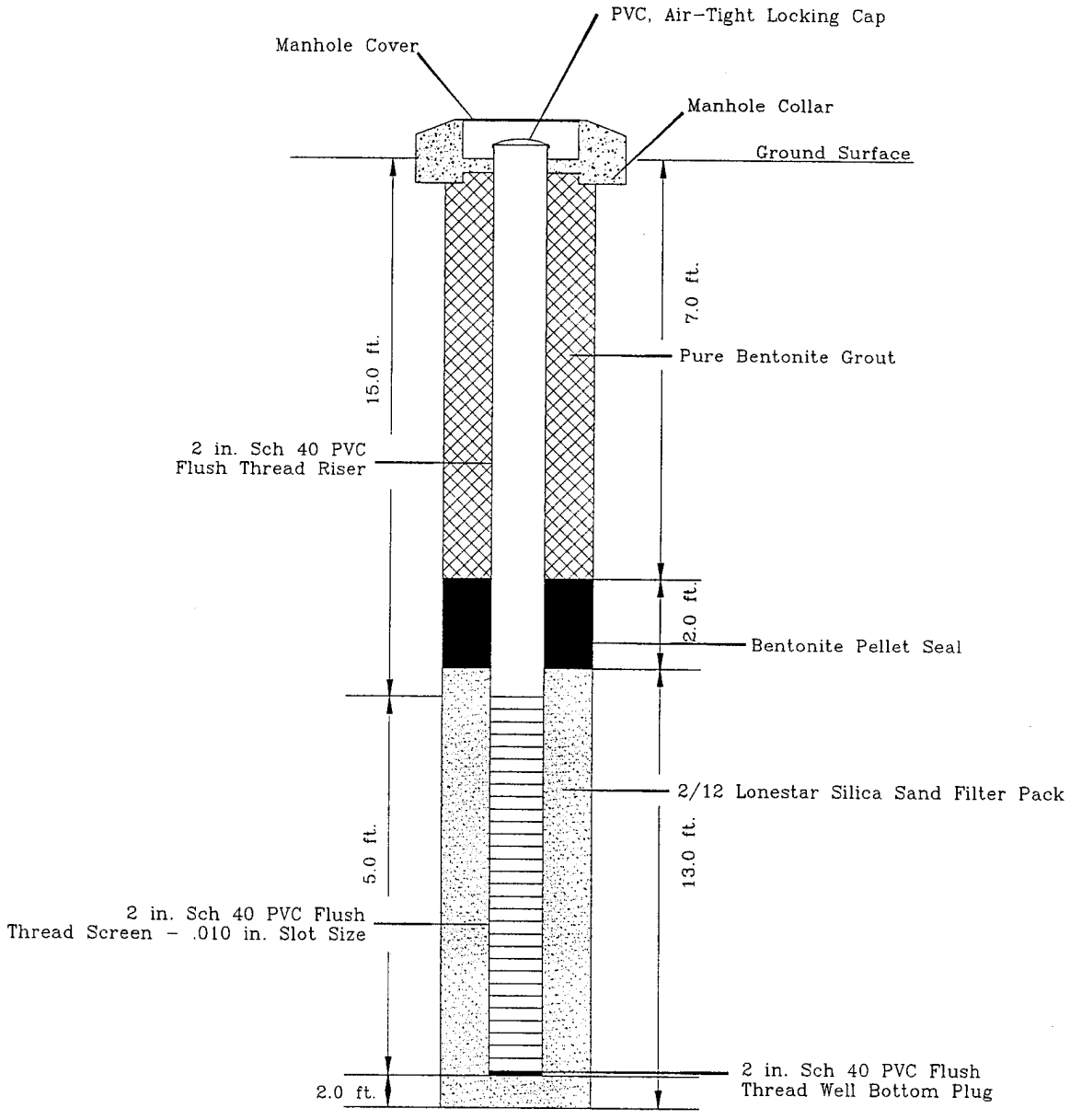


PIEZOMETER CONSTRUCTION LOG
WELL NO. PZ-002

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

JANUARY 1995 HAYWARD\PZ-002

Project:	HAYWARD ANGS	Date Installed:	7/28/94
Town/City:	HAYWARD	Drilling Contractor:	TONTO DRILLING
County:	ALAMEDA State: CALIFORNIA	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	34.31 Ft.	Borehole Diameter:	2 INCH
Ground Elev.:	34.57 Ft.	Development Technique:	NA
Water Level:	14.34 Ft. Below TOC		
Total Well Depth:	22.00 Ft.		Not To Scale

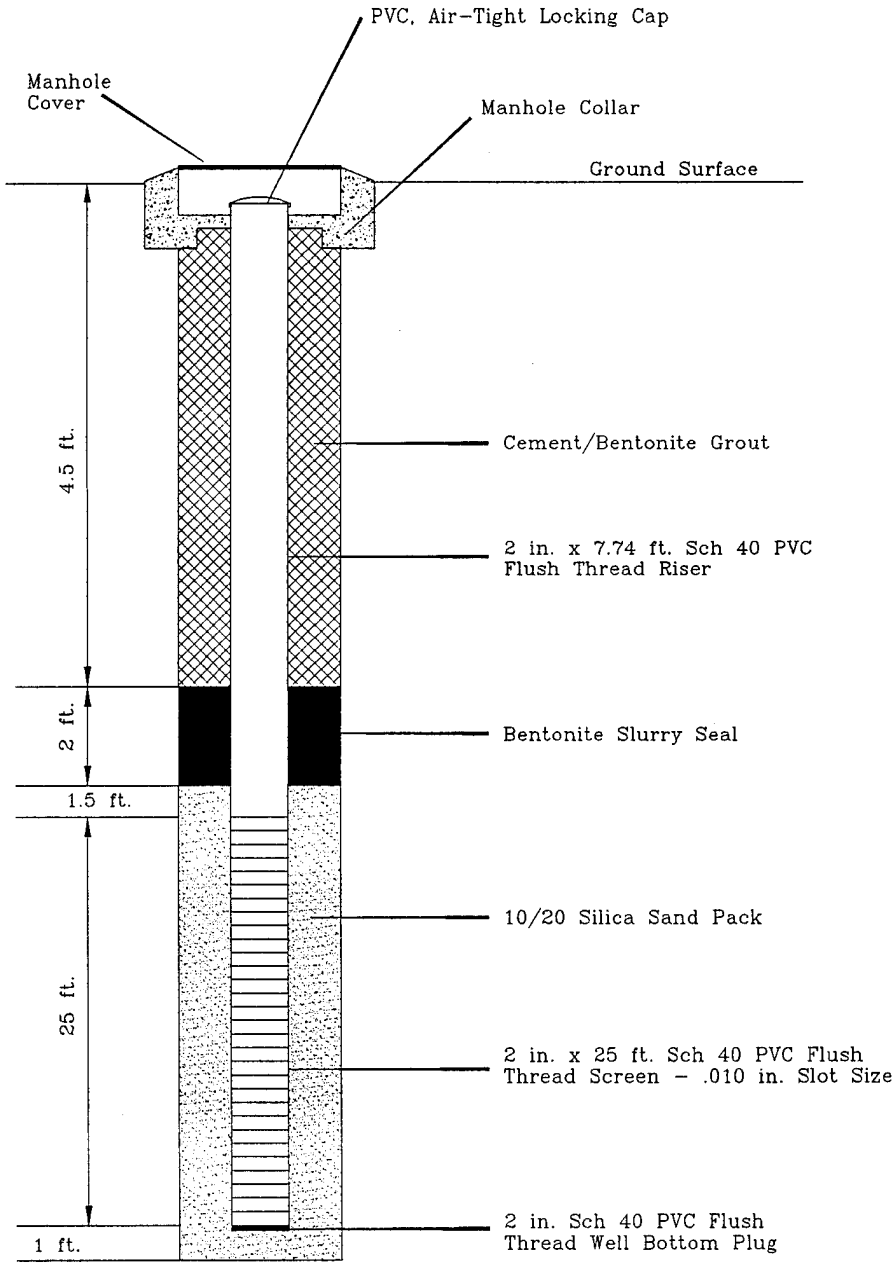


PIEZOMETER CONSTRUCTION LOG
WELL NO. PZ-003

OPTECH
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JANUARY 1995 HAYWARD\PZ-003

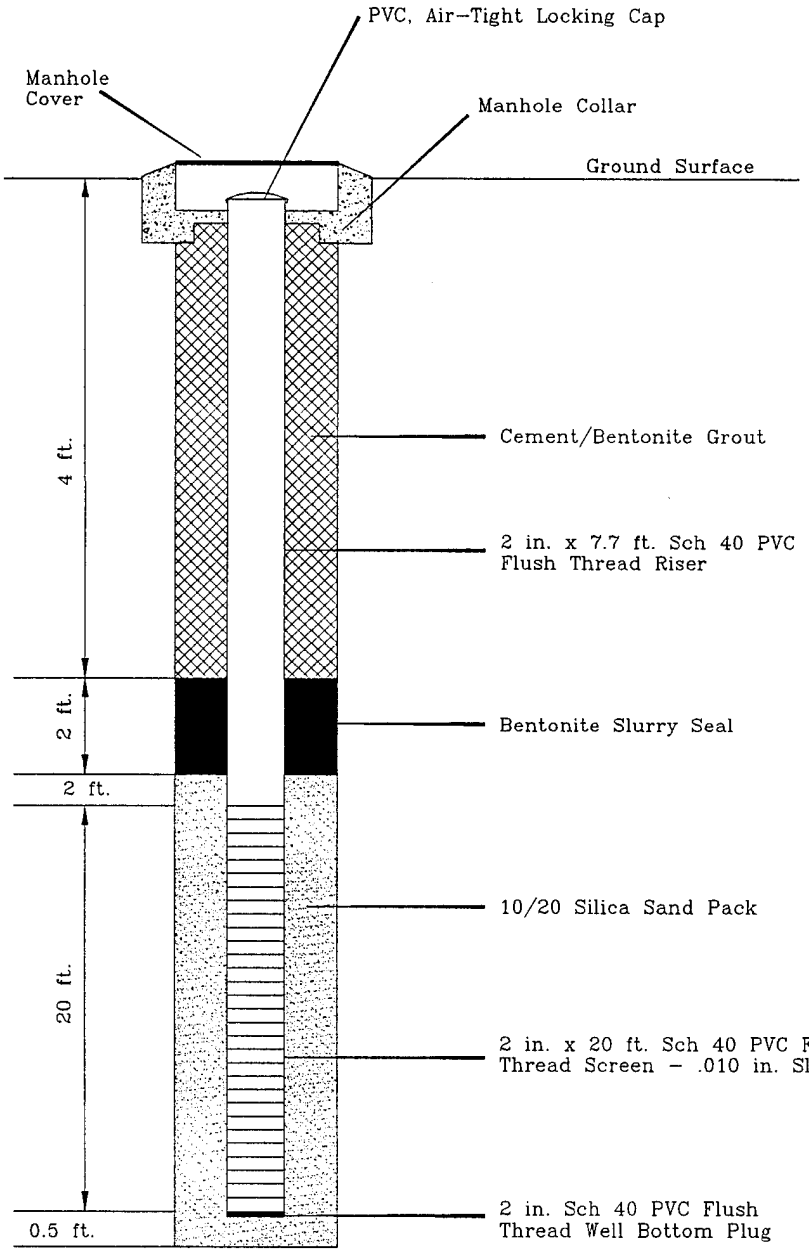
Project:	Hayward ANGS	Date Installed:	August 1, 1994
Town/City:	Hayward	Drilling Contractor:	Tonto Drilling Services Inc.
County:	Alameda State: California	Drilling Method:	Hollow Stem Auger
TOC Elev:	27.12'	Borehole Diameter:	3 3/8"
Ground Elev.:	27.38'	Development Technique:	Electric Submersible Pump
Water Level:	9.33' TOC		
Total Well Depth:	34.0'	Not To Scale	



WELL CONSTRUCTION LOG
Well No. BG-001MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
OCTOBER 1994 HAY\BG-001MW

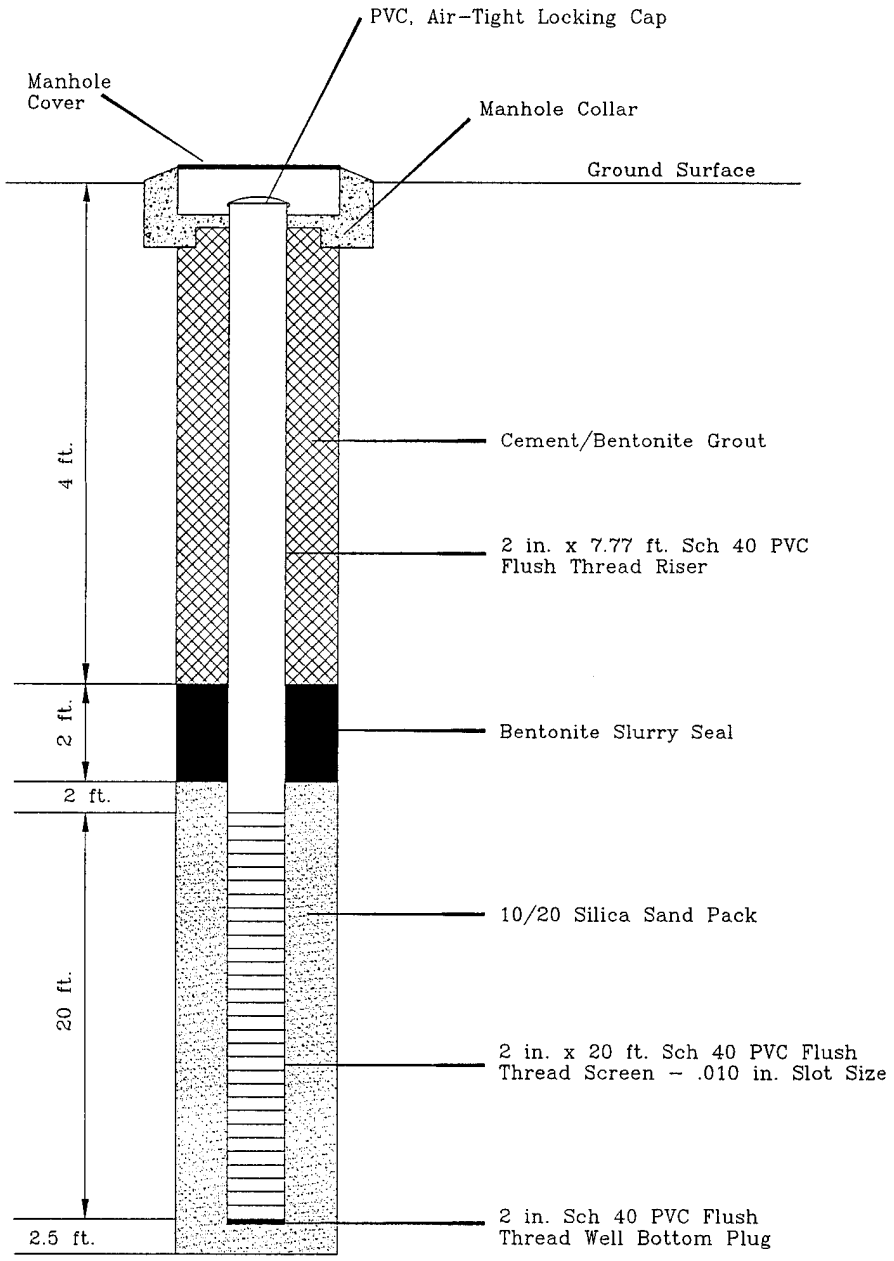
Project: Hayward ANGS	Date Installed: August 3, 1994
Town/City: Hayward	Drilling Contractor: Tonto Drilling Services Inc.
County: Alameda State: California	Drilling Method: Hollow Stem Auger
TOC Elev: 27.59'	Borehole Diameter: 3 3/8"
Ground Elev.: 27.89'	Development Technique: Electric Submersible Pump
Water Level: 9.66' TOC	
Total Well Depth: 28.5'	Not To Scale



WELL CONSTRUCTION LOG
Well No. 04-001MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
OCTOBER 1994 HAY\04-001MW

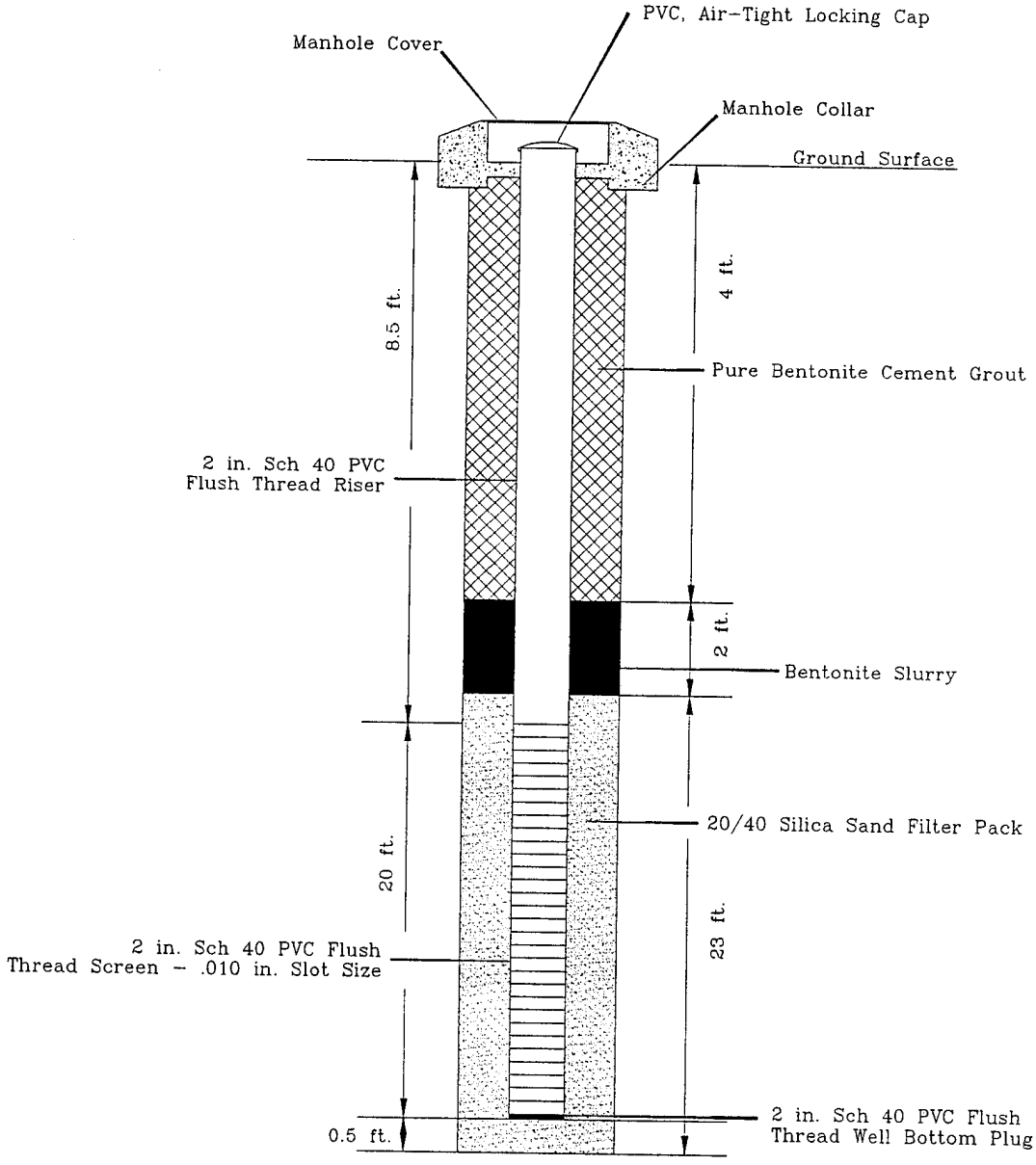
Project:	Hayward ANGS	Date Installed:	August 2, 1994
Town/City:	Hayward	Drilling Contractor:	Tonto Drilling Services Inc.
County:	Alameda State: California	Drilling Method:	Hollow Stem Auger
TOC Elev:	27.64'	Borehole Diameter:	3 3/8"
Ground Elev.:	27.87'	Development Technique:	Electric Submersible Pump
Water Level:	10.11' TOC		
Total Well Depth:	30.5'	Not To Scale	



WELL CONSTRUCTION LOG
Well No. 04-002MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION
OCTOBER 1994 HAY\04-002MW

Project:	HAYWARD ANGS	Date Installed:	AUGUST 4, 1994
Town/City:	HAYWARD	Drilling Contractor:	TONTO DRILLING
County:	ALAMEDA State: CALIFORNIA	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	32.95 ft.	Borehole Diameter:	3 3/8"
Ground Elev.:	33.20 ft	Development Technique:	SURGE PUMPING
Water Level:	12.70 ft. BELOW TOC		
Total Well Depth:	29.0 ft.		Not To Scale

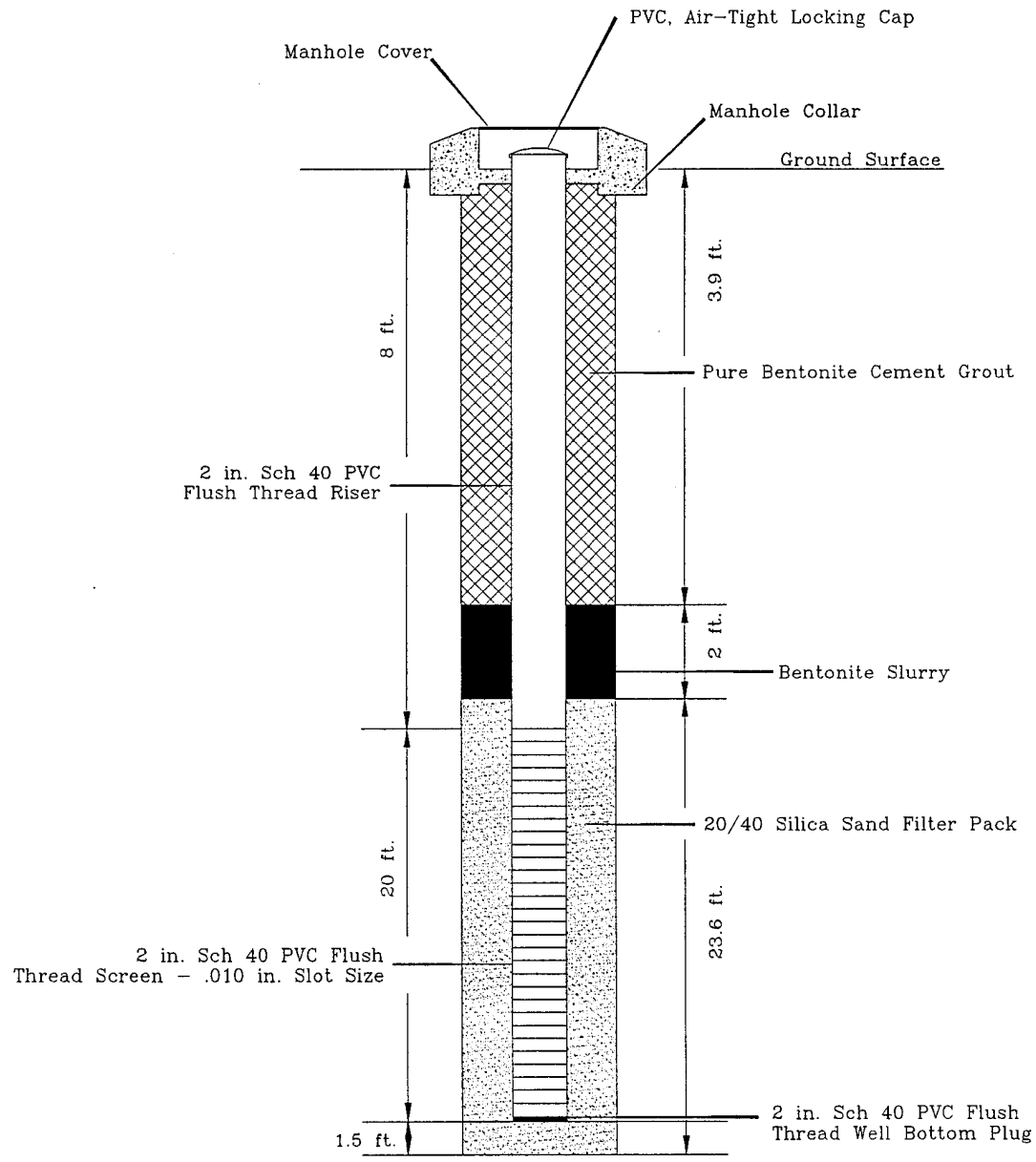


MONITORING WELL CONSTRUCTION LOG
WELL NO. 05-001MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

DECEMBER 1994 HAYWARD\05-001MW

Project:	HAYWARD ANGS	Date Installed:	AUGUST 4, 1994
Town/City:	HAYWARD	Drilling Contractor:	TONTO DRILLING
County:	ALAMEDA State: CALIFORNIA	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	31.17 ft.	Borehole Diameter:	3 3/8"
Ground Elev.:	31.51 ft.	Development Technique:	SURGE PUMPING
Water Level:	12.03 ft. BELOW TOC		
Total Well Depth:	29.5 ft.		Not To Scale

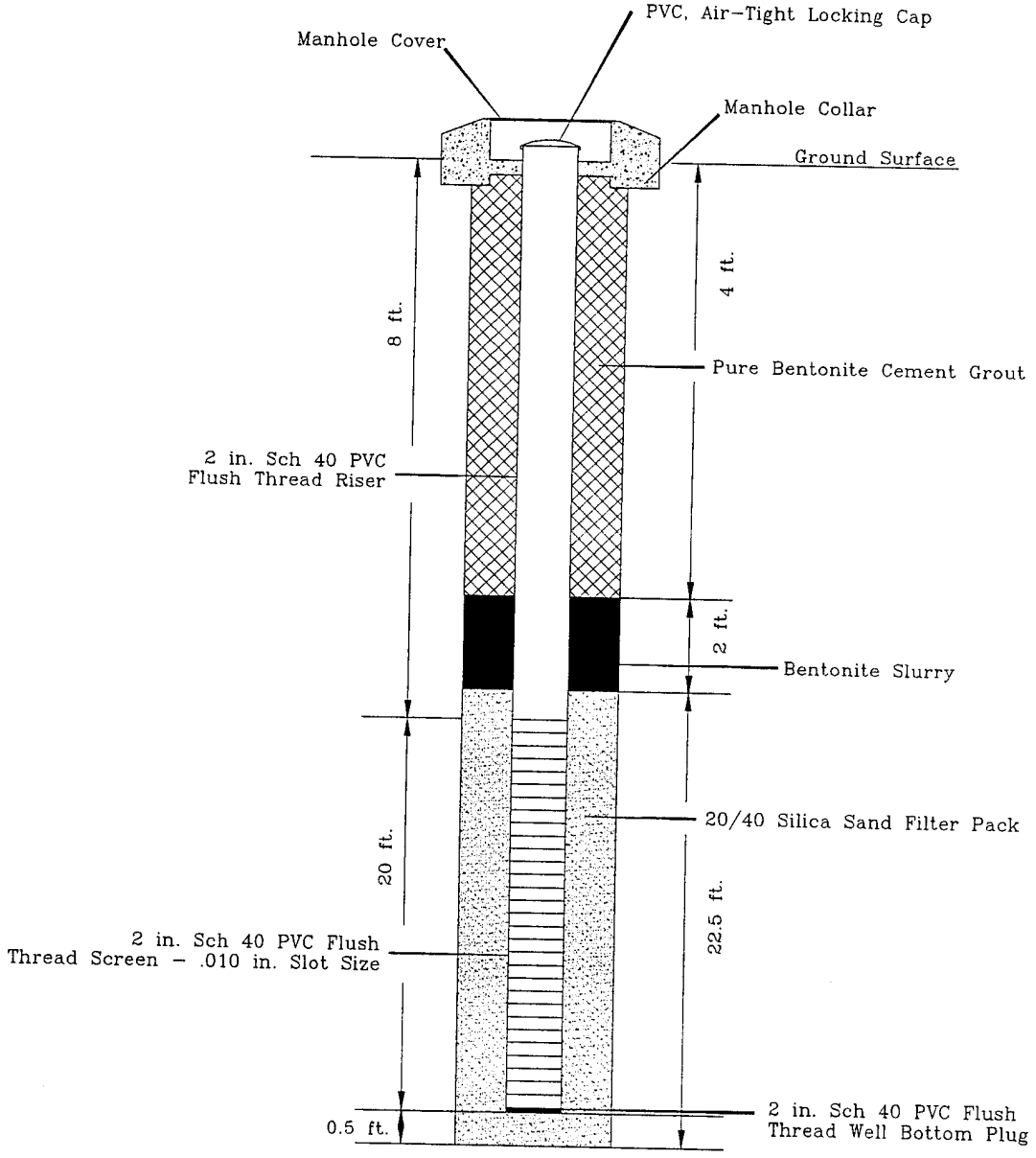


MONITORING WELL CONSTRUCTION LOG
WELL NO. 05-002MW

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OPERATIONAL TECHNOLOGIES CORPORATION

DECEMBER 1994 HAYWARD\05-002MW

Project:	HAYWARD ANGS	Date Installed:	AUGUST 4, 1994
Town/City:	HAYWARD	Drilling Contractor:	TONTO DRILLING
County:	ALAMEDA State: CALIFORNIA	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	31.80 ft.	Borehole Diameter:	3 3/8"
Ground Elev.:	32.09 ft.	Development Technique:	SURGE PUMPING
Water Level:	12.70 ft. BELOW TOC		
Total Well Depth:	28.5 ft.		Not To Scale



MONITORING WELL CONSTRUCTION LOG
WELL NO. 05-003MW

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APPENDIX C

BORING LOGS

SECTION C.1 INTRODUCTION

Boring log diagrams have been compiled for each borehole drilled during this study. Diagrams are presented in numerical order. The borehole identification is keyed to the site number and background (BG), borehole (BH), replacement borehole (RBH), or monitoring well designation (MW) (i.e., 05-002RBH). The diagrams combine in one page both a verbal and graphical illustration of the lithology encountered during drilling, water level data encountered during drilling, and surveyed elevation of the ground surface at the borehole location.

The sample description includes the color, texture, mineralogy, moisture and consistency for each sample collected. The proportions of sand, gravel, and fines are visually estimated and described using the following semi-quantitative adjectives:

Adjective	Estimated Percent of Total Sample
Trace	0 - 5
Few	5 - 10
Little	15 - 25
Some	30 - 45
Mostly	50 - 100

Proportional adjectives precede the lithology, such as little gravel (15 - 25% gravel) and trace of silt (0 - 5% silt). Lithologic symbols are derived and generalized from the Unified Soil Classification System shown in Figure C.1.

In the boring logs that follow, the column headings have the following meanings:

Depth: Depth in feet below land surface.

Blows/6 in.: The number of blows required to drive a split-spoon sampler each of the 6-inch intervals.

Field Screening: The reading of photoionization compounds detected in soil sample by a photoionization detector.

Sampled: The interval of sample cored below land surface.

Percent Recovery: The percentage of sample recovered in the split-spoon sampler per sampling run.

KEY TO BORING LOG SYMBOLS

UNIFIED SOIL CLASSIFICATION SYSTEM – ASTM D2487

MAJOR DIVISIONS			SYMBOL/ GRAPHIC	DESCRIPTIONS
COARSE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	GRAVELS (More than 50% of coarse fraction is larger than the #4 sieve size.)	Clean gravels with little or no fines	GW	Well-Graded Gravels, Gravel – Sand Mixtures
			GP	Poorly Graded Gravels, Gravels – Sand Mixtures
		Gravels with over 12% fines	GM	Silty Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
			GC	Clayey Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
	SANDS (More than 50% of coarse fraction is smaller than the #4 sieve size.)	Clean sands with little or no fines	SW	Well-Graded Sands, Gravelly Sands
			SP	Poorly Graded Sands, Gravelly Sands
		Sands with over 12% fines	SM	Silty Sands, Poorly Graded Sand-Silt Mixtures
			SC	Clayey Sands, Poorly Graded Sand-Clay Mixtures
FINE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	SILTS AND CLAYS (Liquid limit less than 50)		ML	Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands
			CL	Inorganic Clays of Low to Medium Plasticity: Gravelly, Sandy or Silty Clays; Lean Clays
			OL	Organic Clays and Organic Silty Clays of Low Plasticity
	SILTS AND CLAYS (Liquid limit greater than 50)		MH	Inorganic Silts, Micaceous or Diatomacious Fine Sandy or Silty Soils, Elastic Silts
			CH	Inorganic Clays of High Plasticity Fat Clays
			OH	Organic Clays of Medium to High Plasticity, Organic Silts
HIGHLY ORGANIC SOILS			Pt	Peat and Other Highly Organic Soils

Shaded interval represents soil sample.

Blackened interval indicates portion of sample prepared for laboratory analysis.

Water Table Level

PID Photo-Ionization Detector readings (ppm)

Asphalt
Portland Cement Concrete
Cement Grout
Boulders or Bedrock

FIGURE C.1

FORMS\KEYLOG

KEY TO BORING LOG
216th EIS and 234th CCSQ
Hayward ANGS
Hayward, California

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1995

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LOG OF BORING PZ-001

Project No.:	1315-115	Sampling Method:	California-Style Sampler
Logged By:	Bill Hughes	Depth Drilled:	22.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	Depth To Water:	13.17 ft.
Driller:	Randy Gustafson	Date Measured:	07/27/94
Date Drilled:	07/27/94	Surface Elevation:	28.22 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	-				Organic silt, black to very dark gray.	-	-	-	-
	-				Silt, reddish-brown, granular, stiff.	-	-	-	-
					Silt, brown, wet at 14 feet.				
5									
10									
15									
20									
					Boring Terminated at 22.0 ft.				

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LOG OF BORING PZ-002

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	20.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/27/94	**Surface Elevation:**	31.18 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
	-				Sand, fine-grained, greenish-gray to dark greenish-gray.	-	-	-	-
					Silt, black.				
5									
					Silt, brown.				
10									
15	-				Silt/clay, brown.	-	-	-	-
						-	-	-	-
	-				Silt, brown, very loose, wet.				
20									
					Boring Terminated at 20.5 ft.				

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LOG OF BORING PZ-003

Project No.:	1315-115	Sampling Method:	California-Style Sampler
Logged By:	Bill Hughes	Depth Drilled:	22.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	Depth To Water:	NA
Driller:	Randy Gustafson	Date Measured:	NA
Date Drilled:	07/28/94	Surface Elevation:	34.57 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Probable fill, mostly sand and silt, brown, dry.				
	-				Organic silt, black.	-	-	-	-
	-				Silt, brown.	-	-	-	-
5									
10									
15	-				Silt/clay, brown, high plasticity.	-	-	-	-
20									
					Boring Terminated at 22.0 ft.				

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LOG OF BORING BG-001BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	26.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/12/94	**Surface Elevation:**	27.38 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	10 12 14	100			Asphalt. Organic silty clay, very dark brown, dry to moist.	0	-	-	-
5									
	3 4 7	100			Silt and fine sand, brown, wet.	1.2	-	-	-
10									
15	3 3 3	100			Silt, brown, wet.	1.2	-	-	-
20									
25	18 19 24	100			Silt, brown, wet. Gravelly sand in lower 6", brown, wet. Boring Terminated at 26.5 ft.	1.2	-	-	-

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LOG OF BORING BG-001MW

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	34.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	9.33 ft. TOC
Driller:	Randy Gustafson	**Date Measured:**	08/03/94
Date Drilled:	08/01/94	**Surface Elevation:**	27.38 ft.
Drilling Method:	Hollow-Stem Auger	**TOC Elevation:**	27.12 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
					Asphalt.					
					Organic silt, black to dark brown, dry.					
					Sandy silt, fine, brown, loose, dry.					
5	4 6 7	100			Sandy silt, brown, mottled gray and brown in lower 6".	8.6	-	-	-	
10	5 7 7	100			Silt, very dark gray, medium plasticity, some root casts, moist.	20.0	-	-	-	
15	7 3 3	100			Sandy silt to silty clay, brown with gray mottling in upper 6".	0	-	-	-	
20	5 9 11	100			Silty clay/clayey silt, light olive brown, lensed with sand.	0	-	-	-	
25	5 8 12	100			Silt, brown to silty sand, grayish-brown.	3.2	-	-	-	
30	17 25 31	100			Sand, coarse, brown, in upper 6". Gravelly sand with coarse gravel in lower 12".	0	-	-	-	
35					Boring Terminated at 34.0 ft.					

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LOG OF BORING 04-001BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	21.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/28/94	**Surface Elevation:**	27.78 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	15 19 12	100			Probable fill, mostly gravelly silt, yellowish-brown, dry. Organic silt, black, dry.	0	-	-	-
5	4 5 6	100			Silt, brown, to silty clay, mottled, dry.	0	-	-	-
10	4 5 4	100			Silty clay to clay, olive brown to olive gray, high plasticity.	2.9	-	-	-
15	5 6 7	100			Silty clay/clayey silt, brown, with root casts, gray, wet.	28.0	-	-	-
20	2 4 7	100			Silt, olive brown to silty clay, brown, medium plasticity, saturated.	1.0	-	-	-
					Boring Terminated at 21.5 ft.				

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LOG OF BORING 04-002BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	21.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/28/94	**Surface Elevation:**	27.94 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	16 20 12	100			Probable fill, brown to dark brown, dry.	2.4	-	-	-
5	6 8 4	100			Sloughed material, yellowish-brown to dark brown, dry.	0.8	-	-	-
10	2 4 5	100			Silt/clay, brown, plastic.	0.1	-	-	-
15	2 3 4	100			Clayey silt/silty clay, brown.	0.4	-	-	-
20	10 16 19	34			Silt, brown, saturated.	0.7	-	-	-
					Boring Terminated at 21.5 ft.				

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LOG OF BORING 04-003BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	21.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/28/94	**Surface Elevation:**	27.95 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	8 7 2	100			Probable fill, mostly sand, fine-grained, brown with gravel, coarse, to silt, dry.	0	-	-	-
5	4 5 7	100			Sand, very fine-grained, to silt, brown.	0	-	-	-
10	3 4 5	100			Silt, reddish-gray to dark brown, low plasticity, with root casts, gray.	0	-	-	-
15	8 12 15	100			Silt, brown, medium plasticity.	0	-	-	-
20	3 5 7	100			Sand, very fine-grained, to silt, reddish-gray to brown, medium plasticity.	0	-	-	-
					Boring Terminated at 21.5 ft.				

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LOG OF BORING 04-004BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	21.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/28/94	**Surface Elevation:**	28.13 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	21 17 5	100 100			Probable fill with gravel, coarse, dry.	0	-	-	-
	5 5 8				Organic silt, black with some white powdering, dry.	0	-	-	-
5	4 7 7	100 100			Silt, brown to yellowish-brown, with root casts, dark brown, dry.	0	-	-	-
	3 5 5				Silt to sand, very fine-grained, brown.	0	-	-	-
10	7 4 6	100			Silt, reddish-gray to brown, medium plasticity with some root casts.	0	-	-	-
	3 4 6				Silt, dark brown to olive brown.	0	-	-	-
15	5 7 8	100			Silt, brown with root casts.	0	-	-	-
20	3 3 5	100			Silt, brown, medium plasticity.	0	-	-	-
					Boring Terminated at 21.5 ft.				

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LOG OF BORING 04-001MW

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	28.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	9.66 ft. TOC
Driller:	Randy Gustafson	**Date Measured:**	08/05/94
Date Drilled:	08/03/94	**Surface Elevation:**	27.89 ft.
Drilling Method:	Hollow-Stem Auger	**TOC Elevation:**	27.59 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
					Organic silt, black, dry.					
					Silt, brown.					
5	7 9 13	100			Silty sand, brown with root casts, dry.	2.9	-	-	-	
10	4 4 7	100			Silt, reddish-gray to dark brown, plastic.	-	-	-	-	
15	7 10 15	100			Silt, brown, mottled, plastic, moist.	0.4	-	-	-	
20	2 4 6	100			Silt, brown, massive.	0	-	-	-	
25	3 4 7	100			Silt, brown, mottled.	0	-	-	-	
	8 8 11	100			Silt, brown, no plasticity.	0	-	-	-	
30					Boring Terminated at 28.5 ft.					

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LOG OF BORING 04-002MW

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	30.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	10.11 ft. TOC
Driller:	Randy Gustafson	**Date Measured:**	08/05/94
Date Drilled:	08/02/94	**Surface Elevation:**	27.87 ft.
Drilling Method:	Hollow-Stem Auger	**TOC Elevation:**	27.64 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
					Asphalt.					
					Organic silt, dark brown to black, dry.					
					Silt, brown, dry.					
5	4 9 9	100			Silt, brown in upper 6". Silty sand, brown to greenish-gray in lower 12".	5.8	-	-	-	
10	3 5 7	100			Silt, dark greenish-gray with root casts, odor.	33.8	-	-	-	
15	8 8 8	100			Silt, brown with root casts, gray to dark greenish-gray, odor.	38.0	-	-	-	
20	8 11 11	100			Silt, light brownish-gray, mottled.	0	-	-	-	
25	5 6 7	100			Silt, brown, mottled.	2.9	-	-	-	
30	9 9 9	100			Silt, brown with pods, gray. Boring Terminated at 30.5 ft.	0	-	-	-	

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LOG OF BORING 05-001BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/29/94	**Surface Elevation:**	31.98 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	14	100			Asphalt.				
	9				Probable fill, mostly gravelly silt, brown, dry.	1.5	-	-	-
	10				Organic silty clay/clayey silt, black, dry.				-
5	6	100			Silt, brown to olive brown, dry to moist.	1.7	-	-	-
	7								
	8								
	5	100			Silt, olive brown to reddish-gray, dry.	12.4	-	-	-
	6								
	6								
10	3	100			Silt, dark greenish-gray, lensed with sand, wet.	13.4	-	-	-
	3								
	4								
	5	100			Silt, dark greenish-gray, wet.	224.0	-	-	-
	5								
15	7				Boring Terminated at 15.0 ft.				
20									

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LOG OF BORING 05-002BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/29/94	**Surface Elevation:**	31.66 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
	2 3 8	100			Asphalt. Silt, black to brown, dry.	0	-	-	-
5	6 8 9	100			Silt, greenish-gray, dry.	1.1	-	-	-
10	2 3 4	100			Silt, dark greenish-gray, with root casts.	291.0	-	-	-
15	6 8 10	100			Silt, dark greenish-gray, with root casts, wet.	1.5	-	-	-
					Boring Terminated at 15.5 ft.				
20									

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LOG OF BORING 05-003BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/29/94	**Surface Elevation:**	31.24 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
	9 5 7	100			Probable fill, mostly gravelly sand, brown to reddish-brown, dry.	27.3	-	-	-
					Organic silt, black, stiff.				
5	2 3 4	100			Silt, dark greenish-gray, dry.	297.0	-	-	-
10	3 3 6	100			Silt, dark greenish-gray.	214.0	-	-	-
	4 7 11	100			Silt, dark greenish-gray.	531.0	-	-	-
15					Boring Terminated at 15.0 ft.				
20									

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LOG OF BORING 05-004BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	12.7 ft. BLS
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/29/94	**Surface Elevation:**	31.53 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
	3 5 4	100			Probable fill, mostly gravelly silt, dark brown to black.	32.5	-	-	-
					Sandy silt, mottled, dry.				
5	3 4 7	100			Silt, dark greenish-gray, dry.	881.0	-	-	-
10	3 4 4	100			Sand, fine-grained and silt, dark greenish-gray, strong odor.	1876.0	-	-	-
	3 4 7	100			Silt, dark greenish-gray, strong odor, wet.	1200.0	-	-	-
15	5 5 11	100			Silt, dark greenish-gray, with root casts, odor, wet.	881.0	-	-	-
					Boring Terminated at 15.5 ft.				

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LOG OF BORING 05-005BH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	12.3 ft. BLS
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	07/29/94	**Surface Elevation:**	32.19 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
	10 3 4	100			Probable fill, mostly sandy gravel, dry.	0	-	-	-
					Organic silt, black, very stiff.				
5	9 7 9	100			Silt, greenish-gray, dry.	1.3	-	-	-
10	3 5 7	100			Silt, dark greenish-gray.	0	-	-	-
	2 3 5	100			Silt, dark greenish-gray, lensed with sand, fine-grained, moist to wet.	0	-	-	-
15	2 4 7	100			Silt, dark greenish-brown to greenish-gray, plastic, wet.	0	-	-	-
					Boring Terminated at 15.5 ft. BLS.				

HAYWARD ANGS

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LOG OF BORING 05-01RBH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/06/94	**Surface Elevation:**	32.16 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
					Probable fill, mostly gravel and sand, brown in top 6".	0	-	-	-
	6 9 10	100			Organic silt, black, stiff, high plasticity.				
5	5 7 10	100			Silt, brown to dark brown, dry to moist.	21.0	-	-	-
10						25.1	-	-	-
	4 4	100			Silt to sand, very fine-grained, greenish-gray, wet.				
	8 3 4 4	100			Silt/silty clay, greenish-gray, high plasticity, lensed with sand, wet.	0	-	-	-
	4 4	100			Silt/silty clay, dark gray to greenish-gray, plastic, stiff, moist.	6.4	-	-	-
15	7								
					Boring Terminated at 15.5 ft.				

HAYWARD ANGS

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LOG OF BORING 05-02RBH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/06/94	**Surface Elevation:**	31.59 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
	4 7 7	100			Probable fill, mostly sand, brown and silt, black, mottled.	0	-	-	-
					Organic silt/silty clay, stiff, dry to moist.				
5	3 7 9	100			Silt, olive brown to greenish-gray, mottled, moist.	-	-	-	-
10	3 4 5	100			Silt/silty clay, dark greenish-gray, plastic, odor, wet.	249.0	-	-	-
15	7 11 13	100			Silt, dark greenish-gray to dark gray, medium plasticity, stiff, wet.	8.4	-	-	-
					Boring Terminated at 15.5 ft.				

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LOG OF BORING 05-03RBH

Project No.:	**1315-115**	**Sampling Method:**	**California-Style Sampler**
Logged By:	**Bill Hughes**	**Depth Drilled:**	**15.5 ft. BLS**
Drilling Co.:	**Tonto Drilling Services, Inc.**	**Depth To Water:**	**NA**
Driller:	**Randy Gustafson**	**Date Measured:**	**NA**
Date Drilled:	**08/06/94**	**Surface Elevation:**	**30.82 ft.**
Drilling Method:	**Hollow-Stem Auger**		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
					Probable fill, mostly sand and gravel, brown.	0	-	-	-
	7 7 7	100			Organic silt, black, plastic, stiff.				
5	5 8 6	100			Silt/clay, brown, plastic, to silt, dark greenish-gray, low plasticity, moist.	105.0	-	-	-
10		100			Silt/silty clay, dark greenish-gray, high plasticity, odor, moist.	1210.0	-	-	-
15	6 8 9	100			Silt, dark greenish-gray, with root casts, medium plasticity.	518.0	-	-	-
					Boring Terminated at 15.5 ft.				

HAYWARD ANGS

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LOG OF BORING 05-04RBH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/06/94	**Surface Elevation:**	32.47 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
					Probable fill, sand and gravelly sand, brown, dry.				
	12 9 8				Organic silt/silty clay, black, stiff, dry to moist.	106.0	-	-	-
5	5 7 8				Silt, dark greenish-gray, low to medium plasticity, stiff, odor, dry to moist.	1808.0	-	-	-
10	2 2 3				Silt to silty clay, dark greenish-gray to dark gray, odor, wet.	2500.0	-	-	-
	3 5 7				Silt/silty clay, dark greenish-gray to dark gray, stiff, plastic, odor.	-	-	-	-
15					Boring Terminated at 15.0 ft.				

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LOG OF BORING 05-05RBH

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	15.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/05/94	**Surface Elevation:**	32.15 ft.
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
					Organic silt, block, plastic.				
	7 7 7	75				-	-	-	-
5									
	4 5	100			Silt, olive-gray, stiff, moist.	0.6	-	-	-
	6 4 7 5	100			Silt, dark greenish-gray, stiff, moist.	1.6	-	-	-
10									
	4 5	100			Silt to sand, very fine-grained, dark greenish-gray, saturated.	0.2	-	-	-
	5 2 2 3	100			Silt, dark greenish-gray to brown, stiff, plastic, moist.	0.1	-	-	-
	3 4 7	50			Silt, dark greenish-gray, stiff, plastic.	0	-	-	-
15					Boring Terminated at 15.5 ft. BLS.				

HAYWARD ANGS

HAYWARD, CALIFORNIA

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 05-001MW

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	29.0 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/04/94	**Surface Elevation:**	33.20 ft.
Drilling Method:	Hollow-Stem Auger	**TOC Elevation:**	32.95 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
					Asphalt.					
					Probable fill, mostly silt, reddish-yellow, with gravel, coarse, dry.					
					Organic silt, black, dry.					
5	6 13 22	100			Silt, brown, with root casts, dry to moist.	1.3	-	-	-	
10	3 3 3	100			Silt, brown, with 2 inches fine-grained sand seam at 10.5 feet, saturated.	1.8	-	-	-	
15	6 7 10	100			Silt, dark brown, saturated.	2.7	-	-	-	
20	4 5 10	100			Sand, very fine-grained to silt, brown, saturated.	2.4	-	-	-	
25	2 7 8	100			Silt, dark grayish-brown, mottled, saturated.	1.3	-	-	-	
	5	100			Sand, very fine-grained to silt, brown, saturated.	-	-	-	-	
30					Boring Terminated at 29.0 ft.					

HAYWARD ANGS

HAYWARD, CALIFORNIA

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OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 05-002MW

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	29.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/05/94	**Surface Elevation:**	31.51 ft.
Drilling Method:	Hollow-Stem Auger	**TOC Elevation:**	31.17 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
					Asphalt.					
					Organic silt, black, stiff, plastic.					
5	6 9 11	100			Silt, olive-brown, dry to moist.	7.4	-	-	-	
10	3 4 5	100			Silt, greenish-gray to dark greenish-gray, low to medium plasticity, moist.	-	-	-	-	
15	5 10	100			Silt, greenish-gray, mottled with brown, stiff.	500.0	-	-	-	
	15 7	100			Silt, greenish-gray, stiff.	0	-	-	-	
	8 12	50			Silt to sandy silt/silty sand, greenish-gray.	-	-	-	-	
20	7 8 10 8 8 8	100			Silty sand to gravelly sand dark greenish-gray to dark gray, wet.	0	-	-	-	
25	10 13 13	100			Gravelly sand, olive brown, wet.	0	-	-	-	
		100			Gravelly sand, olive brown, wet.	-	-	-	-	
30					Boring Terminated at 29.5 ft. BLS.					

HAYWARD ANGS

HAYWARD, CALIFORNIA

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LOG OF BORING 05-003MW

Project No.:	1315-115	**Sampling Method:**	California-Style Sampler
Logged By:	Bill Hughes	**Depth Drilled:**	28.5 ft. BLS
Drilling Co.:	Tonto Drilling Services, Inc.	**Depth To Water:**	NA
Driller:	Randy Gustafson	**Date Measured:**	NA
Date Drilled:	08/04/94	**Surface Elevation:**	32.09 ft.
Drilling Method:	Hollow-Stem Auger	**TOC Elevation:**	31.80 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)	Monitoring Well
					Asphalt.					
					Probable fill, mostly silt, brown, dry.					
					Organic silt, black, dry.					
5	7 9 10	100			Silt, brown to olive brown, dry to moist.	12.1	-	-	-	
10	3 4 4	100			Silt, dark greenish-gray, with 2 inches sand seam at 10.4 feet, moist.	-	-	-	-	
15	5 5 6	100			Silt, dark greenish-gray to brown, mottled, with root casts, moist.	65.4	-	-	-	
20	2 3 7	100			Sand, fine to medium-grained, brown.	-	-	-	-	
25	10 10 11	100			Sand, coarse to gravelly sand, olive brown, saturated.	0	-	-	-	
					Boring Terminated at 28.5 ft. BLS.					
30										

APPENDIX D

FIELD GC SCREENING RESULTS

SECTION D.1 INTRODUCTION

This section includes the raw Gas Chromatograph (GC) data generated during the field screening of soil samples collected during the drilling of boreholes, and of groundwater samples collected concurrently with groundwater sampling. Tables D.1, D.2, D.3, and D.4 summarize the GC screening results for soil and groundwater, respectively.

Table D.1
Field GC Data Summary for Soil Samples Collected from IRP Site No. 4
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb unless otherwise noted)					
			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
04-001BH	1.5	10	–	–	–	–	–	0
	5.5	10	–	–	–	–	–	0
	11.5	10	328	4.651 ppm	641	–	120	5.74 ppm
	15.5	10	–	21.56	–	–	–	21.56
	21.5	10	–	56.79	–	–	–	56.79
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
04-002BH	5.5	10	–	–	–	–	–	0
	6.0	10	–	–	–	–	–	0
	10.5	10	–	–	–	–	–	0
	15.5	10	–	–	–	–	–	0
	21.5	10	–	–	–	–	–	0
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
04-003BH	1.5	10	–	–	–	–	–	0
	6.5	10	–	–	–	–	–	0
BG-001MW	15.5	10	–	–	–	–	–	0
	20.5	10	–	20.04	–	–	–	20.04
	25.5	10	–	93.03	–	–	–	93.03
	30.5	10	–	57.00	–	–	–	57.00
STD BLANK	–	–	100	100	100	100	100	500
04-001MW	5.5	10	–	–	–	–	–	0
	10.5	10	–	–	–	–	–	0
	15.5	10	–	–	–	–	–	0
	20.5	10	–	–	–	–	–	0
	25.5	10	–	–	–	–	–	0
	28.5	10	–	–	–	–	–	0
STD BLANK	–	–	100	100	100	100	100	500
04-002MW	5.5	10	–	–	–	–	–	0
	10.5	10	–	2.29 ppm	–	–	763	3.05 ppm

Table D.1 (Concluded)
Field GC Data Summary for Soil Samples Collected from IRP Site No. 4
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb unless otherwise noted)					
			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
04-003BH	10.5	10	–	–	–	–	–	0
	16.5	10	–	–	–	–	–	0
	20.5	10	–	–	–	–	–	0
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
04-004BH	1.5	10	–	–	–	–	–	0
	2.0	10	–	–	–	–	–	0
	5.5	10	–	–	–	–	–	0
	10.5	10	–	–	–	–	–	0
	15.5	10	–	–	–	–	–	0
	20.5	10	–	–	–	–	–	0
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
BG-001MW	6.5	10	–	–	–	–	–	0
	10.5	10	190	5.912 ppm	918	–	491	7.51 ppm
	10.5	10	72.92	18.12 ppm	162	–	480	18.83 ppm[1]
	10.5	10	20	23.65 ppm	300	–	805	24.775 ppm[2]
04-002MW	10.5	10	–	5.22 ppm	–	–	1.26 ppm	6.48 ppm
	10.5	10	–	4.80 ppm	–	–	744	5.54 ppm[1]
	15.5	10	–	–	–	–	–	0
	20.5	10	–	–	–	–	–	0
	25.5	10	–	–	–	–	–	0
	29.5	10	–	–	–	–	–	0

6 ppm is cutoff for dilution.
ppb – parts per billion.
ppm – parts per million.
ft. BLS – feet Below Land Surface.
BH – Borehole.
MW – Monitoring Well.
BG – Background.
STD – Standard.
[1]50-microliter injection.
[2]20-microliter injection.

Table D.2
Field GC Data Summary for Water Samples Collected from IRP Site No. 4
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Boring	Sample Interval (ft. BLS)	Sample Mass (ml)	Concentrations (ppb unless otherwise noted)					
			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX
STD BLANK	–	–	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	1.00 ppm	5.00 ppm
BG-001MW	A	10	–	271	–	–	–	271
	B	10	–	304	–	–	–	304
04-001MW	A	10	–	3.6	–	–	–	3.6
	B	10	–	–	–	–	–	0
04-002MW	A	10	178	165	–	–	–	343
	B	10	–	82	17	–	–	99

ppb – parts per billion.
ppm – parts per million.
ft. BLS – feet Below Land Surface.
MW – Monitoring Well.
BG – Background.
STD – Standard.
ml – milliliter.

Table D.3
Field GC Data Summary for Soil Samples Collected from IRP Site No. 5
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb unless otherwise noted)					
			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX
STD BLANK	–	–	1,000	1,000	1,000	1,000	1,000	5,000
05-001RBH	1.5	10	ND	17	ND	ND	ND	17
	5.5	10	ND	112	ND	ND	ND	112
	10.5	10	240	ND	ND	ND	ND	240
	15.5	10	ND	3,820	518	ND	156	4,494
STD BLANK	–	–	1,000	1,000	1,000	1,000	1,000	5,000
05-002RBH	1.0	10	ND	ND	ND	ND	ND	ND
	5.5	10	ND	532	ND	ND	ND	532
	10.5	10	ND	7,720	834	ND	960	9,514
	10.5	10	ND	7,040	1,086	ND	708	8,834[1]
	14.5	10	ND	1,240	ND	ND	ND	1,240
STD BLANK	–	–	1,000	952	939	932	895	4,718
05-003RBH	1.0	10	ND	ND	ND	ND	ND	ND
	5.5	10	255	1,700	9	ND	134	2,098
	10.5	10	3,210	27,000	3,400	1,000	8,300	42,910
	10.5	10	2,760	16,650	2,445	545	6,850	29,250
	14.5	10	888	2,470	490	160	1,420	5,428
STD BLANK	–	–	1,000	958	905	895	893	4,651
05-004RBH	0.5	10	38	42	ND	ND	ND	80
	5.5	10	ND	ND	ND	10,200	55,000	65,200[2]
	5.5	10	7,220	29,000	24,200	2,400	20,000	82,820[3]
	10.5	10	27,600	220,000	36,000	10,680	62,200	356,480[3]
	10.5	10	17,250	470,000	39,600	10,650	68,500	606,000[4]
	14.0	10	ND	34,000	460	ND	3,840	38,300[3]
STD BLANK	–	–	1,000	1,000	1,000	1,000	1,000	5,000
05-005RBH	1.0	10	677	196	18	ND	ND	891
	6.5	10	ND	ND	ND	ND	ND	ND
	15.0	10	ND	ND	ND	ND	ND	ND
	20.0	10	ND	ND	ND	ND	ND	ND
STD BLANK	–	–	100	100	100	100	100	500

Table D.3 (Concluded)
Field GC Data Summary for Soil Samples Collected from IRP Site No. 5
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb unless otherwise noted)					
			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX
05-001MW	5.5	10	ND	ND	ND	ND	ND	ND
	10.5	10	ND	ND	ND	ND	ND	ND
	15.5	10	ND	ND	ND	ND	ND	ND
	20.5	10	ND	ND	ND	ND	ND	ND
	25.5	10	ND	ND	ND	ND	ND	ND
STD BLANK	–	–	1,000	1,000	1,000	1,000	1,000	5,000
05-002MW	5.5	10	ND	56	3.06	ND	ND	59.06
	10.5	10	127	9,790	35,290	885	5,560	51,652
	10.5	10	25	8,000	6,100	1,115	8,850	24,090[2]
	15.5	10	ND	283	12	ND	72	367
	20.5	10	ND	85	ND	ND	ND	85
	25.5	10	ND	12	ND	ND	ND	12
STD BLANK	–	–	1,000	1,000	1,000	1,000	1,000	5,000
05-003MW	5.5	10	ND	78.86	ND	ND	ND	78.86
	10.5	10	ND	350.4	ND	ND	ND	350.4
	15.5	10	434	7,850	549	5.15	195.41	9,034
	15.5	10	470	5,280	532	4.5	200	6,486.5[1]
	20.5	10	57	771	83	ND	32	943
	25.5	10	5	204	ND	ND	ND	209

ppb – parts per billion.
BH – Borehole.
ND – Non-Detect.
ft. BLS – feet Below Land Surface.
MW – Monitoring Well.
STD – Standard.
[1]2 to 1 injection.
[2]5 to 1 injection.
[3]20 to 1 injection.
[4]50 to 1 injection.

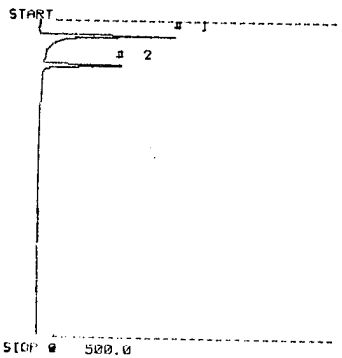
Table D.4
Field GC Data Summary for Water Samples Collected from IRP Site No. 5
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Boring	Sample Interval (ft. BLS)	Sample Mass (ml)	Concentrations (ppb unless otherwise noted)					
			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX
STD BLANK	–	–	1,000	1,000	1,000	1,000	1,000	5,000
05-001MW	A	10	ND	ND	ND	ND	ND	ND
	B	10	ND	ND	ND	ND	ND	ND
05-002MW	A	10	12	147	5	ND	ND	164
	B	10	ND	136	7	ND	ND	143
05-003MW	A	10	6	260	ND	ND	ND	266
	B	10	4	229	ND	ND	ND	233

ppb – parts per billion.
MW – Monitoring Well.
STD – Standard.
ft. BLS – feet Below Land Surface.
ml – milliliter.

04-002BH 10.5FT

PHOTOVAC

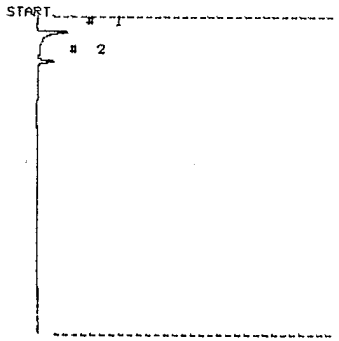


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SAMPLE LIBRARY 1 JUL 28 1994 11:48
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 04-002BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.4	1.1	VS
UNKNOWN	2	25.5	1.0	VS

04-002BH 15.5FT

PHOTOVAC

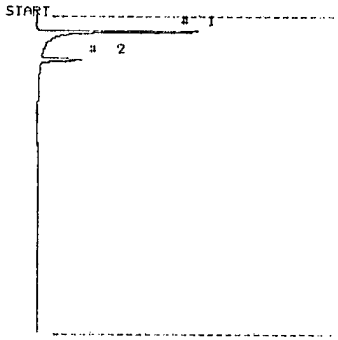


STOP @ 500.0
SAMPLE LIBRARY 1 JUL 28 1994 11:57
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 04-002BH 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	26.9	168.5	mVS
UNKNOWN	2	29.7	181.4	mVS

04-002BH 21.5FT

PHOTOVAC

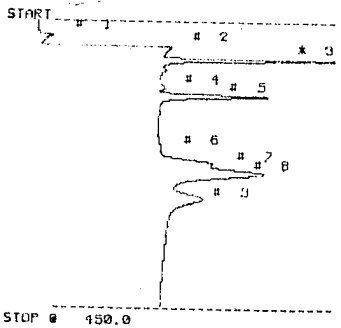


STOP @ 500.0
SAMPLE LIBRARY 1 JUL 28 1994 12: 6
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04-002BH 21.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	26.4	1.3	VS
UNKNOWN	2	29.1	512.3	mVS

100 PPB STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 9:7
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 100 PPB STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	44.7	644.5 mUS
UNKNOWN	3	63.9	2.7 US
UNKNOWN	4	111.4	82.2 mUS
UNKNOWN	5	123.6	2.2 US
UNKNOWN	7	231.6	1.8 US
UNKNOWN	8	247.2	5.2 US
UNKNOWN	9	289.1	1.6 US

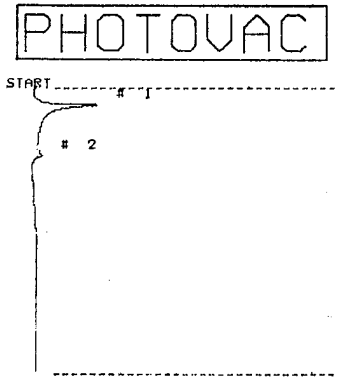
*GAIN WAS ADJUSTED DURING ANALYSIS. FROM 2 TO 10

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	63.9	100.0 PPB
TOLUENE	2	123.6	100.0 PPB
ETHYLBENZENE	3	231.6	100.0 PPB
MP XYLENE	4	247.2	100.0 PPB
O XYLENE	5	289.1	100.0 PPB

BLANK

PHOTOVAC

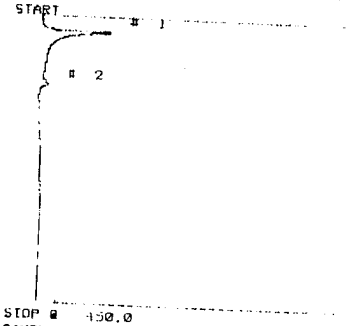


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 9:17
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.4	477.3 mUS
UNKNOWN	2	111.4	132.0 mUS

04-001MW 5.5FT

PHOTOVAC



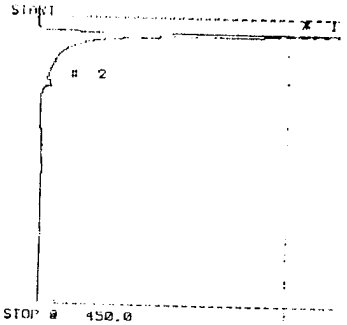
STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 9:50
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-001MW 5.5FTP

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	523.4 mUS
UNKNOWN	2	111.4	122.5 mUS

04-001MW 10.5FT



PHOTOVAC

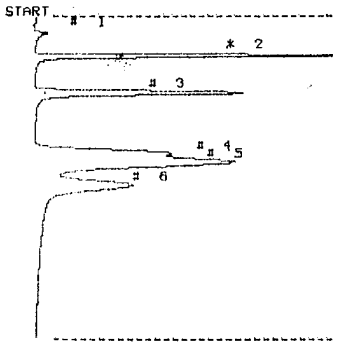


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 9:59
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-001MW 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.8	5.8 US
UNKNOWN	2	111.4	130.1 mUS

1 PPM STD

PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY 1 JUL 28 1994 9:47
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 1 PPM STD

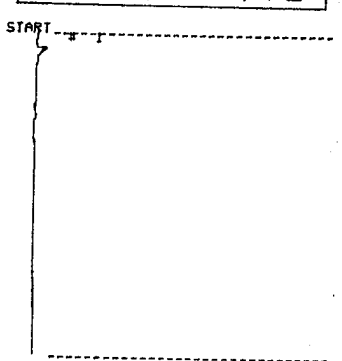
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.3	26.1 mVS
UNKNOWN	2	64.6	5.7 VS
UNKNOWN	3	124.4	5.2 VS
UNKNOWN	4	220.2	4.8 VS
UNKNOWN	5	233.4	10.7 VS
UNKNOWN	6	269.6	8.4 VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	64.6	1.000 PPM
TOLUENE	2	124.4	1.000 PPM
ETHYLBENZENE	3	220.2	1.000 PPM
MP XYLENE	4	233.4	1.000 PPM
O XYLENE	5	269.6	1.000 PPM

BLANK

PHOTOVAC

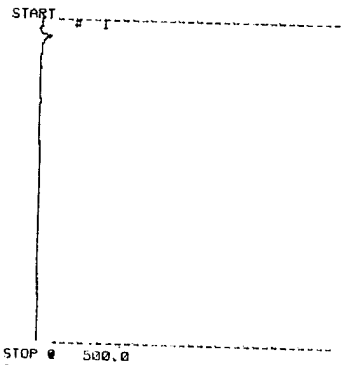


STOP @ 500.0
SAMPLE LIBRARY 1 JUL 28 1994 11:10
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.7	20.3 mVS

04-002BH 6INCH

PHOTOVAC

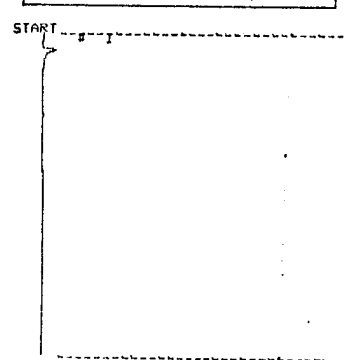


STOP @ 500.0
SAMPLE LIBRARY 1 JUL 28 1994 11:19
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 04-002BH 6INCH

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.9	20.4 mVS

04-002BH 5.5FT

PHOTOVAC

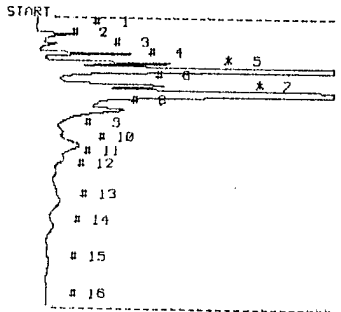


STOP @ 500.0
SAMPLE LIBRARY 1 JUL 28 1994 11:29
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 04-002BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.6	27.6 mVS

04-001BH 11.5FT

PHOTOVAC

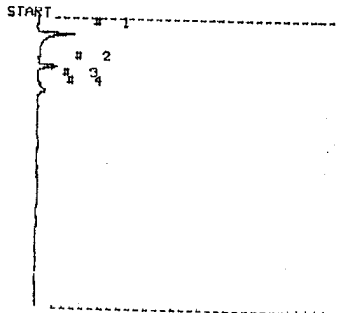


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 13:44
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04-001BH 11.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.8	212.9 mVS
UNKNOWN	2	43.2	29.4 mVS
UNKNOWN	3	58.5	1.0 VS
BENZENE	4	72.7	328.3 PPB
UNKNOWN	5	82.0	13.5 VS
UNKNOWN	6	108.2	2.6 VS
TOLUENE	7	120.1	4.651 PPM
UNKNOWN	8	142.6	3.2 VS
UNKNOWN	9	182.2	720.2 mVS
ETHYLBENZENE	10	204.0	516.3 PPB
ETHYLBENZENE	11	225.0	124.5 PPB
O XYLENE	13	233.1	120.1 PPB
UNKNOWN	14	334.0	186.6 mVS
UNKNOWN	15	352.2	101.2 mVS

04-001BH 15.5FT

PHOTOVAC

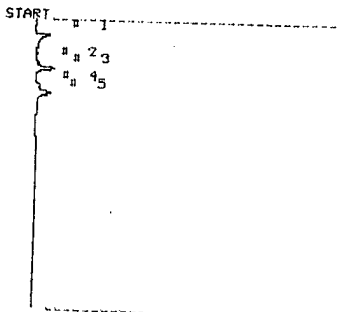


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 13:56
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-001BH 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.6	232.8 mVS
UNKNOWN	2	79.3	269.7 mVS
UNKNOWN	3	106.9	12.4 mVS
TOLUENE	4	117.4	21.56 PPB

04-001BH 21FT

PHOTOVAC

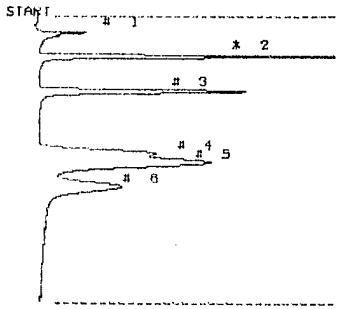


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 14:41
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04- 001BH 21FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.1	33.5 mVS
UNKNOWN	3	78.9	267.4 mVS
UNKNOWN	4	106.3	28.3 mVS
TOLUENE	5	117.1	56.29 PPB

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 12:35
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 1 PPM STD

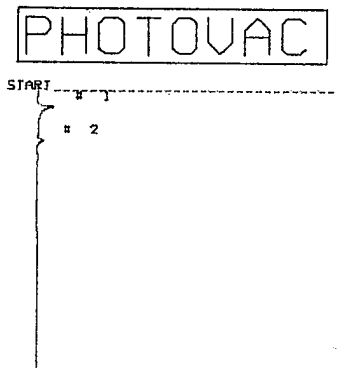
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.6	324.8 mVS
UNKNOWN	2	65.5	5.3 VS
UNKNOWN	3	122.0	4.5 VS
UNKNOWN	4	223.8	4.4 VS
UNKNOWN	5	237.6	9.4 VS
O XYLENE	6	276.6	876.2 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	65.5	1.000 PPM
TOLUENE	2	122.0	1.000 PPM
ETHYLBENZENE	3	223.8	1.000 PPM
MP XYLENE	4	237.6	1.000 PPM
O XYLENE	5	276.6	1.000 PPM

BLANK

PHOTOVAC

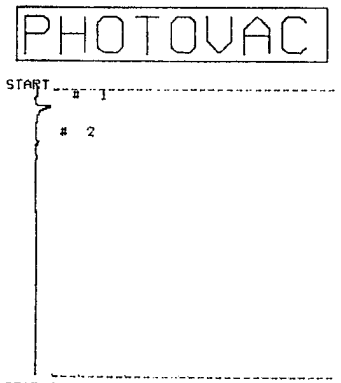


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 12:45
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.0	33.3 mVS
UNKNOWN	2	82.9	62.5 mVS

04-001BH 1.5FT

PHOTOVAC

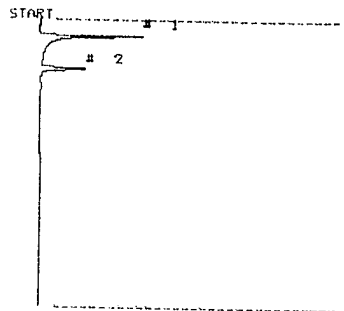


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 13:26
ANALYSIS # 19 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04-001BH 1.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.1	36.3 mVS
UNKNOWN	2	85.3	26.5 mVS

04-001BH 5.5FT

PHOTOVAC

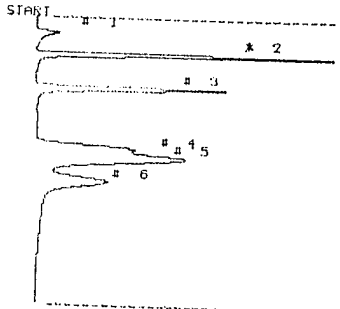


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 13:34
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04-001BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.0	719.3 mVS
UNKNOWN	2	81.1	650.7 VS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 16: 6
ANALYSIS # 30 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 1 PPM STD

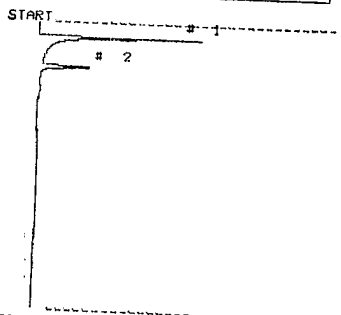
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	35.6 mVS
BENZENE	2	59.9	988.1 PPB
TOLUENE	3	114.7	946.6 PPB
ETHYLBENZENE	4	213.6	906.2 PPB
MP XYLENE	5	226.8	922.0 PPB
O XYLENE	6	264.7	875.5 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	26.1	1.000 PPM
BENZENE	2	59.9	1.000 PPM
TOLUENE	3	114.7	1.000 PPM
ETHYLBENZENE	4	213.6	1.000 PPM
MP XYLENE	5	226.8	1.000 PPM
O XYLENE	6	264.7	1.000 PPM

BLANK

PHOTOVAC

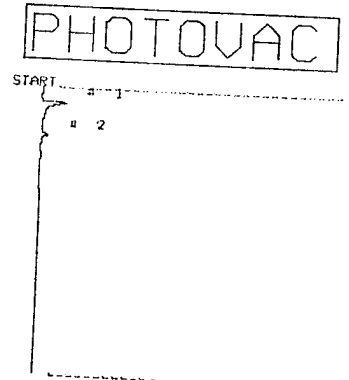


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 16:17
ANALYSIS # 31 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	1.3 VS
UNKNOWN	2	73.1	644.6 mVS

04-004BH 1.5FT

PHOTOVAC

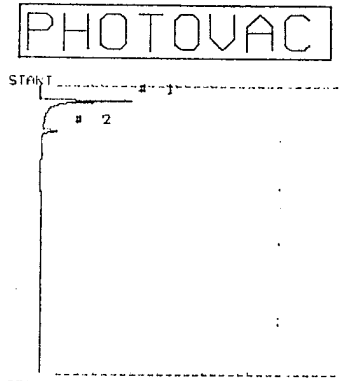


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 16:25
ANALYSIS # 32 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 04-004BH 1.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.1	108.5 mVS
UNKNOWN	2	72.3	62.2 mVS

04-004BH 2FT

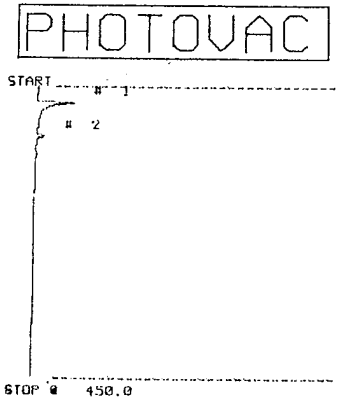
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 16:33
ANALYSIS # 33 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 04-004BH 2FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.1	668.4 mVS
UNKNOWN	2	72.5	173.8 mVS

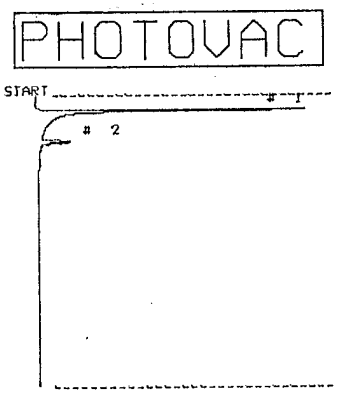
04-004BH 10.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 16:53
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-004BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.6	222.1 mVS
UNKNOWN	2	29.3	20.1 mVS

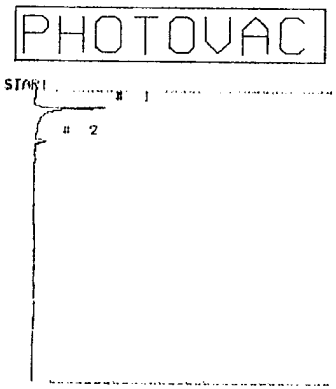
04-004BH 2FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 16:42
ANALYSIS # 34 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 04-004BH 2FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.0	2.2 VS
UNKNOWN	2	74.7	380.8 mVS

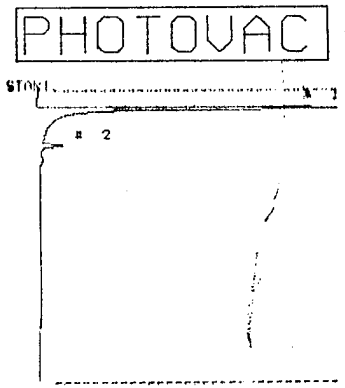
04-004BH 15.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 17: 2
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-004BH 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.3	486.8 mVS
UNKNOWN	2	82.6	129.4 mVS

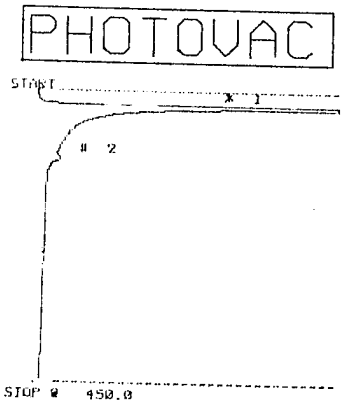
04-004BH 20.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 17:10
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-004BH 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.6	4.2 VS
UNKNOWN	2	88.3	286.2 mVS

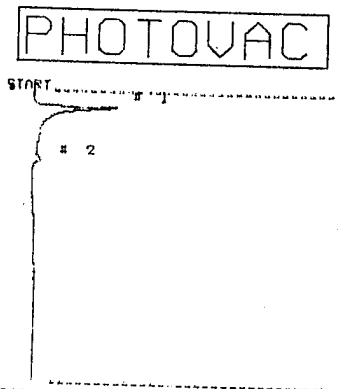
04-001MW 15.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 10: 7
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-001MW 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.3	11.6 US
UNKNOWN	2	111.4	134.9 mUS

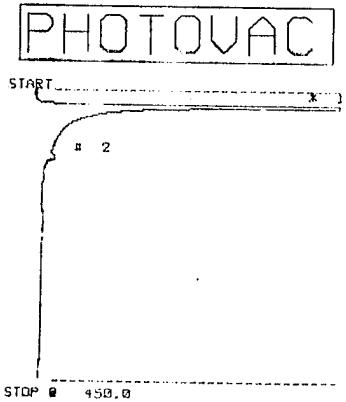
04-001MW 20.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 10:41
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-001MW 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	341.0 mUS
UNKNOWN	2	111.4	125.2 mUS

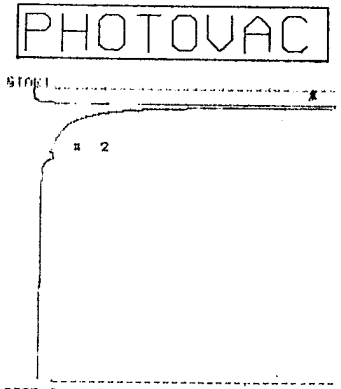
04-001MW 25.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 10:49
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-001MW 25.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.1	7.7 US
UNKNOWN	2	111.4	131.2 mUS

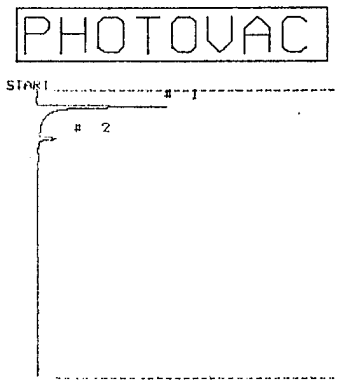
04-004MW 28.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 3 1994 10:58
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-004MW 28.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.0	7.7 US
UNKNOWN	2	111.4	123.7 mUS

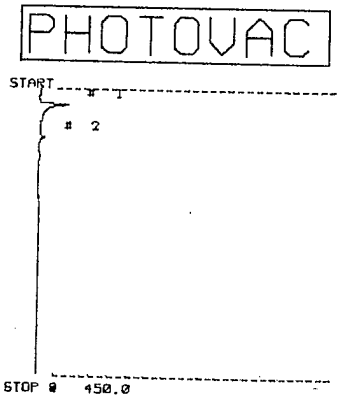
04-003BH 16.5FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 15:32
ANALYSIS # 28 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 04-003BH 16.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.4	1.0 VS
UNKNOWN	2	79.1	227.8 mVS

04-003BH 20.5FT

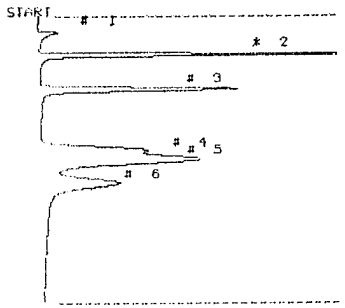


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 15:57
ANALYSIS # 29 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-003BH 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.8	162.4 mVS
UNKNOWN	2	80.2	36.8 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 14:49
ANALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 1 PPM STD

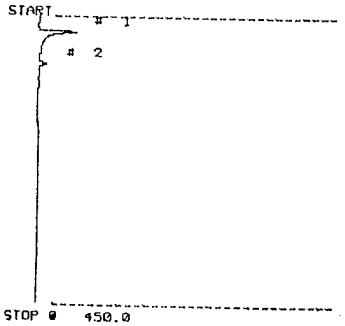
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	49.3 mVS
BENZENE	2	62.5	812.2 PPB
TOLUENE	3	118.0	904.7 PPB
ETHYLBENZENE	4	218.4	854.2 PPB
MP XYLENE	5	231.6	893.4 PPB
O XYLENE	6	269.6	808.0 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	62.5	1.000 PPM
TOLUENE	2	118.0	1.000 PPM
ETHYLBENZENE	3	218.4	1.000 PPM
MP XYLENE	4	231.6	1.000 PPM
O XYLENE	5	269.6	1.000 PPM

BLANK

PHOTOVAC

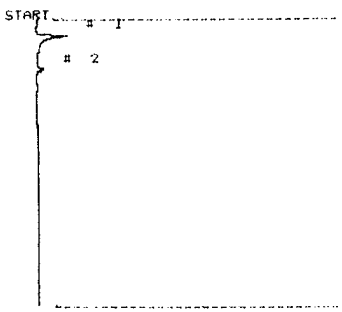


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 15: 0
ANALYSIS # 25 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	242.9 mVS
UNKNOWN	2	77.7	76.7 mVS

04-003BH 1.5FT

PHOTOVAC

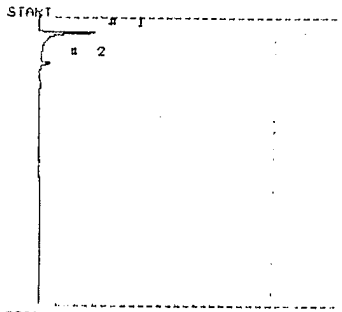


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 15:15
ANALYSIS # 26 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-003BH 1.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.8	152.5 mVS
UNKNOWN	2	81.1	53.6 mVS

04-003BH 10.5FT

PHOTOVAC

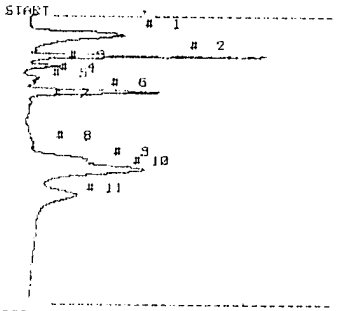


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 28 1994 15:24
ANALYSIS # 27 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-003BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	322.5 mVS
UNKNOWN	2	75.9	90.6 mVS

100 PPB STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 8:44
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 100 PPB STD

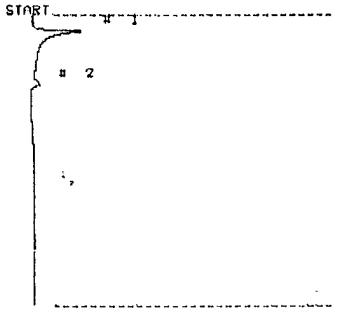
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	31.2	1.2 VS
UNKNOWN	2	65.5	2.9 VS
UNKNOWN	3	83.2	544.6 mVS
UNKNOWN	4	102.1	126.0 mVS
UNKNOWN	6	124.8	2.2 VS
UNKNOWN	8	209.4	593.3 mVS
UNKNOWN	9	233.4	2.3 VS
UNKNOWN	10	248.6	2.8 VS
UNKNOWN	11	280.2	3.8 VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	65.5	100.0 PPB
TOLUENE	2	124.8	100.0 PPB
ETHYLBENZENE	3	233.4	1.000 PPM
ETHYLBENZENE	4	233.4	100.0 PPB
MP XYLENE	5	248.6	100.0 PPB
O XYLENE	6	280.2	100.0 PPB

BLANK

PHOTOVAC

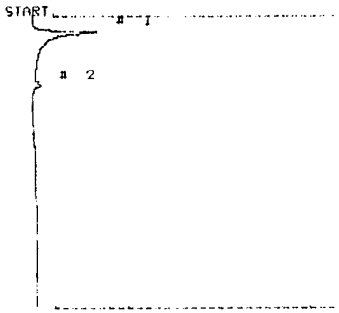


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 8:57
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	342.3 mVS
UNKNOWN	2	111.2	158.1 mVS

04-002MW 5.5FT

PHOTOVAC

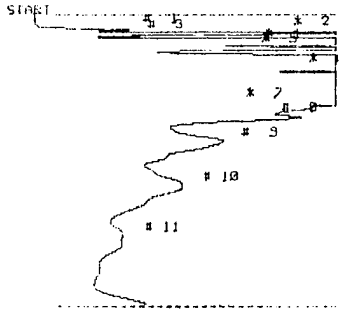


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 10:27
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 04-002MW 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	491.5 mVS
UNKNOWN	2	111.4	132.3 mVS

04-002MW 10.5FT

PHOTOVAC

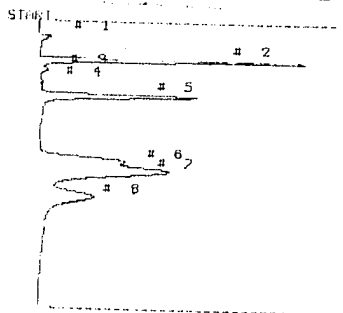


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 10:46
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 04-002MW 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	1.0 VS
UNKNOWN	2	31.5	6.0 VS
UNKNOWN	3	36.6	630.6 mVS
UNKNOWN	4	45.5	30.2 VS
UNKNOWN	5	56.0	8.3 VS
UNKNOWN	6	78.3	63.2 VS
TOLUENE	7	118.2	2.286 PPM
UNKNOWN	8	164.2	13.0 VS
UNKNOWN	9	201.6	26.4 VS
O XYLENE	10	272.4	763.8 PPB
UNKNOWN	11	349.3	3.8 VS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 11:27
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 1 PPM STD

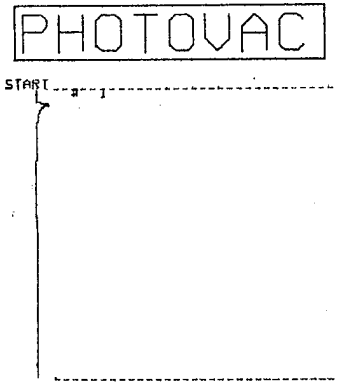
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.2	25.2 mVS
UNKNOWN	2	63.2	3.2 VS
UNKNOWN	3	80.2	69.1 mVS
UNKNOWN	4	99.1	21.2 mVS
UNKNOWN	5	121.6	3.5 VS
UNKNOWN	6	228.6	3.2 VS
UNKNOWN	7	243.2	2.4 VS
UNKNOWN	8	284.3	3.2 VS

PHOTOVAC

I	COMPOUND	ID #	R.T.	LIMIT
	BENZENE	1	63.2	1.000 PPM
	TOLUENE	2	121.6	1.000 PPM
	ETHYLBENZENE	3	228.6	1.000 PPM
	MP XYLENE	4	243.2	1.000 PPM
	O XYLENE	5	284.3	1.000 PPM

BLANK

PHOTOVAC

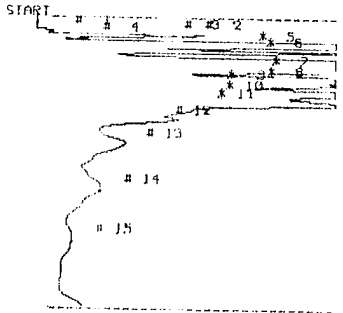


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 11:17
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.0	20.6 mVS

04-002MW 10.5FT

PHOTOVAC

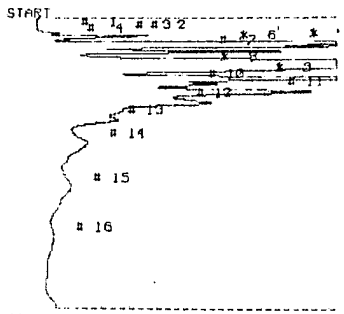


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 11:26
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 ~~BLANK~~ 04-002MW 10.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.5	49.5 mVS
UNKNOWN	2	31.0	932.1 mVS
UNKNOWN	3	32.7	767.2 mVS
UNKNOWN	5	45.2	25.3 VS
UNKNOWN	6	55.9	6.1 VS
UNKNOWN	7	78.0	66.6 VS
UNKNOWN	8	98.2	12.4 VS
UNKNOWN	9	106.8	5.9 VS
TOLUENE	10	113.2	5.223 PPM
UNKNOWN	11	135.9	15.8 VS
UNKNOWN	12	164.2	4.5 VS
UNKNOWN	13	200.4	6.3 VS
O XYLENE	14	221.0	1.263 PPM
UNKNOWN	15	342.5	892.0 mVS

04-002MW 10.5FT

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 11:35
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 4-2MW 10.5 50UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.5	80.0 mVS
UNKNOWN	2	30.9	552.0 mVS
UNKNOWN	3	32.8	418.6 mVS
UNKNOWN	5	43.3	9.2 VS
UNKNOWN	6	48.6	2.2 VS
UNKNOWN	7	56.5	3.0 VS
UNKNOWN	8	76.0	47.0 VS
UNKNOWN	9	98.0	9.1 VS
UNKNOWN	10	102.5	3.2 VS
TOLUENE	11	113.6	2.397 PPM
UNKNOWN	12	132.6	4.6 VS
UNKNOWN	13	163.2	115.2 mVS
UNKNOWN	14	199.8	1.3 VS
O XYLENE	15	268.9	322.3 PPB
UNKNOWN	16	345.2	405.6 mVS

04-002MW 15.5FT

PHOTOVAC

START

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 12:28
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 04-002MW 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.9	71.8 mUS

04-002MW 20.5FT

PHOTOVAC

START

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 12:44
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 04-002MW 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.2	32.1 mUS

04-002MW 25.5FT

PHOTOVAC

START

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 13:25
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04-002MW 25.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	21.2 mUS

04-002MW 29.5FT

PHOTOVAC

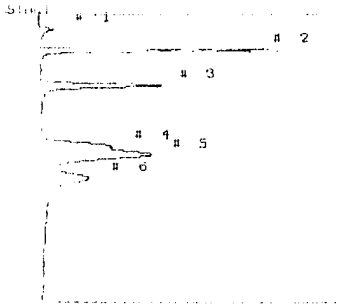
START

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 2 1994 13:16
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 04-002MW 29.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.9	22.0 mUS

1 PPM STD

PHOTOVAC

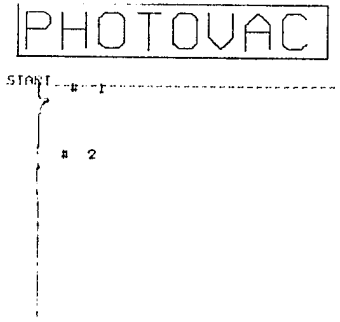


STOP # 450.0
SAMPLE LIBRARY 1 AUG 10 1994 10: 9
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 1 PPM STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
[illegible]	1	25.2	215.1 mUS
[illegible]	2	92.6	3.1 US
[illegible]	3	112.9	2.8 US
[illegible]	4	210.3	2.2 US
[illegible]	5	223.1	6.0 US
[illegible]	6	229.6	5.1 US

BLANK

PHOTOVAC

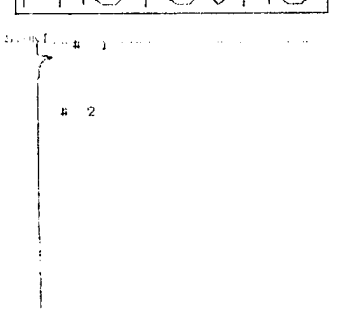


STOP # 450.0
SAMPLE LIBRARY 1 AUG 10 1994 10:18
ANALYSIS # 19 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.9	129.0 mUS
UNKNOWN	2	129.3	15.4 mUS

04-001MW A

PHOTOVAC

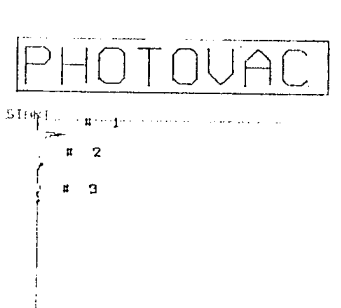


STOP # 450.0
SAMPLE LIBRARY 1 AUG 10 1994 10:35
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 ~~04-001MW B~~ 04-001MW A

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	122.1 mUS
UNKNOWN	2	129.3	15.8 mUS

04-001MW B

PHOTOVAC

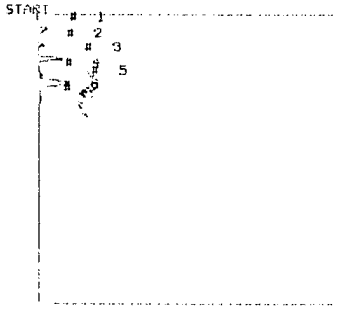


STOP # 450.0
SAMPLE LIBRARY 1 AUG 10 1994 10:51
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 04-001MW B

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	335.1 mUS
UNKNOWN	2	92.1	30.6 mUS
UNKNOWN	3	129.3	12.4 mUS

BG-001MW A

PHOTOVAC

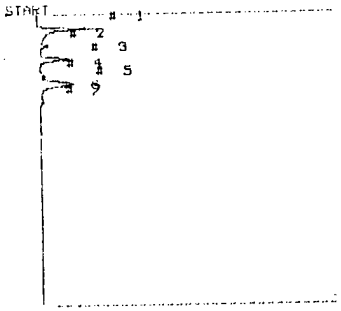


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 10 1994 14:30
ANALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 BG-001MW A

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	103.5 mVS
UNKNOWN	2	50.8	54.0 mVS
UNKNOWN	3	71.4	404.4 mVS
TOLUENE	5	100.1	321.6 PPB
UNKNOWN	7	132.1	11.2 mVS

BG-001MW B

PHOTOVAC

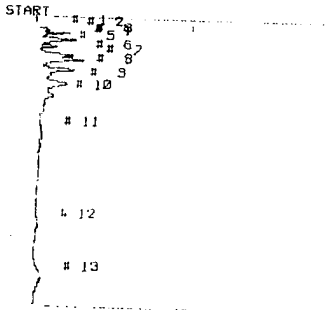


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 10 1994 14:39
ANALYSIS # 25 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 BG-001MW B

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	695.2 mVS
UNKNOWN	2	50.8	63.4 mVS
UNKNOWN	3	71.6	488.3 mVS
UNKNOWN	4	96.8	11.5 mVS
TOLUENE	5	100.6	384.0 PPB
UNKNOWN	7	132.1	10.8 mVS

04-002MW A

PHOTOVAC

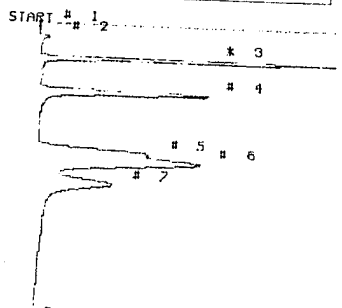


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 10 1994 18:10
ANALYSIS # 26 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 04-002MW A

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	125.6 mVS
UNKNOWN	2	28.1	221.2 mVS
UNKNOWN	3	32.5	251.3 mVS
UNKNOWN	4	39.5	321.1 mVS
UNKNOWN	5	43.4	153.5 mVS
BENZENE	6	62.5	428.9 PPB
UNKNOWN	7	68.4	621.6 mVS
UNKNOWN	8	89.6	196.1 mVS
TOLUENE	9	100.4	1055.9 PPB
UNKNOWN	10	126.4	132.6 mVS
UNKNOWN	11	131.9	13.9 mVS
UNKNOWN	12	136.3	61.2 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 11 1994 16:17
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 1 PPM STD

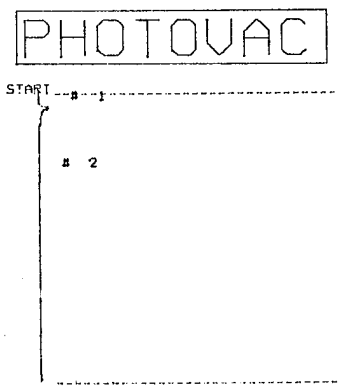
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	24.6	58.6 mVS
[illegible]	3	56.3	9.1 VS
[illegible]	4	110.1	9.9 VS
[illegible]	5	206.9	9.6 VS
[illegible]	6	219.1	9.1 VS
UNKNOWN	7	252.0	9.1 VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	56.3	1.000 PPM
TOLUENE	2	110.1	1.000 PPM
ETHYLBENZENE	3	206.9	1.000 PPM
MP XYLENE	4	219.9	1.000 PPM
O XYLENE	5	252.0	1.000 PPM

BLANK

PHOTOVAC

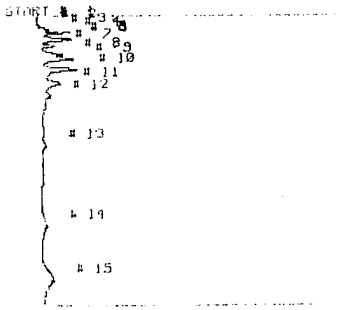


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 11 1994 16:38
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	101.6 mVS
UNKNOWN	2	123.2	12.3 mVS

04-002MW-B

PHOTOVAC

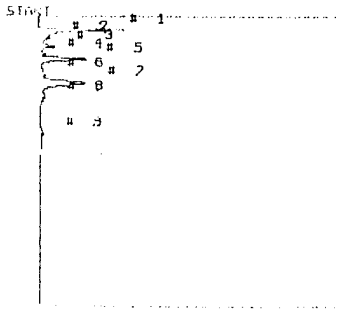


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 11 1994 16:42
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 04-002MW B

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.3	142.0 mVS
UNKNOWN	2	28.4	299.3 mVS
UNKNOWN	3	32.6	384.3 mVS
UNKNOWN	4	43.2	252.4 VS
UNKNOWN	5	48.6	126.2 VS
UNKNOWN	6	62.6	305.8 VS
UNKNOWN	7	69.6	63.4 VS
UNKNOWN	8	96.2	132.5 VS
UNKNOWN	9	104.4	7.5 VS
UNKNOWN	10	122.4	151.6 VS
UNKNOWN	11	135.2	12.3 VS
UNKNOWN	12	170.4	63.4 VS

05-003MW-A

PHOTOVAC

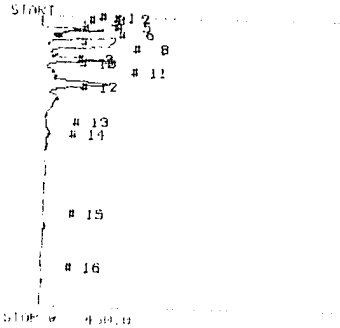


STOP # 450.0
SAMPLE LIBRARY 1 AUG 11 1994 16:56
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-003MW A

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	282.4 mVS
UNKNOWN	2	36.2	11.3 mVS
UNKNOWN	3	43.4	144.0 mVS
UNKNOWN	4	62.6	6.3 PPB
UNKNOWN	5	70.1	212.5 mVS
UNKNOWN	7	107.4	204.1 PPB
UNKNOWN	8	124.1	25.4 mVS
UNKNOWN	9	164.4	14.1 mVS

05-002MW-A

PHOTOVAC

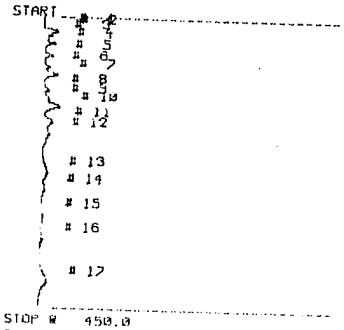


STOP # 450.0
SAMPLE LIBRARY 1 AUG 11 1994 17:25
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-002MW A

COMPOUND NAME	PEAK	R.T.	AREA(PPB)
UNKNOWN	1	22.5	94.0 mVS
UNKNOWN	2	29.8	136.4 mVS
UNKNOWN	3	43.4	87.1 mVS
UNKNOWN	4	65.7	96.1 mVS
UNKNOWN	5	68.2	28.52 PPB
UNKNOWN	6	69.7	96.1 mVS
UNKNOWN	7	82.4	48.7 mVS
UNKNOWN	8	114.2	28.52 PPB
UNKNOWN	9	136.3	96.1 mVS
UNKNOWN	10	141.1	48.7 mVS
UNKNOWN	11	145.1	96.1 mVS
UNKNOWN	12	147.1	48.7 mVS
UNKNOWN	13	150.1	96.1 mVS
UNKNOWN	14	152.1	48.7 mVS
UNKNOWN	15	154.1	96.1 mVS
UNKNOWN	16	156.1	48.7 mVS

05-002MW-A

PHOTOVAC

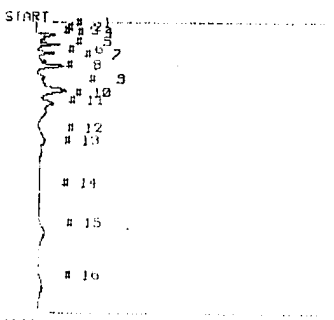


STOP # 450.0
SAMPLE LIBRARY 1 AUG 11 1994 17:37
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 05-002MW A

COMPOUND NAME	PEAK	R.T.	AREA(PPB)
UNKNOWN	1	22.5	94.0 mVS
UNKNOWN	2	29.8	136.4 mVS
UNKNOWN	3	43.4	87.1 mVS
UNKNOWN	4	65.7	96.1 mVS
UNKNOWN	5	68.2	28.52 PPB
UNKNOWN	6	69.7	96.1 mVS
UNKNOWN	7	82.4	48.7 mVS
UNKNOWN	8	114.2	28.52 PPB
UNKNOWN	9	136.3	96.1 mVS
UNKNOWN	10	141.1	48.7 mVS
UNKNOWN	11	145.1	96.1 mVS
UNKNOWN	12	147.1	48.7 mVS
UNKNOWN	13	150.1	96.1 mVS
UNKNOWN	14	152.1	48.7 mVS
UNKNOWN	15	154.1	96.1 mVS
UNKNOWN	16	156.1	48.7 mVS

05-002MW-B

PHOTOVAC

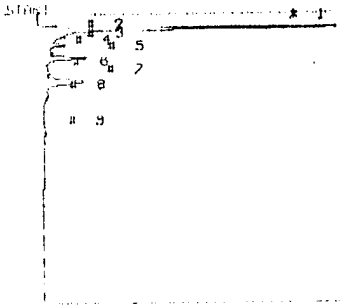


STOP # 450.0
SAMPLE LIBRARY 1 AUG 11 1994 19:17
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-002MW B

COMPOUND NAME	PEAK	R.T.	AREA(PPB)
UNKNOWN	1	22.1	200.2 mVS
UNKNOWN	2	29.3	61.2 mVS
UNKNOWN	3	42.9	150.2 mVS
UNKNOWN	4	65.3	150.2 mVS
UNKNOWN	5	67.3	61.2 mVS
UNKNOWN	6	69.3	150.2 mVS
UNKNOWN	7	82.0	61.2 mVS
UNKNOWN	8	113.8	150.2 mVS
UNKNOWN	9	135.9	150.2 mVS
UNKNOWN	10	140.7	61.2 mVS
UNKNOWN	11	144.7	150.2 mVS
UNKNOWN	12	146.7	61.2 mVS
UNKNOWN	13	149.7	150.2 mVS
UNKNOWN	14	151.7	61.2 mVS
UNKNOWN	15	153.7	150.2 mVS
UNKNOWN	16	155.7	61.2 mVS

05-003MW-B

PHOTOVAC

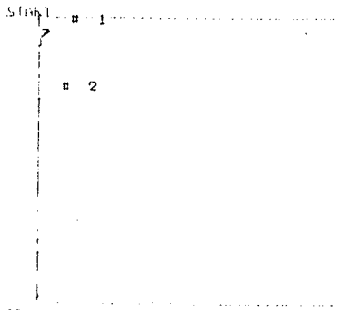


STOP # 450.0
SAMPLE LIBRARY 1 AUG 11 1994 17:39
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-003MW B

COMPOUND NAME	PEAK	R.T.	AREA(PPB)
UNKNOWN	1	24.2	4.8 mVS
UNKNOWN	2	43.8	15.2 mVS
UNKNOWN	3	68.7	7.6 PPB
UNKNOWN	4	69.7	4.8 mVS
UNKNOWN	5	114.4	7.6 PPB
UNKNOWN	6	136.4	4.8 mVS

05-001MW-A

PHOTOVAC

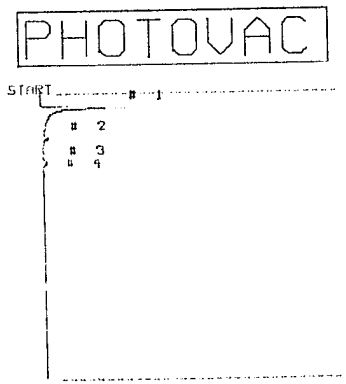


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 10 1994 10:27
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001MW A

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.9	110.8 mVS
UNKNOWN	2	123.9	15.2 mVS

05-001MW-B

PHOTOVAC

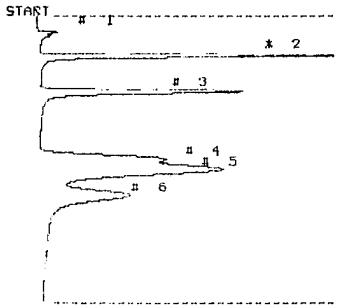


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 10 1994 10:43
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001MW B

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNK DWN	1	25.0	893.2 mVS
UNKNOWN	2	72.2	49.8 mVS
TOLUENE	3	110.2	3,549 PPB
UNKNOWN	4	123.9	11.5 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 9: 1
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 2 1 PPM STD

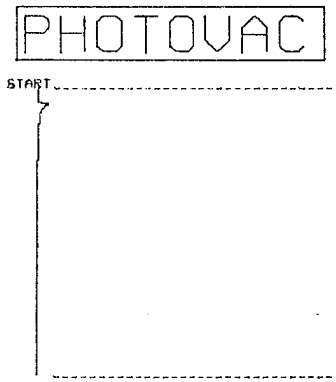
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	27.1	41.1	mVS
UNKNOWN	2	64.8	5.5	VS
UNKNOWN	3	124.8	5.0	VS
UNKNOWN	4	233.4	4.8	VS
UNKNOWN	5	249.3	11.6	VS
UNKNOWN	6	290.7	6.9	VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	64.8	1.000 PPM
TOLUENE	2	124.8	1.000 PPM
ETHYLBENZENE	3	233.4	1.000 PPM
MP XYLENE	4	249.3	1.000 PPM
O XYLENE	5	290.7	1.000 PPM

BLANK

PHOTOVAC

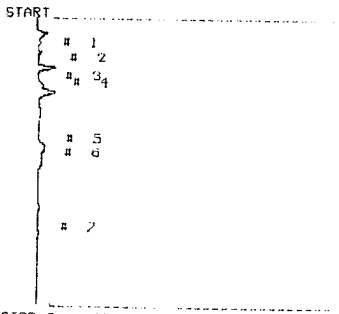


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 9:11
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM

05-002MW 5.5 FT

PHOTOVAC

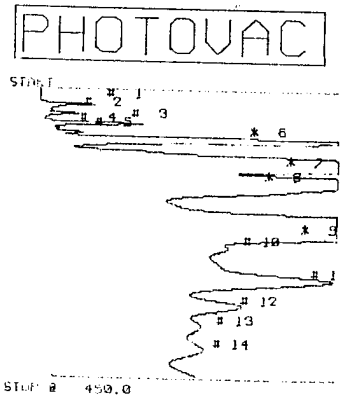


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 9:52
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 05-002MW 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	52.3	11.5	mVS
UNKNOWN	2	81.2	214.4	mVS
UNKNOWN	3	111.2	20.6	mVS
TOLUENE	4	121.2	56.80	PPB
UNKNOWN	5	209.4	206.8	mVS
ETHYLBENZENE	6	231.6	3.056	PPM
UNKNOWN	7	342.5	12.8	mVS

05-002MW 10.5 FT

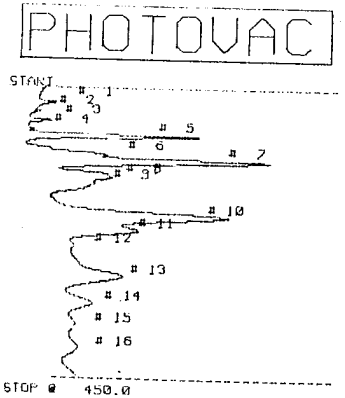
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 10: 1
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 05-002MW 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	26.7	292.8	mVS
UNKNOWN	2	42.5	253.2	mVS
UNKNOWN	3	52.3	1.3	VS
BENZENE	4	65.7	29.13	PPB
BENZENE	5	71.5	98.22	PPB
UNKNOWN	6	81.3	16.7	VS
TOLUENE	7	119.5	9.785	PPM
UNKNOWN	8	145.9	52.1	VS
ETHYLBENZENE	9	216.9	35.29	PPM
MP XYLENE	10	254.2	885.4	PPB
O XYLENE	11	305.9	5.553	PPM
UNKNOWN	12	342.5	13.3	VS
UNKNOWN	13	373.2	14.6	VS
UNKNOWN	14	415.2	18.8	VS

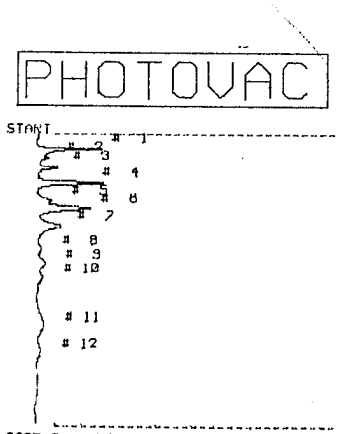
05-002MW 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 10:11
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 5-2MW 10.5 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.7	26.4 mVS
UNKNOWN	2	42.1	28.3 mVS
UNKNOWN	3	56.9	243.1 mVS
BENZENE	4	78.3	5.491 PPB
UNKNOWN	5	81.1	3.2 VS
UNKNOWN	6	111.1	2.5 VS
TOLUENE	7	120.8	1.602 PPM
UNKNOWN	8	146.8	4.6 VS
UNKNOWN	9	156.0	3.4 VS
UNKNOWN	10	208.2	13.6 VS
ETHYL BENZENE	11	229.8	1.222 PPM
MP XYLENE	12	254.2	222.8 PPB
O XYLENE	13	302.2	1.767 PPM
UNKNOWN	14	344.8	6.4 VS
UNKNOWN	15	372.2	4.2 VS
UNKNOWN	16	413.5	6.3 VS

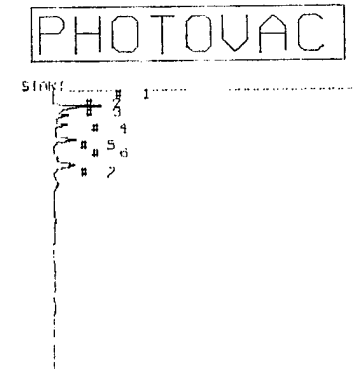
05-002MW 15.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 10:21
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 05-002MW 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	435.6 mVS
UNKNOWN	2	42.1	28.1 mVS
UNKNOWN	3	56.9	212.2 mVS
UNKNOWN	4	80.8	1.2 VS
UNKNOWN	5	107.8	341.7 mVS
TOLUENE	6	119.6	283.1 PPB
UNKNOWN	7	148.0	224.1 mVS
UNKNOWN	8	184.2	61.8 mVS
UNKNOWN	9	202.0	186.8 mVS
ETHYL BENZENE	10	229.2	11.91 PPB
O XYLENE	11	301.9	22.32 PPB
UNKNOWN	12	343.9	118.5 mVS

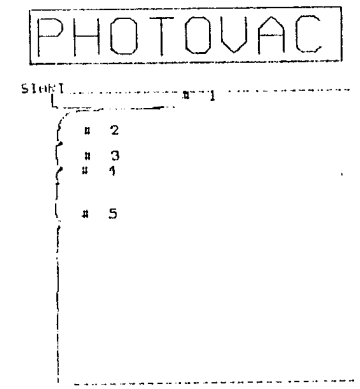
05-002MW 20.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 10:30
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 05-002MW 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.7	265.9 mVS
UNKNOWN	2	42.1	32.0 mVS
UNKNOWN	3	56.7	120.4 mVS
UNKNOWN	4	80.2	355.4 mVS
UNKNOWN	5	102.2	29.2 mVS
TOLUENE	6	119.2	85.83 PPB
UNKNOWN	7	142.6	84.2 mVS

05-002MW 25.5 FT

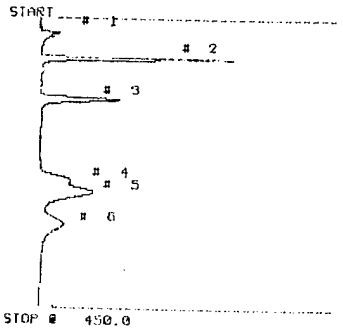


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 10:38
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-002MW 25.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.5	1.0 VS
UNKNOWN	2	29.6	61.6 mVS
TOLUENE	3	118.6	12.28 PPB
UNKNOWN	4	138.8	15.0 mVS
UNKNOWN	5	205.8	90.5 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 16:44
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 1 PPM STD

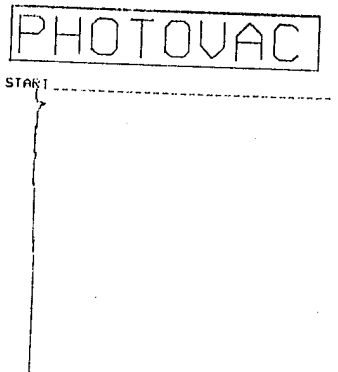
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	26.9 mVS
UNKNOWN	2	66.5	2.5 VS
UNKNOWN	3	132.0	1.8 VS
UNKNOWN	4	260.5	1.4 VS
UNKNOWN	5	278.2	3.5 VS
UNKNOWN	6	329.5	1.9 VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	66.5	1.000 PPM
TOLUENE	2	132.0	1.000 PPM
ETHYLBENZENE	3	260.5	1.000 PPM
MP XYLENE	4	278.2	1.000 PPM
O XYLENE	5	329.5	1.000 PPM

BLANK

PHOTOVAC

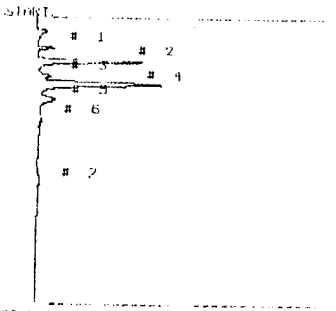


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 16:54
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM

05-005RBH 1 FT

PHOTOVAC

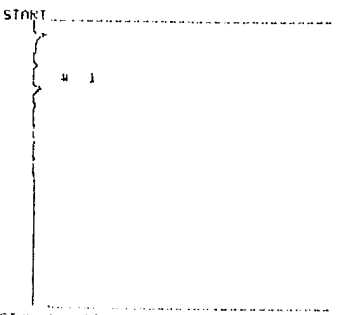


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 17:2
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 05-005BH RE 1FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	52.1	164.4 mVS
BENZENE	2	72.2	622.8 PPB
UNKNOWN	3	92.6	202.2 mVS
UNKNOWN	4	103.9	2.3 VS
TOLUENE	5	134.9	196.3 PPB
UNKNOWN	6	166.2	36.6 mVS
ETHYLBENZENE	7	264.2	18.20 PPB

05-005RBH 6.5 FT

PHOTOVAC

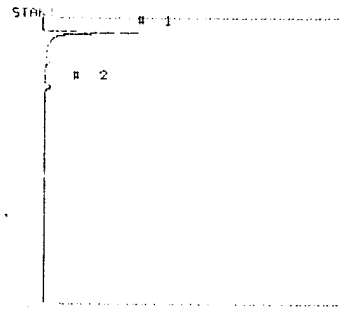


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 17:37
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 05-005BH RE 6.5F

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	112.0	118.2 mVS

05-005RBH 15.5 FT

PHOTOVAC

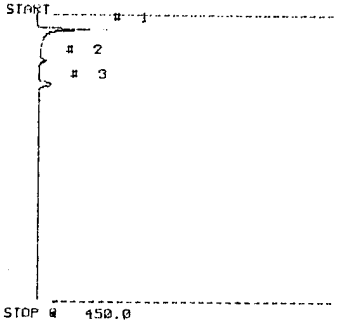


SAMPLE LIBRARY 1 AUG 5 1994 17:45
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 05-005BH RE 15.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.1	509.2 mVS
UNKNOWN	2	112.0	88.2 mVS

05-005RBH 20 FT

PHOTOVAC

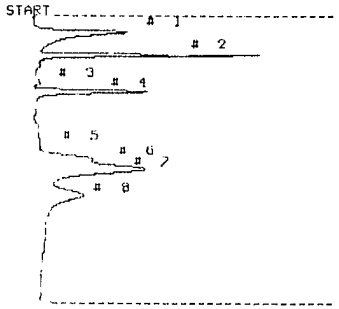


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 5 1994 17:54
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 05-005BH RE 20FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	430.8 mVS
UNKNOWN	2	74.9	59.3 mVS
UNKNOWN	3	112.9	260.0 mVS

100 PPB STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 9: 8
ANALYSIS # 1 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 100 PPB STD

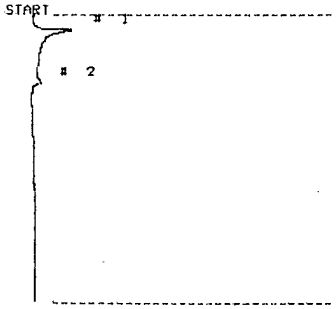
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.2	787.0 mVS
UNKNOWN	2	65.1	2.7 VS
UNKNOWN	3	111.7	63.4 mVS
UNKNOWN	4	124.4	2.3 VS
UNKNOWN	5	210.0	159.6 mVS
UNKNOWN	6	233.4	1.8 VS
UNKNOWN	7	249.3	6.1 VS
UNKNOWN	8	291.5	3.1 VS

PHOTOVAC

I	COMPOUND	ID #	R.T.	LIMIT
	BENZENE	1	65.1	100.0 PPB
	TOLUENE	2	124.4	100.0 PPB
	ETHYLBENZENE	3	233.4	100.0 PPB
	MP XYLENE	4	249.3	100.0 PPB
	O XYLENE	5	291.5	100.0 PPB

BLANK

PHOTOVAC

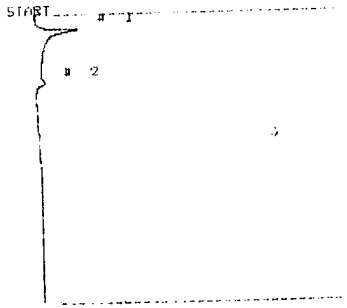


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 9:18
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.8	94.2 mVS
UNKNOWN	2	111.7	134.1 mVS

05-001MW 5.5 FT

PHOTOVAC

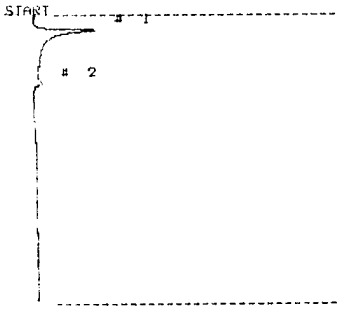


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 9:26
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 ~~BLANK~~ 05-001MW 5.5'

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.2	242.3 mVS
UNKNOWN	2	111.7	133.2 mVS

05-001MW 10.5 FT

PHOTOVAC

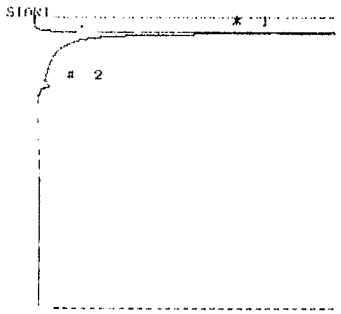


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 10: 5
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 05-001MW 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.9	469.9 mVS
UNKNOWN	2	111.7	129.6 mVS

05-001MW 15.5 FT

PHOTOVAC

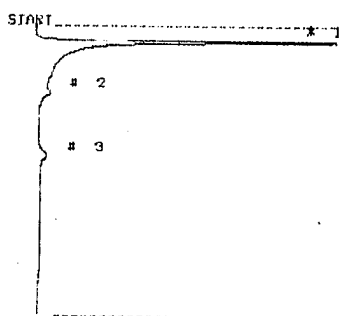


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 10:13
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 05-001MW 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.5	3.4 VS
UNKNOWN	2	111.7	123.3 mVS

05-001MW 20.5 FT

PHOTOVAC

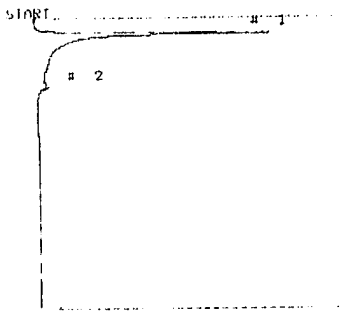


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 10:22
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 10 05-001MW 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.5	4.3 VS
UNKNOWN	2	111.7	118.6 mVS
UNKNOWN	3	208.2	290.3 mVS

05-001MW 25.5 FT

PHOTOVAC

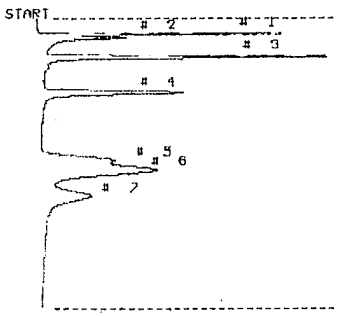


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 10:35
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 10 05-001MW 25.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	2.5 VS
UNKNOWN	2	111.4	120.2 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 14:41
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 1 PPM STD

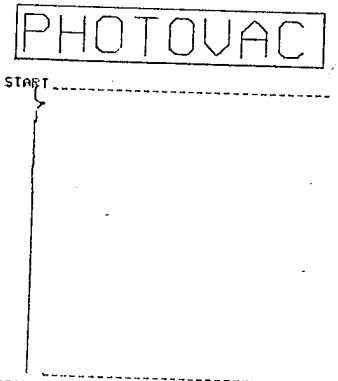
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.6	2.1 VS
UNKNOWN	2	32.6	306.6 mVS
UNKNOWN	3	63.2	3.8 VS
UNKNOWN	4	121.6	3.1 VS
UNKNOWN	5	228.0	2.2 VS
UNKNOWN	6	243.0	6.6 VS
UNKNOWN	7	284.3	3.6 VS

PHOTOVAC

1	COMPOUND	ID #	R.T.	LIMIT
BENZENE		1	63.2	1.000 PPM
TOLUENE		2	121.6	1.000 PPM
ETHYLBENZENE		3	228.0	1.000 PPM
MP XYLENE		4	243.0	1.000 PPM
O XYLENE		5	284.3	1.000 PPM

BLANK

PHOTOVAC

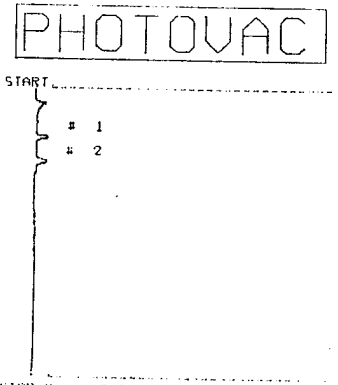


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 14:51
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM

05-003MW 5.5 FT

PHOTOVAC

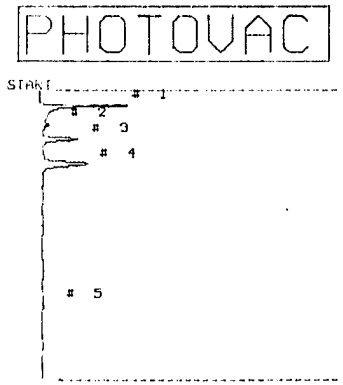


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 14:59
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 05-003MW 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.1	188.4 mVS
TOLUENE	2	118.0	28.86 PPB

05-003MW 10.5 FT

PHOTOVAC

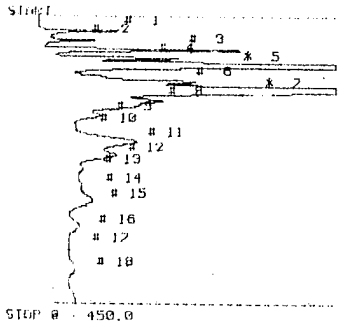


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 15:7
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 05-003MW 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.5	520.8 mVS
UNKNOWN	2	56.3	24.6 mVS
UNKNOWN	3	29.3	586.9 mVS
TOLUENE	4	118.3	350.4 PPB
UNKNOWN	5	332.6	25.3 mVS

05-003MW 15.5 FT

PHOTOVAC

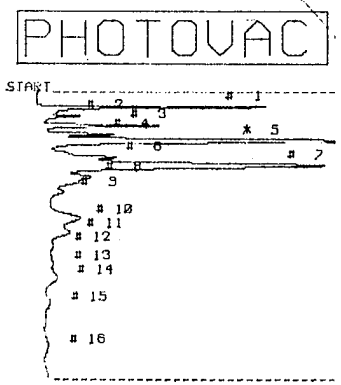


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 15:16
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-003MW 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	496.2 mVS
UNKNOWN	2	41.2	429.6 mVS
UNKNOWN	3	56.3	2.4 VS
BENZENE	4	70.1	434.1 PPB
UNKNOWN	5	79.4	15.8 VS
UNKNOWN	6	106.6	3.8 VS
TOLUENE	7	118.2	7.850 PPM
UNKNOWN	8	132.6	5.1 VS
UNKNOWN	9	161.2	1.2 VS
UNKNOWN	11	202.8	3.2 VS
ETHYLBENZENE	12	225.0	549.5 PPB
MP XYLENE	13	246.5	5.149 PPB
O XYLENE	14	275.2	11.31 PPB
O XYLENE	15	292.1	184.1 PPB
UNKNOWN	16	330.5	524.2 mVS
UNKNOWN	18	405.8	442.4 mVS

05-003MW 15.5 FT

PHOTOVAC

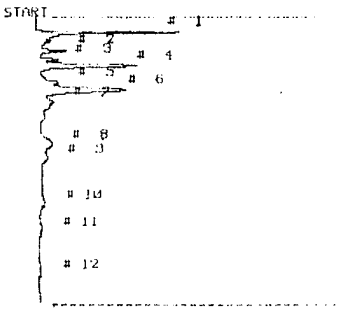


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 15:25
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 5-3MW 15.5 50UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.3	1.8 VS
UNKNOWN	2	41.5	240.8 mVS
UNKNOWN	3	56.3	1.4 VS
BENZENE	4	70.1	235.9 PPB
UNKNOWN	5	79.4	7.7 VS
UNKNOWN	6	106.9	1.6 VS
TOLUENE	7	118.4	2,692 PPM
UNKNOWN	8	138.4	1.7 VS
UNKNOWN	9	162.2	313.5 mVS
UNKNOWN	10	204.6	1.6 VS
ETHYLBENZENE	11	226.2	266.9 PPB
MP XYLENE	12	248.6	2.222 PPB
O XYLENE	13	276.6	6.246 PPB
O XYLENE	14	298.7	94.41 PPB
UNKNOWN	15	340.3	262.5 mVS
UNKNOWN	16	408.0	205.7 mVS

05-003MW 20.5 FT

PHOTOVAC

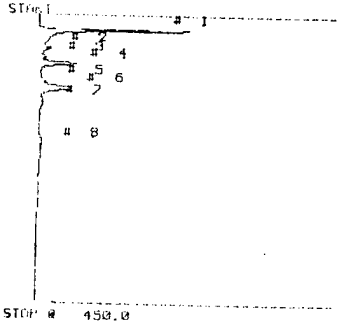


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 15:35
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-003MW 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	1.1 VS
UNKNOWN	2	56.1	286.1 mVS
BENZENE	3	69.9	52.52 PPB
UNKNOWN	4	79.1	1.2 VS
UNKNOWN	5	106.6	444.4 mVS
TOLUENE	6	118.3	221.2 PPB
UNKNOWN	7	138.0	200.3 mVS
UNKNOWN	8	204.9	608.9 mVS
ETHYLBENZENE	9	226.2	82.56 PPB
O XYLENE	10	292.9	31.82 PPB
UNKNOWN	11	340.3	85.3 mVS
UNKNOWN	12	408.0	49.5 mVS

05-003MW 25.5 FT

PHOTOVAC

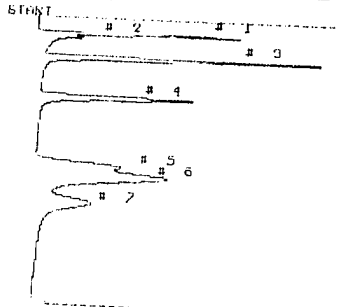


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 4 1994 15:44
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-003MW 25.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	1.1 VS
UNKNOWN	2	56.3	64.8 mVS
BENZENE	3	70.1	5.442 PPB
UNKNOWN	4	79.3	586.8 mVS
UNKNOWN	5	106.9	31.6 mVS
TOLUENE	6	118.3	264.7 PPB
UNKNOWN	7	138.4	12.6 mVS
UNKNOWN	8	204.6	36.6 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 9:26
ANALYSIS # 2 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 2 1 PPM STD

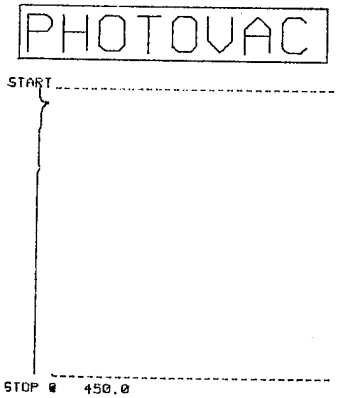
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.1	1.4 US
UNKNOWN	2	33.0	54.1 mUS
UNKNOWN	3	65.9	4.0 US
UNKNOWN	4	130.0	3.5 US
UNKNOWN	5	240.1	3.4 US
UNKNOWN	6	257.0	8.0 US
UNKNOWN	7	300.3	4.6 US

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	65.9	1.000 PPM
TOLUENE	2	130.0	1.000 PPM
ETHYLBENZENE	3	240.9	1.000 PPM
MP XYLENE	4	257.0	1.000 PPM
O XYLENE	5	300.3	1.000 PPM

BLANK

PHOTOVAC

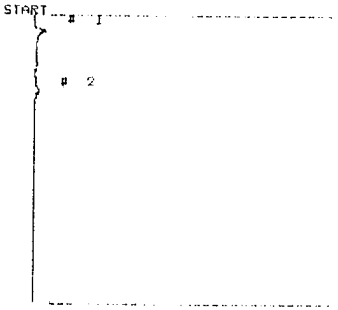


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 9:36
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM

05-001RBH 1.5 FT

PHOTOVAC

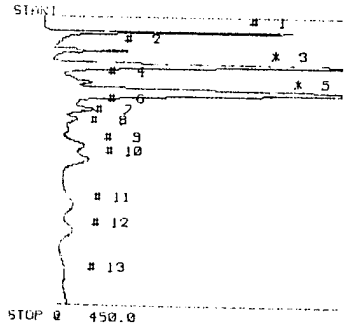


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 10:12
ANALYSIS # 4 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001RBH 1.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.8	14.6 mUS
TOLUENE	2	124.4	1.26 PPM

05-001RBH 15.5 FT

PHOTOVAC

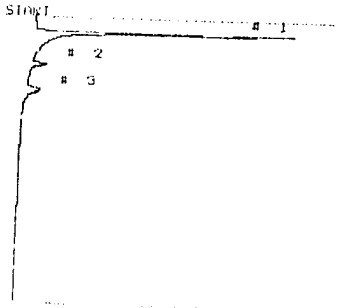


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 10:20
ANALYSIS # 5 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001RBH 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	1.9 US
UNKNOWN	2	56.1	833.4 mUS
UNKNOWN	3	79.1	8.1 US
UNKNOWN	4	106.6	1.2 US
TOLUENE	5	121.8	3.820 PPM
UNKNOWN	6	150.0	1.3 US
UNKNOWN	7	166.2	985.5 mUS
UNKNOWN	8	183.2	596.5 mUS
UNKNOWN	9	200.8	1.9 US
ETHYLBENZENE	10	230.4	518.3 PPB
O XYLENE	11	302.2	156.8 PPB
UNKNOWN	12	343.9	613.1 mUS
UNKNOWN	13	412.4	336.8 mUS

05-001RBH 5.5 FT

PHOTOVAC

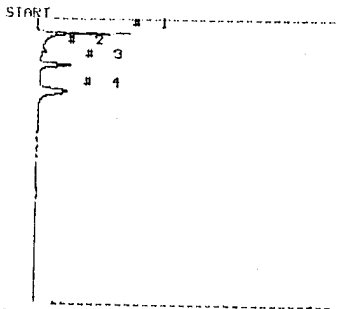


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 10:30
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-001RBH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	2.1 VS
UNKNOWN	2	28.1	219.6 mVS
TOLUENE	3	120.4	112.1 PPB

05-001RBH 10.5 FT

PHOTOVAC

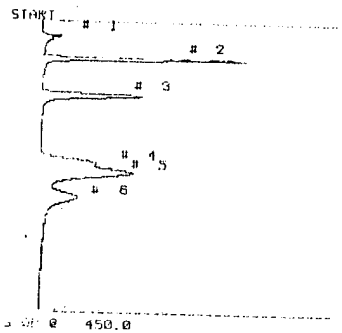


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 10:39
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-001RBH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.9	644.7 mVS
UNKNOWN	2	55.1	20.9 mVS
UNKNOWN	3	77.7	496.2 mVS
TOLUENE	4	119.6	239.9 PPB

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 10:49
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 1 PPM STD

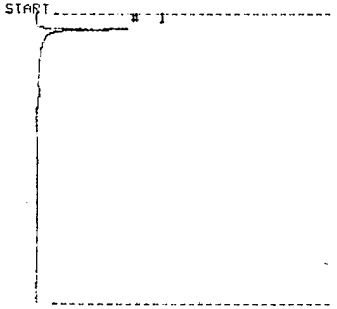
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	29.7 mVS
BENZENE	2	61.7	651.8 PPB
TOLUENE	3	121.6	722.9 PPB
ETHYLBENZENE	4	226.2	532.8 PPB
ETHYLBENZENE	5	240.9	1.524 PPM
O XYLENE	6	281.1	602.9 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	61.7	1.000 PPM
TOLUENE	2	121.6	1.000 PPM
ETHYLBENZENE	3	226.2	1.000 PPM
MP XYLENE	4	240.9	1.000 PPM
O XYLENE	5	281.1	1.000 PPM

BLANK

PHOTOVAC

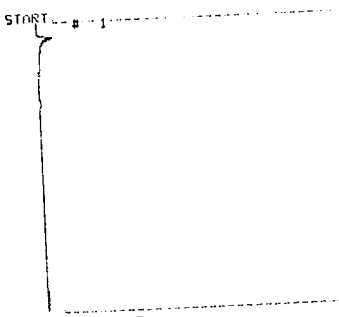


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 11:3
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.8	605.1 mVS

05-002RBH 1 FT

PHOTOVAC

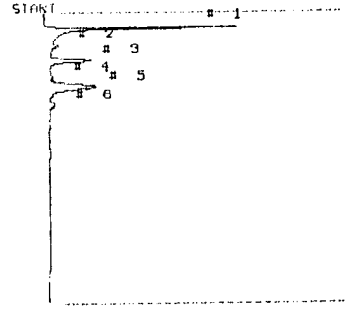


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 11:36
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-002RBH 1FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.6	10.2 mVS

05-002RBH 5.5 FT

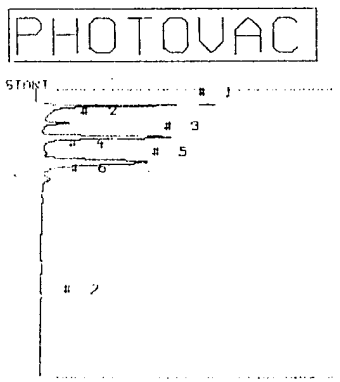
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 11:45
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-002RBH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.7	1.4 VS
UNKNOWN	2	54.3	41.5 mVS
UNKNOWN	3	76.7	601.1 mVS
UNKNOWN	4	103.3	10.2 mVS
TOLUENE	5	118.0	532.5 PPB
UNKNOWN	6	146.4	96.2 mVS

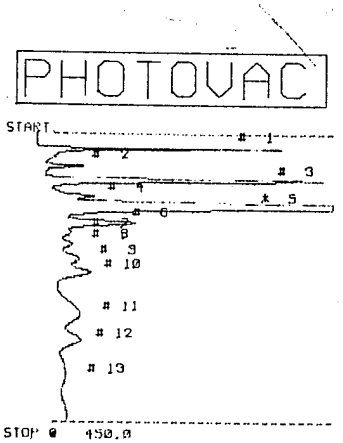
05-002RBH 14.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 11:58
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-002RBH 14.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	1.3 VS
UNKNOWN	2	54.1	280.3 mVS
UNKNOWN	3	76.3	2.3 VS
UNKNOWN	4	103.0	24.9 mVS
TOLUENE	5	112.4	1.235 PPM
UNKNOWN	6	145.6	136.6 mVS
UNKNOWN	7	333.1	22.0 mVS

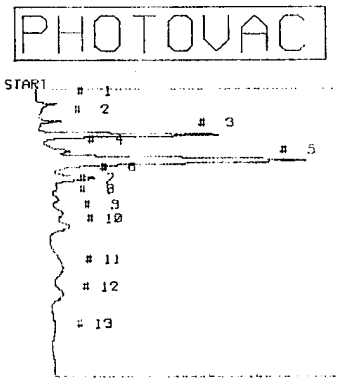
05-002RBH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 12: 7
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-002RBH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	1.9 VS
UNKNOWN	2	54.1	425.5 mVS
UNKNOWN	3	76.5	5.3 VS
UNKNOWN	4	102.7	993.2 mVS
TOLUENE	5	112.4	7.721 PPM
UNKNOWN	6	145.6	2.6 VS
UNKNOWN	7	160.2	596.4 mVS
UNKNOWN	8	178.2	798.9 mVS
UNKNOWN	9	201.6	1.4 VS
ETHYLBENZENE	10	223.2	834.3 PPB
O XYLENE	11	230.7	960.3 PPB
UNKNOWN	12	333.1	1.4 VS
UNKNOWN	13	350.2	520.3 mVS

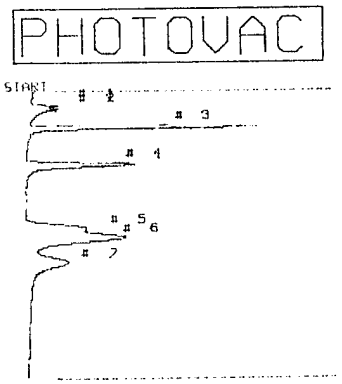
05-002RBH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 12:35
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-002RBH 10.5FT 50 ml/50

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	30.8 mVS
UNKNOWN	2	54.1	232.0 mVS
UNKNOWN	3	76.1	3.2 VS
UNKNOWN	4	102.9	625.5 mVS
TOLUENE	5	112.4	3.522 PPM
UNKNOWN	6	145.2	1.6 VS
UNKNOWN	7	160.2	441.7 mVS
UNKNOWN	8	178.2	538.3 mVS
UNKNOWN	9	201.6	1.0 VS
ETHYLBENZENE	10	222.6	543.8 PPB
O XYLENE	11	230.1	654.3 PPB
UNKNOWN	12	333.1	580.2 mVS
UNKNOWN	13	350.2	269.4 mVS

1 PPM STD



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 12:45
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 1 PPM STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	52.2 mVS
UNKNOWN	2	30.2	41.6 mVS
BENZENE	3	60.3	1.108 PPM
TOLUENE	4	110.3	1.054 PPM
ETHYLBENZENE	5	222.8	1.041 PPM
M XYLENE	6	235.8	1.032 PPM
O XYLENE	7	225.2	992.2 PPB

1 PPM STD

PHOTOVAC

CALIBRATED PEAK 3,BENZENE

SAMPLE LIBRARY 1 AUG 6 1994 12:46
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 1 PPM STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	52.2 mVS
UNKNOWN	2	34.2	41.6 mVS
BENZENE	3	60.3	1.000 PPM
TOLUENE	4	118.3	954.1 PPB
ETHYLBENZENE	5	222.8	913.7 PPB
M XYLENE	6	235.4	832.0 PPB
O XYLENE	7	295.2	805.4 PPB

BLANK

PHOTOVAC

START # 1

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 12:55
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	492.4 mVS

05-003RBH 1 FT

PHOTOVAC

START # 1

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 13:6
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003RBH 1FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.4	65.1 mVS

05-003RBH 5.5 FT

PHOTOVAC

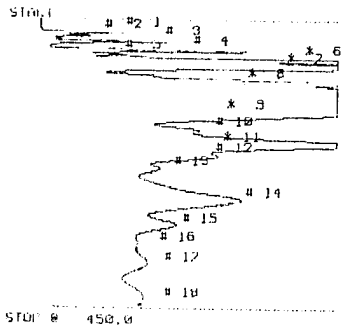
START # 1 # 2 # 3 # 4 # 5 # 6 # 7 # 8 # 9 # 10 # 11 # 12 # 13 # 14 # 15 # 16 # 17

STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 13:23
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003RBH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	220.5 mVS
UNKNOWN	2	29.4	360.2 mVS
UNKNOWN	3	31.0	361.8 mVS
UNKNOWN	4	54.5	304.9 mVS
BENZENE	6	66.9	255.9 PPB
UNKNOWN	7	75.3	3.0 VS
UNKNOWN	8	93.1	234.5 mVS
UNKNOWN	9	101.8	636.9 mVS
TOLUENE	10	116.2	1.702 PPM
UNKNOWN	11	136.0	244.1 mVS
UNKNOWN	12	144.4	1.0 VS
UNKNOWN	13	173.2	21.3 mVS
UNKNOWN	14	192.9	419.2 mVS
ETHYLBENZENE	15	220.8	9.366 PPB
O XYLENE	16	269.1	134.8 PPB
UNKNOWN	17	329.5	23.6 mVS

05-003RBH 10.5 FT

PHOTOVAC

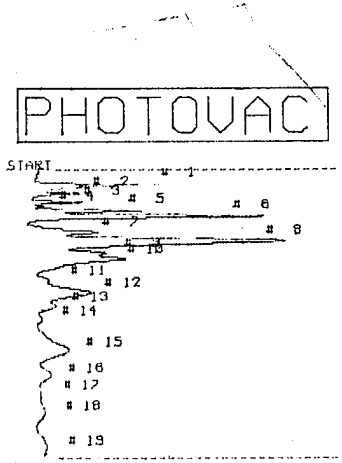


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 13:43
ANALYSIS # 19 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003RBH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.3	549.3 mVS
UNKNOWN	2	29.3	221.1 mVS
UNKNOWN	3	33.0	1.0 VS
UNKNOWN	4	53.5	2.5 VS
BENZENE	5	59.2	295.1 PPB
BENZENE	6	66.4	2.915 PPM
UNKNOWN	7	75.0	12.6 VS
UNKNOWN	8	101.3	15.1 VS
TOLUENE	9	129.9	22.54 PPM
UNKNOWN	10	179.2	5.5 VS
UNKNOWN	11	192.3	25.5 VS
ETHYLBENZENE	12	219.6	3.372 PPM
MP XYLENE	13	230.5	1.048 PPM
O XYLENE	14	289.1	8.309 PPM
UNKNOWN	15	328.6	11.6 VS
UNKNOWN	16	352.4	5.0 VS
UNKNOWN	17	380.2	12.8 VS

05-003RBH 10.5 FT

PHOTOVAC

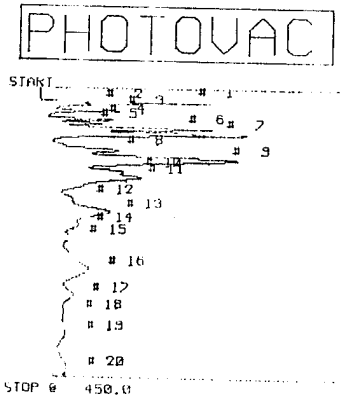


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 13:54
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 5-3RBH 10.5 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.3	242.1 mVS
UNKNOWN	2	38.3	228.3 mVS
UNKNOWN	3	53.3	559.0 mVS
BENZENE	4	59.2	30.23 PPB
BENZENE	5	66.5	522.4 PPB
UNKNOWN	6	75.1	4.1 VS
UNKNOWN	7	101.5	1.8 VS
TOLUENE	8	115.9	3.339 PPM
UNKNOWN	9	135.6	1.9 VS
UNKNOWN	10	144.0	4.1 VS
UNKNOWN	11	178.2	680.5 mVS
UNKNOWN	12	192.2	3.8 VS
ETHYLBENZENE	13	219.6	489.6 PPB
MP XYLENE	14	230.5	103.6 PPB
O XYLENE	15	282.5	1.322 PPM
UNKNOWN	16	328.6	1.6 VS
UNKNOWN	17	356.5	725.5 mVS
UNKNOWN	18	389.2	1.6 VS

05-003RBH 14.5 FT

PHOTOVAC

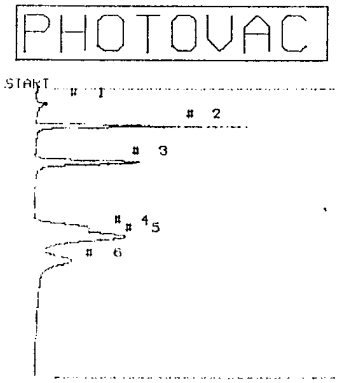


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 14: 6
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003RBH 14.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.3	1.4 VS
UNKNOWN	2	29.3	311.8 mVS
UNKNOWN	3	38.3	522.1 mVS
UNKNOWN	4	53.3	250.2 mVS
BENZENE	5	59.2	282.6 PPB
BENZENE	6	66.5	685.1 PPB
UNKNOWN	7	74.9	3.6 VS
UNKNOWN	8	101.8	1.9 VS
TOLUENE	9	115.8	2.474 PPM
UNKNOWN	10	136.8	1.2 VS
UNKNOWN	11	143.8	4.0 VS
UNKNOWN	12	178.2	221.9 mVS
UNKNOWN	13	198.2	3.6 VS
ETHYLBENZENE	14	220.2	490.2 PPB
MP XYLENE	15	230.5	168.9 PPB
O XYLENE	16	289.1	1.424 PPM
UNKNOWN	17	330.4	1.2 VS
UNKNOWN	18	356.5	215.3 mVS
UNKNOWN	19	389.2	1.6 VS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 14:18
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 1 PPM STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	10.1 mVS
BENZENE	2	60.9	940.0 PPB
TOLUENE	3	118.9	900.8 PPB
ETHYLBENZENE	4	222.6	850.9 PPB
MP XYLENE	5	236.4	841.9 PPB
O XYLENE	6	295.9	839.8 PPB

1 PPM STD

PHOTOVAC

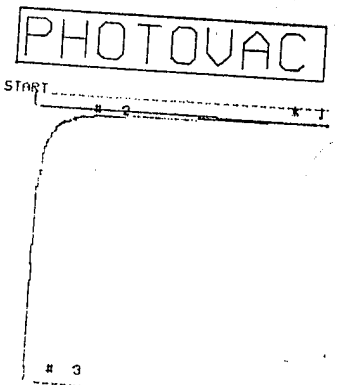
CALIBRATED PEAK 2,BENZENE

SAMPLE LIBRARY 1 AUG 6 1994 14:19
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 1 PPM STD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.2	10.1 mVS
BENZENE	2	60.9	1.000 PPM
TOLUENE	3	118.9	950.2 PPB
ETHYLBENZENE	4	222.6	985.2 PPB
M+P XYLENE	5	236.4	895.6 PPB
O XYLENE	6	275.1	833.4 PPB

BLANK

PHOTOVAC

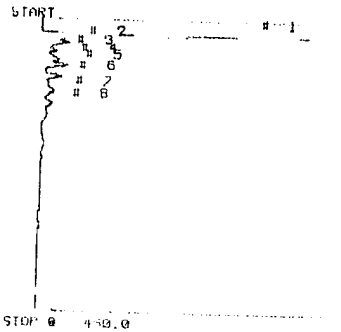


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 14:29
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.8	7.2 VS

05-004RBH 6 IN

PHOTOVAC

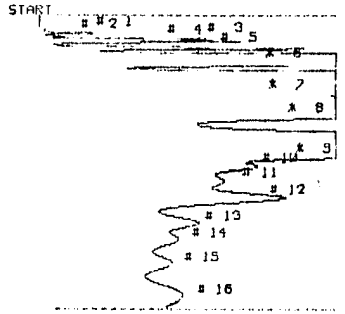


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 14:39
ANALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 05-004RBH 6INCH

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.3	1.2 VS
UNKNOWN	2	38.0	80.9 mVS
UNKNOWN	3	53.3	49.5 mVS
BENZENE	4	66.5	37.62 PPB
UNKNOWN	5	74.5	112.3 mVS
UNKNOWN	6	92.8	262.5 mVS
TOLUENE	7	114.2	41.95 PPB
UNKNOWN	8	135.6	117.1 mVS

05-004RBH 5.5 FT

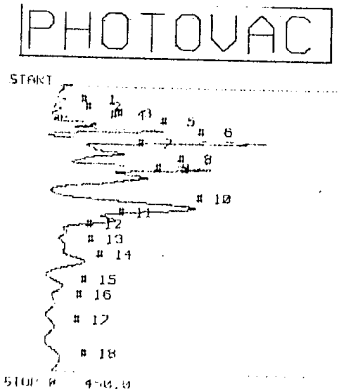
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 15:51
ANALYSIS # 25 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 5-4RBH 5.5 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.3	220.1 mVS
UNKNOWN	2	34.2	85.3 mVS
UNKNOWN	3	38.9	1.3 VS
UNKNOWN	4	42.5	1.9 VS
UNKNOWN	5	53.3	3.4 VS
UNKNOWN	6	68.1	20.5 VS
UNKNOWN	7	105.4	265.6 VS
UNKNOWN	8	144.8	33.9 VS
UNKNOWN	9	202.4	182.2 VS
M+P XYLENE	10	237.6	2.014 PPM
O XYLENE	11	250.8	3.570 PPM
O XYLENE	12	286.2	2.084 PPM
UNKNOWN	13	326.8	13.4 VS
UNKNOWN	14	342.7	11.4 VS
UNKNOWN	15	381.2	13.6 VS

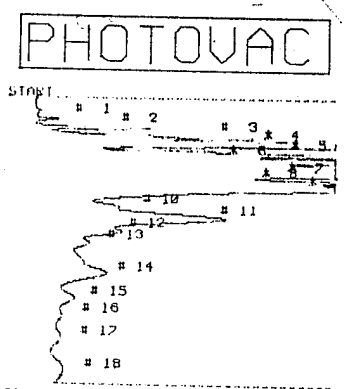
05-004RBH 5.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 16: 1
ANALYSIS # 26 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 5-4RBH 5.5 ~~5ul~~ 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	53.1	150.3 mVS
BENZENE	3	62.5	188.0 PPB
BENZENE	4	65.2	173.1 PPB
UNKNOWN	5	73.9	1.8 VS
UNKNOWN	6	92.2	4.4 VS
TOLUENE	7	112.0	1.452 PPM
UNKNOWN	8	134.8	4.8 VS
UNKNOWN	9	149.2	4.3 VS
UNKNOWN	10	195.2	8.5 VS
ETHYLBENZENE	11	217.6	1.211 PPM
MP XYLENE	12	232.6	120.2 PPB
O XYLENE	13	261.2	229.3 PPB
O XYLENE	14	285.3	211.3 PPB
UNKNOWN	15	325.0	954.5 mVS
UNKNOWN	16	352.0	407.6 mVS
UNKNOWN	17	380.2	458.7 mVS

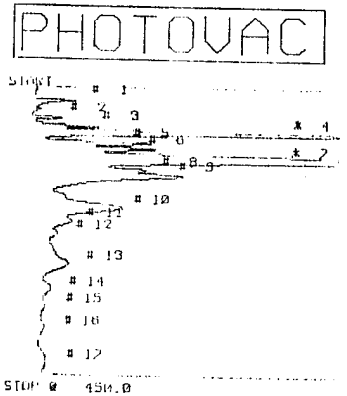
05-004RBH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 16:10
ANALYSIS # 27 MARK ESCOBAR
INTERNAL TEMP 34 HAYWARD ANGS
GAIN 2 5-4RBH 10.5 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	38.5	176.1 mVS
UNKNOWN	2	52.9	1.4 VS
BENZENE	3	65.9	1.381 PPM
UNKNOWN	4	74.0	19.2 VS
UNKNOWN	5	80.2	9.2 VS
UNKNOWN	6	93.4	10.2 VS
TOLUENE	7	115.2	8.137 PPM
TOLUENE	8	133.2	2.915 PPM
UNKNOWN	9	141.2	18.1 VS
UNKNOWN	10	172.2	2.6 VS
UNKNOWN	11	195.2	12.9 VS
ETHYLBENZENE	12	217.2	1.799 PPM
MP XYLENE	13	236.4	534.8 PPB
O XYLENE	14	285.1	3.105 PPM
UNKNOWN	15	325.0	3.3 VS
UNKNOWN	16	351.1	2.1 VS
UNKNOWN	17	382.2	2.9 VS

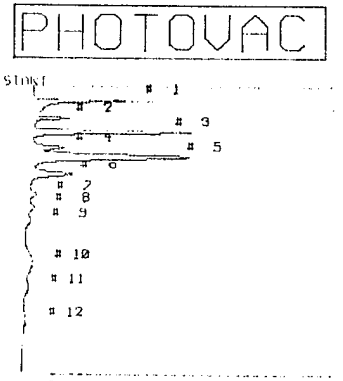
05-004RBH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 16:20
ANALYSIS # 28 MARK ESCOBAR
INTERNAL TEMP 35 HAYWARD ANGS
GAIN 2 5-4RBH 10.5 2UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.0	583.9 mVS
UNKNOWN	2	52.9	29.6 mVS
BENZENE	3	65.2	34.2 PPB
UNKNOWN	4	73.2	2.2 VS
UNKNOWN	5	81.6	2.3 VS
UNKNOWN	6	100.3	2.2 VS
TOLUENE	7	113.9	9.483 PPM
UNKNOWN	8	134.0	2.5 VS
UNKNOWN	9	142.0	6.8 VS
UNKNOWN	10	174.2	6.5 VS
ETHYLBENZENE	11	217.2	202.3 PPB
MP XYLENE	12	236.4	213.1 PPB
O XYLENE	13	284.3	1.367 PPM
UNKNOWN	14	325.0	1.3 VS
UNKNOWN	15	344.2	616.6 mVS
UNKNOWN	16	382.2	1.0 VS

05-004RBH 14 FT

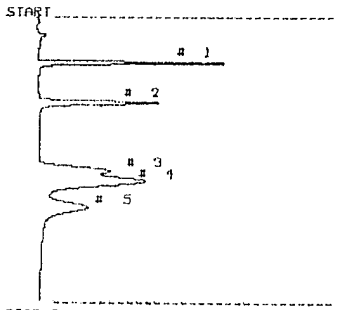


@ 450.0
SAMPLE LIBRARY 1 AUG 6 1994 16:29
ANALYSIS # 29 MARK ESCOBAR
INTERNAL TEMP 35 HAYWARD ANGS
GAIN 2 5-4RBH 14FT 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.3	830.4 mVS
UNKNOWN	2	52.7	354.5 mVS
UNKNOWN	3	74.1	2.2 VS
UNKNOWN	4	93.7	560.4 mVS
TOLUENE	5	113.8	1.703 PPM
UNKNOWN	6	142.0	959.4 mVS
UNKNOWN	7	175.7	132.2 mVS
UNKNOWN	8	195.7	102.2 mVS
ETHYLBENZENE	9	217.8	23.25 PPB
O XYLENE	10	282.7	192.5 PPB
UNKNOWN	11	323.2	98.8 mVS
UNKNOWN	12	395.2	124.6 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 10: 3
ANALYSIS # 3 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 1 PPM STD

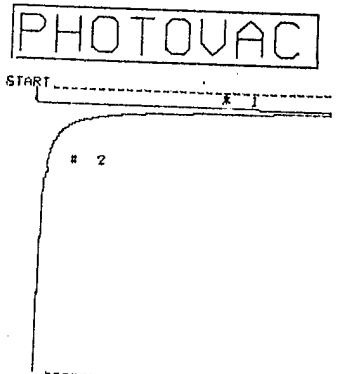
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	25.3	2.5	VS
UNKNOWN	2	139.6	2.5	VS
UNKNOWN	3	250.7	2.3	VS
UNKNOWN	4	266.1	5.9	VS
UNKNOWN	5	308.3	3.3	VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	25.3	1.000 PPM
TOLUENE	2	139.6	1.000 PPM
ETHYLBENZENE	3	250.7	1.000 PPM
MP XYLENE	4	266.1	1.000 PPM
O XYLENE	5	308.3	1.000 PPM

BLANK

PHOTOVAC

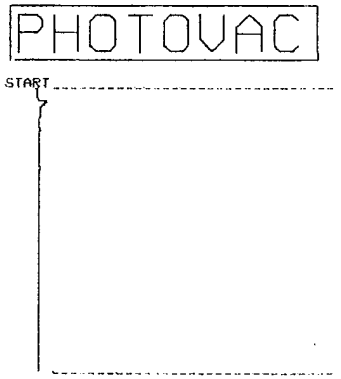


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 11:27
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	29.7	15.8	VS

05-001BH 1 FT

PHOTOVAC

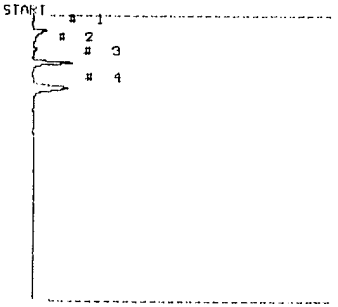


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 11:35
ANALYSIS # 9 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 05-001BH 1FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM

05-001BH 5.5 FT

PHOTOVAC

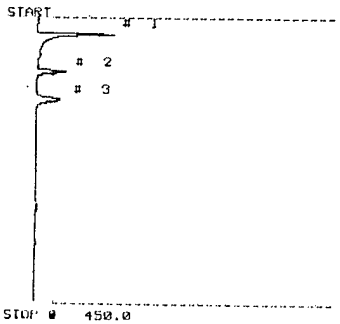


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 11:44
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	22.0	30.2	mVS
UNKNOWN	2	56.3	19.0	mVS
BENZENE	3	78.5	244.6	PPB
UNKNOWN	4	119.2	1.0	VS

05-001BH 6.5 FT

PHOTOVAC

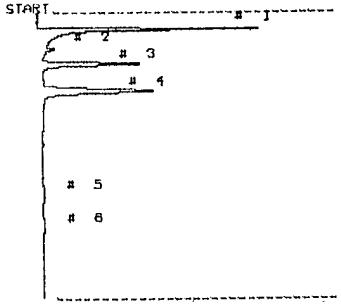


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 11:52
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001BH 6.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.5	571.8 mVS
UNKNOWN	2	31.0	479.5 mVS
TOLUENE	3	135.2	219.7 PPB

05-001BH 10.5 FT

PHOTOVAC

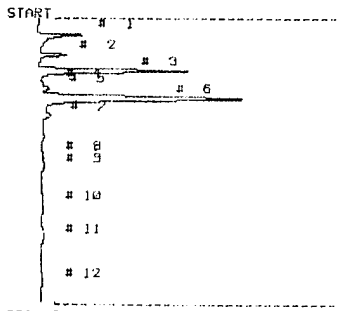


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 12:13
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.6	1.9 VS
UNKNOWN	2	58.9	83.3 mVS
BENZENE	3	83.5	672.7 PPB
TOLUENE	4	127.2	1.136 PPM
O XYLENE	5	283.9	24.48 PPB
UNKNOWN	6	344.8	83.4 mVS

05-001BH 14 FT

PHOTOVAC

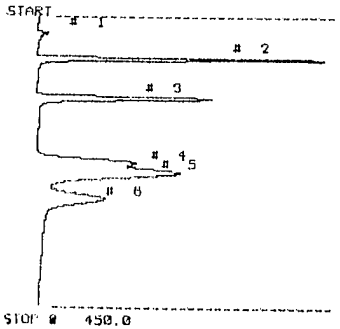


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 12:17
ANALYSIS # 13 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-001BH 14FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.1	229.3 mVS
UNKNOWN	2	62.1	302.9 mVS
UNKNOWN	3	88.3	2.2 VS
UNKNOWN	5	116.8	62.2 mVS
TOLUENE	6	132.0	1.982 PPM
UNKNOWN	7	159.2	128.5 mVS
UNKNOWN	8	222.0	23.3 mVS
ETHYLBENZENE	9	239.5	24.32 PPB
O XYLENE	10	300.3	38.60 PPB
UNKNOWN	11	352.9	189.6 mVS
UNKNOWN	12	422.3	21.6 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 12:41
ANALYSIS # 14 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 1 PPM STD

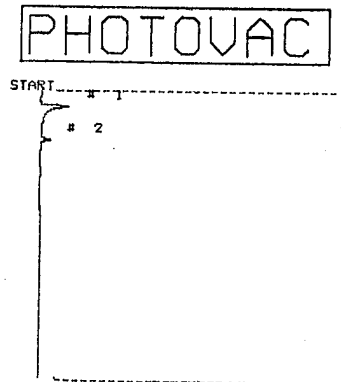
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.5	21.1 mVS
BENZENE	2	68.7	1.508 PPM
TOLUENE	3	131.2	1.464 PPM
ETHYLBENZENE	4	235.2	1.290 PPM
ETHYLBENZENE	5	250.7	2.548 PPM
O XYLENE	6	290.7	1.342 PPM

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	68.7	1.000 PPM
TOLUENE	2	131.2	1.000 PPM
ETHYLBENZENE	3	235.2	1.000 PPM
MP XYLENE	4	250.7	1.000 PPM
O XYLENE	5	290.7	1.000 PPM

BLANK

PHOTOVAC

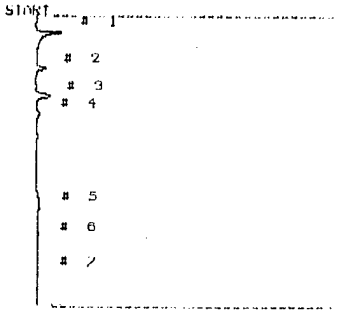


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 12:51
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.6	142.5 mVS
UNKNOWN	2	80.8	35.2 mVS

05-005BH 5.5 FT

PHOTOVAC

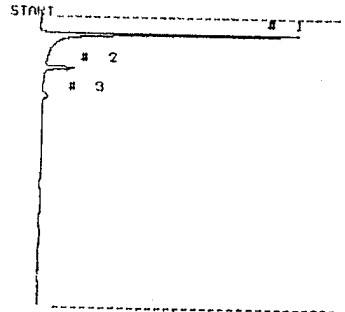


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 13:25
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 05-005BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.3	115.6 mVS
UNKNOWN	2	86.2	143.4 mVS
TOLUENE	3	130.4	0.000 PPB
UNKNOWN	4	157.6	81.7 mVS
O XYLENE	5	300.3	19.70 PPB
UNKNOWN	6	349.3	38.2 mVS

05-005BH 10.5 FT

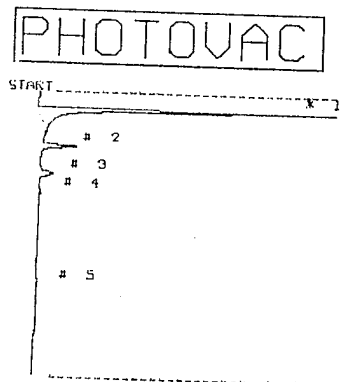
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 13:33
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-005BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.6	2.3 VS
UNKNOWN	2	85.0	392.9 mVS
TOLUENE	3	129.6	0.000 PPB

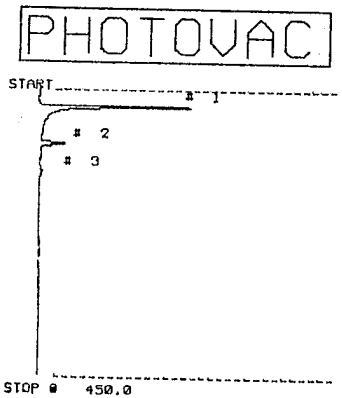
05-005BH 13 FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 13:42
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-005BH 13FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	30.1	2.8 VS
UNKNOWN	2	98.2	525.0 mVS
TOLUENE	3	134.8	0.000 PPB
O XYLENE	5	309.1	15.00 PPM

05-005BH 15.5 FT

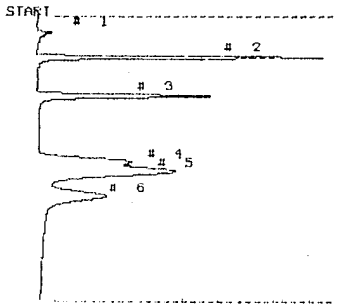


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 13:50
ANALYSIS # 19 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-005BH 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.2	1.1 VS
UNKNOWN	2	88.3	340.4 mVS
TOLUENE	3	133.2	0.000 PPB

1 PPM STD

PHOTOVAC



STOP # 450.0
SAMPLE LIBRARY 1 JUL 29 1994 13:59
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 1 PPM STD

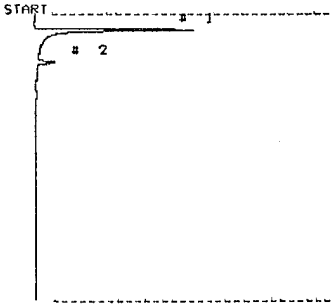
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.2	26.3 mVS
BENZENE	2	69.3	1.001 PPM
TOLUENE	3	132.4	0.000 PPB
ETHYLBENZENE	4	232.6	964.6 PPB
MP XYLENE	5	253.5	982.4 PPB
O XYLENE	6	293.9	1.003 PPM

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	69.3	1.000 PPM
TOLUENE	2	132.4	1.000 PPM
ETHYLBENZENE	3	232.6	1.000 PPM
MP XYLENE	4	253.5	1.000 PPM
O XYLENE	5	293.9	1.000 PPM

BLANK

PHOTOVAC

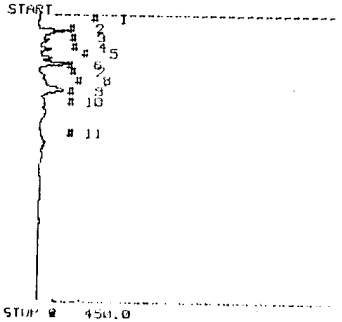


STOP # 450.0
SAMPLE LIBRARY 1 JUL 29 1994 14:32
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.0	1.3 VS
UNKNOWN	2	78.1	714.5 mVS

05-004BH 2 FT

PHOTOVAC

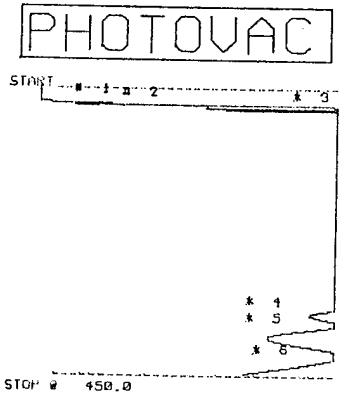


STOP # 450.0
SAMPLE LIBRARY 1 JUL 29 1994 14:10
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-004BH 2FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.2	196.9 mVS
UNKNOWN	2	43.5	25.6 mVS
UNKNOWN	3	58.1	98.6 mVS
BENZENE	4	72.1	18.28 PPB
UNKNOWN	5	81.4	440.6 mVS
UNKNOWN	6	104.9	31.4 mVS
UNKNOWN	7	111.1	15.5 mVS
TOLUENE	8	124.8	134.0 PPB
TOLUENE	9	142.8	6.025 PPB
UNKNOWN	10	158.4	86.9 mVS
UNKNOWN	11	206.4	103.4 mVS

05-004BH 5.5 FT

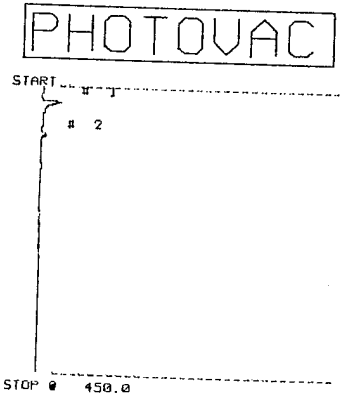
PHOTOVAC



STOP # 450.0
SAMPLE LIBRARY 1 JUL 29 1994 14:41
ANALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-004BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.0	10.9 mVS
UNKNOWN	2	25.8	413.1 mVS
UNKNOWN	3	30.2	6.0 VS
UNKNOWN	4	195.5	11.3 KVS
UNKNOWN	5	325.6	29.9 VS

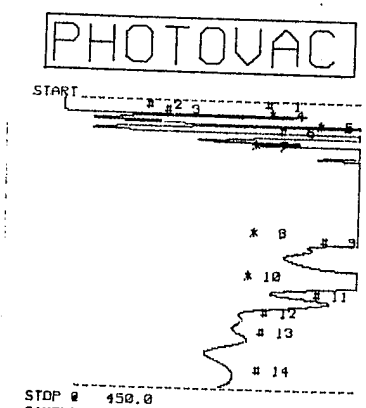
04-003BH 6.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 15:28
ANALYSIS # 26 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 04-003BH 6.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	45.8 mVS
UNKNOWN	2	28.9	42.1 mVS

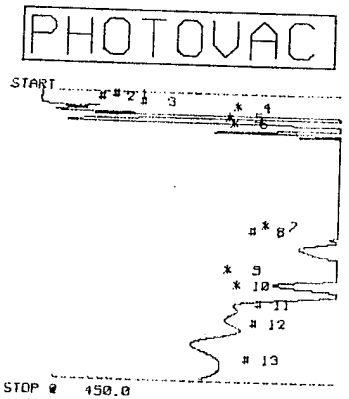
05-004BH 14.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 15:37
ANALYSIS # 27 MARK ESCOBAR
INTERNAL TEMP 32 HAYWARD ANGS
GAIN 2 05-004BH 14.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.3	1.9 VS
UNKNOWN	2	30.4	333.9 mVS
UNKNOWN	3	36.3	422.8 mVS
UNKNOWN	4	40.8	4.7 VS
UNKNOWN	5	55.2	16.6 VS
BENZENE	6	68.3	702.0 PPB
UNKNOWN	7	78.8	33.3 VS
UNKNOWN	8	159.7	754.6 VS
ETHYLBENZENE	9	238.2	2.819 PPM
O XYLENE	10	281.5	14.16 PPM
O XYLENE	11	323.2	4.851 PPM
UNKNOWN	12	351.1	10.5 VS
UNKNOWN	13	383.2	17.6 VS

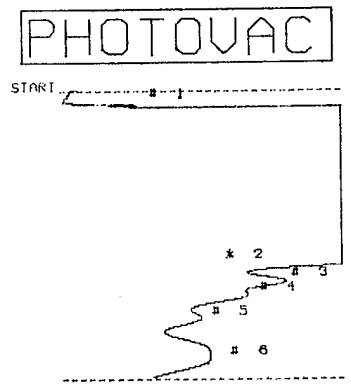
05-004BH 14.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 15:57
ANALYSIS # 29 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 5-4BH 14.5 5X

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	281.6 mVS
UNKNOWN	2	29.9	33.6 mVS
UNKNOWN	3	35.5	503.5 mVS
UNKNOWN	4	40.2	6.8 VS
UNKNOWN	5	54.4	21.4 VS
BENZENE	6	66.5	1.045 PPM
UNKNOWN	7	148.3	533.4 VS
ETHYLBENZENE	8	236.4	3.652 PPM
O XYLENE	9	278.3	15.10 PPM
O XYLENE	10	317.8	5.856 PPM
UNKNOWN	11	348.4	12.6 VS
UNKNOWN	12	380.2	20.9 VS

05-004BH 10.5 FT

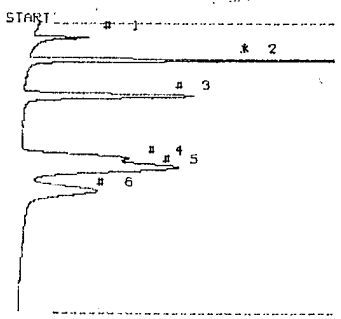


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 16: 8
ANALYSIS # 30 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-004BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.5	600.1 mVS
UNKNOWN	2	153.4	3.8 KVS
O XYLENE	3	305.3	3.338 PPM
UNKNOWN	4	327.7	14.0 VS
UNKNOWN	5	365.2	13.0 VS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 16:19
ANALYSIS # 31 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 1 PPM STD

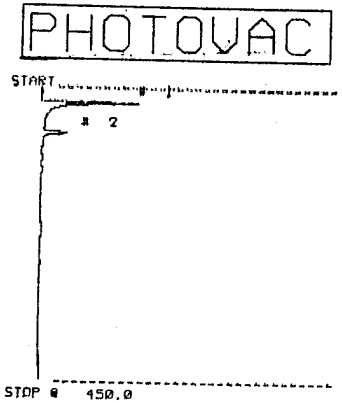
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	429.7 mVS
UNKNOWN	2	60.4	4.9 VS
UNKNOWN	3	118.3	4.3 VS
ETHYLBENZENE	4	218.4	1.029 PPM
ETHYLBENZENE	5	232.2	2.188 PPM
MP XYLENE	6	270.3	640.6 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	60.4	1.000 PPM
TOLUENE	2	118.3	1.000 PPM
ETHYLBENZENE	3	218.4	1.000 PPM
MP XYLENE	4	232.2	1.000 PPM
MP XYLENE	5	232.2	1.000 PPM
O XYLENE	6	270.3	1.000 PPM

BLANK

PHOTOVAC

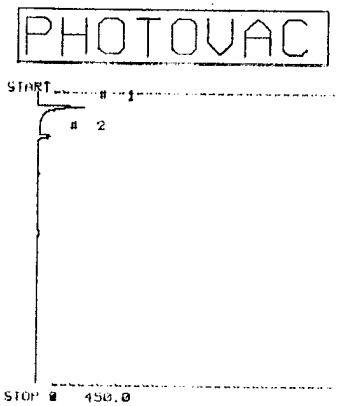


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 16:44
ANALYSIS # 33 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.8	624.4 mVS
UNKNOWN	2	72.1	280.3 mVS

05-002BH 1 FT

PHOTOVAC

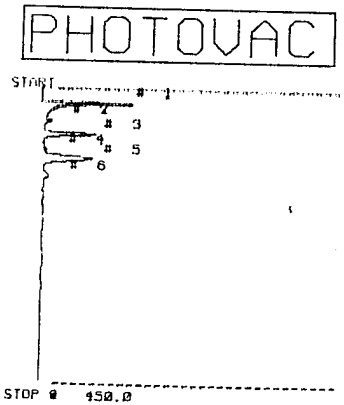


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:1
ANALYSIS # 34 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-002BH 1FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.9	259.3 mVS
UNKNOWN	2	71.5	123.8 mVS

05-002BH 5.5 FT

PHOTOVAC

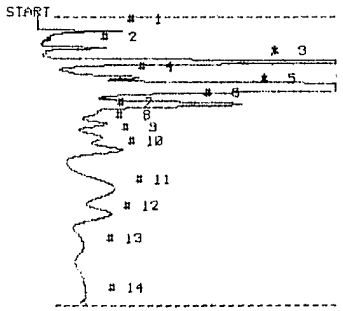


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:3
ANALYSIS # 35 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-002BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.9	559.0 mVS
UNKNOWN	2	51.7	46.6 mVS
UNKNOWN	3	72.1	804.4 mVS
UNKNOWN	4	97.0	11.0 mVS
TOLUENE	5	110.2	285.3 PPB
UNKNOWN	6	132.6	98.6 mVS

05-002BH 10.5 FT

PHOTOVAC

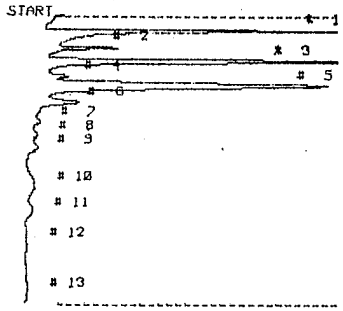


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:18
ANALYSIS # 36 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-002BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.1	515.8 mVS
UNKNOWN	2	52.7	696.1 mVS
UNKNOWN	3	78.5	11.9 VS
UNKNOWN	4	99.4	2.5 VS
TOLUENE	5	113.0	9.654 PPM
UNKNOWN	6	140.8	6.2 VS
UNKNOWN	7	154.0	1.6 VS
UNKNOWN	8	172.2	2.2 VS
UNKNOWN	9	193.2	3.1 VS
ETHYLBENZENE	10	213.6	989.6 PPB
O XYLENE	11	225.2	1.130 PPM
UNKNOWN	12	315.5	3.0 VS
UNKNOWN	13	366.2	2.1 VS

05-002BH 14.5 FT

PHOTOVAC

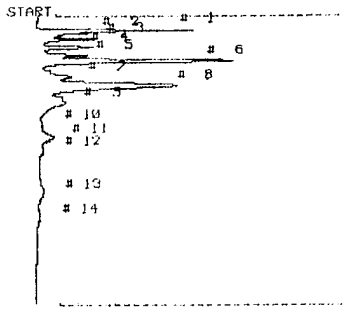


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:27
ANALYSIS # 37 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-002BH 14.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.7	3.1 VS
UNKNOWN	2	52.1	736.1 mVS
UNKNOWN	3	72.2	7.0 VS
UNKNOWN	4	97.3	317.4 mVS
TOLUENE	5	111.4	1.910 PPM
UNKNOWN	6	138.4	759.8 mVS
UNKNOWN	7	169.7	94.8 mVS
UNKNOWN	8	183.7	73.4 mVS
ETHYLBENZENE	9	210.6	45.18 PPB
O XYLENE	10	269.6	107.7 PPB
UNKNOWN	11	310.7	242.8 mVS
UNKNOWN	12	359.2	117.8 mVS

05-003BH 5.5 FT

PHOTOVAC

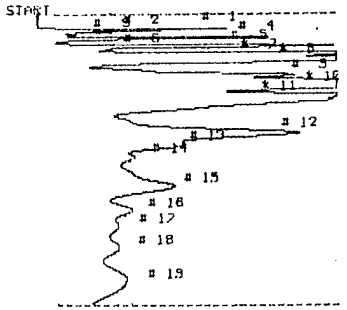


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:36
ANALYSIS # 38 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003BH 5.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.0	1.2 VS
UNKNOWN	2	29.0	313.9 mVS
UNKNOWN	3	38.4	343.0 mVS
UNKNOWN	4	52.7	542.2 mVS
BENZENE	5	65.5	102.1 PPB
UNKNOWN	6	73.9	3.2 VS
UNKNOWN	7	89.7	244.4 mVS
TOLUENE	8	113.5	1.003 PPM
UNKNOWN	9	140.4	1.1 VS
UNKNOWN	10	174.2	15.7 mVS
UNKNOWN	11	194.2	382.4 mVS
ETHYLBENZENE	12	214.8	2.212 PPB
O XYLENE	13	280.3	63.68 PPB
UNKNOWN	14	318.7	70.1 mVS

05-003BH 14 FT

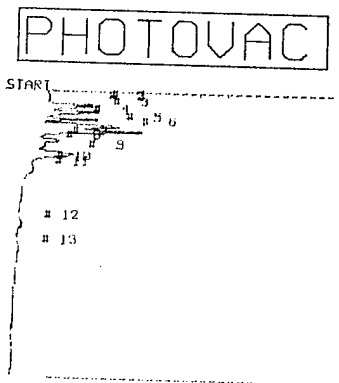
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:45
ANALYSIS # 39 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003BH 14FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	1.4 VS
UNKNOWN	2	29.4	424.6 mVS
UNKNOWN	3	34.6	12.1 mVS
UNKNOWN	4	38.7	1.9 VS
UNKNOWN	5	52.7	3.6 VS
BENZENE	6	58.3	94.15 PPB
BENZENE	7	64.8	1.930 PPM
UNKNOWN	8	72.5	10.4 VS
UNKNOWN	9	98.8	2.7 VS
TOLUENE	10	111.7	7.221 PPM
TOLUENE	11	130.3	2.645 PPM
UNKNOWN	12	181.2	10.1 VS
ETHYLBENZENE	13	209.4	585.0 PPB
M XYLENE	14	228.8	63.04 PPB
O XYLENE	15	273.8	844.8 PPB
UNKNOWN	16	311.5	802.6 mVS
UNKNOWN	17	336.7	143.5 mVS
UNKNOWN	18	371.2	600.3 mVS

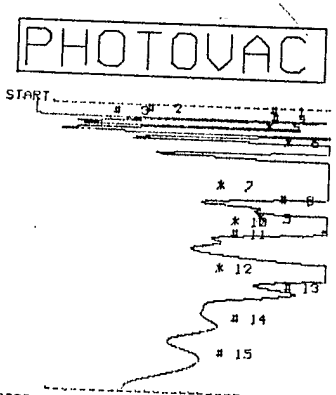
05-003BH 2 FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 17:54
ANALYSIS # 40 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003BH 2FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.9	341.8 mVS
UNKNOWN	2	27.6	311.3 mVS
UNKNOWN	3	36.5	532.8 mVS
UNKNOWN	4	49.1	489.4 mVS
BENZENE	5	61.1	326.4 PPB
UNKNOWN	6	68.5	1.6 VS
UNKNOWN	7	85.0	220.6 mVS
UNKNOWN	9	185.7	344.8 mVS
ETHYLBENZENE	12	216.0	29.30 PPB
O XYLENE	13	251.2	5.293 PPB

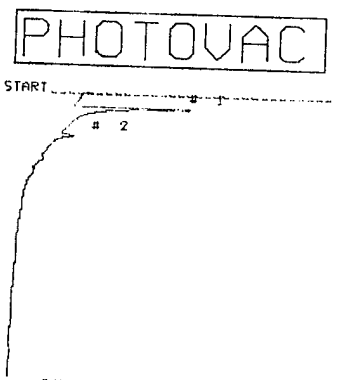
05-003BH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 18: 3
ANALYSIS # 41 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-003BH 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.0	2.2 VS
UNKNOWN	2	27.5	530.3 mVS
UNKNOWN	3	32.5	22.9 mVS
UNKNOWN	4	36.3	2.1 VS
UNKNOWN	5	48.6	5.8 VS
BENZENE	6	66.2	9.672 PPM
TOLUENE	7	116.5	52.19 PPM
UNKNOWN	8	164.7	4.2 VS
UNKNOWN	9	182.2	39.4 VS
ETHYLBENZENE	10	198.8	1.934 PPM
ETHYLBENZENE	11	219.0	1.008 PPM
O XYLENE	12	262.1	12.65 PPM
O XYLENE	13	298.5	3.151 PPM
UNKNOWN	14	352.0	3.1 VS

05-005BH 2 FT

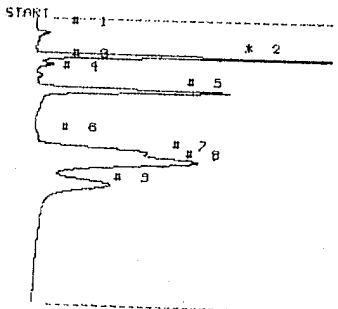


STOP @ 450.0
SAMPLE LIBRARY 1 JUL 29 1994 18:12
ANALYSIS # 42 MARK ESCOBAR
INTERNAL TEMP 33 HAYWARD ANGS
GAIN 2 05-005BH 2FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	1.1 VS
UNKNOWN	2	69.9	162.0 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 9:54
ANALYSIS # 6 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 2 1 PPM STD

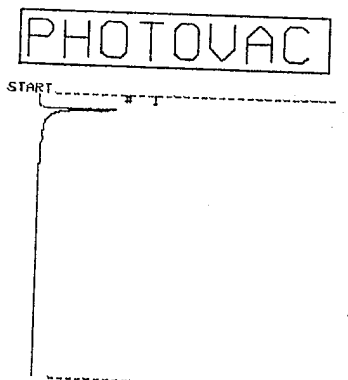
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	22.0 mVS
UNKNOWN	2	60.1	4.5 VS
UNKNOWN	3	75.3	149.7 mVS
UNKNOWN	4	93.4	78.0 mVS
UNKNOWN	5	115.6	4.2 VS
UNKNOWN	6	183.2	35.8 mVS
UNKNOWN	7	216.6	3.9 VS
UNKNOWN	8	238.4	3.2 VS
UNKNOWN	9	268.9	5.0 VS

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	60.1	1.000 PPM
TOLUENE	2	115.6	1.000 PPM
ETHYLBENZENE	3	216.6	1.000 PPM
MP XYLENE	4	238.4	1.000 PPM
O XYLENE	5	268.9	1.000 PPM

BLANK

PHOTOVAC

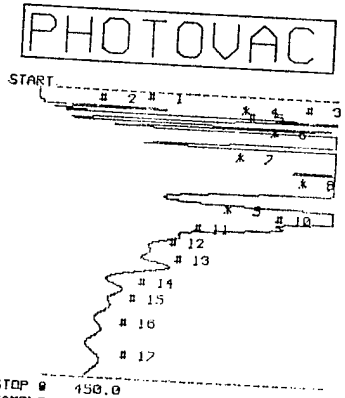


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 10:06
ANALYSIS # 7 MARK ESCOBAR
INTERNAL TEMP 27 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	517.8 mVS

05-004BH 5.5 FT

PHOTOVAC

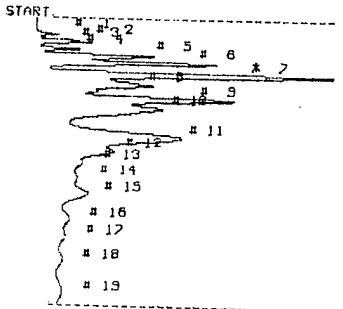


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 11:58
ANALYSIS # 8 MARK ESCOBAR
INTERNAL TEMP 28 HAYWARD ANGS
GAIN 2 5-4BH 5.5FT 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.3	803.1 mVS
UNKNOWN	2	34.2	303.1 mVS
UNKNOWN	3	39.0	2.1 VS
UNKNOWN	4	41.9	3.9 VS
UNKNOWN	5	53.3	4.1 VS
UNKNOWN	6	68.9	41.3 VS
UNKNOWN	7	102.3	182.2 VS
UNKNOWN	8	139.1	33.5 VS
UNKNOWN	9	190.1	64.2 VS
ETHYLBENZENE	10	212.4	2,814 PPM
MP XYLENE	11	231.0	801.9 PPB
O XYLENE	12	254.9	1,232 PPM
O XYLENE	13	281.1	2,289 PPM
UNKNOWN	14	320.5	2.2 VS
UNKNOWN	15	346.6	6.3 VS
UNKNOWN	16	385.2	7.1 VS

05-004BH 5.5 FT

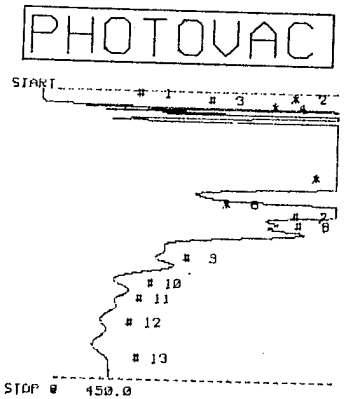
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 12:41
ANALYSIS # 10 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 [redacted] 5-4BH 5.5FT 5uL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.6	85.5 mVS
UNKNOWN	2	33.3	285.7 mVS
UNKNOWN	3	43.1	303.4 mVS
UNKNOWN	4	53.7	467.6 mVS
BENZENE	5	63.3	550.8 PPB
UNKNOWN	6	74.7	3.5 VS
UNKNOWN	7	92.2	8.9 VS
TOLUENE	8	110.5	1,020 PPM
UNKNOWN	9	132.0	3.8 VS
UNKNOWN	10	146.4	3.2 VS
UNKNOWN	11	192.2	6.8 VS
ETHYLBENZENE	12	214.8	458.8 PPB
MP XYLENE	13	234.0	41.79 PPB
O XYLENE	14	258.4	12.81 PPB
O XYLENE	15	283.5	154.5 PPB
UNKNOWN	16	324.1	328.5 mVS
UNKNOWN	17	350.2	61.5 mVS
UNKNOWN	18	389.2	286.3 mVS

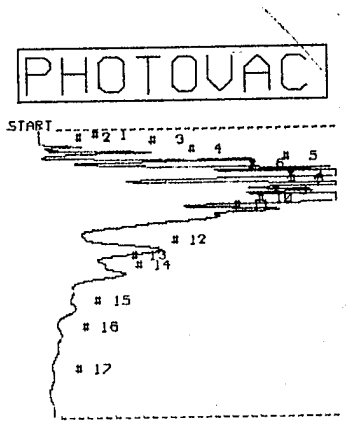
05-004BH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 13: 0
ANALYSIS # 11 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 5-4 10.5FT 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	612.8 mVS
UNKNOWN	2	29.1	2.4 VS
UNKNOWN	3	34.6	1.3 VS
UNKNOWN	4	40.0	12.1 VS
UNKNOWN	5	102.2	1.2 KVS
UNKNOWN	6	189.3	55.1 VS
ETHYLBENZENE	7	213.0	1.894 PPM
MP XYLENE	8	227.4	2,003 PPM
O XYLENE	9	280.3	250.5 PPB
UNKNOWN	10	321.4	652.1 mVS
UNKNOWN	11	345.7	62.8 mVS
UNKNOWN	12	385.2	387.8 mVS
UNKNOWN	13	440.0	484.5 mVS

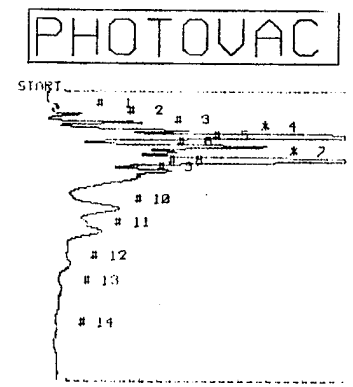
05-004BH 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 13:10
ANALYSIS # 12 MARK ESCOBAR
INTERNAL TEMP 29 HAYWARD ANGS
GAIN 2 5-4 10.5FT 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.5	214.7 mVS
UNKNOWN	2	35.1	34.6 mVS
UNKNOWN	3	39.3	1.1 VS
UNKNOWN	4	54.1	2.8 VS
UNKNOWN	5	67.5	5.6 VS
UNKNOWN	6	76.3	19.8 VS
UNKNOWN	7	93.0	12.9 VS
UNKNOWN	8	103.3	6.0 VS
TOLUENE	9	114.5	5,500 PPM
UNKNOWN	10	133.2	7.5 VS
UNKNOWN	11	142.4	9.7 VS
UNKNOWN	12	155.2	8.1 VS
ETHYLBENZENE	13	219.6	528.4 PPB
MP XYLENE	14	232.8	427.2 PPB
O XYLENE	15	288.3	72.49 PPB
UNKNOWN	16	329.5	190.0 mVS
UNKNOWN	17	395.2	94.5 mVS

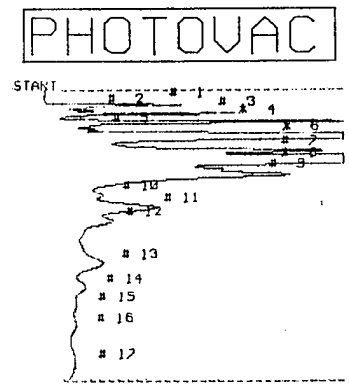
05-004BH 14.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 13:39
ANALYSIS # 15 MARK ESCOBAR
INTERNAL TEMP 30 HAYWARD ANGS
GAIN 2 5-4 10.5FT 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	38.1	262.3 mVS
UNKNOWN	2	52.1	1.1 VS
BENZENE	3	64.9	563.0 PPB
UNKNOWN	4	72.8	12.6 VS
UNKNOWN	5	90.4	4.8 VS
UNKNOWN	6	98.8	2.2 VS
TOLUENE	7	103.9	3,253 PPM
UNKNOWN	8	128.8	3.9 VS
UNKNOWN	9	137.6	3.7 VS
UNKNOWN	10	187.2	2.6 VS
MP XYLENE	11	224.4	216.4 PPB
O XYLENE	12	285.9	42.61 PPB
UNKNOWN	13	315.5	112.2 mVS
UNKNOWN	14	378.2	48.6 mVS

05-004BH 14.5 FT

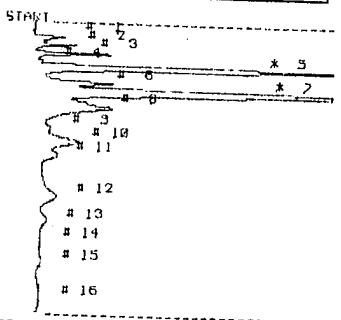


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 13:48
ANALYSIS # 16 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 5-4 ~~10.5~~FT 5UL
14.5 20

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.8	800.2 mVS
UNKNOWN	2	33.9	142.0 mVS
UNKNOWN	3	37.3	1.5 VS
UNKNOWN	4	51.9	4.0 VS
BENZENE	5	64.1	99.17 PPB
UNKNOWN	6	72.9	25.3 VS
UNKNOWN	7	98.2	7.1 VS
TOLUENE	8	110.4	7,935 PPM
UNKNOWN	9	156.0	13.5 VS
UNKNOWN	10	168.7	1.6 VS
UNKNOWN	11	188.2	5.3 VS
ETHYLBENZENE	12	209.4	634.9 PPB
O XYLENE	13	274.5	333.7 PPB
UNKNOWN	14	313.1	413.0 mVS
UNKNOWN	15	341.2	17.8 mVS
UNKNOWN	16	375.2	169.1 mVS

05-004BH 14.5 FT

PHOTOVAC

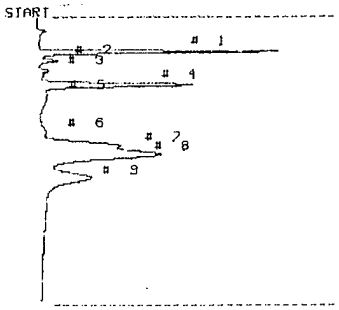


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 13:57
ANALYSIS # 17 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 05-04BH PHASE 5 soil

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.1	161.0 mVS
UNKNOWN	2	32.3	254.3 mVS
UNKNOWN	3	51.9	806.6 mVS
UNKNOWN	5	72.3	2.2 VS
UNKNOWN	6	92.9	1.4 VS
TOLUENE	7	109.5	3.120 PPM
UNKNOWN	8	136.0	3.2 VS
UNKNOWN	9	169.2	63.2 mVS
UNKNOWN	10	188.2	1.0 VS
ETHYLBENZENE	11	210.0	42.64 PPB
O XYLENE	12	225.2	204.8 PPB
UNKNOWN	13	313.9	224.0 mVS
UNKNOWN	14	343.0	18.9 mVS
UNKNOWN	15	376.2	96.6 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 14:12
ANALYSIS # 18 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 1 PPM STD

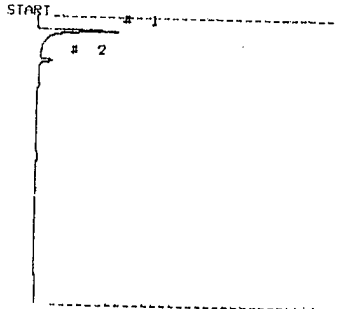
COMPOUND NAME	PEAK	R.T.	AREA/PPM
BENZENE	1	58.1	658.6 PPB
UNKNOWN	2	72.5	221.7 mVS
UNKNOWN	3	89.5	114.2 mVS
TOLUENE	4	111.4	245.6 PPB
TOLUENE	5	122.6	17.52 PPB
UNKNOWN	6	182.2	93.4 mVS
ETHYLBENZENE	7	210.0	650.2 PPB
ETHYLBENZENE	8	223.2	1.469 PPM
O XYLENE	9	261.2	546.9 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	58.1	1.000 PPM
TOLUENE	2	111.4	1.000 PPM
ETHYLBENZENE	3	210.0	1.000 PPM
MP XYLENE	4	223.2	1.000 PPM
O XYLENE	5	261.2	1.000 PPM

BLANK

PHOTOVAC

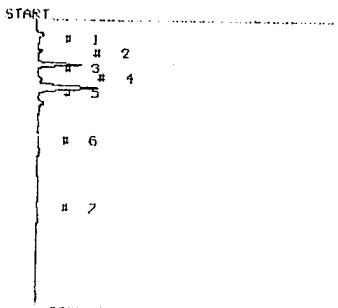


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 14:34
ANALYSIS # 20 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	499.6 mVS
UNKNOWN	2	91.2	146.1 mVS

05-002BH 10.5 FT

PHOTOVAC

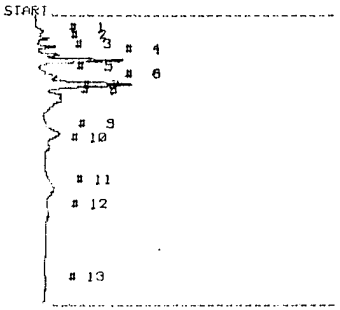


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 14:42
ANALYSIS # 21 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 5-2BH 10.5F 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	51.2	33.3 mVS
UNKNOWN	2	72.5	684.3 mVS
UNKNOWN	3	92.6	14.2 mVS
TOLUENE	4	110.2	382.9 PPB
UNKNOWN	5	136.0	112.4 mVS
ETHYLBENZENE	6	210.0	1.634 PPM
UNKNOWN	7	314.2	29.2 mVS

05-003BH 10.5 FT

PHOTOVAC

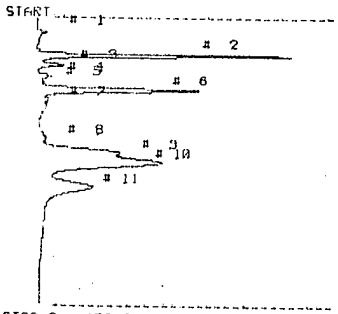


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 14:57
ANALYSIS # 22 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 5-3BH 10.5FT 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.8	22.1 mVS
UNKNOWN	2	51.2	125.0 mVS
BENZENE	3	64.3	23.61 PPB
UNKNOWN	4	72.5	1.3 VS
UNKNOWN	5	88.2	454.5 mVS
TOLUENE	6	110.2	225.8 PPB
UNKNOWN	7	128.8	530.6 mVS
UNKNOWN	8	136.2	844.6 mVS
UNKNOWN	9	188.2	525.6 mVS
ETHYLBENZENE	10	209.4	4.529 PPB
O XYLENE	11	274.5	214.2 PPB
UNKNOWN	12	313.1	94.5 mVS

1 PPM STD

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 15:42
ANALYSIS # 26 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 ~~5 PPM LIFT GOW~~ STD

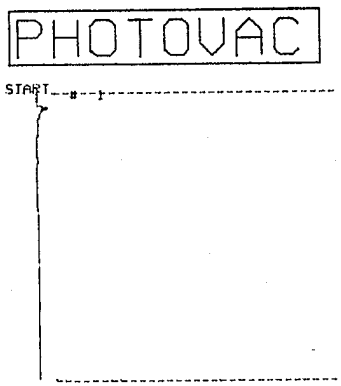
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.7	16.1 mVS
BENZENE	2	61.2	1.123 PPM
UNKNOWN	3	72.1	346.3 mVS
UNKNOWN	4	95.5	168.2 mVS
TOLUENE	6	117.1	1.048 PPM
UNKNOWN	7	134.4	32.3 mVS
ETHYLBENZENE	8	196.2	90.03 PPB
MP XYLENE	9	219.6	513.8 PPB
MP XYLENE	10	233.4	1.126 PPM
O XYLENE	11	272.4	1.231 PPM

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
BENZENE	1	61.7	1.000 PPM
TOLUENE	2	117.1	1.000 PPM
ETHYLBENZENE	3	219.8	1.000 PPM
MP XYLENE	4	233.4	1.000 PPM
O XYLENE	5	272.4	1.000 PPM

BLANK

PHOTOVAC

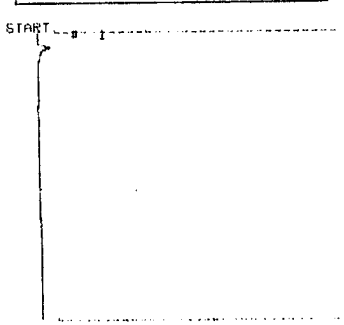


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 15:54
ANALYSIS # 27 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	15.5 mVS

BG-001MW 6.5 FT

PHOTOVAC

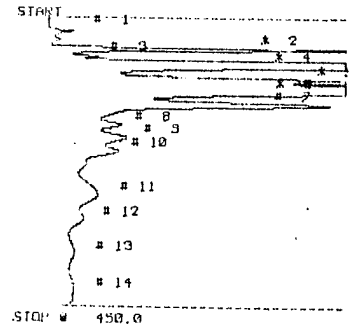


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 16:3
ANALYSIS # 28 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-001MW 6.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	21.6 mVS

BG-001MW 10.5 FT

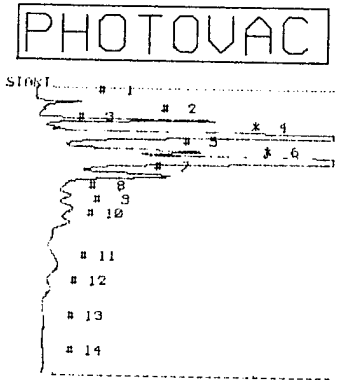
PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 16:11
ANALYSIS # 29 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-001MW 10.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.6	103.3 mVS
UNKNOWN	2	53.8	5.6 VS
BENZENE	3	62.3	130.3 PPB
UNKNOWN	4	72.4	36.2 VS
UNKNOWN	5	102.2	10.5 VS
TOLUENE	6	115.3	5.912 PPM
UNKNOWN	7	141.6	12.5 VS
UNKNOWN	8	174.2	3.1 VS
UNKNOWN	9	194.2	4.6 VS
ETHYLBENZENE	10	212.2	318.1 PPB
O XYLENE	11	265.1	491.6 PPB
UNKNOWN	12	324.1	322.4 mVS
UNKNOWN	13	372.2	402.2 mVS

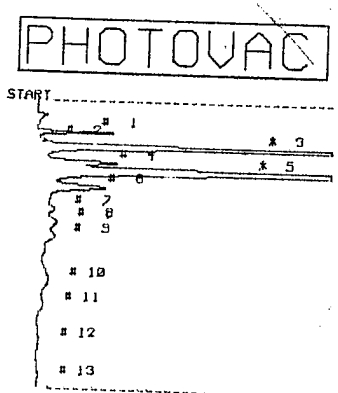
BG-001MW 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 16:21
ANALYSIS # 30 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-1MW 10.5 50UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	275.1 mVS
UNKNOWN	2	54.3	2.1 VS
BENZENE	3	62.3	36.46 PPB
UNKNOWN	4	76.4	18.4 VS
UNKNOWN	5	103.0	2.8 VS
TOLUENE	6	119.1	9.068 PPM
UNKNOWN	7	141.2	2.9 VS
UNKNOWN	8	174.2	222.8 mVS
UNKNOWN	9	194.2	323.2 mVS
ETHYLBENZENE	10	212.2	81.33 PPB
O XYLENE	11	284.3	240.8 PPB
UNKNOWN	12	323.2	143.2 mVS
UNKNOWN	13	376.2	173.8 mVS

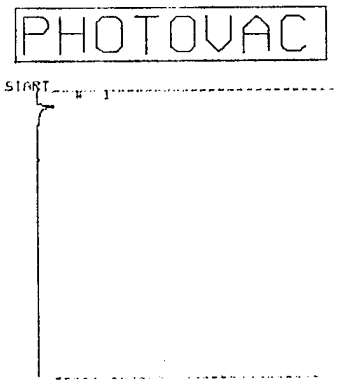
BG-001MW 10.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 16:31
ANALYSIS # 31 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-1MW 10.5 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	54.1	853.6 mVS
BENZENE	2	62.1	4.004 PPB
UNKNOWN	3	75.8	2.7 VS
UNKNOWN	4	102.2	1.4 VS
TOLUENE	5	113.6	4.738 PPM
UNKNOWN	6	141.6	1.6 VS
UNKNOWN	7	175.2	132.9 mVS
UNKNOWN	8	195.2	245.8 mVS
ETHYLBENZENE	9	213.0	60.03 PPB
O XYLENE	10	288.3	161.9 PPB
UNKNOWN	11	322.2	94.3 mVS
UNKNOWN	12	382.2	126.0 mVS

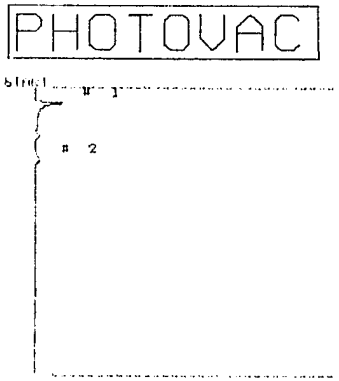
BG-001MW 15.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 16:45
ANALYSIS # 32 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-001MW 15.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	32.1 mVS

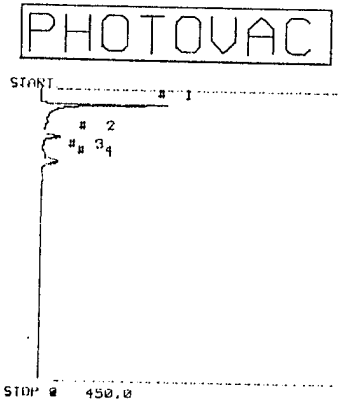
BG-001MW 20.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 16:53
ANALYSIS # 33 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-001MW 20.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.0	106.2 mVS
TOLUENE	2	115.6	20.04 PPB

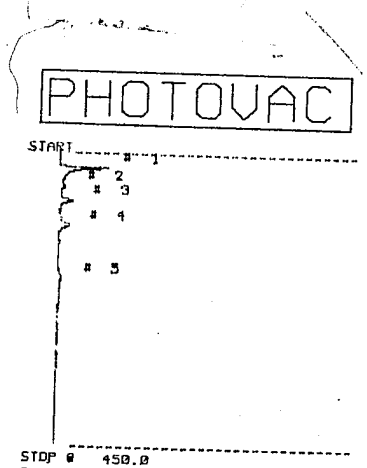
BG-001MW 25.5 FT



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 17: 2
ANALYSIS # 34 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-001MW 25.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.0	949.5 mVS
UNKNOWN	2	77.5	242.9 mVS
TOLUENE	4	115.9	93.03 PPB

BG-001MW 30.5 FT

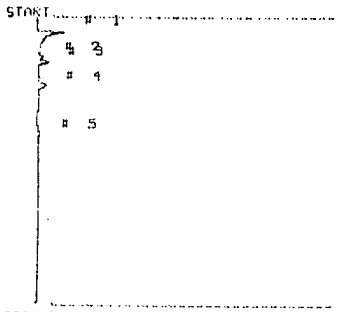


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 17:11
ANALYSIS # 35 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 BG-001MW 30.5FT

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.1	301.7 mVS
UNKNOWN	2	55.1	13.0 mVS
UNKNOWN	3	77.5	172.1 mVS
TOLUENE	4	116.2	57.00 PPB
UNKNOWN	5	197.7	46.7 mVS

05-003BH 14 FT

PHOTOVAC

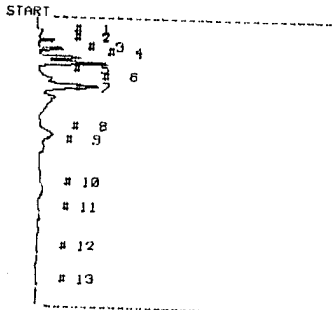


STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 15: 2
ANALYSIS # 23 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 5-3BH 14FT 5UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.2	122.9 mVS
BENZENE	2	64.5	8.585 PPB
UNKNOWN	3	72.3	103.9 mVS
TOLUENE	4	110.2	48.29 PPB
UNKNOWN	5	188.2	27.6 mVS

05-003BH 14 FT

PHOTOVAC



STOP @ 450.0
SAMPLE LIBRARY 1 AUG 1 1994 15:12
ANALYSIS # 24 MARK ESCOBAR
INTERNAL TEMP 31 HAYWARD ANGS
GAIN 2 5-3BH 14FT 20UL

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.9	101.9 mVS
UNKNOWN	2	51.9	252.8 mVS
UNKNOWN	3	64.2	528.2 mVS
UNKNOWN	4	72.9	1.0 VS
UNKNOWN	5	98.8	320.9 mVS
TOLUENE	6	110.5	514.2 PPB
UNKNOWN	7	128.8	296.4 mVS
UNKNOWN	8	180.2	411.0 mVS
ETHYLBENZENE	9	210.6	4,152 PPB
O XYLENE	10	275.9	98.73 PPB
UNKNOWN	11	315.5	52.8 mVS
UNKNOWN	12	328.2	40.2 mVS

APPENDIX E

AQUIFER SLUG TEST DATA

SECTION E.1 INTRODUCTION

On 13 October, 1994, rising head (slug-out) slug tests were conducted in monitoring wells 04-001MW, 04-002MW, 05-001MW, 05-002MW, and 05-003MW, and background monitoring well BG-001MW at Installation Restoration Program (IRP) Sites No. 4 and No. 5 to estimate the hydraulic conductivity of the first water-bearing zone beneath the Hayward Air National Guard Station (ANGS).

The slug tests were conducted by lowering a solid PVC slug, approximately 1.5 inches in diameter and 10 feet in length fully below the water surface in the monitoring wells. Prior to insertion, the slug was decontaminated according to protocols specified in the investigation Work Plan. Water level displacements effected by the slug were measured with a pressure transducer placed at the bottom of the well and recorded by an automatic data logger. After the data logger indicated that the water level in the well had returned to approximately pre-displacement levels, the slug was rapidly removed from the well resulting in a drop in water level. The water level rise after slug removal was automatically recorded at closely spaced time intervals by the data logger. The tests were terminated when the water levels in the well returned to approximately pre-displacement levels.

Raw data from the slug tests was downloaded in the office to a computer file and analyzed by the Bouwer and Rice Method (Bouwer and Rice, 1976) for unconfined aquifers using the software program "AQTESOLV" Version 1.1 developed by Geraghty and Miller, Inc. The program implements automatic curve matching through nonlinear least-squares parameter estimation in addition to optional visual curve matching for the estimation of aquifer parameters.

Plotting of water level data generated during the slug test performed in monitoring well 05-003MW showed irregular pressure transients that were translated as water level permutations of up to 2.3 feet within the 0- to 1.8-second time interval of the test. The probable cause for the erratic data is disturbance of the pressure transducer and cable during withdrawal of the slug. The data stabilized after 1.8 seconds and is considered to be valid thereafter. The final hydraulic conductivity was estimated by excluding the erratic data. Sensitivity analysis showed that the exclusion of the erratic data resulted in an increase of 16.91 gpd/ft.

The raw data for each slug test with the match curves generated by AQTESOLV are included herein.

SLUG TEST METHODOLOGY

REFERENCE Bouwer, H. and R. C. Rice, 1976: *A Slug Test Method for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells*, Water Resources research, Vol. 12, No. 3, pp. 423-428.

SOLUTION:

$$\ln So - \ln S_t = \frac{2KLt}{r_c^2 \ln(r_e/r_w)}$$

Where:

S_o = Initial drawdown in well due to instantaneous removal of water from well [L];

S_t = Drawdown in well at time "t" [L];

L = Length of saturated well screen interval [L];

r_c = Radius of well casing [L];

r_w = Radius of well (including filter pack) [L];

$\ln(r_e/r_w)$ = Empirical "shape factor" determined from reference tables (Bouwer and Rice, 1976); and

r_e = Equivalent radius over which hydraulic head loss occurs [L].

CRITICAL ASSUMPTIONS:

1) The water-bearing zone is representative of a homogenous, isotropic unconfined aquifer;

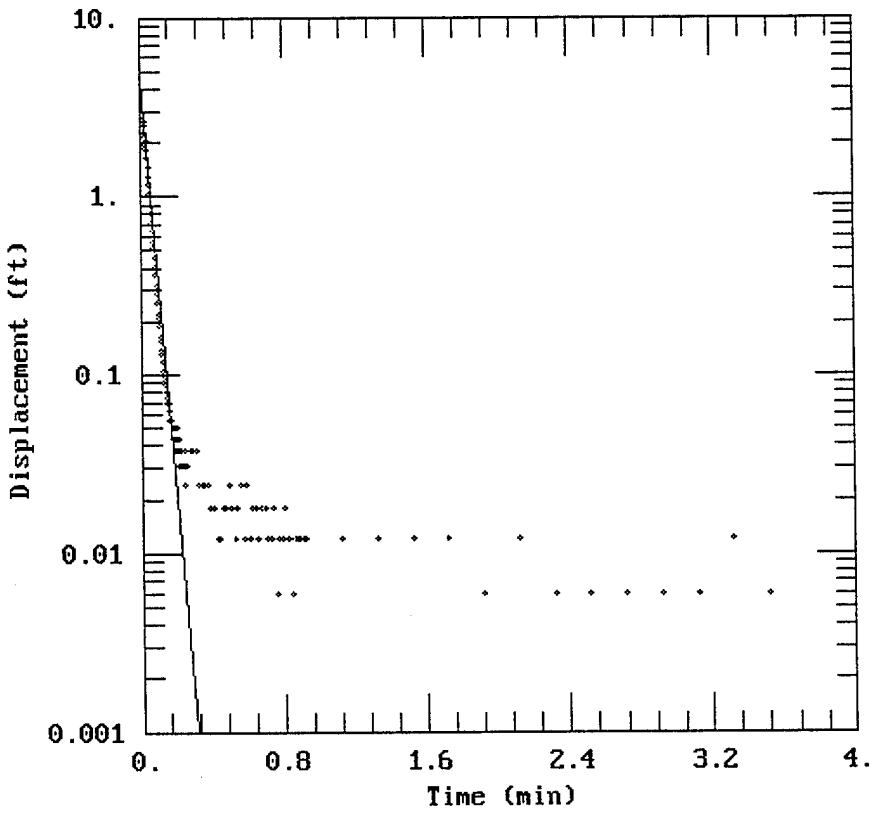
2) Drawdown of the water table around the well is negligible;

3) Groundwater flow above the water table (in the capillary fringe) is negligible; and

4) Hydraulic head losses as water enters the well (well losses) is negligible.

CLIENT: ANGRC	COMPANY: OPERATIONAL TECHNOLOGIES CORP
LOCATION: HAYWARD ANGS	PROJECT: 1315-189 DO 0031

Hayward ANGS - IRP Site No. 4, 04-001MW



DATA SET:
04001MW.DAT
04/28/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATA:
H0= 3.746 ft
r_c= 0.083 ft
r_w= 0.33 ft
L = 17.59 ft
b = 17.59 ft
H = 17.59 ft

PARAMETER ESTIMATES:
K = 0.09143 ft/min
y0 = 4.735 ft

AQTESOLV

SLUG TEST DATA FOR 04-001MW

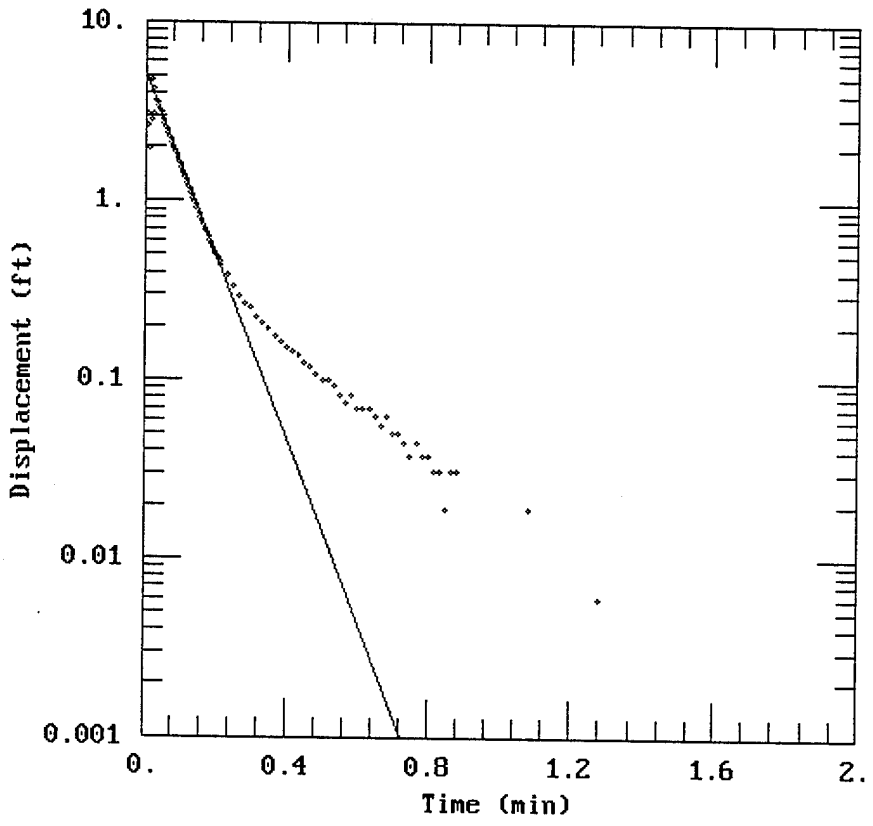
0	3.746
0.01	3.122
0.0133	1.905
0.0167	2.195
0.02	2.687
0.0233	2.51
0.0267	2.618
0.03	2.271
0.0333	2.05
0.0367	1.829
0.04	1.652
0.0433	1.463
0.0467	1.287
0.05	1.16
0.0533	1.028
0.0567	0.895
0.06	0.813
0.0633	0.719
0.0667	0.643
0.07	0.561
0.0733	0.517
0.0767	0.46
0.08	0.409
0.0833	0.365
0.0867	0.321
0.09	0.29
0.0933	0.252
0.0967	0.22
0.1	0.207
0.1033	0.189
0.1067	0.163
0.11	0.157
0.1133	0.138
0.1167	0.132
0.12	0.119
0.1233	0.106
0.1267	0.1
0.13	0.094
0.1333	0.088
0.1367	0.088
0.14	0.081
0.1433	0.075

0.1467	0.069
0.15	0.069
0.1533	0.056
0.1567	0.056
0.16	0.062
0.1633	0.056
0.1667	0.056
0.17	0.056
0.1733	0.05
0.1767	0.05
0.18	0.043
0.1833	0.043
0.1867	0.05
0.19	0.037
0.1933	0.05
0.1967	0.037
0.2	0.043
0.2033	0.043
0.2067	0.037
0.21	0.037
0.2133	0.031
0.2167	0.037
0.22	0.031
0.2233	0.031
0.2267	0.031
0.23	0.031
0.2333	0.031
0.2367	0.031
0.24	0.037
0.2433	0.024
0.2467	0.031
0.25	0.031
0.2667	0.037
0.2833	0.037
0.3	0.037
0.3167	0.024
0.3333	0.024
0.35	0.024
0.3667	0.024
0.3833	0.018
0.4	0.018
0.4167	0.012
0.4333	0.012
0.45	0.018
0.4667	0.018
0.4833	0.024

0.5	0.018
0.5167	0.012
0.5333	0.018
0.55	0.024
0.5667	0.012
0.5833	0.024
0.6	0.012
0.6167	0.018
0.6333	0.018
0.65	0.012
0.6667	0.018
0.6833	0.018
0.7	0.012
0.7167	0.012
0.7333	0.018
0.75	0.006
0.7667	0.012
0.7833	0.012
0.8	0.018
0.8167	0.012
0.8333	0.006
0.85	0.012
0.8667	0.012
0.8833	0.012
0.9	0.012
0.9167	0.012
1.1167	0.012
1.3167	0.012
1.5167	0.012
1.7167	0.012
1.9167	0.006
2.1167	0.012
2.3167	0.006
2.5167	0.006
2.7167	0.006
2.9167	0.006
3.1167	0.006
3.3167	0.012
3.5167	0.006
3.7167	0
3.9167	0
6.1167	0
6.7167	0

CLIENT: ANGRC	COMPANY: OPERATIONAL TECHNOLOGIES CORP
LOCATION: HAYWARD ANGS	PROJECT: 1315-189 DO 0031

Hayward ANGS - IRP Site No. 4, 04-002MW



DATA SET:
04002MW.DAT
04/28/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATA:
H0= 4.607 ft
r_c= 0.083 ft
r_w= 0.33 ft
L = 19.75 ft
b = 19.75 ft
H = 19.75 ft

PARAMETER ESTIMATES:
K = 0.03518 ft/min
y0 = 5.09 ft

AQTESOLV

SLUG TEST DATA FOR 04-002MW

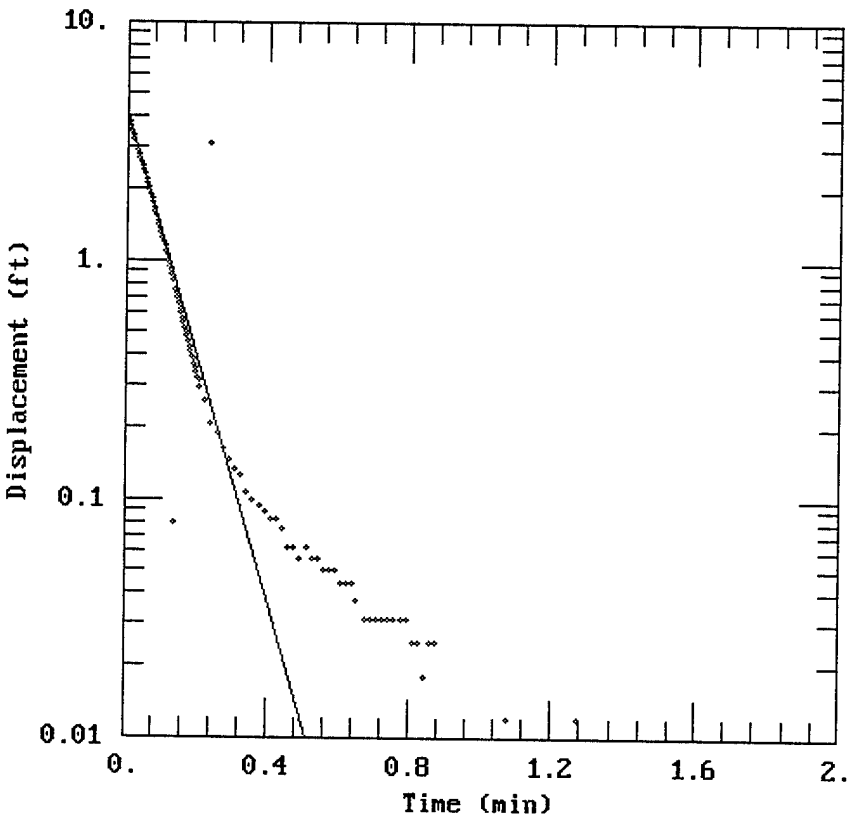
0	5.325
0.0033	4.607
0.0066	2.613
0.01	3.004
0.0133	1.95
0.0166	2.853
0.02	4.777
0.0233	3.023
0.0266	4.222
0.03	3.61
0.0333	3.522
0.0366	3.332
0.04	3.2
0.0433	3.093
0.0466	2.941
0.05	2.821
0.0533	2.683
0.0566	2.556
0.06	2.487
0.0633	2.392
0.0666	2.285
0.07	2.203
0.0733	2.108
0.0766	2.026
0.08	1.95
0.0833	1.881
0.0866	1.799
0.09	1.723
0.0933	1.66
0.0966	1.597
0.1	1.534
0.1033	1.471
0.1066	1.414
0.11	1.363
0.1133	1.307
0.1166	1.25
0.12	1.206
0.1233	1.161
0.1266	1.117
0.13	1.073
0.1333	1.029

0.1366	0.985
0.14	0.953
0.1433	0.915
0.1466	0.884
0.15	0.839
0.1533	0.814
0.1566	0.783
0.16	0.764
0.1633	0.732
0.1666	0.7
0.17	0.682
0.1733	0.656
0.1766	0.631
0.18	0.606
0.1833	0.587
0.1866	0.568
0.19	0.549
0.1933	0.524
0.1966	0.511
0.2	0.498
0.2033	0.479
0.2066	0.467
0.21	0.454
0.2133	0.435
0.23	0.385
0.2466	0.334
0.2633	0.296
0.28	0.265
0.2966	0.252
0.3133	0.227
0.33	0.208
0.3466	0.195
0.3633	0.176
0.38	0.164
0.3966	0.151
0.4133	0.145
0.43	0.138
0.4466	0.126
0.4633	0.12
0.48	0.107
0.4966	0.101
0.5133	0.101
0.53	0.094
0.5466	0.082
0.5633	0.075
0.58	0.082

0.5966	0.069
0.6133	0.069
0.63	0.069
0.6466	0.063
0.6633	0.056
0.68	0.063
0.6966	0.05
0.7133	0.05
0.73	0.044
0.7466	0.037
0.7633	0.044
0.78	0.037
0.7966	0.037
0.8133	0.031
0.83	0.031
0.8466	0.019
0.8633	0.031
0.88	0.031
1.08	0.019
1.28	0.006
1.48	0
1.88	0
2.08	0
2.28	0
2.48	0

CLIENT: ANGRC	COMPANY: OPERATIONAL TECHNOLOGIES CORP
LOCATION: HAYWARD ANGS	PROJECT: 1315-189 DO 0031

Hayward ANGS - IRP Site No. 5, MW-1



DATA SET:
HAY1
01/25/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATA:
H0= 4.037 ft
r_c= 0.083 ft
r_w= 0.334 ft
L = 14.94 ft
b = 14.94 ft
H = 14.94 ft

PARAMETER ESTIMATES:
K = 0.007926 ft/min
y0 = 4.069 ft

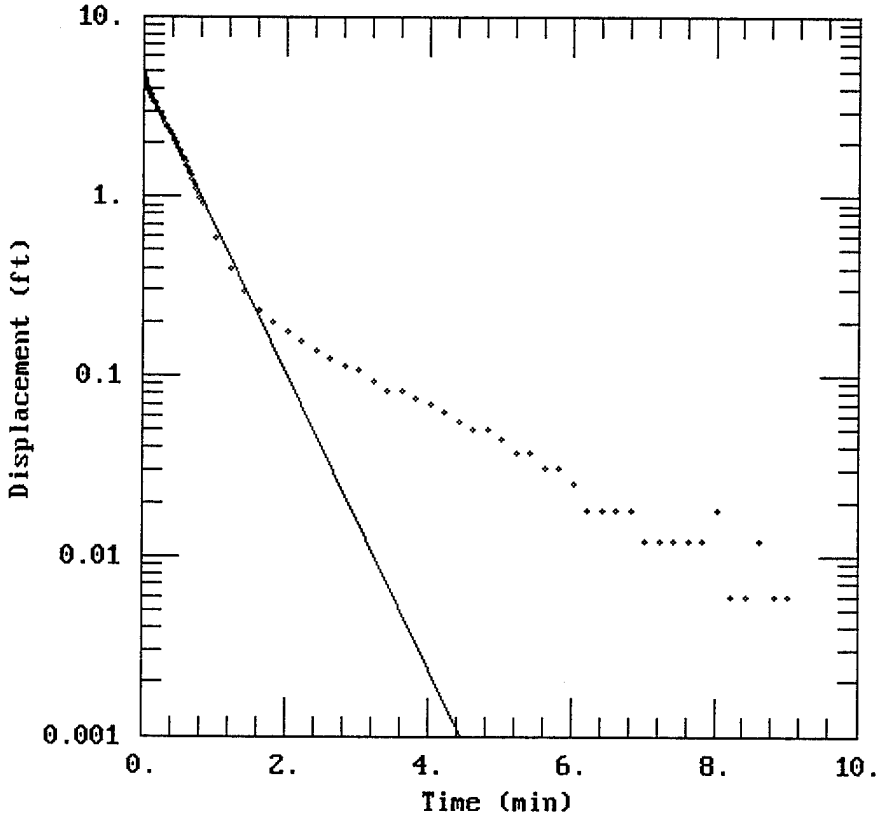
AQTESOLV

SLUG TEST DATA FOR 05-001MW

0	4.037
0.0034	3.835
0.0067	3.772
0.01	3.608
0.0134	3.463
0.0167	3.331
0.02	3.211
0.0234	3.091
0.0267	2.978
0.03	2.87
0.0334	2.763
0.0367	2.662
0.04	2.561
0.0434	2.467
0.0467	2.378
0.05	2.303
0.0534	2.202
0.0567	2.12
0.06	2.038
0.0634	1.962
0.0667	1.886
0.07	1.811
0.0734	1.741
0.0767	1.672
0.08	1.602
0.0834	1.539
0.0867	1.47
0.09	1.413
0.0934	1.35
0.0967	1.3
0.1	1.237
0.1034	1.192
0.1067	1.142
0.11	1.091
0.1134	1.041
0.1167	0.997
0.12	0.946
0.1234	0.902
0.1267	0.871
0.13	0.826
0.1334	0.788
0.1367	0.757
0.14	0.719
0.1434	0.694
0.1467	0.656
0.15	0.624
0.1534	0.605
0.1567	0.574
0.16	0.549
0.1634	0.523
0.1667	0.498
0.17	0.479
0.1734	0.454
0.1767	0.435
0.18	0.416
0.1834	0.397
0.1867	0.385
0.19	0.366
0.1934	0.353
0.1967	0.34

0.2	0.321
0.2034	0.315
0.2067	0.296
0.2234	0.258
0.24	0.208
0.2567	0.189
0.2734	0.164
0.29	0.145
0.3067	0.132
0.3234	0.126
0.34	0.107
0.3567	0.1
0.3734	0.094
0.39	0.088
0.4067	0.082
0.4234	0.082
0.44	0.075
0.4567	0.063
0.4734	0.063
0.49	0.056
0.5067	0.063
0.5234	0.056
0.54	0.056
0.5567	0.05
0.5734	0.05
0.59	0.05
0.6067	0.044
0.6234	0.044
0.64	0.044
0.6567	0.037
0.6734	0.031
0.69	0.031
0.7067	0.031
0.7234	0.031
0.74	0.031
0.7567	0.031
0.7734	0.031
0.79	0.031
0.8067	0.025
0.8234	0.025
0.84	0.018
0.8567	0.025
0.8734	0.025
1.0734	0.012
1.2734	0.012
1.4734	0
2.0734	0
2.2734	0
2.8734	0
3.0734	0

Hayward ANGS - IRP Site No. 5, MW-2



DATA SET:
HAY2
01/25/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATA:
H0= 4.974 ft
r_c= 0.083 ft
r_w= 0.334 ft
L = 15.15 ft
b = 15.15 ft
H = 15.15 ft

PARAMETER ESTIMATES:
K = 0.001252 ft/min
y0 = 4.593 ft

AQTESOLV

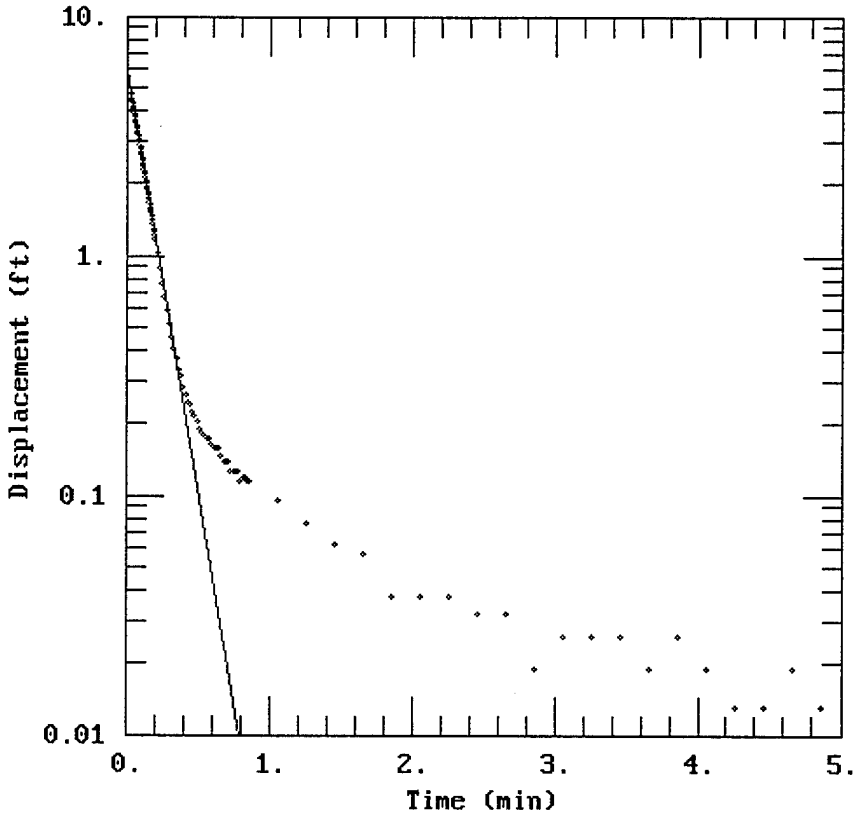
SLUG TEST DATA FOR 05-002MW

0	4.974
0.0033	4.854
0.0067	4.779
0.01	4.735
0.0133	4.665
0.0167	4.621
0.02	4.571
0.0233	4.514
0.0267	4.464
0.03	4.401
0.0333	4.363
0.0367	4.338
0.04	4.281
0.0433	4.249
0.0467	4.193
0.05	4.18
0.0533	4.136
0.0567	4.067
0.06	4.054
0.0633	4.029
0.0667	4.004
0.07	3.966
0.0733	3.934
0.0767	3.884
0.08	3.884
0.0833	3.846
0.0867	3.827
0.09	3.802
0.0933	3.77
0.0967	3.733
0.1	3.714
0.1033	3.701
0.1067	3.67
0.11	3.651
0.1133	3.619
0.1167	3.607
0.12	3.581
0.1233	3.531
0.1267	3.537
0.13	3.512
0.1333	3.481
0.1367	3.449
0.14	3.449
0.1433	3.424
0.1467	3.411
0.15	3.38
0.1533	3.367
0.1567	3.342
0.16	3.323
0.1767	3.235
0.1933	3.14
0.21	3.058
0.2267	2.97
0.2433	2.888
0.26	2.806
0.2767	2.73
0.2933	2.661
0.31	2.585
0.3267	2.516
0.3433	2.453

0.36	2.384
0.3767	2.314
0.3933	2.245
0.41	2.182
0.4267	2.119
0.4433	2.056
0.46	1.999
0.4767	1.93
0.4933	1.879
0.51	1.822
0.5267	1.766
0.5433	1.703
0.56	1.652
0.5767	1.602
0.5933	1.551
0.61	1.501
0.6267	1.45
0.6433	1.394
0.66	1.35
0.6767	1.305
0.6933	1.255
0.71	1.211
0.7267	1.16
0.7433	1.116
0.76	1.078
0.7767	1.034
0.7933	0.99
0.81	0.958
0.8267	0.921
1.0267	0.586
1.2267	0.391
1.4267	0.296
1.6267	0.233
1.8267	0.201
2.0267	0.176
2.2267	0.157
2.4267	0.138
2.6267	0.126
2.8267	0.113
3.0267	0.107
3.2267	0.094
3.4267	0.082
3.6267	0.082
3.8267	0.075
4.0267	0.069
4.2267	0.063
4.4267	0.056
4.6267	0.05
4.8267	0.05
5.0267	0.044
5.2267	0.037
5.4267	0.037
5.6267	0.031
5.8267	0.031
6.0267	0.025
6.2267	0.018
6.4267	0.018
6.6267	0.018
6.8267	0.018
7.0267	0.012

7.2267	0.012
7.4267	0.012
7.6267	0.012
7.8267	0.012
8.0267	0.018
8.2267	0.006
8.4267	0.006
8.6267	0.012
8.8267	0.006
9.0267	0.006
9.2267	0
9.4267	0
9.6267	0
9.8267	0
11.8267	0

Hayward ANGS - IRP Site No. 5, MW-3



DATA SET:
HAY3A
01/25/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATA:
H0= 4.699 ft
r_c= 0.083 ft
r_w= 0.34 ft
L = 14.54 ft
b = 14.54 ft
H = 14.54 ft

PARAMETER ESTIMATES:
K = 0.005441 ft/min
y0 = 5.942 ft

AQTESOLV

SLUG TEST DATA FOR 05-003MW

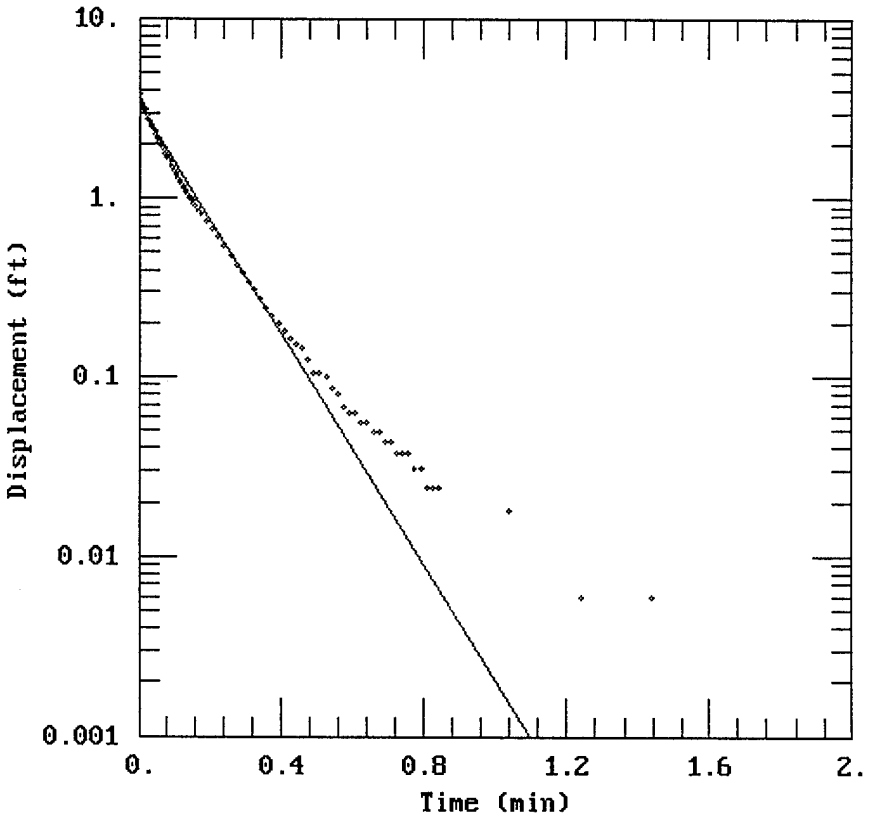
0	3.545
0.0034	2.776
0.0067	1.363
0.01	1.994
0.0134	2.537
0.0167	2.41
0.02	3.514
0.0234	4.296
0.0267	3.98
0.03	4.699
0.0334	4.497
0.0367	4.422
0.04	4.296
0.0434	4.201
0.0467	4.094
0.05	3.974
0.0534	3.88
0.0567	3.772
0.06	3.678
0.0634	3.577
0.0667	3.495
0.07	3.394
0.0734	3.293
0.0767	3.218
0.08	3.142
0.0834	3.054
0.0867	2.984
0.09	2.902
0.0934	2.827
0.0967	2.757
0.1	2.701
0.1034	2.631
0.1067	2.555
0.11	2.492
0.1134	2.41
0.1167	2.354
0.12	2.284
0.1234	2.228
0.1267	2.171
0.13	2.108
0.1334	2.051
0.1367	1.988
0.14	1.937
0.1434	1.887
0.1467	1.83
0.15	1.78
0.1534	1.729
0.1567	1.672
0.16	1.628
0.1634	1.584
0.1667	1.534
0.17	1.502
0.1734	1.452
0.1767	1.408
0.18	1.363
0.1834	1.344
0.1867	1.294
0.19	1.256
0.1934	1.218
0.1967	1.18

0.2134	1.029
0.23	0.89
0.2467	0.77
0.2634	0.676
0.28	0.587
0.2967	0.524
0.3134	0.455
0.33	0.411
0.3467	0.373
0.3634	0.335
0.38	0.316
0.3967	0.284
0.4134	0.265
0.43	0.246
0.4467	0.24
0.4634	0.221
0.48	0.215
0.4967	0.202
0.5134	0.19
0.53	0.183
0.5467	0.177
0.5634	0.171
0.58	0.171
0.5967	0.164
0.6134	0.158
0.63	0.158
0.6467	0.158
0.6634	0.145
0.68	0.139
0.6967	0.139
0.7134	0.139
0.73	0.127
0.7467	0.127
0.7634	0.127
0.78	0.127
0.7967	0.114
0.8134	0.12
0.83	0.12
0.8467	0.114
0.8634	0.114
1.0634	0.095
1.2634	0.076
1.4634	0.063
1.6634	0.057
1.8634	0.038
2.0634	0.038
2.2634	0.038
2.4634	0.032
2.6634	0.032
2.8634	0.019
3.0634	0.026
3.2634	0.026
3.4634	0.026
3.6634	0.019
3.8634	0.026
4.0634	0.019
4.2634	0.013
4.4634	0.013
4.6634	0.019
4.8634	0.013

5.0634	0.013
5.2634	0.013
5.4634	0.007
5.6634	0.013
5.8634	0.019
6.0634	0.019
6.2634	0.007
6.4634	0.019
6.6634	0.013
6.8634	0.013
7.0634	0.013
7.2634	0.013
7.4634	0.013
7.6634	0.013

CLIENT: ANGRC	COMPANY: OPERATIONAL TECHNOLOGIES CORP
LOCATION: HAYWARD ANGS	PROJECT: 1315-189 DO 0031

Hayward ANGS - IRP Site No. 4, BG001MW



DATA SET:
BG001MW.DAT
04/28/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATA:
H0= 3.802 ft
r_c= 0.083 ft
r_w= 0.33 ft
L = 23.98 ft
b = 23.98 ft
H = 23.98 ft

PARAMETER ESTIMATES:
K = 0.01902 ft/min
y0 = 3.243 ft

AQTESOLV

SLUG TEST DATA FOR BS-001MW

0	3.802
0.0033	3.544
0.0066	3.374
0.01	3.279
0.0133	3.147
0.0166	3.103
0.02	2.97
0.0233	2.888
0.0266	2.787
0.03	2.68
0.0333	2.586
0.0366	2.51
0.04	2.428
0.0433	2.359
0.0466	2.283
0.05	2.214
0.0533	2.144
0.0566	2.075
0.06	2.018
0.0633	1.955
0.0666	1.892
0.07	1.841
0.0733	1.785
0.0766	1.728
0.08	1.684
0.0833	1.64
0.0866	1.589
0.09	1.545
0.0933	1.501
0.0966	1.431
0.1	1.419
0.1033	1.375
0.1066	1.337
0.11	1.299
0.1133	1.267
0.1166	1.236
0.12	1.198
0.1233	1.166
0.1266	1.141
0.13	1.116
0.1333	1.091
0.1366	1.059

0.14	1.04
0.1433	1.009
0.1466	0.983
0.15	0.971
0.1533	0.939
0.1566	0.92
0.16	0.901
0.1633	0.882
0.1666	0.857
0.17	0.845
0.1733	0.826
0.19	0.75
0.2066	0.681
0.2233	0.611
0.24	0.548
0.2566	0.485
0.2733	0.428
0.29	0.384
0.3066	0.34
0.3233	0.308
0.34	0.277
0.3566	0.245
0.3733	0.22
0.39	0.201
0.4066	0.182
0.4233	0.163
0.44	0.15
0.4566	0.144
0.4733	0.125
0.49	0.106
0.5066	0.106
0.5233	0.1
0.54	0.087
0.5566	0.081
0.5733	0.068
0.59	0.062
0.6066	0.062
0.6233	0.056
0.64	0.056
0.6566	0.049
0.6733	0.049
0.69	0.043
0.7066	0.043
0.7233	0.037
0.74	0.037
0.7566	0.037

0.7733	0.031
0.79	0.031
0.8066	0.024
0.8233	0.024
0.84	0.024
1.04	0.018
1.24	0.006
1.44	0.006
1.64	0
2.24	0

APPENDIX F

CHEMICAL ANALYSES RESULTS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

EXPLANATION OF TABLE ORGANIZATION AND NOMENCLATURE

Each table in the appendix is a matrix which consists of samples (listed in columns) and analyses (listed in rows). In some cases, the matrix consists of more samples (columns) and/or more analyses (rows) than can be presented on a single sheet. The method of presentation used is that for a specific set of parameters (rows) with the results for all the samples (columns) analyzed presented. The table continuation pages are labelled as such for each parameter. For the next set of parameters, the results are given for all the samples analyzed. The physical pages themselves are numbered sequentially as they appear in this appendix.

The following nomenclature is used in the tables:

Parameter:	Parameter for which the analysis was performed.
Location No.:	The sampling location identifier.
Sample Date:	The sampling date.
Lab Sample No.:	The numeric identifier assigned to the sample by the laboratory.
U:	Indicates sample was analyzed for but was not detected.

Table F.1
Summary of Volatile Organic Compounds Detected in Soil QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	04-004BH 1.5' Dup 07/28/94 941849-0011	04-004BH 7' MS 07/28/94 941849-0014	04-004BH 7' MSD 07/28/94 941849-0015	04-004BH 11.5' Dup 07/28/94 941849-0017
VOC Matrix:	Soil	Soil	Soil	Soil
Acetone	10U	10U	10U	10U
Benzene	5U	60	64	5U
Bromodichloromethane	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U
Chlorobenzene	5U	58	60	5U
Chlorodibromomethane	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U
1,1-Dichloroethene	5U	74	76	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5
4-Methyl-2-pentanone	10U	10U	10U	10U
Styrene	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U

Table F.1 (Continued)
Summary of Volatile Organic Compounds Detected in Soil QA/QC Samples
216 EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: Sample Date: Lab Sample No.:	04-004BH 1.5' Dup 07/28/94 941849-0011	04-004BH 7' MS 07/28/94 941849-0014	04-004BH 7' MSD 07/28/94 941849-0015	04-004BH 11.5' Dup 07/28/94 941849-0017
VOC Matrix:	Soil	Soil	Soil	Soil
Tetrachloroethane	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U
Trichloroethane	5U	58	61	5U
Toluene	5U	59	61	5U
Vinyl acetate	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U

Table F.1 (Continued)
Summary of Volatile Organic Compounds Detected in Soil QA/QC Samples
216 EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	FB-1 07/28/94 941849-0018	EB-2 07/28/94 941849-0019	Trip Blank 07/22/94 941849-0020	Trip Blank 07/22/94 941849-0021	Trip Blank 08/12/94 941996-0003
VOC Matrix:	Water	Water	Water	Water	Water
Acetone	13	10U	10U	10U	10U
Benzene	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U
Chlorodibromomethane	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U

Table F.1 (Concluded)
Summary of Volatile Organic Compounds Detected in Soil QA/QC Samples
216 EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	FB-1 07/28/94 941849-0018	EB-2 07/28/94 941849-0019	Trip Blank 07/22/94 941849-0020	Trip Blank 07/22/94 941849-0021	Trip Blank 08/12/94 941996-0003
VOC / Matrix:	Water	Water	Water	Water	Water
Tetrachloroethane	5U	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U

VOC – Volatile Organic Compounds.
U – Compound analyzed for but not detected. Number indicates the detection limit.
BH – Borehole.
Dup – Duplicate.
FB – Field Blank.
EB – Equipment Blank.
MS – Matrix Spike.
MSD – Matrix Spike Duplicate.

Table F.2
Summary of TPH Compounds Detected in Soil QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: Sample Date: Lab Sample No.:	04-004BH 1.5' Dup 07/28/94 941849-0011	04-004BH 7' MS 07/28/94 941849-0014	04-004BH 7' MSD 07/28/94 941849-0015	04-004BH 11.5' Dup 07/28/94 941849-0017	FB-1 07/28/94 941849-0018	EB-2 07/28/94 941849-0019
TPH Matrix:	Soil	Soil	Soil	Soil	Water	Water
Diesel (mg/kg)	10U	510	520	10U	10U	10U
Gasoline (μg/kg)	500U	1,000	1,000	500U	100U	100U

U – Compound analyzed for but not detected. Number indicates the detection limit.
TPH – Total Petroleum Hydrocarbons.
BH – Borehole.
Dup – Duplicate.
FB – Field Blank.
EB – Equipment Blank.
MS – Matrix Spike.
MSD – Matrix Spike Duplicate.
mg/kg – milligrams per kilogram.
μg/kg – micrograms per kilogram.

Table F.3
Summary of Lead Detected in Soil QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in milligrams per kilogram for soil or milligrams per liter for water.)

Location: Sample Date: Lab Sample No.:	04-004BH 1.5' Dup 07/28/94 941849-0011	04-004BH 7' MS 07/28/94 941849-0012	04-004BH 7' MSD 07/28/94 941849-0015	04-004BH 11.5' Dup 07/28/94 941849-0017	FB-1 07/28/94 941849-0018	EB-2 07/28/94 941849-0019
Metal Matrix:	Soil	Soil	Soil	Soil	Water	Water
Lead	20	98	90	5U	0.005U	0.005U

U – Compound analyzed for but not detected. Number indicates the detection limit.
Dup – Duplicate.
BH – Borehole.
FB – Field Blank.
EB – Equipment Blank.
MS – Matrix Spike.
MSD – Matrix Spike Duplicate.

Table F.4
Summary of Volatile Organic Compounds Detected in Water QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	BG-001MW A Dup 08/10/94 941979-0004	FB-2 08/10/94 941979-0007	EB-2 08/10/94 941979-0008	Trip Blank 08/10/94 941979-0009	04-002MW Dup 12/07/94 943126-0004	FB 12/07/94 943126-0005	EB 12/07/94 943126-0006	Trip Blank 12/07/94 943126-0007
VOC Matrix:	Water	Water	Water	Water	Water	Water	Water	Water
Acetone	10U	10U	11	10U	50U	23	26	10U
Benzene	5U	5U	5U	5U	25U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	25U	5U	5U	5U
Bromoform	5U	5U	5U	5U	25U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	50U	10U	10U	10U
2-Butanone	10U	10U	14	10U	50U	18	18	10U
Carbon disulfide	5U	5U	5U	5U	25U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	25U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	25U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	50U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	50U	10U	10U	10U
Chloroform	5U	5U	5U	5U	25U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	50U	10U	10U	10U
Dibromochloromethane	5U	5U	5U	5U	25U	5U	5U	5U
1,1-Dichloroethane	5U	5U	5U	5U	25U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	25U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	25U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	25U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	25U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	25U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	25U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	25U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	50U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	25U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	50U	10U	10U	10U
Styrene	5U	5U	5U	5U	25U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	25U	5U	5U	5U

Table F.4 (Concluded)
Summary of Volatile Organic Compounds Detected in Water QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	BG-001MW A Dup 08/10/94 941979-0004	FB-2 08/10/94 941979-0007	EB-2 08/10/94 941979-0008	Trip Blank 08/10/94 941979-0009	04-002MW Dup 12/07/94 943126-0004	FB 12/07/94 943126-0005	EB 12/07/94 943126-0006	Trip Blank 12/07/94 943126-0007
VOC Matrix:	Water	Water	Water	Water	Water	Water	Water	Water
Tetrachloroethane	5U	5U	5U	5U	25U	5U	5U	5U
Toluene	5U	5U	5U	5U	25U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U	25U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U	25U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U	25U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	50U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	50U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	25U	5U	5U	5U

U – Compound analyzed for but not detected.
Number indicates the detection limit.
VOC – Volatile Organic Compounds.

BG – Background.
MW – Monitoring Well.
Dup – Duplicate.

FB – Field Blank.
EB – Equipment Blank.

Table F.5
Summary of TPH Compounds Detected in Water QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	BG-001MW A Dup 08/10/94 941979-0004	FB-2 08/10/94 941979-0007	EB-2 08/10/94 941979-0008	04-002MW Dup 12/07/94 943126-0004	FB 12/07/94 943126-0005	EB 12/07/94 943126-0006	Trip Blank 12/07/94 943126-0007
TPH Matrix:	Water	Water	Water	Water	Water	Water	Water
Diesel (mg/L)	10U	10U	10U	920	50U	50U	N/A
Gasoline (μg/L)	100U	100U	100U	1,200	100U	100U	100U

U – Compound analyzed for but not detected.
Number indicates the detection limit.
TPH – Total Petroleum Hydrocarbons.
Dup – Duplicate.
MW – Monitoring Well.
FB – Field Blank.
mg/L – milligrams per liter.
μg/L – micrograms per liter.
EB – Equipment Blank.
N/A – Not Applicable.
BG – Background.

Table F.6
Summary of Lead Detected in Water QA/QC Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in milligrams per liter)

Location: / Sample Date: / Lab Sample No.:	BG-001MW A Dup 08/10/94 941979-0004	FB-2 08/10/94 941979-0007	EB-2 08/10/94 941979-0008	04-002MW Dup 12/07/94 943126-0004	FB 12/07/94 943126-0005	EB 12/07/94 943126-0005
Metal Matrix:	Water	Water	Water	Water	Water	Water
Lead	6.7	1U	7.4	0.05U	0.005U	0.005U

U – Compound analyzed for but not detected.
Number indicates the detection limit.
BG – Background.
Dup – Duplicate.
FB – Field Blank.
EB – Equipment Blank.
MW – Monitoring Well.

Table F.7
Summary of Volatile Organic Compounds Detected in QA/QC Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	05-001RBH 11.5' Dup 08/06/94 941953-0003	05-005RBH 11.5' - 13' Dup 08/05/94 941941-0007	05-005RBH 6.5' - 8' MS 08/05/94 941941-0003	05-005RBH 6.5' - 8' MSD 08/05/94 941941-0004	FB-1 08/05/94 941941-0008
VOC Matrix:	Soil	Soil	Soil	Soil	Water
Acetone	10U	10U	10U	27	10U
Benzene	5U	5U	58	58	5U
Bromodichloromethane	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	54	55	5U
Chlorodibromomethane	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U	47
Chloromethane	10U	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	70	67	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U
Methylene Chloride	5U	5	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	12
Styrene	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U

Table F.7 (Continued)
Summary of Volatile Organic Compounds Detected in QA/QC Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	05-001RBH 11.5' Dup 08/06/94 941953-0003	05-005RBH 11.5' - 13' Dup 08/05/94 941941-0007	05-005RBH 6.5' - 8' MS 08/05/94 941941-0003	05-005RBH 6.5' - 8' MSD 08/05/94 941941-0004	FB-1 08/05/94 941941-0008
VOC Matrix:	Soil	Soil	Soil	Soil	Water
Tetrachloroethene	5U	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U	5U
Trichloroethene	5U	5U	56	57	5U
Toluene	5U	5U	57	57	5U
Vinyl acetate	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U

Table F.7 (Continued)
Summary of Volatile Organic Compounds Detected in QA/QC Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	FB-2 08/06/94 941953-0015	EB-5 08/05/94 941941-0009	EB-6 08/06/94 941953-0014	Trip Blank 08/06/94 941953-0016	Trip Blank 08/05/94 941941-0010
VOC Matrix:	Water	Water	Water	Water	Water
Acetone	10U	10U	11	10U	10U
Benzene	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U
2-Butanone	10U	10U	14	10U	10U
Carbon disulfide	52	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U
Chlorodibromomethane	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U
Chloroform	26	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U

Table F.7 (Concluded)
Summary of Volatile Organic Compounds Detected in QA/QC Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	FB-2 08/06/94 941953-0015	EB-5 08/05/94 941941-0009	EB-6 08/06/94 941953-0014	Trip Blank 08/06/94 941953-0016	Trip Blank 08/05/94 941941-0010
VOC Matrix:	Water	Water	Water	Water	Water
Tetrachloroethene	5U	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U	5U
Trichloroethene	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U

U – Compound analyzed for but not detected. Number indicates the detection limit.
VOC – Volatile Organic Compounds.
Dup – Duplicate.
RBH – Resampled Borehole.
MS – Matrix Spike.
MSD – Matrix Spike Duplicate.
FB – Field Blank.
EB – Equipment Blank.

Table F.8
Summary of TPH Compounds Detected in QA/QC Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	05-001RBH 11.5' Dup	05-005RBH 11.5' - 13' Dup	05-005RBH 6.5' - 8' MS	05-005RBH 6.5' - 8' MSD	FB-1
Sample Date:	08/06/94	08/05/94	08/05/94	08/05/94	08/05/94
Lab Sample No.:	941953-0003	941941-0007	941941-0003	941941-0004	941941-0008
TPH Matrix:	Soil	Soil	Soil	Soil	Water
Diesel	10U	10U	470	480	10U
Gasoline	100U	100U	840	1,000	100U

Location:	FB-2	EB-5	EB-6
Sample Date:	08/06/94	08/05/94	08/06/94
Lab Sample No.:	941953-0015	941941-0009	941953-0014
TPH Matrix:	Water	Water	Water
Diesel	10U	10U	620
Gasoline	100U	100U	100U

U – Compound analyzed for but not detected. Number indicates the detection limit.
Dup – Duplicate.
TPH – Total Petroleum Hydrocarbons.
RBH – Resampled Borehole.
MS – Matrix Spike.
MSD – Matrix Spike Duplicate.
FB – Field Blank.
EB – Equipment Blank.

Table F.9
Summary of Lead Detected in QA/QC Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	05-001RBH 11.5' Dup 08/06/94 941953-0003	05-005RBH 11.5' - 13' Dup 08/05/94 941941-0007	05-005RBH 6.5' - 8' MS 08/05/94 941941-0003	05-005RBH 6.5' - 8' MSD 08/05/94 941941-0004	FB-1 08/05/94 941941-0008
Metal Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Water**
Lead	5.0U	10U	100	97	0.100U

Location: Sample Date: Lab Sample No.:	FB-2 08/06/94 941953-0015	EB-5 08/05/94 941941-0009	EB-6 08/06/94 941953-0014
Metal Matrix:	**Water**	**Water**	**Water**
Lead	0.050U	0.100U	0.050U

U – Compound analyzed for but not detected. Number indicates the detection limit.
Dup – Duplicate.
RBH – Resampled Borehole.
MS – Matrix Spike.
MSD – Matrix Spike Duplicate.
FB – Field Blank.
EB – Equipment Blank.

Table F.10
Summary of Volatile Organic Compounds Detected in QA/QC Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	05-003MW A Dup 08/11/94 941987-0007	Trip Blank 08/12/94 941987-0006	Trip Blank 08/10/94 941966-0002	FB 08/09/94 941966-0004	EB 08/09/94 941966-0005
VOC Matrix:	Water	Water	Water	Water	Water
Acetone	10U	10U	10U	10U	10U
Benzene	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	10U
Dibromochloromethane	5U	5U	5U	5U	5U
1,1-Dichloroethane	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U

Table F.10 (Continued)
Summary of Volatile Organic Compounds Detected in QA/QC Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	05-003MW A Dup 08/11/94 941987-0007	Trip Blank 08/12/94 941987-0006	Trip Blank 08/10/94 941966-0002	FB 08/09/94 941966-0004	EB 08/09/94 941966-0005
VOC Matrix:	Water	Water	Water	Water	Water
Tetrachloroethene	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U	5U
Trichloroethene	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U

Table F.10 (Continued)
Summary of Volatile Organic Compounds Detected in QA/QC Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	Trip Blank 12/08/94 943126-0011	Trip Blank 12/07/94 943126-0007	EB 12/07/94 943126-0006	FB 12/07/94 943126-0005
VOC Matrix:	Water	Water	Water	Water
Acetone	10U	10U	26	23
Benzene	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U
2-Butanone	10U	10U	18	18
Carbon disulfide	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U
Dibromochloromethane	5U	5U	5U	5U
1,1-Dichloroethane	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U
Styrene	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U

Table F.10 (Concluded)
Summary of Volatile Organic Compounds Detected in QA/QC Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	Trip Blank 12/08/94 943126-0011	Trip Blank 12/07/94 943126-0007	EB 12/07/94 943126-0006	FB 12/07/94 943126-0005
VOC Matrix:	Water	Water	Water	Water
Tetrachloroethene	5U	5U	5U	5U
Toluene	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U
Trichloroethene	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U

U – Compound analyzed for but not detected. Number indicates the detection limit.

Dup – Duplicate.
MW – Monitoring Well.
FB – Field Blank.

EB – Equipment Blank.
VOC – Volatile Organic Compound.

Table F.11
Summary of TPH Compounds Detected in QA/QC Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	05-003MW A Dup 08/11/94 941987-0007	FB 08/09/94 941966-0004	EB 08/09/94 941966-0005	Trip Blank 12/08/94 943126-0011	Trip Blank 12/07/94 943126-0007	EB 12/07/94 943126-0006	FB 12/07/94 943126-0005
TPH Matrix:	Water	Water	Water	Water	Water	Water	Water
Diesel	10U	10U	10U	NA	NA	50U	50U
Gasoline	100U	100U	100U	100U	100U	100U	100U

U – Compound analyzed for but not detected. Number indicates the detection limit.

Dup – Duplicate.
TPH – Total Petroleum Hydrocarbons.
MW – Monitoring Well.

NA – Not Applicable.
FB – Field Blank.
EB – Equipment Blank.

Table F.12
Summary of Lead Detected in QA/QC Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	05-003MW A Dup 08/11/94 941987-0007	FB 08/09/94 941966-0004	EB 08/09/94 941966-0005	Trip Blank 12/08/94 943126-0011	Trip Blank 12/07/94 943126-0007	EB 12/07/94 943126-0006	FB 12/07/94 943126-0005
Metal Matrix:	Water	Water	Water	Water	Water	Water	Water
Lead	1.0U	1.0U	1.0U	NA	NA	0.005U	0.005U

U – Compound analyzed for but not detected. Number indicates the detection limit.

Dup – Duplicate.
MW – Monitoring Well.
NA – Not Applicable.

FB – Field Blank.
EB – Equipment Blank.

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Hayward Air National Guard Site Investigation
Hayward, California 1315-115-S002
Core Laboratories Inc., Anaheim, California
Data Validation Brief Summary

SAMPLE:	***SOIL***
BG-001BH 1.5'	*Lab ID# 941996-0001*
VOA/SW8240 =	**Hit on Carbon Disulfide at 8 ug/kg with a detection limit of 5 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
BG-001BH 9'	*Lab ID# 941996-0002*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
BG-001MW A	*Lab ID# 941979-0003*
VOA/SW8240 =	**Hit was detected on 4-Methyl-2-Pentanone at 12.38 ug/l with a detection limit of 10 ug/l. This was not noted on the Report Form but was on the Quant report. This needs to be corrected. (Hit was not confirmed by mass spectra. Reporting result is valid.)* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
BG-001MW A	*Lab ID# 941979-0004*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
BG-001MW B	*Lab ID# 941979-0006*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 250 ug/l with the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
04-001MW A	*Lab ID# 941979-0001*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
04-001MW B	*Lab ID# 941987-0001*
VOA/SW8240 =	**A hit was detected above the detection limit for Total Xylene at 7.74 ug/l with a detection limit of 5 ug/l. This was not reported on the Report Form and needs to be corrected. (Individual xylenes were BDL. Reporting results are valid.)* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 530 ug/l with a detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
04-002MW A	*Lab ID# 941979-0005*
VOA/SW8240 =	**Hits were detected on Acetone at 30.03 ug/l, 4-Methyl-2-Pentanone at 12.36 ug/l, 2-Butanone at 132.49 ug/l, and 2-Hexanone at 32.88 ug/l with detection limits at 10 ug/l. Hits were also detected on 1,1,2-Trichloroethane at 6.63 ug/l and Total Xylene at 8.61 ug/l with detection limits at 5 ug/l. These hits were not reported on the Report Form but are detected on the Quant Report. This needs corrected. (Hit was not confirmed by mass spectra. Reporting result is valid.)* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 1000 ug/l with a detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 8.3 mg/l with a detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
04-002MW B	*Lab ID# 941979-0002*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-001BH 1'	*Lab ID# 941849-0004*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 210 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: **SOIL**

04-001BH 11' Lab ID# 941849-0005

VOA/SW8240 =

*Acetone was detected at 14 ug/kg with a detection limit of 10 ug/kg.
*All met 14 day holding time.
*COC information verified.
*All surrogate recoveries were within QC limits.
*Blanks were clean and no compounds were detected above the detection limits.
*Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)

TPH/SW8015-Gas=

*Met 28 day holding time.
*COC information verified.
*No hit was detected above the detection limit of 500 ug/kg.
*Blanks were clean of any hits above the detection limits.

TPH/SW8015-Diesel=

*Met 28 day holding time.
*COC information verified.
*No hit was detected above the detection limit of 10 mg/kg.
*Blanks were clean of any hits above the detection limits.

Total Lead SW6010=

*Total lead was detected at 7.3 mg/kg above the detection limit of 5 mg/kg.
*Met 6 month holding times.
*COC information verified.

SAMPLE:	***SOIL***
04-001BH 21'	*Lab ID# 941849-0006*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 8.3 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-002BH 1'	*Lab ID# 941849-0001*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 11 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-002BH 6'	*Lab ID# 941849-0002*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 10 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-002BH 11'	*Lab ID# 941849-0003*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-003BH 1'	*Lab ID# 941849-0007*
VOA/SW8240 =	**Methylene Chloride was detected at 6 ug/kg with a detection limit of 5 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 59 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-003BH 6'	*Lab ID# 941849-0008*
VOA/SW8240 =	**Methylene Chloride was detected at 6 ug/kg with a detection limit of 5 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 11 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-003BH 11'	*Lab ID# 941849-0009*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 8.6 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 1.5'	*Lab ID# 941849-0010*
VOA/SW8240 =	**Methylene Chloride was detected at 5 ug/kg with a detection limit of 5 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 590 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 1.5' DUP	*Lab ID# 941849-0011*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 20 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 6'	*Lab ID# 941849-0012*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample. (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 15 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 7'	*Lab ID# 941849-0013*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 14 mg/kg above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 7' MS	*Lab ID# 941849-0014*
VOA/SW8240 =	**All spiked compounds were detected within QC Range.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **All spiked compounds were detected within QC Range.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **All spiked compounds were detected within QC Range.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Spiked Total lead was detected at 98 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 7' MSD	*Lab ID# 941849-0015*
VOA/SW8240 =	**All spiked compounds were detected within QC Range. All RPD's were within QC Range.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **All spiked compounds were detected within QC Range. All RPD's were within QC Range.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **All spiked compounds were detected within QC Range. All spiked compounds were within QC Range.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Spiked Total lead was detected at 90 mg/kg. RPD was within QC Range.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 11.5'	*Lab ID# 941849-0016*
VOA/SW8240 =	**Methylene Chloride was detected at 6 ug/kg with a detection limit of 5 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***SOIL***
04-004BH 11.5' DUP	*Lab ID# 941849-0017*
VOA/SW8240 =	**Methylene Chloride was detected at 5 ug/kg with a detection limit of 5 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample? (Sample results remain valid.)*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: **WATER**

EB-1	Lab ID# 941849-0018
VOA/SW8240 =	*Acetone was detected at 13 ug/l with a detection limit of 10 ug/l. *All met 14 day holding time. *COC information verified. *All surrogate recoveries were within QC limits. *Blanks were clean and no compounds were detected above the detection limits.
TPH/SW8015-Gas=	*Met 28 day holding time. *COC information verified. *No hit was detected above the detection limit of 100 ug/kg. *Blanks were clean of any hits above the detection limits.
TPH/SW8015-Diesel=	*Met 28 day holding time. *COC information verified. *No hit was detected above the detection limit of 10 mg/l. *Blanks were clean of any hits above the detection limits.
Total Lead SW6010=	*Total lead was not detected above the detection limit of .005 mg/l. *Met 6 month holding times. *COC information verified.

SAMPLE:	***WATER***
FB-2	*Lab ID# 941953-0015*
VOA/SW8240 =	**Hit on Carbon Disulfide at 52 ug/l and Chloroform at 26 ug/l with detection limits of 5 ug/l.* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 0.050 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	***WATER***
FIELD BLANK	*Lab ID# 941966-0004*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: ***WATER***

TRIP BLANK *Lab ID# 941996-0003*

VOA/SW8240 = **No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: ***WATER***

TRIP BLANK *Lab ID# 941987-0006*

VOA/SW8240 = **A hit was detected above the detection limit for Acetone at 17.38 with a detection limit of 10 ug/l. This was not reported on the Report Form and needs to be corrected. (Hit was not confirmed by mass spectra. Reporting result is valid.)*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: ***WATER***

TRIP BLANK *Lab ID# 941953-0016*

VOA/SW8240 = **No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: ***WATER***

TRIP BLANK *Lab ID# 941979-0009*

VOA/SW8240 = **No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: WATER

05-001 MW A — Lab ID# 941966-0001

VOA/SW8240 =
*No hits were detected above the assigned detection limits.
*Did not meet 7 day holding time, expired over one day.
*COC information verified.
*All surrogate recoveries were within QC limits.
*Blanks were clean and no compounds were detected above the detection limits.

TPH/SW8015-Gas=
*Met 28 day holding time.
*COC information verified.
*Hit was detected at 550 ug/l with a detection limit of 100 ug/l.
*Blanks were clean of any hits above the detection limits.

TPH/SW8015-Diesel=
*Met 28 day holding time.
*COC information verified.
*No hit was detected above the detection limit of 10 mg/l.
*Blanks were clean of any hits above the detection limits.

Total Lead SW6010=
*Total lead was not detected above the detection limit of .005 mg/l.
*Met 6 month holding times.
*COC information verified.

SAMPLE:	*WATER*
05-001 MW B	*Lab ID# 941966-0003*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Did not meet 7 day holding time, expired over one day.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 160 ug/l with a detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of .005 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
05-002MW A	*Lab ID# 941987-0004*
VOA/SW8240 =	*<u>*A hits were detected above the detection limit for 4-Methyl-2-Pentanone at 17.43 ug/l and 2-Hexanone at 31.37 ug/l with detection limits of 10 ug/l. Also, a hit was detected above the detection limit for 1,1,2-Trichloroethane at 20.97 ug/l with a detection limit of 5 ug/l. These were not reported on the Report Form and need to be corrected.</u>* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 1200 ug/l with a detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
05-002MW B	*Lab ID# 941987-0005*
VOA/SW8240 =	**A hits were detected above the detection limit for 4-Methyl-2-Pentanone at 11.97 ug/l, 2-Hexanone at 17.38 ug/l, and Acetone at 67.31 with detection limits of 10 ug/l. Also, a hit was detected above the detection limit for 1,1,2-Trichloroethane at 14.12 ug/l with a detection limit of 5 ug/l. These were not reported on the Report Form and need to be corrected.* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 1100 ug/l with a detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
05-003MW A	*Lab ID# 941987-0002*
VOA/SW8240 =	*<u>*A hit was detected above the detection limit for 2-Hexanone at 35.35 ug/l with a detection limit of 10 ug/l. This was not reported on the Report Form and needs to be corrected.</u>* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *WATER*

05-003MW A DupLab ID# 941987-0007

VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
05-003MW B	*Lab ID# 941987-0003*
VOA/SW8240 =	*<u>*A hit was detected above the detection limit for 4-Methyl-2-Pentanone at 28.79 ug/l with a detection limit of 10 ug/l. This was not reported on the Report Form and needs to be corrected.</u>* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *SOIL*

05-001R-BH 1.5' Lab ID# 941953-0001

VOA/SW8240 =

**Hit was detected on Acetone at 31.17 ug/kg but was not reported on the Report Form and needs to be corrected.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*
**Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 100 ug/kg.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 10 mg/kg.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead was detected at 16 mg/kg with a detection limit of 5 mg/kg.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE:	*SOIL*
05-001R-BH 11.5'	*Lab ID# 941953-0002*
VOA/SW8240 =	**No hit was detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *SOIL*

05-001R-BH 11.5' DUP *Lab ID# 941953-0003*

VOA/SW8240 =

**No hit was detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*
**Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 100 ug/kg.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 10 mg/kg.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead was not detected above the detection limit of 5 mg/kg.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE:	*SOIL*
05-001R-BH 14'-15.5'	*Lab ID# 941953-0004*
VOA/SW8240 =	**Hits were detected on Acetone at 23.72 ug/kg and 4-Methyl-2-Pentanone at 16.78 ug/kg with the detection limits of 10 ug/kg. These hits were reported on the Quant Report but not on the Report Form. This needs to be corrected.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*SOIL*
05-002R-BH 2'	*Lab ID# 941953-0005*
VOA/SW8240 =	**Hit on Ethylbenzene at 6 ug/kg with a detection limit of 5 ug/kg. A hit on Total Xylenes was at 11.32 ug/kg with a detection limit of 5 ug/kg. These Xylene hits were reported on the Quant Report but not on the Report Form. This needs to be corrected.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 2200 ug/kg with the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *SOIL*

05-002R-BH 11' Lab ID# 941953-0006

VOA/SW8240 =	**Hits on Acetone at 59 ug/kg with a detection limit of 50 ug/kg and Carbon Disulfide at 30 ug/kg with a detection limit of 25 ug/kg. A dilution of 5x was performed on this analysis.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 1100 ug/kg with the detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *SOIL*

05-002R-BH 15' Lab ID# 941953-0007

VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 260 ug/kg with the detection limit of 100 ug/kg. The Report Form shows ND with a detection limit of 500 ug/kg. This needs to be corrected.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:

SOIL

05-003R-BH 1.5' Lab ID# 941953-0008

VOA/SW8240 =

*Hit on Carbon Disulfide at 6 ug/kg with a detection limit of 5 ug/kg. Acetone was detected at 42.77 ug/kg, 2-Butanone detected at 143.66 ug/kg, and 4-Methyl-2-Pentanone detected at 24.18 ug/kg with detection limits of 10 ug/kg. These were not stated on the Report Form but were detected on the Quant report. These need corrections.
*All met 14 day holding time.
*COC information verified.
*All surrogate recoveries were within QC limits.
*Blanks were clean and no compounds were detected above the detection limits.
*Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?

TPH/SW8015-Gas=

*Met 28 day holding time.
*COC information verified.
*No hit was detected above the detection limit of 100 ug/kg.
*Blanks were clean of any hits above the detection limits.

TPH/SW8015-Diesel=

*Met 28 day holding time.
*COC information verified.
*No hit was detected above the detection limit of 10 mg/kg.
*Blanks were clean of any hits above the detection limits.

Total Lead SW6010=

*Total lead was detected at 16 mg/kg with a detection limit of 5 mg/kg.
*Met 6 month holding times.
*COC information verified.

SAMPLE: *SOIL*

05-003R-BH 11' Lab ID# 941953-0009

VOA/SW8240 =

**Hit on Carbon Disulfide at 30 ug/kg and Benzene at 30 ug/kg with detection limits of 25 ug/kg. Acetone was detected at 37.89 ug/kg, 2-Butanone detected at 938.36 ug/kg, 2-Hexanone detected at 142.41 ug/kg, and 4-Methyl-2-Pentanone detected at 218.33 ug/kg with detection limits of 50 ug/kg. 1,1,2-Trichloroethane was detected at 62.91 ug/kg a with detection limit of 25 ug/kg. These compounds were not stated on the Report Form but were detected on the Quant report. These need corrections.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*
**Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**Hit was detected at 3200 ug/kg with a detection limit of 500 ug/kg.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 10 mg/kg.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead was detected at 8.5 mg/kg with a detection limit of 5 mg/kg.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE: SOIL

05-003R-BH 15' Lab ID# 941953-0010

VOA/SW8240 =

*Hit on Carbon Disulfide at 30 ug/kg and Benzene at 30 ug/kg with detection limits of 25 ug/kg. Hit on 4-Methyl-2-Pentanone was detected at 16.54 ug/kg with detection limit of 10 ug/kg. This compound was not stated on the Report Form but were detected on the Quant report. This needs correction.
*All met 14 day holding time.
*COC information verified.
*All surrogate recoveries were within QC limits.
*Blanks were clean and no compounds were detected above the detection limits.
*Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?

TPH/SW8015-Gas=

*Met 28 day holding time.
*COC information verified.
*Hit was detected at 1200 ug/kg with a detection limit of 500 ug/kg.
*Blanks were clean of any hits above the detection limits.

TPH/SW8015-Diesel=

*Met 28 day holding time.
*COC information verified.
*No hit was detected above the detection limit of 10 mg/kg.
*Blanks were clean of any hits above the detection limits.

Total Lead SW6010=

*Total lead was detected at 11 mg/kg with a detection limit of 5 mg/kg.
*Met 6 month holding times.
*COC information verified.

SAMPLE: *SOIL*

05-004R-BH 1.5' Lab ID# 941953-0011

VOA/SW8240 =

**Hit on Ethylbenzene at 23 ug/kg with detection limits of 5 ug/kg. Hit on 2-Butanone at 470.60 ug/kg, 2-Hexanone at 28.41 ug/kg with detection limits of 10 ug/kg. Hits on 1,1,2-Trichloroethane at 51.27 ug/kg and Total Xylenes at 45.19 ug/kg with detection limits of 5 ug/kg. These compounds were not stated on the Report Form but were detected on the Quant report. These need correction.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*
**Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 100 ug/kg. The Report form states a detection limit of 500 ug/kg, this needs to be corrected.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 10 mg/kg.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead was detected at 37 mg/kg with a detection limit of 5 mg/kg.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE:	*SOIL*
05-004R-BH 6'	*Lab ID# 941953-0012*
VOA/SW8240 =	**Hit on 2-Butanone at 32,839 ug/kg, 2-Hexanone at 12,622 ug/kg, 4-Methyl-2-Pentanone at 2,983 with detection limits of 1000 ug/kg. Hits on 1,1,2-Trichloroethane at 6,603 ug/kg, Ethylbenzene at 3,108 ug/kg, and Total Xylenes at 6,460 ug/kg with detection limits of 500 ug/kg. These compounds were not stated on the Report Form but were detected on the Quant report. These need correction. A dilution of 100x was performed.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 19,000 ug/kg with a detection limit of 500 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 16 mg/kg with a detection limit of 5 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *SOIL*

05-004R-BH 11' Lab ID# 941953-0013

VOA/SW8240 =

**Hit on 2-Butanone at 38,500 ug/kg, 2-Hexanone at 1,009 ug/kg, 4-Methyl-2-Pentanone at 24,151 with detection limits of 1000 ug/kg. Hits on 1,1,2-Trichloroethane at 1,144.03 ug/kg with detection limit of 500 ug/kg. These compounds were not stated on the Report Form but were detected on the Quant report. These need correction. A dilution of 100x was performed.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*
**Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**Hit was detected at 8400 ug/kg with a detection limit of 500 ug/kg. Report Form show a detection limit of 100 ug/kg and Quant Report shows 500 ug/kg. Needs to be corrected to 500 ug/kg.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 10 mg/kg.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead was detected at 16 mg/kg with a detection limit of 5 mg/kg.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE: *SOIL*

05-005 RBH 1.5' Lab ID# 941941-0001

VOA/SW8240 =	**Hit on 4-Methyl-2-Pentanone at 21.90 ug/l with a detection limit of 10 ug/l on the Quant Report as a water but was not stated on the Report form as a soil.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg. The Report Form states a detection limit of 500 ug/kg, this needs to be corrected.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 12 mg/kg above detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*SOIL*
05-005 RBH 6'	*Lab ID# 941941-0005*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg. Report Form states a 500 ug/kg detection limit, this needs to be corrected.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*SOIL*
05-005 RBH 6.5'-8'	*Lab ID# 941941-0002*
VOA/SW8240 =	**Hit on Acetone at 29 ug/kg with a detection limit of 10 ug/kg.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*SOIL*
05-005 RBH 6.5'-8'MS	*Lab ID# 941941-0003*
VOA/SW8240 =	**All spiked results were detected within QC Range.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **Matrix Spike result was within QC Range.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **Matrix Spike results were within QC Range.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead Matrix Spike result was within QC Range.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *SOIL*

05-005 RBH 6.5'-8'MSD *Lab ID# 941941-0004*

VOA/SW8240 =

**All spiked results were detected within QC Range. All RPD's were within QC Range.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*
**Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**Matrix Spike result was within QC Range. All RPD's were within QC Range.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**Matrix Spike results were within QC Range. All RPD's were within QC Range.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead Matrix Spike result was within QC Range. All RPD's were within QC Range.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE:	*SOIL*
05-005 RBH 11.5'	*Lab ID# 941941-0006*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*SOIL*
05-005 RBH 11.5'-13' (Duplicate)	*Lab ID# 941941-0007*
VOA/SW8240 =	**Methylene Chloride was detected at 5.20 ug/l with a 5 ug/l detection limit.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.* **Sample was run as a WATER sample, not a SOIL. Units on quant report are reported in ug/l. Was sample run as a water and were detection limits applied as a water sample?*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 10 mg/kg.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
EB-1	*Lab ID# 941849-0018*
VOA/SW8240 =	**Acetone was detected at 13 ug/l with a detection limit of 10 ug/l.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of .005 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
EB-1	*Lab ID# 941941-0009*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 0.100 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
EB-2	*Lab ID# 941849-0019*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/kg.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of .005 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
EB-2	*Lab ID# 941979-0008*
VOA/SW8240 =	**Hits were detected for Acetone at 11 ug/l and 2-Butanone at 14 ug/l with detection limits of 10 ug/l.* **Did not meet 7 day holding time, expired over one day.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was detected at 7.4 mg/l with a detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
EB-6	*Lab ID# 941953-0014*
VOA/SW8240 =	**Hit on Acetone at 11 ug/l and 2-Butanone at 14 ug/l with detection limits of 10 ug/l.* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **Hit was detected at 620 mg/l that was above the detection limit of 10 mg/kg. Concerned!* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 0.050 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *WATER*

EQUIPMENT BLANK *Lab ID# 941966-0005*

VOA/SW8240 =

**Hit was detected on 2-Butanone at 10.47 ug/l with a detection limit of 10 ug/l. The Report Form dos not indicate this hit but the Quant Report shows a hit. Correction needed.*
**Did not meet 7 day holding time, expired over one day.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

TPH/SW8015-Gas=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 100 ug/l.*
**Blanks were clean of any hits above the detection limits.*

TPH/SW8015-Diesel=

**Met 28 day holding time.*
**COC information verified.*
**No hit was detected above the detection limit of 10 mg/l.*
**Blanks were clean of any hits above the detection limits.*

Total Lead SW6010=

**Total lead was not detected above the detection limit of 1 mg/l.*
**Met 6 month holding times.*
**COC information verified.*

SAMPLE:	*WATER*
FB-1	*Lab ID# 941941-0008*
VOA/SW8240 =	**Chloroform was detected at 47 ug/l with a detection limit of 5 ug/l and 4-Methyl-2-pentanone at 12 ug/l with a detection limit of 10 ug/l.* **All met 14 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 0.100 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
FB-2	*Lab ID# 941953-0015*
VOA/SW8240 =	**Hit on Carbon Disulfide at 52 ug/l and Chloroform at 26 ug/l with detection limits of 5 ug/l.* **All met 7 day holding time.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/kg.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 0.050 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE:	*WATER*
FIELD BLANK	*Lab ID# 941966-0004*
VOA/SW8240 =	**No hits were detected above the assigned detection limits.* **Did not meet 7 day holding time, expired over one day.* **COC information verified.* **All surrogate recoveries were within QC limits.* **Blanks were clean and no compounds were detected above the detection limits.*
TPH/SW8015-Gas=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 100 ug/l.* **Blanks were clean of any hits above the detection limits.*
TPH/SW8015-Diesel=	**Met 28 day holding time.* **COC information verified.* **No hit was detected above the detection limit of 10 mg/l.* **Blanks were clean of any hits above the detection limits.*
Total Lead SW6010=	**Total lead was not detected above the detection limit of 1 mg/l.* **Met 6 month holding times.* **COC information verified.*

SAMPLE: *WATER*

TRIP BLANK *Lab ID# 941996-0003*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK *Lab ID# 941987-0006*

VOA/SW8240 =

**A hit was detected above the detection limit for Acetone at 17.38 with a detection limit of 10 ug/l. This was not reported on the Report Form and needs to be corrected.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK *Lab ID# 941953-0016*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK *Lab ID# 941979-0009*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK *Lab ID# 941966-0002*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK *Lab ID# 941941-0010*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK w/ EB-1 *Lab ID# 941849-0020*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

SAMPLE: *WATER*

TRIP BLANK w/ EB-2 *Lab ID# 941849-0021*

VOA/SW8240 =

**No hits were detected above the assigned detection limits.*
**All met 14 day holding time.*
**COC information verified.*
**All surrogate recoveries were within QC limits.*
**Blanks were clean and no compounds were detected above the detection limits.*

APPENDIX G

CHEMICAL ANALYSES RESULTS FOR SOIL AND GROUNDWATER SAMPLES

EXPLANATION OF TABLE ORGANIZATION AND NOMENCLATURE

Each table in the appendix is a matrix which consists of samples (listed in columns) and analyses (listed in rows). In some cases, the matrix consists of more samples (columns) and/or more analyses (rows) than can be presented on a single sheet. The method of presentation used is that for a specific set of parameters (rows) with the results for all the samples (columns) analyzed presented. The table continuation pages are labelled as such for each parameter. For the next set of parameters, the results are given for all the samples analyzed. The physical pages themselves are numbered sequentially as they appear in this appendix.

The following nomenclature is used in the tables:

Parameter:	Parameter for which the analysis was performed.
Location No.:	The sampling location identifier.
Sample Date:	The sampling date.
Lab Sample No.:	The numeric identifier assigned to the sample by the laboratory.
U:	Indicates sample was analyzed for but was not detected.

Table G.1
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	BG-001BH 1.5'	BG-001BH 9'
Sample Date:	08/12/94	08/12/94
Lab Sample No.:	941996-0001	941996-0002
VOC Matrix:	Soil	Soil
Acetone	10U	10U
Benzene	5U	5U
Bromodichloromethane	5U	5U
Bromoform	5U	5U
Bromomethane	10U	10U
2-Butanone	10U	10U
Carbon disulfide	8	5U
Carbon tetrachloride	5U	5U
Chlorobenzene	5U	5U
Chlorodibromomethane	5U	5U
Chloroethane	10U	10U
2-Chloroethylvinyl ether	10U	10U
Chloroform	5U	5U
Chloromethane	10U	10U
1,1-Dichloroethane	5U	5U
1,2-Dichloroethane	5U	5U
1,1-Dichloroethene	5U	5U
Total 1,2-Dichloroethenes	5U	5U
1,2-Dichloropropane	5U	5U
cis-1,3-Dichloropropene	5U	5U
trans-1,3-Dichloropropene	5U	5U
Ethylbenzene	5U	5U
2-Hexanone	10U	10U
Methylene Chloride	5U	5U
4-Methyl-2-pentanone	10U	10U
Styrene	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U
Tetrachloroethane	5U	5U
1,1,1-Trichlorethane	5U	5U
1,1,2-Trichlorethane	5U	5U
Trichloroethane	5U	5U
Toluene	5U	5U
Vinyl acetate	10U	10U
Vinyl chloride	10U	10U
Total Xylenes	5U	5U

VOC – Volatile Organic Compounds.
BG – Background.
BH – Borehole.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.2
Summary of TPH Compounds Detected in Background Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: Sample Date: Lab Sample No.:	BG-001BH 1.5' 08/12/94 941996-0001	BG-001BH 9' 08/12/94 941996-0002	BG-001MW A 08/10/94 941979-0003	BG-001MW B 08/10/94 941979-0006
TPH Matrix:	**Soil**	**Soil**	**Water**	**Water**
Diesel (mg/kg)	10U	10U	10U	10U
Gasoline (μg/kg)	100U	100U	100U	250

TPH – Total Petroleum Hydrocarbons.
BG – Background.
BH – Borehole.
MW – Monitoring Well.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.3
Summary of Lead Detected in Background Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	BG-001BH 1.5' 08/12/94 941996-0001	BG-001BH 9' 08/12/94 941996-0002
Metal Matrix:	**Soil**	**Soil**
Lead	10U	10U

BG – Background.
BH – Borehole.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.4
Summary of Volatile Organic Compounds Detected in Background Water Samples 216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per lite for water unless otherwise noted.)

Location:	BG-001MW A	BG-001MW B	BG-001MW
Sample Date:	08/10/94	08/10/94	12/08/94
Lab Sample No.:	941979-0003	941979-0006	943126-0001
VOC Matrix:	Water	Water	Water
Acetone	10U	10U	10U
Benzene	5U	5U	5U
Bromodichloromethane	5U	5U	5U
Bromoform	5U	5U	5U
Bromomethane	10U	10U	10U
2-Butanone	10U	10U	10U
Carbon disulfide	5U	5U	5U
Carbon tetrachloride	5U	5U	5U
Chlorobenzene	5U	5U	5U
Chlorodibromomethane	10U	10U	10U
Chloroethane	10U	10U	10U
2-Chloroethylvinyl ether	5U	5U	5U
Chloroform	10U	10U	10U
Chloromethane	5U	5U	5U
1,1-Dichloroethane	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U
Ethylbenzene	5U	5U	5U
2-Hexanone	10U	10U	10U
Methylene Chloride	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U
Styrene	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U
Tetrachloroethane	5U	5U	5U
1,1,1-Trichlorethane	5U	5U	5U
1,1,2-Trichlorethane	5U	5U	5U
Trichloroethane	5U	5U	5U
Toluene	5U	5U	5U
Vinyl acetate	10U	10U	10U
Vinyl chloride	10U	10U	10U
Total Xylenes	5U	5U	5U

VOC – Volatile Organic Compounds.
BG – Background.
MW – Monitoring Well.

U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.5
Summary of TPH Compounds Detected in Background Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	BG-001MW / 12/07/94 / 943126-0001
TPH **Matrix:**	**Water**
Diesel (mg/kg)	50U
Gasoline (μg/kg)	190

TPH – Total Petroleum Hydrocarbons.
BG – Background.
MW – Monitoring Well.
mg/kg – milligrams per kilogram.
μg/kg – micrograms per kilogram.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.6
Summary of Lead Detected in Background Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in milligrams per kilogram.)

Location: / Sample Date: / Lab Sample No.:	BG-001MW A / 08/10/94 / 941979-0003	BG-001MW B / 08/10/94 / 941979-0006	BG-001MW / 12/07/94 / 943126-0001
Metal **Matrix:**	**Water**	**Water**	**Water**
Lead	1U	1U	0.05U

BG – Background.
MW – Monitoring Well.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.7
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	04-001BH 1'	04-001BH 11'	04-001BH 21'	04-002BH 1'	04-002BH 6'	04-002BH 11'	04-003BH 1'
Sample Date:	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94
Lab Sample No.:	941849-0004	941849-0005	941849-0006	941849-0001	941849-0002	941849-0003	941849-0007
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Acetone	10U	10U	10U	10U	10U	10U	10U
Benzene	5U	5U	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U	5U	5U
Chlorodibromomethane	5U	5U	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	5U	5U	6
4-Methyl-2-pentanone	10U	10U	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U	5U

Table G.7 (Continued)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	04-001BH 1' 07/28/94 941849-0004	04-001BH 11' 07/28/94 941849-0005	04-001BH 21' 07/28/94 941849-0006	04-002BH 1' 07/28/94 941849-0001	04-002BH 6' 07/28/94 941849-0002	04-002BH 11' 07/28/94 941849-0003	04-003BH 1' 07/28/94 941849-0007
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Tetrachloroethane	5U	5U	5U	5U	5U	5U	5U
1,1,1-Trichlorethane	5U	5U	5U	5U	5U	5U	5U
1,1,2-Trichlorethane	5U	5U	5U	5U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U	5U	5U

Table G.7 (Continued)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	04-003BH 6' 07/28/94 941849-0008	04-003BH 11' 07/28/94 941849-0009	04-004BH 1.5' 07/28/94 941849-0010	04-004BH 6' 07/28/94 941849-0012	04-004BH 7' 07/28/94 941849-0013	04-004BH 11.5' 07/28/94 941849-0016
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
Acetone	10U	10U	10U	10U	10U	10U
Benzene	5U	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U	5U
Chlorodibromomethane	5U	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U	10U
Methylene Chloride	6	5U	5	5U	5U	6
4-Methyl-2-pentanone	10U	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U

Table G.7 (Concluded)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	04-003BH 6' 07/28/94 941849-0008	04-003BH 11' 07/28/94 941849-0009	04-004BH 1.5' 07/28/94 941849-0010	04-004BH 6' 07/28/94 941849-0012	04-004BH 7' 07/28/94 941849-0013	04-004BH 11.5' 07/28/94 941849-0016
VOC Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Tetrachloroethane	5U	5U	5U	5U	5U	5U
1,1,1-Trichlorethane	5U	5U	5U	5U	5U	5U
1,1,2-Trichlorethane	5U	5U	5U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U	5U

VOC – Volatile Organic Compound.
BH – Borehole.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.8
Summary of TPH Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location:	04-001BH 1'	04-001BH 11'	04-001BH 21'	04-002BH 1'	04-002BH 6'	04-002BH 11'	04-003BH 1'
Sample Date:	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94
Lab Sample No.:	941849-0004	941849-0005	941849-0006	941849-0001	941849-0002	941849-0003	941849-0007
TPH Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Diesel (mg/kg)	10U	10U	10U	10U	10U	10U	10U
Gasoline (μg/kg)	500U	500U	500U	500U	500U	500U	500U

Location:	04-003BH 6'	04-003BH 11'	04-004BH 1.5'	04-004BH 6'	04-004BH 7'	04-004BH 11.5'
Sample Date:	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94
Lab Sample No.:	941849-0008	941849-0009	941849-0010	941849-0012	941849-0013	941849-0016
TPH Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
Diesel (mg/kg)	10U	10U	10U	10U	10U	10U
Gasoline (μg/kg)	500U	500U	500U	500U	500U	500U

TPH – Total Petroleum Hydrocarbons.
BH – Borehole.
mg/kg – milligrams per kilogram.
μg/kg – micrograms per kilogram.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.9
Summary of Lead Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location:	04-001BH 1'	04-001BH 11'	04-001BH 21'	04-002BH 1'	04-002BH 6'	04-002BH 11'	04-003BH 1'
Sample Date:	07/28/94	07/29/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94
Lab Sample No.:	941849-0004	941849-0005	941849-0006	941849-0001	941849-0002	941849-0003	941849-0007
Metal Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Lead	210	7.3	8.3	11	10	5U	59

Location:	04-003BH 6'	04-003BH 11'	04-004BH 1.5'	04-004BH 6'	04-004BH 7'	04-004BH 11.5'
Sample Date:	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94	07/28/94
Lab Sample No.:	941849-0008	941849-0009	941849-0010	941849-0012	941849-0013	941849-0016
Metal Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Lead	11	8.6	590	15	14	5U

BH – Borehole.

U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.10
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location:	04-001MW A	04-001MW B	04-001MW	04-002MW A	04-002MW B	04-001MW	04-002MW	04-002 MW DUP
Sample Date:	08/10/94	08/11/94	12/07/94	08/10/94	08/10/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941979-0001	941987-0001	943126-0002	941979-0005	941979-0002	943126-0002	943126-0003	943126-0004
VOC Matrix:	Water	Water	Water	Water	Water	Water	Water	Water
Acetone	10U	10U	10U	10U	10U	10U	50U	50U
Benzene	5U	5U	5U	5U	5U	5U	25U	25U
Bromodichloromethane	5U	5U	5U	5U	5U	5U	25U	25U
Bromoform	5U	5U	5U	5U	5U	5U	25U	25U
Bromomethane	10U	10U	10U	10U	10U	10U	50U	50U
2-Butanone	10U	10U	10U	10U	10U	10U	50U	50U
Carbon disulfide	5U	5U	5U	5U	5U	5U	25U	25U
Carbon tetrachloride	5U	5U	5U	5U	5U	5U	25U	25U
Chlorobenzene	5U	5U	5U	5U	5U	5U	25U	25U
Chlorodibromomethane	10U	10U	10U	10U	10U	10U	50U	50U
Chloroethane	10U	10U	10U	10U	10U	10U	50U	50U
2-Chloroethylvinyl ether	5U	5U	5U	5U	5U	5U	25U	25U
Chloroform	10U	10U	10U	10U	10U	10U	50U	50U
Chloromethane	5U	5U	5U	5U	5U	5U	25U	25U
1,1-Dichloroethane	5U	5U	5U	5U	5U	5U	25U	25U
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U	25U	25U
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U	25U	25U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U	5U	25U	25U
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U	25U	25U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	25U	25U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	25U	25U
Ethylbenzene	5U	5U	5U	5U	5U	5U	25U	25U
2-Hexanone	10U	10U	10U	10U	10U	10U	50U	50U
Methylene Chloride	5U	5U	5U	5U	5U	5U	25U	25U
4-Methyl-2-pentanone	10U	10U	10U	10U	10U	10U	50U	50U
Styrene	5U	5U	5U	5U	5U	5U	25U	25U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U	25U	25U

Table G.10 (Concluded)
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location:	04-001MW A	04-001MW B	04-001MW	04-002MW A	04-002MW B	04-001MW	04-002MW	04-002 MW DUP
Sample Date:	08/10/94	08/11/94	12/07/94	08/10/94	08/10/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941979-0001	941987-0001	943126-0002	941979-0005	941979-0002	943126-0002	943126-0003	943126-0004
VOC Matrix:	Water	Water	Water	Water	Water	Water	Water	Water
Tetrachloroethane	5U	5U	5U	5U	5U	5U	25U	25U
1,1,1-Trichlorethane	5U	5U	5U	5U	5U	5U	25U	25U
1,1,2-Trichlorethane	5U	5U	5U	5U	5U	5U	25U	25U
Trichloroethane	5U	5U	5U	5U	5U	5U	25U	25U
Toluene	5U	5U	5U	5U	5U	5U	25U	25U
Vinyl acetate	10U	10U	10U	10U	10U	10U	50U	50U
Vinyl chloride	10U	10U	10U	10U	10U	10U	50U	50U
Total Xylenes	5U	5U	5U	5U	5U	5U	25U	25U

MW – Monitoring Well.
VOC – Volatile Organic Compounds.

U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.11
Summary of TPH Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location:	04-001MW A	04-001MW B	04-001MW	04-002MW A	04-002MW B	04-001MW	04-002MW	04-002MW DUP
Sample Date:	08/10/94	08/11/94	12/07/94	08/10/94	08/10/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941979-0001	941987-0001	943126-0002	941979-0005	941979-0002	943126-0002	943126-0003	943126-0004
TPH Matrix:	Water	Water	Water	Water	Water	Water	Water	Water
Diesel (mg/L)	10U	10U	.050U	10	10	50U	.840	.920
Gasoline (µg/L)	100U	530	.100U	1,000	100U	100U	1,400	1,200

TPH – Total Petroleum Hydrocarbons.
MW – Monitoring Well.
mg/L – milligrams per liter.
µg/L – micrograms per liter.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.12
Summary of Lead Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location:	04-001MW A	04-001MW B		04-002MW A	04-002MW B	04-001MW	04-002MW	04-002MW DUP
Sample Date:	08/10/94	08/11/94		08/10/94	08/10/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941979-0001	941987-0001		941979-0005	941979-0002	943126-0001	943126-0003	943126-0004
Metal Matrix:	Water	Water		Water	Water	Water	Water	Water
Lead (mg/L)	1U	1U		8.3	1U	0.05U	0.05U	0.050U

MW – Monitoring Well.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.13
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	BG-001BH 1.5' 08/12/94 941996-0001	BG-001BH 9' 08/12/94 941996-0002	05-001RBH 1.5' 08/06/94 941953-0001	05-001RBH 11.5' 08/06/94 941953-0002	05-001RBH 14' - 15.5' 08/06/94 941953-0004	05-002RBH 2' 08/06/94 941953-0005
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
Acetone	10U	10U	10U	10U	10U	10U
Benzene	5U	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U	10U
Carbon disulfide	8	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U	5U
Chlorodibromomethane	5U	5U	5U	5U	5U	5U
Chloroethane	10U	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	10U	10U	10U	10U	10U	10U
Chloroform	5U	5U	5U	5U	5U	5U
Chloromethane	10U	10U	10U	10U	10U	10U
1,1-Dichloroethane	5U	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U	6
2-Hexanone	10U	10U	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U

Table G.13 (Continued)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: Sample Date: Lab Sample No.:	BG-001BH 1.5' 08/12/94 941996-0001	BG-001BH 9' 08/12/94 941996-0002	05-001RBH 1.5' 08/06/94 941953-0001	05-001RBH 11.5' 08/06/94 941953-0002	05-001RBH 14' - 15.5' 08/06/94 941953-0004	05-002RBH 2' 08/06/94 941953-0005
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
Tetrachloroethane	5U	5U	5U	5U	5U	5U
1,1,1-Trichlorethane	5U	5U	5U	5U	5U	5U
1,1,2-Trichlorethane	5U	5U	5U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U	5U

Table G.13 (Continued)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	05-002RBH 11' 08/06/94 941953-0006	05-002RBH 15' 08/06/94 941953-0007	05-003RBH 1.5' 08/06/94 941953-0008	05-003RBH 11' 08/06/94 941953-0009	05-003RBH 15' 08/06/94 941953-0010	05-004RBH 1.5' 08/06/94 941953-0011	05-004RBH 6' 08/09/94 941953-0012
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Acetone	59	10U	10U	50U	10U	10U	1,000U
Benzene	25U	5U	5U	30	5U	5U	500U
Bromodichloromethane	25U	5U	5U	25U	5U	5U	500U
Bromoform	25U	5U	5U	25U	5U	5U	500U
Bromomethane	50U	10U	10U	50U	10U	10U	1,000U
2-Butanone	50U	10U	10U	50U	10U	10U	1,000U
Carbon disulfide	30	5U	6	30	5U	5U	500U
Carbon tetrachloride	25U	5U	5U	25U	5U	5U	500U
Chlorobenzene	25U	5U	5U	25U	5U	5U	500U
Chlorodibromomethane	25U	5U	5U	25U	5U	5U	500U
Chloroethane	50U	10U	10U	50U	10U	10U	1,000U
2-Chloroethylvinyl ether	50U	10U	10U	50U	10U	10U	1,000U
Chloroform	25U	5U	5U	25U	5U	5U	500U
Chloromethane	50U	10U	10U	50U	10U	10U	1,000U
1,1-Dichloroethane	25U	5U	5U	25U	5U	5U	500U
1,2-Dichloroethane	25U	5U	5U	25U	5U	5U	500U
1,1-Dichloroethene	25U	5U	5U	25U	5U	5U	500U
Total 1,2-Dichloroethenes	25U	5U	5U	25U	5U	5U	500U
1,2-Dichloropropane	25U	5U	5U	25U	5U	5U	500U
cis-1,3-Dichloropropene	25U	5U	5U	25U	5U	5U	500U
trans-1,3-Dichloropropene	25U	5U	5U	25U	5U	5U	500U
Ethylbenzene	25U	5U	5U	25U	5U	23	500U
2-Hexanone	50U	10U	10U	50U	10U	10U	1,000U
Methylene Chloride	25U	5U	5U	25U	5U	5U	500U
4-Methyl-2-pentanone	50U	10U	10U	50U	10U	10U	1,000U
Styrene	25U	5U	5U	25U	5U	5U	500U
1,1,2,2-Tetrachloroethane	25U	5U	5U	25U	5U	5U	500U

Table G.13 (Continued)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	05-002RBH 11' 08/06/94 941953-0006	05-002RBH 15' 08/06/94 941953-0007	05-003RBH 1.5' 08/06/94 941953-0008	05-003RBH 11' 08/06/94 941953-0009	05-003RBH 15' 08/06/94 941953-0010	05-004RBH 1.5' 08/06/94 941953-0011	05-004RBH 6' 08/09/94 941953-0012
VOC Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Tetrachloroethane	25U	5U	5U	25U	5U	5U	500U
1,1,1-Trichlorethane	25U	5U	5U	25U	5U	5U	500U
1,1,2-Trichlorethane	25U	5U	5U	25U	5U	5U	500U
Trichloroethane	25U	5U	5U	25U	5U	5U	500U
Toluene	25U	5U	5U	25U	5U	5U	500U
Vinyl acetate	50U	10U	10U	50U	10U	10U	1,000U
Vinyl chloride	50U	10U	10U	50U	10U	10U	1,000U
Total Xylenes	25U	5U	5U	25U	5U	5U	500U

Table G.13 (Continued)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	05-004RBH 11' 08/09/94 941953-0013	05-005RBH 1.5' 08/06/94 941941-0001	05-005RBH 6.5' - 8' 08/06/94 941941-0002	05-005RBH 6' 08/06/94 941941-0005	05-005RBH 11.5' 08/06/94 941941-0006
VOC Matrix:	Soil	Soil	Soil	Soil	Soil
Acetone	1,000U	10U	29	10U	10U
Benzene	500U	5U	5U	5U	5U
Bromodichloromethane	500U	5U	5U	5U	5U
Bromoform	500U	5U	5U	5U	5U
Bromomethane	1,000U	10U	10U	10U	10U
2-Butanone	1,000U	10U	10U	10U	10U
Carbon disulfide	500U	5U	5U	5U	5U
Carbon tetrachloride	500U	5U	5U	5U	5U
Chlorobenzene	500U	5U	5U	5U	5U
Chlorodibromomethane	500U	5U	5U	5U	5U
Chloroethane	1,000U	10U	10U	10U	10U
2-Chloroethylvinyl ether	1,000U	10U	10U	10U	10U
Chloroform	500U	5U	5U	5U	5U
Chloromethane	1,000U	10U	10U	10U	10U
1,1-Dichloroethane	500U	5U	5U	5U	5U
1,2-Dichloroethane	500U	5U	5U	5U	5U
1,1-Dichloroethene	500U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	500U	5U	5U	5U	5U
1,2-Dichloropropane	500U	5U	5U	5U	5U
cis-1,3-Dichloropropene	500U	5U	5U	5U	5U
trans-1,3-Dichloropropene	500U	5U	5U	5U	5U
Ethylbenzene	500U	5U	5U	5U	5U
2-Hexanone	1,000U	10U	10U	10U	10U
Methylene Chloride	500U	5U	5U	5U	5U
4-Methyl-2-pentanone	1,000U	10U	10U	10U	10U
Styrene	500U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	500U	5U	5U	5U	5U

Table G.13 (Concluded)
Summary of Volatile Organic Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	05-004RBH 11' 08/09/94 941953-0013	05-005RBH 1.5' 08/06/94 941941-0001	05-005RBH 6.5' - 8' 08/06/94 941941-0002	05-005RBH 6' 08/06/94 941941-0005	05-005RBH 11.5' 08/06/94 941941-0006
VOC Matrix:	Soil	Soil	Soil	Soil	Soil
Tetrachloroethane	500U	5U	5U	5U	5U
1,1,1-Trichlorethane	500U	5U	5U	5U	5U
1,1,2-Trichlorethane	500U	5U	5U	5U	5U
Trichloroethane	500U	5U	5U	5U	5U
Toluene	500U	5U	5U	5U	5U
Vinyl acetate	1,000U	10U	10U	10U	10U
Vinyl chloride	1,000U	10U	10U	10U	10U
Total Xylenes	500U	5U	5U	5U	5U

BG – Background.
BH – Borehole.
RBH – Resampled Borehole.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.14
Summary of TPH Compounds Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

Location: / Sample Date: / Lab Sample No.:	BG-001BH 1.5' 08/12/94 941996-0001	BG-001BH 9' 08/12/94 941996-0002	05-001RBH 1.5' 08/06/94 941953-0001	05-001RBH 11.5' 08/06/94 941953-0002	05-001RBH 14' - 15.5' 08/06/94 941953-0004	05-002RBH 2' 08/06/94 941953-0005
TPH Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Diesel (mg/kg)	10U	10U	10U	10U	10U	10U
Gasoline (µg/kg)	100U	100U	100U	100U	100U	2,200
Location: / Sample Date: / Lab Sample No.:	**05-002RBH 11' 08/06/94 941953-0006**	**05-002RBH 15' 08/06/94 941953-0007**	**05-003RBH 1.5' 08/06/94 941953-0008**	**05-003RBH 11' 08/06/94 941953-0009**	**05-003RBH 15' 08/06/94 941953-0010**	**05-004RBH 1.5' 08/06/94 941953-0011**
TPH Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Diesel (mg/kg)	10U	10U	10U	10U	10U	10U
Gasoline (µg/kg)	1,100	500U	500U	3,200	1,200	500U
Location: / Sample Date: / Lab Sample No.:	**05-004RBH 6' 08/09/94 941953-0012**	**05-004RBH 11' 08/09/94 941953-0013**	**05-005RBH 1.5' 08/06/94 941941-0001**	**05-005RBH 6.5' - 8' 08/06/94 941941-0002**	**05-005RBH 6' 08/06/94 941941-0005**	**05-005RBH 11.5' 08/06/94 941941-0006**
TPH Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Diesel (mg/kg)	10U	10U	10U	10U	10U	10U
Gasoline (µg/kg)	19,000	8,400	500U	100U	500U	100U

TPH – Total Petroleum Hydrocarbons.
BG – Background.
BH – Borehole.
RBH – Resampled Borehole.

mg/kg – milligrams per kilogram.
µg/kg – micrograms per kilogram.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.15
Summary of Lead Detected in Soil Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	BG-001BH 1.5' 08/12/94 941996-0001	BG-001BH 9' 08/12/94 941996-0002	05-001RBH 1.5' 08/06/94 941953-0001	05-001RBH 11.5' 08/06/94 941953-0002	05-001RBH 14' - 15.5' 08/06/94 941953-0004	05-002RBH 2' 08/06/94 941953-0005
Metal Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Lead	10U	10U	16	5.0U	5.0U	8.7
Location: / Sample Date: / Lab Sample No.:	**05-002RBH 11' 08/06/94 941953-0006**	**05-002RBH 15' 08/06/94 941953-0007**	**05-003RBH 1.5' 08/06/94 941953-0008**	**05-003RBH 11' 08/06/94 941953-0009**	**05-003RBH 15' 08/06/94 941953-0010**	**05-004RBH 1.5' 08/06/94 941953-0011**
Metal Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Lead	5.0U	5.0U	18	8.5	11	37
Location: / Sample Date: / Lab Sample No.:	**05-004RBH 6' 08/09/94 941953-0012**	**05-004RBH 11' 08/09/94 941953-0013**	**05-005RBH 1.5' 08/06/94 941941-0001**	**05-005RBH 6.5' - 8' 08/06/94 941941-0002**	**05-005RBH 6' 08/06/94 941941-0005**	**05-005RBH 11.5' 08/06/94 941941-0006**
Metal Matrix:	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Lead	16	5.0U	12	10U	10U	10U

BG – Background.
BH – Borehole.
RBH – Resampled Borehole.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.16
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: / Sample Date: / Lab Sample No.:	BG-001MW A 08/10/94 941979-0003	BG-001MW B 08/10/94 941979-0006	05-001MW A 08/09/94 941966-0001	05-001MW B 08/09/94 941966-0003	05-002MW A 08/11/94 941987-0004	05-002MW B 08/11/94 941987-0005
VOC Matrix:	Water	Water	Water	Water	Water	Water
Acetone	10U	10U	10U	10U	10U	10U
Benzene	5U	5U	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U	5U	5U
Chlorodibromomethane	10U	10U	10U	10U	10U	10U
Chloroethane	10U	10U	10U	10U	10U	10U
2-Chloroethylvinyl ether	5U	5U	5U	5U	5U	5U
Chloroform	10U	10U	10U	10U	10U	10U
Chloromethane	5U	5U	5U	5U	5U	5U
1,1-Dichloroethane	5U	5U	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	10U	10U
Styrene	5U	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U

Table G.16 (Continued)
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location: Sample Date: Lab Sample No.:	BG-001MW A 08/10/94 941979-0003	BG-001MW B 08/10/94 941979-0006	05-001MW A 08/09/94 941966-0001	05-001MW B 08/09/94 941966-0003	05-002MW A 08/11/94 941987-0004	05-002MW B 08/11/94 941987-0005
VOC Matrix:	Water	Water	Water	Water	Water	Water
Tetrachloroethane	5U	5U	5U	5U	5U	5U
1,1,1-Trichlorethane	5U	5U	5U	5U	5U	5U
1,1,2-Trichlorethane	5U	5U	5U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U	5U	5U
Toluene	5U	5U	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U	5U	5U

Table G.16 (Continued)
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	05-003MW A	05-003MW B	BG-001MW	05-001MW	05-002MW	05-003MW
Sample Date:	08/11/94	08/11/94	12/07/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941987-0002	941987-0003	943126-0001	943126-0009	943126-0010	943126-0008
VOC Matrix:	Water	Water	Water	Water	Water	Water
Acetone	10U	10U	10U	10U	50U	10U
Benzene	5U	5U	5U	5U	25U	5U
Bromodichloromethane	5U	5U	5U	5U	25U	5U
Bromoform	5U	5U	5U	5U	25U	5U
Bromomethane	10U	10U	10U	10U	50U	10U
2-Butanone	10U	10U	10U	10U	50U	10U
Carbon disulfide	5U	5U	5U	5U	25U	5U
Carbon tetrachloride	5U	5U	5U	5U	25U	5U
Chlorobenzene	5U	5U	5U	5U	25U	5U
Chlorodibromomethane	10U	10U	10U	10U	50U	10U
Chloroethane	10U	10U	10U	10U	50U	10U
2-Chloroethylvinyl ether	5U	5U	5U	5U	25U	5U
Chloroform	10U	10U	10U	10U	50U	10U
Chloromethane	5U	5U	5U	5U	25U	5U
1,1-Dichloroethane	5U	5U	5U	5U	25U	5U
1,2-Dichloroethane	5U	5U	5U	5U	25U	5U
1,1-Dichloroethene	5U	5U	5U	5U	25U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U	25U	5U
1,2-Dichloropropane	5U	5U	5U	5U	25U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U	25U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U	25U	5U
Ethylbenzene	5U	5U	5U	5U	25U	5U
2-Hexanone	10U	10U	10U	10U	50U	10U
Methylene Chloride	5U	5U	5U	5U	25U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U	50U	10U
Styrene	5U	5U	5U	5U	25U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	25U	5U

Table G.16 (Continued)
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	05-003MW A	05-003MW B	BG-001MW	05-001MW	05-002MW	05-003MW
Sample Date:	08/11/94	08/11/94	12/07/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941987-0002	941987-0003	943126-0001	943126-0009	943126-0010	943126-0008
VOC Matrix:	Water	Water	Water	Water	Water	Water
Tetrachloroethane	5U	5U	5U	5U	25U	5U
1,1,1-Trichlorethane	5U	5U	5U	5U	25U	5U
1,1,2-Trichlorethane	5U	5U	5U	5U	25U	5U
Trichloroethane	5U	5U	5U	5U	25U	5U
Toluene	5U	5U	5U	5U	25U	5U
Vinyl acetate	10U	10U	10U	10U	50U	10U
Vinyl chloride	10U	10U	10U	10U	50U	10U
Total Xylenes	5U	5U	5U	5U	25U	5U

Location:	05-001MW	05-002MW	05-002MW DUP	05-003MW
Sample Date:	12/05/95	12/05/95	12/05/95	12/05/95
Lab Sample No.:	953696-0007	953696-0004	953696-0005	953696-006
VOC Matrix:	Water	Water	Water	Water
Acetone	10U	10U	10U	10U
Benzene	5U	5U	5U	5U
Bromodichloromethane	5U	5U	5U	5U
Bromoform	5U	5U	5U	5U
Bromomethane	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U
Carbon disulfide	5U	5U	5U	5U
Carbon tetrachloride	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U
Chlorodibromomethane	10U	10U	10U	10U
Chloroethane	10U	10U	10U	10U
2-Chloroethylvinyl ether	5U	5U	5U	5U

Table G.16 (Concluded)
Summary of Volatile Organic Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	05-001MW	05-002MW	05-002MW DUP	05-003MW
Sample Date:	12/05/95	12/05/95	12/05/95	12/05/95
Lab Sample No.:	953696-0007	953696-004	953696-0005	953696-0006
VOC Matrix:	Water	Water	Water	Water
Chloroform	10U	10U	10U	10U
Chloromethane	5U	5U	5U	5U
1,1-Dichloroethane	5U	5U	5U	5U
1,2-Dichloroethane	5U	5U	5U	5U
1,1-Dichloroethene	5U	5U	5U	5U
Total 1,2-Dichloroethenes	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U
trans-1,3-Dichloropropene	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U
2-Hexanone	10U	10U	10U	10U
Methylene Chloride	5U	5U	5U	5U
4-Methyl-2-pentanone	10U	10U	10U	10U
Styrene	5U	5U	5U	5U
1,1,2,2-Tetrachlorocthane	5U	5U	5U	5U
Tetrachloroethane	5U	5U	5U	5U
1,1,1-Trichlorethane	5U	5U	5U	5U
1,1,2-Trichlorethane	5U	5U	5U	5U
Trichloroethane	5U	5U	5U	5U
Toluene	5U	5U	5U	5U
Vinyl acetate	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U
Total Xylenes	5U	5U	5U	5U

BG – Background.
MW – Monitoring Well.
VOC – Volatile Organic Compounds.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.17
Summary of TPH Compounds Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in micrograms per kilogram for soil or micrograms per liter for water unless otherwise noted.)

Location:	BG-001MW A	BG-001MW B	05-001MW A	05-001MW B	05-002MW A	05-002MW B
Sample Date:	08/10/94	08/10/94	08/09/94	08/09/94	08/11/94	08/11/94
Lab Sample No.:	941979-0003	941979-0006	941966-0001	941966-0003	941987-0004	941987-0005
TPH Matrix:	Water	Water	Water	Water	Water	Water
Diesel	10U	10U	10U	10U	10U	10U
Gasoline (ug/L)	100U	250	550	160	1,200	1,100
Location:	05-003MW A	05-003MW B	BG-001MW	05-001MW	05-002MW	05-003MW
Sample Date:	08/11/94	08/11/94	12/07/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941987-0002	941987-0003	943126-0001	943126-0009	943126-0010	943126-0008
TPH Matrix:	Water	Water	Water	Water	Water	Water
Diesel	10U	10U	50U	.050U	.980	.050U
Gasoline (ug/L)	100U	100U	190	100U	770	100U
Location:	05-001MW	05-002MW	05-002MW DUP	05-003MW		
Sample Date:	12/05/95	12/05/95	12/05/95	12/05/95		
Lab Sample No.:	953696-0007	953696-0004	953696-0005	953696-0005		
TPH Matrix:	Water	Water	Water	Water		
Diesel	10U	10U	10U	10U		
Gasoline (ug/L)	50U	1,300	300	50U		

BG – Background.
MW – Monitoring Well.
TPH – Total Petroleum Hydrocarbons.
U – Compound analyzed for but not detected. Number indicates the detection limit.

Table G.18
Summary of Lead Detected in Water Samples
216th EIS and 234th CCSQ, Hayward ANGS, Hayward, California

(Results in milligrams per kilogram for soil or milligrams per liter for water unless otherwise noted.)

Location:	BG-001MW A	BG-001MW B	05-001MW A	05-001MW B	05-002MW A	05-002MW B
Sample Date:	08/10/94	08/10/94	08/09/94	08/09/94	08/11/94	08/11/94
Lab Sample No.:	941979-0003	941979-0006	941966-0001	941966-0003	941987-0004	941987-0005
Metal Matrix:	Water	Water	Water	Water	Water	Water
Lead	1.0U	1.0U	0.005U	0.005U	1.0U	1.0U
Location:	05-003MW A	05-003MW B	BG-001MW	05-001MW	05-002MW	05-003MW
Sample Date:	08/11/94	08/11/94	12/07/94	12/07/94	12/07/94	12/07/94
Lab Sample No.:	941987-0002	941987-0003	943126-0001	943126-0009	943126-0010	943126-0008
Metal Matrix:	Water	Water	Water	Water	Water	Water
Lead	1.0U	1.0U	0.050U	0.050U	0.050U	0.050U

Location:	05-003MW A	05-003MW B	BG-001MW	05-001MW
Sample Date:	08/11/94	08/11/94	12/07/94	12/07/94
Lab Sample No.:	941987-0002	941987-0003	943126-0001	943126-0009
Metal Matrix:	Water	Water	Water	Water
Lead	.005U	.005U	.005U	.005U

BG – Background.
MW – Monitoring Well.

U – Compound analyzed for but not detected. Number indicates the detection limit.

WESTERN ATLAS

Core Laboratories

CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941849
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/09/94

Signature

8/11/94
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

CA. E. L. A. P. 1174
L. A. C. S. D. 10146

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WESTERN ATLAS

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Case Narrative

Job Number 941849

EPA METHOD 8240

Your samples were analyzed for volatile organics by EPA method 8240.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

One method blank was analyzed with your samples and met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes with the following exceptions: Samples 941849-4 and 941849-7 had one surrogate, toluene-d8, with a slightly high recovery.

Sample 941849-14 was designated in this batch to be used for matrix spike and 941849-15 for spike duplicate analysis.

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WESTERN ATLAS

Core Laboratories

Case Narrative

Job Number 941849

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria.

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

Sample 941849-14 was designated in this batch to be used for matrix spike and 941849-15 for spike duplicate analysis.

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WESTERN ATLAS

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CASE NARRATIVE

Job Number 914849

Lead Analysis

The lead analyses on soils was performed by EPA 6010 instead of EPA 7420. The lead analyses on waters was performed by EPA 6020 instead of EPA 7420.

Samples 941849-14 and 15 were designated in this sample delivery group as an MS/MSD pair.

All calibration and QC criteria were met.

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 10:05
WORK DESCRIPTION...: 04-002BH 1'

LABORATORY I.D...: 941849-0001
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	85	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	111	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	86	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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Anaheim, CA 92805
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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 10:05
WORK DESCRIPTION...: 04-002BH 1'

LABORATORY I.D...: 941849-0001
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel ✓	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline ✓	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb) ✓	11	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 10:10
WORK DESCRIPTION...: 04-002BH 6'

LABORATORY I.D...: 941849-0002
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
d Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	82	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	106	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	87	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 10:10
WORK DESCRIPTION...: 04-002BH 6'

LABORATORY I.D...: 941849-0002
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel ✓	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline ✓	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb) ✓	10	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 10:20
WORK DESCRIPTION...: 04-002BH 11'

LABORATORY I.D...: 941849-0003
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	82	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	90	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 10:20
WORK DESCRIPTION...: 04-002BH 11'

LABORATORY I.D...: 941849-0003
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 12:02
'ORK DESCRIPTION...: 04-001BH 1'

LABORATORY I.D...: 941849-0004
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	82	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	121(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	84	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/07/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 12:02
WORK DESCRIPTION...: 04-001BH 1'

LABORATORY I.D...: 941849-0004
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb)	210	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 12:15
WORK DESCRIPTION...: 04-001BH 11'

LABORATORY I.D...: 941849-0005
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	14	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	83	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 12:15
WORK DESCRIPTION...: 04-001BH 11'

LABORATORY I.D...: 941849-0005
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb)	7.3	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMLPETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 12:35
ORK DESCRIPTION...: 04-001BH 21'

LABORATORY I.D...: 941849-0006
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	88	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 12:35
WORK DESCRIPTION...: 04-001BH 21'

LABORATORY I.D...: 941849-0006
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb)	8.3	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 13:12
WORK DESCRIPTION...: 04-0038H 1'

LABORATORY I.D...: 941849-0007
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	6	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	102	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	112(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	82	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/07/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 13:12
WORK DESCRIPTION...: 04-003BH 1'

LABORATORY I.D...: 941849-0007
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/03/94	RVJ
Lead (Pb)	59	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 13:15
WORK DESCRIPTION...: 04-003BH 6'

LABORATORY I.D...: 941849-0008
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	6	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	112	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 13:15
WORK DESCRIPTION...: 04-003BH 6'

LABORATORY I.D...: 941849-0008
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brssly-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	11	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 13:18
WORK DESCRIPTION...: 04-003BH 11'

LABORATORY I.D...: 941849-0009
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 13:18
WORK DESCRIPTION...: 04-003BH 11'

LABORATORY I.D...: 941849-0009
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	8.6	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 14:47
K DESCRIPTION...: 04-004BH 1.5'

LABORATORY I.D...: 941849-0010
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	5	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	105	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	106	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	88	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 14:47
WORK DESCRIPTION...: 04-004BH 1.5'

LABORATORY I.D...: 941849-0010
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	590	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 14:50
WORK DESCRIPTION...: 04-004BH 1.5' DUP

LABORATORY I.D...: 941849-0011
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	110	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	86	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 14:50
WORK DESCRIPTION...: 04-004BH 1.5' DUP

LABORATORY I.D...: 941849-0011
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	20	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:30
WORK DESCRIPTION...: 04-004BH 6'

LABORATORY I.D...: 941849-0012
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	102	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	90	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:30
WORK DESCRIPTION...: 04-004BH 6'

LABORATORY I.D...: 941849-0012
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	15	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:40
WORK DESCRIPTION...: 04-004BH 7'

LABORATORY I.D...: 941849-0013
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	99	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	95	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:40
WORK DESCRIPTION...: 04-004BH 7'

LABORATORY I.D...: 941849-0013
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	14	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

B NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:40
WORK DESCRIPTION...: 04-004BH 7' MS

LABORATORY I.D...: 941849-0014
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
olatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	60	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	58	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	74	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	58	5	ug/kg	EPA 8240		
Toluene	59	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	105	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	95	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:40
WORK DESCRIPTION...: 04-004BH 7' MS

LABORATORY I.D...: 941849-0014
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	510	10	mg/kg	EPA 8015 (modified)		
Gasoline	1000	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb) ✓	98	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:40
WORK DESCRIPTION...: 04-004BH 7' MSD

LABORATORY I.D...: 941849-0015
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	64	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	60	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	76	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	61	5	ug/kg	EPA 8240		
Toluene	61	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	102	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:40
WORK DESCRIPTION...: 04-004BH 7' MSD

LABORATORY I.D...: 941849-0015
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel ✓	520	10	mg/kg	EPA 8015 (modified)		
Gasoline ✓	1000	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb) ✓	90	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 16:10
WORK DESCRIPTION...: 04-004BH 11.5'

LABORATORY I.D...: 941849-0016
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	6	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	101	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	101	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	93	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 16:10
WORK DESCRIPTION...: 04-004BH 11.5'

LABORATORY I.D...: 941849-0016
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 16:13
WORK DESCRIPTION...: 04-004BH 11.5' DUP

LABORATORY I.D...: 941849-0017
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/01/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	5	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 16:13
WORK DESCRIPTION...: 04-004BH 11.5' DUP

LABORATORY I.D...: 941849-0017
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel ✓	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/04/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/03/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	DC

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 14:34
WORK DESCRIPTION...: EB-1

LABORATORY I.D...: 941849-0018
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 1 .5LP-/3 voas-equip blank one

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	13	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	86	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 14:34
WORK DESCRIPTION...: EB-1

LABORATORY I.D...: 941849-0018
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 1 .5LP-/3 voas-equip blank one

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/02/94	RVJ
Lead (Pb)	<0.005	0.005	mg/L	EPA 6020	08/04/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	RVJ

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:36
WORK DESCRIPTION...: EB-2

LABORATORY I.D...: 941849-0019
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 1 .5LP-/3 voas-equip blank two

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	88	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/05/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/28/94
TIME SAMPLED.....: 15:36
WORK DESCRIPTION...: EB-2

LABORATORY I.D...: 941849-0019
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 1 .5LP-/3 voas-equip blank two

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/02/94	RVJ
Lead (Pb)	<0.005	0.005	mg/L	EPA 6020	08/04/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/05/94	RVJ

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/22/94
TIME SAMPLED.....: :
WORK DESCRIPTION...: TRIP BLANK w/ EB-1

LABORATORY I.D...: 941849-0020
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 1 voa vial-CORE DI H2O w/EB-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	86	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	103	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	86-115% QC LIMITS		

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 07/22/94
TIME SAMPLED.....: :
WORK DESCRIPTION...: TRIP BLANK w/ EB-2

LABORATORY I.D...: 941849-0021
DATE RECEIVED....: 07/29/94
TIME RECEIVED....: 10:30
REMARKS.....: 1 voa vial-CORE DI H2O w/EB-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/03/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	86	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	102	0	% Recovery	86-115% QC LIMITS		

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WESTERN ATLAS

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QUALITY ASSURANCE REPORT
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/02/94 00:00						QC BATCH NUMBER:936514
REPORTING LIMIT/DF: 100	UNITS:ug/L			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB080294	<100							
SPIKE	BLANK	072594-0	970					0	1000	97
SPIKE	BLANK DUP	072594-0	1000					0	1000	100
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/03/94 00:00						QC BATCH NUMBER:936521
REPORTING LIMIT/DF: 500	UNITS:ug/kg			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB080394	<500							
SPIKE	BLANK	080294-0	1000					0	1000	100
SPIKE	BLANK DUP	080294-0	1100					0	1000	110
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/04/94 00:00						QC BATCH NUMBER:936544
REPORTING LIMIT/DF: 500	UNITS:ug/kg			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB080494	<500							
SPIKE	MATRIX	941849-14	1000					0	1000	100
SPIKE	MATRIX DUP	941849-15	1000					0	1000	100
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/04/94 10:10						QC BATCH NUMBER:936583
REPORTING LIMIT/DF: 0.005	UNITS:mg/L			METHOD REFERENCE :EPA 6020						TECHNICIAN:VB
BLANK	ICB	IB080494	<0.005							
BLANK	CCB	CB080494	<0.005							
STANDARD	ICVS	M94291	0.49			0.50	98			
STANDARD	CCVS	M94294	1.0			1.0	100			
SPIKE	MATRIX	941872-24	0.49					0	0.50	98
DUPLICATE	MS/MSD	941872-24	0.49	0.48	2					
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/03/94 15:48						QC BATCH NUMBER:936632
REPORTING LIMIT/DF: 0.050	UNITS:mg/L			METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
BLANK	ICB	080394BLK	<0.050							
BLANK	CCB	080394	<0.050							
BLANK	MB	080294	<0.050							
BLANK	CCB	080394	<0.050							
STANDARD	ICV	M94267	1.04			1.00	104			
STANDARD	LCS	080294LCS	1.04			1.00	104			
STANDARD	CCV	M94267	1.05			1.00	105			
STANDARD	CCV	M94267	0.915			1.00	92			
STANDARD	CCV	M94267	1.10			1.00	110			
SPIKE	MATRIX	941849-14	98.5					13.8	100	85
SPIKE	MATRIX	941849-15	90.2					13.8	100	76
SPIKE	MATRIX	941849-17	0.459					0	0.500	92
SPIKE	MATRIX	941870-1	0.944					0.096	1.00	85
DUPLICATE	MATRIX	941870-1	0.096	0.091	0.005					
DUPLICATE	MATRIX	941870-17	<0.050	<0.050	NC					

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WESTERN ATLAS

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QUALITY ASSURANCE REPORT
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/03/94 15:48						QC BATCH NUMBER:936632
REPORTING LIMIT/DF: 0.050 UNITS:mg/L				METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
DUPLICATE	MATRIX	941869-1	0.094	0.093	0.001					

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QUALITY ASSURANCE REPORT
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

tal Petroleum Hydrocarbons DATE ANALYZED: 08/05/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936600

BLANKS

ST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB080594	1	<10	10	mg/kg

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QUALITY ASSURANCE REPORT
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/05/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936600

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	MATRIX	941849-14	1	510	0	500	102	10	mg/kg
	MATRIX DUP	941849-15	1	520	0	500	104	10	mg/kg
	MATRIX	941849-17	1	400	0	500	80	10	mg/kg
	MATRIX DUP	941849-17	1	410	0	500	82	10	mg/kg

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QUALITY ASSURANCE REPORT
08/09/94

B NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

tal Petroleum Hydrocarbons DATE ANALYZED: 08/05/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936601

BLANKS

ST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB080594	1	<10	10	mg/L

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/05/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936601

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	MATRIX	941849-18	1	390	0	500	78	10	mg/L
	MATRIX DUP	941849-18	1	400	0	500	80	10	mg/L

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QUALITY ASSURANCE REPORT
08/09/94

JOB NUMBER: 941849 CUSTOMER: Operational Technologies ATTN: John Morris

tal Petroleum Hydrocarbons DATE ANALYZED: 08/07/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936603

BLANKS

ST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB080794	1	<10	10	mg/kg

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941849 DATE ANALYZED: 8/3/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	080394	1	ND	10	ug/kg
Benzene	METHOD	080394	1	ND	5	ug/kg
Bromodichloromethane	METHOD	080394	1	ND	5	ug/kg
Bromoform	METHOD	080394	1	ND	5	ug/kg
Bromomethane	METHOD	080394	1	ND	10	ug/kg
2-Butanone	METHOD	080394	1	ND	10	ug/kg
Carbon disulfide	METHOD	080394	1	ND	5	ug/kg
Carbon tetrachloride	METHOD	080394	1	ND	5	ug/kg
Chlorobenzene	METHOD	080394	1	ND	5	ug/kg
Chlorodibromomethane	METHOD	080394	1	ND	5	ug/kg
Chloroethane	METHOD	080394	1	ND	10	ug/kg
2-Chloroethylvinyl ether	METHOD	080394	1	ND	10	ug/kg
Chloroform	METHOD	080394	1	ND	5	ug/kg
Chloromethane	METHOD	080394	1	ND	10	ug/kg
1,1-Dichloroethane	METHOD	080394	1	ND	5	ug/kg
1,2-Dichloroethene	METHOD	080394	1	ND	5	ug/kg
1,1-Dichloroethene	METHOD	080394	1	ND	5	ug/kg
1,2-Dichloroethene (total)	METHOD	080394	1	ND	5	ug/kg
1,2-Dichloropropane	METHOD	080394	1	ND	5	ug/kg
cis-1,3-Dichloropropene	METHOD	080394	1	ND	5	ug/kg
trans-1,3-Dichloropropene	METHOD	080394	1	ND	5	ug/kg
Ethylbenzene	METHOD	080394	1	ND	5	ug/kg
2-Hexanone	METHOD	080394	1	ND	10	ug/kg
Methylene chloride	METHOD	080394	1	ND	5	ug/kg
4-Methyl-2-pentanone	METHOD	080394	1	ND	10	ug/kg
Styrene	METHOD	080394	1	ND	5	ug/kg
1,1,2,2-Tetrachloroethane	METHOD	080394	1	ND	5	ug/kg
Tetrachloroethene	METHOD	080394	1	ND	5	ug/kg
Toluene	METHOD	080394	1	ND	5	ug/kg
1,1,1-Trichloroethane	METHOD	080394	1	ND	5	ug/kg
1,1,2-Trichloroethane	METHOD	080394	1	ND	5	ug/kg
Trichloroethene	METHOD	080394	1	ND	5	ug/kg
Vinyl acetate	METHOD	080394	1	ND	5	ug/kg
Vinyl chloride	METHOD	080394	1	ND	10	ug/kg
Total xylenes	METHOD	080394	1	ND	5	ug/kg
d4-1,2-Dichloroethane (SURROGATE)	METHOD	080394	1	82	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	080394	1	102	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	080394	1	104	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941849 DATE ANALYZED: 8/3/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941849-14	60	0	50	ug/kg	120	4.9	66-142	21
	MATRIX DUP	941849-15	63	0	50	ug/kg	126			
hlorobenzene	MATRIX	941849-14	58	0	50	ug/kg	116	1.7	60-133	21
	MATRIX DUP	941849-15	59	0	50	ug/kg	118			
1,1-Dichloroethene	MATRIX	941849-14	74	0	50	ug/kg	148	2.7	59-172	22
	MATRIX DUP	941849-15	76	0	50	ug/kg	152			
richloroethene	MATRIX	941849-14	58	0	50	ug/kg	116	5.0	62-137	24
	MATRIX DUP	941849-15	61	0	50	ug/kg	122			
Toluene	MATRIX	941849-14	59	0	50	ug/kg	118	3.3	59-139	21
	MATRIX DUP	941849-15	61	0	50	ug/kg	122			
4-Dichloroethane (SURROGATE)	MATRIX	941849-14	53	0	50	ug/kg	106	N/A	70-121	N/A
	MATRIX DUP	941849-15	51	0	50	ug/kg	102			
d8-Toluene (SURROGATE)	MATRIX	941849-14	51	0	50	ug/kg	102	N/A	84-138	N/A
	MATRIX DUP	941849-15	50	0	50	ug/kg	100			
-Bromofluorobenzene (SURROGAT	MATRIX	941849-14	47	0	50	ug/kg	94	N/A	59-113	N/A
	MATRIX DUP	941849-15	47	0	50	ug/kg	94			

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941849 DATE ANALYZED: 8/3/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	080394	1	ND	10	ug/L
Benzene	METHOD	080394	1	ND	5	ug/L
Bromodichloromethane	METHOD	080394	1	ND	5	ug/L
Bromoform	METHOD	080394	1	ND	5	ug/L
Bromomethane	METHOD	080394	1	ND	10	ug/L
2-Butanone	METHOD	080394	1	ND	10	ug/L
Carbon disulfide	METHOD	080394	1	ND	5	ug/L
Carbon tetrachloride	METHOD	080394	1	ND	5	ug/L
Chlorobenzene	METHOD	080394	1	ND	5	ug/L
Chlorodibromomethane	METHOD	080394	1	ND	5	ug/L
Chloroethane	METHOD	080394	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	080394	1	ND	10	ug/L
Chloroform	METHOD	080394	1	ND	5	ug/L
Chloromethane	METHOD	080394	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	080394	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	080394	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	080394	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	080394	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	080394	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	080394	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	080394	1	ND	5	ug/L
Ethylbenzene	METHOD	080394	1	ND	5	ug/L
2-Hexanone	METHOD	080394	1	ND	10	ug/L
Methylene chloride	METHOD	080394	1	ND	5	ug/L
4-Methyl-2-pentanone	METHOD	080394	1	ND	10	ug/L
Styrene	METHOD	080394	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	080394	1	ND	5	ug/L
Tetrachloroethene	METHOD	080394	1	ND	5	ug/L
Toluene	METHOD	080394	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	080394	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	080394	1	ND	5	ug/L
Trichloroethene	METHOD	080394	1	ND	5	ug/L
Vinyl acetate	METHOD	080394	1	ND	5	ug/L
Vinyl chloride	METHOD	080394	1	ND	10	ug/L
Total xylenes	METHOD	080394	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	080394	1	82	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	080394	1	102	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	080394	1	104	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941849 DATE ANALYZED: 8/3/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	BLANK	072694	56	0	50	ug/L	112	8.5	76-127	11
	BLANK DUP	072694	61	0	50	ug/L	122			
hlorobenzene	BLANK	072694	55	0	50	ug/L	110	7.0	75-130	13
	BLANK DUP	072694	59	0	50	ug/L	118			
1,1-Dichloroethene	BLANK	072694	65	0	50	ug/L	130	8.8	61-145	14
	BLANK DUP	072694	71	0	50	ug/L	142			
richloroethene	BLANK	072694	55	0	50	ug/L	110	7.0	71-120	14
	BLANK DUP	072694	59	0	50	ug/L	118			
Toluene	BLANK	072694	55	0	50	ug/L	110	5.3	76-125	13
	BLANK DUP	072694	58	0	50	ug/L	116			
-Dichloroethane (SURROGATE)	BLANK	072694	51	0	50	ug/L	102	N/A	76-114	N/A
	BLANK DUP	072694	49	0	50	ug/L	98			
8-Toluene (SURROGATE)	BLANK	072694	49	0	50	ug/L	98	N/A	88-110	N/A
	BLANK DUP	072694	49	0	50	ug/L	98			
4-Bromofluorobenzene (SURROGAT	BLANK	072694	52	0	50	ug/L	104	N/A	86-115	N/A
	BLANK DUP	072694	52	0	50	ug/L	104			

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QUALITY ASSURANCE FOOTER

METHOD REFERENCES

(1) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, November 1990, and July 1992 update
(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

All methods of chemical analysis have a statistical uncertainty associated with the results. Unless otherwise indicated, the data in this report are within the limits of uncertainty as specified in the referenced method. Quality control acceptance criteria are based either on actual laboratory performance or on limits specified in the referenced method. The date and time of analysis indicated on the QA report may not reflect the actual time of analysis for QC samples. All data reported on an "as received" basis unless otherwise indicated. Data reported in the QA report may be lower than sample data due to dilution of samples into the calibration range of the analysis. Sample concentrations for solid samples are calculated on an as received (wet) basis.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference
(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
SB = Storage Blank
CS = Calibration Standard
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
RS = Reference Standard
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard

SUBCONTRACTED LABORATORY LOCATIONS

Core Laboratories:	Aurora, Colorado(ELAP #1933)	*AU
	Casper, Wyoming	*CA
	Corpus Christi, Texas	*CC
	Houston, Texas	*HP
	Lake Charles, Louisiana	*LC
	Long Beach, California	*LB
Aquatic Testing Laboratories:		
	Ventura, California	*AT

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WESTERN ATLAS

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CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941941
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/22/94

Signature

8/24/94
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

C A. E. L. A. P. 1174
L. A. C. S. D. 10146

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WESTERN ATLAS

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Case Narrative

Job Number 941941

EPA METHOD 8240

Your samples were analyzed for volatile organics by EPA method 8240.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

Method blanks analyzed with your samples met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes.

Samples 941941-3ms and 941941-4msd were designated in this batch to be used for matrix spike and spike duplicate analysis.

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Case Narrative

Job Number 941941

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria:

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

Samples 941941-3ms and 941941-4msd were designated in this batch to be used for matrix spike/spike duplicate analysis.

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Case Narrative

Job Number 941941

Lead Analysis

The samples associated with this batch were analyzed for lead by EPA 6010 (technically equivalent to EPA 7420).

All method criteria was within tolerances. 941941-2,3,4 was designated in this batch to be used for MS/MSD analysis.

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/05/94
ME SAMPLED.....: 16:10
WORK DESCRIPTION...: 05-005 RBH 1.5

LABORATORY I.D...: 941941-0001
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
latile Organics by GC/MS		*1		EPA 8240	08/09/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	105	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	108	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	74-121% QC LIMITS		
al Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:10
WORK DESCRIPTION...: 05-005 RBH 1.5

LABORATORY I.D...: 941941-0001
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/12/94	RVJ
Lead (Pb)	12	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: 05-005 RBH 6.5'-8'

LABORATORY I.D...: 941941-0002
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/09/94	CIS
Acetone	29	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	87	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	95	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: 05-005 RBH 6.5'-8'

LABORATORY I.D...: 941941-0002
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	<10	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: 05-005 RBH 6.5'-8' Matrix Spike

LABORATORY I.D...: 941941-0003
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/09/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	58	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	54	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	70	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	56	5	ug/kg	EPA 8240		
Toluene	57	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	91	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	97	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: 05-005 RBH 6.5'-8' Matrix Spike

LABORATORY I.D...: 941941-0003
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	470	10	mg/kg	EPA 8015 (modified)		
Gasoline	840	100	ug/kg	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	100	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: 05-005 RBH 6.5'-8' Matrix Spike Duplicat

LABORATORY I.D...: 941941-0004
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/09/94	CIS
Acetone	27	10	ug/kg	EPA 8240		
Benzene	58	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	55	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	67	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	57	5	ug/kg	EPA 8240		
Toluene	57	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	96	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	93	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: 05-005 RBH 6.5'-8' Matrix Spike Duplicat

LABORATORY I.D...: 941941-0004
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brssly-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	480	10	mg/kg	EPA 8015 (modified)		
Gasoline	1000	100	ug/kg	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	97	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:15
WORK DESCRIPTION...: 05-005 RBH 6'

LABORATORY I.D...: 941941-0005
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
Volatile Organics by GC/MS		*1		EPA 8240	08/10/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	98	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	98	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:15
WORK DESCRIPTION...: 05-005 RBH 6'

LABORATORY I.D...: 941941-0005
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/12/94	RVJ
Lead (Pb)	<10	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

ENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/05/94
IME SAMPLED.....: 16:45
WORK DESCRIPTION...: 05-005 RBH 11.5

LABORATORY I.D...: 941941-0006
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
d Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
olatile Organics by GC/MS		*1		EPA 8240	08/10/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	100	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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(714) 937-1094

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:45
WORK DESCRIPTION...: 05-005 RBH 11.5

LABORATORY I.D...: 941941-0006
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/15/94	RVJ
Lead (Pb)	<10	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/05/94
ME SAMPLED.....: 16:57
WORK DESCRIPTION...: 05-005 RBH 11.5'-13.0' Dup

LABORATORY I.D...: 941941-0007
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/12/94	ST
latile Organics by GC/MS		*1		EPA 8240	08/10/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	5	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	93	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	101	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	74-121% QC LIMITS		
tal Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/15/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 16:57
WORK DESCRIPTION...: 05-005 RBH 11.5'-13.0' Dup

LABORATORY I.D...: 941941-0007
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 2 brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/15/94	RVJ
Lead (Pb)	<10	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 17:00
WORK DESCRIPTION...: FB-1

LABORATORY I.D...: 941941-0008
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 1 .5LP-/3 voas-Field Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/10/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	47	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	12	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	97	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	95	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	99	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/11/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 17:00
WORK DESCRIPTION...: FB-1

LABORATORY I.D...: 941941-0008
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 1 .5LP-/3 voas-Field Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	<0.100	0.100	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 17:00
WORK DESCRIPTION...: EB-5

LABORATORY I.D...: 941941-0009
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 1 .5LP-/3 voas-Equip Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/10/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	92	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	98	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/11/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/05/94
TIME SAMPLED.....: 17:00
WORK DESCRIPTION...: EB-5

LABORATORY I.D...: 941941-0009
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 1 .5LP-/3 voas-Equip Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	<0.100	0.100	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: / /
ME SAMPLED.....: :
WORK DESCRIPTION...: Trip Blank

LABORATORY I.D...: 941941-0010
DATE RECEIVED....: 08/06/94
TIME RECEIVED....: 11:00
REMARKS.....: 1 voa vial-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
latile Organics by GC/MS		*1		EPA 8240	08/10/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	94	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		

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WESTERN ATLAS

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Gasoline REPORTING LIMIT/DF: 100 UNITS:ug/kg				DATE/TIME ANALYZED:08/12/94 00:00 METHOD REFERENCE :EPA 8015 (modified)						QC BATCH NUMBER:936753 TECHNICIAN:RVJ
BLANK	METHOD	MB081294	<100							
SPIKE	MATRIX	941905-14	750					0	1000	75
SPIKE	MATRIX DUP	941905-14	700					0	1000	70
PARAMETER:Gasoline REPORTING LIMIT/DF: 100 UNITS:ug/L				DATE/TIME ANALYZED:08/11/94 00:00 METHOD REFERENCE :EPA 8015 (modified)						QC BATCH NUMBER:936756 TECHNICIAN:RVJ
BLANK	METHOD	MB081194	<100							
SPIKE	MATRIX	941941-9	1200					0	1000	120
SPIKE	MATRIX DUP	941941-9	1300					0	1000	130
PARAMETER:Gasoline REPORTING LIMIT/DF: 100 UNITS:ug/kg				DATE/TIME ANALYZED:08/11/94 00:00 METHOD REFERENCE :EPA 8015 (modified)						QC BATCH NUMBER:936758 TECHNICIAN:RVJ
BLANK	METHOD	MB081194	<100							
SPIKE	MATRIX	941941-2	840					0	1000	84
SPIKE	MATRIX DUP	941941-2	1000					0	1000	100
PARAMETER:Gasoline REPORTING LIMIT/DF: 100 UNITS:ug/kg				DATE/TIME ANALYZED:08/15/94 00:00 METHOD REFERENCE :EPA 8015 (modified)						QC BATCH NUMBER:936780 TECHNICIAN:RVJ
BLANK	METHOD	MB081594	<100							
SPIKE	MATRIX	941941-2	840					0	1000	84
SPIKE	MATRIX DUP	941941-2	1000					0	1000	100
PARAMETER:Lead (Pb) REPORTING LIMIT/DF: 0.100 UNITS:mg/L				DATE/TIME ANALYZED:08/19/94 13:54 METHOD REFERENCE :EPA 6010						QC BATCH NUMBER:936963 TECHNICIAN:VB
BLANK	ICB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	MB	081794MB	<0.100							
BLANK	CCB	081994	0.111							
STANDARD	ICV	M94267	1.06			1.00	106			
STANDARD	CCV	M94267	1.14			1.00	114			
STANDARD	CCV	M94267	0.964			1.00	96			
STANDARD	LCS	081794LCS	0.859			1.00	86			
STANDARD	CCV	M94267	0.914			1.00	91			
STANDARD	CCV	M94267	0.995			1.00	100			
SPIKE	MATRIX	941941-7	102					9.8	100	92
SPIKE	MATRIX	941941-7	105					9.8	100	95
SPIKE	MATRIX	941941-3	106					0	100	106
SPIKE	MATRIX	941941-4	96.8					0	100	97
SPIKE	MATRIX	941979-8	97.7					0.74	100	97
SPIKE	MATRIX	941979-8	99.0					0.74	100	98
DUPLICATE	MS/MSD	941941-3	106	96.8	9					

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/19/94 13:54						QC BATCH NUMBER:936963
REPORTING LIMIT/DF: 0.100			UNITS:mg/L	METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
DUPLICATE	MS/MSD	941941-7	102	105	3					
DUPLICATE	MS/MSD	941979-8	977	990	1					

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/11/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936846

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	081194	1	<10	10	mg/L

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/11/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936846

MATRIX SPIKES

JOB DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	Matrix	941849-18	1	390	0	500	78	10	mg/L
	Matrix Dup	941849-18	1	400	0	500	80	10	mg/L

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/15/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936854

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	Method	081594	1	<10	10	mg/kg

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QUALITY ASSURANCE REPORT
08/22/94

NUMBER: 941941 CUSTOMER: Operational Technologies ATTN: John Morris

al Petroleum Hydrocarbons DATE ANALYZED: 08/15/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936854

MATRIX SPIKES

CRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	Matrix	941941-3	1	470	0	500	94	10	mg/kg
	Matrix Dup	941941-4	1	480	0	500	96	10	mg/kg

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941941 DATE ANALYZED: 8/9/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASUR
Acetone	METHOD	080994	1	ND	10	ug/kg
Benzene	METHOD	080994	1	ND	5	ug/kg
Bromodichloromethane	METHOD	080994	1	ND	5	ug/kg
Bromoform	METHOD	080994	1	ND	5	ug/kg
Bromomethane	METHOD	080994	1	ND	10	ug/kg
2-Butanone	METHOD	080994	1	ND	10	ug/kg
Carbon disulfide	METHOD	080994	1	ND	5	ug/kg
Carbon tetrachloride	METHOD	080994	1	ND	5	ug/kg
Chlorobenzene	METHOD	080994	1	ND	5	ug/kg
Chlorodibromomethane	METHOD	080994	1	ND	5	ug/kg
Chloroethane	METHOD	080994	1	ND	10	ug/kg
2-Chloroethylvinyl ether	METHOD	080994	1	ND	10	ug/kg
Chloroform	METHOD	080994	1	ND	5	ug/kg
Chloromethane	METHOD	080994	1	ND	10	ug/kg
1,1-Dichloroethane	METHOD	080994	1	ND	5	ug/kg
1,2-Dichloroethene	METHOD	080994	1	ND	5	ug/kg
1,1-Dichloroethene	METHOD	080994	1	ND	5	ug/kg
1,2-Dichloroethene (total)	METHOD	080994	1	ND	5	ug/kg
1,2-Dichloropropane	METHOD	080994	1	ND	5	ug/kg
cis-1,3-Dichloropropene	METHOD	080994	1	ND	5	ug/kg
trans-1,3-Dichloropropene	METHOD	080994	1	ND	5	ug/kg
Ethylbenzene	METHOD	080994	1	ND	5	ug/kg
2-Hexanone	METHOD	080994	1	ND	10	ug/kg
Methylene chloride	METHOD	080994	1	ND	5	ug/kg
4-Methyl-2-pentanone	METHOD	080994	1	ND	10	ug/kg
Styrene	METHOD	080994	1	ND	5	ug/kg
1,1,2,2-Tetrachloroethane	METHOD	080994	1	ND	5	ug/kg
Tetrachloroethene	METHOD	080994	1	ND	5	ug/kg
Toluene	METHOD	080994	1	ND	5	ug/kg
1,1,1-Trichloroethane	METHOD	080994	1	ND	5	ug/kg
1,1,2-Trichloroethane	METHOD	080994	1	ND	5	ug/kg
Trichloroethene	METHOD	080994	1	ND	5	ug/kg
Vinyl acetate	METHOD	080994	1	ND	5	ug/kg
Vinyl chloride	METHOD	080994	1	ND	10	ug/kg
Total xylenes	METHOD	080994	1	ND	5	ug/kg
d4-1,2-Dichloroethane (SURROGATE)	METHOD	080994	1	90	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	080994	1	104	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	080994	1	104	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941941 DATE ANALYZED: 8/9/94

MATRIX SPIKES

EST ESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941941-3	58	0	50	ug/kg	116	0.0	66-142	21
	MATRIX DUP	941941-4	58	0	50	ug/kg	116			
hlorobenzene	MATRIX	941941-3	54	0	50	ug/kg	108	1.8	60-133	21
	MATRIX DUP	941941-4	55	0	50	ug/kg	110			
,1-Dichloroethene	MATRIX	941941-3	70	0	50	ug/kg	140	4.4	59-172	22
	MATRIX DUP	941941-4	67	0	50	ug/kg	134			
richloroethene	MATRIX	941941-3	56	0	50	ug/kg	112	1.8	62-137	24
	MATRIX DUP	941941-4	57	0	50	ug/kg	114			
oluene	MATRIX	941941-3	57	0	50	ug/kg	114	0.0	59-139	21
	MATRIX DUP	941941-4	57	0	50	ug/kg	114			
d4-Dichloroethane (SURROGATE)	MATRIX	941941-3	46	0	50	ug/kg	92	N/A	70-121	N/A
	MATRIX DUP	941941-4	48	0	50	ug/kg	96			
8-Toluene (SURROGATE)	MATRIX	941941-3	51	0	50	ug/kg	102	N/A	84-138	N/A
	MATRIX DUP	941941-4	50	0	50	ug/kg	100			
4-Bromofluorobenzene (SURROGAT	MATRIX	941941-3	49	0	50	ug/kg	98	N/A	59-113	N/A
	MATRIX DUP	941941-4	46	0	50	ug/kg	92			

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QUALITY ASSURANCE FOOTER

METHOD REFERENCES

(1) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, November 1990, and July 1992 update
(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

All methods of chemical analysis have a statistical uncertainty associated with the results. Unless otherwise indicated, the data in this report are within the limits of uncertainty as specified in the referenced method. Quality control acceptance criteria are based either on actual laboratory performance or on limits specified in the referenced method. The date and time of analysis indicated on the QA report may not reflect the actual time of analysis for QC samples. All data reported on an "as received" basis unless otherwise indicated. Data reported in the QA report may be lower than sample data due to dilution of samples into the calibration range of the analysis. Sample concentrations for solid samples are calculated on an as received (wet) basis.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference
(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
SB = Storage Blank
CS = Calibration Standard
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
RS = Reference Standard
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard

SUBCONTRACTED LABORATORY LOCATIONS

Core Laboratories:	Aurora, Colorado(ELAP #1933)	*AU
	Casper, Wyoming	*CA
	Corpus Christi, Texas	*CC
	Houston, Texas	*HP
	Lake Charles, Louisiana	*LC
	Long Beach, California	*LB
Aquatic Testing Laboratories:		
	Ventura, California	*AT

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CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941953
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/24/94

Signature

8/25/94
Date:

Name: Timothy A. Scott

Title: Laboratory Manager

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CA. E. L A. P. 1174
L. A. C. S. D. 10146

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Case Narrative

Job Number 941953

Lead Analysis

The samples associated with this batch were analyzed for lead by EPA 6010 (technically equivalent to EPA 7420).

All method criteria was within tolerances. No sample was designated in this batch to be used for MS/MSD analysis.

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Case Narrative

Job Number 941953

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria.

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

No sample was designated in this batch to be used for matrix spike/spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

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Case Narrative

Job Number 941953

EPA METHOD 8240

Your samples were analyzed for volatile organics by EPA method 8240.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

The method blanks analyzed with your samples met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes with the following exceptions:

Samples 941953-5,8,11,12 & 13 had high recovery for toluene-d8. Samples 941953-9,12 & 13 also had high recovery for bromofluorobenzene. Re-analysis confirmed this to be a matrix problem.

No sample was designated in this batch to be used for matrix spike and spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 08:35
WORK DESCRIPTION...: 05-001R-BH 1.5'

LABORATORY I.D...: 941953-0001
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/12/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	108	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	109	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	90	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/18/94	RW

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 08:35
WORK DESCRIPTION...: 05-001R-BH 1.5'

LABORATORY I.D...: 941953-0001
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/15/94	RVJ
Lead (Pb)	16	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 09:06
WORK DESCRIPTION...: 05-001R-BH 11.5'

LABORATORY I.D...: 941953-0002
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/12/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	102	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 09:06
WORK DESCRIPTION...: 05-001R-BH 11.5'

LABORATORY I.D...: 941953-0002
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/15/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: 05-001R-BH 11.5' Duplicate

LABORATORY I.D...: 941953-0003
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/12/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	106	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	97	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: 05-001R-BH 11.5' Duplicate

LABORATORY I.D...: 941953-0003
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/15/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 09:27
WORK DESCRIPTION...: 05-001R-BH 14'-15.5'

LABORATORY I.D...: 941953-0004
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/12/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	110	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	121	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 09:27
WORK DESCRIPTION...: 05-001R-BH 14'-15.5'

LABORATORY I.D...: 941953-0004
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/15/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 10:38
WORK DESCRIPTION...: 05-002R-BH 2'

LABORATORY I.D...: 941953-0005
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/15/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	6	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	100	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	115(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	84	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 10:38
WORK DESCRIPTION...: 05-002R-BH 2'

LABORATORY I.D...: 941953-0005
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	2200	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	8.7	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 10:58
WORK DESCRIPTION...: 05-002R-BH 11'

LABORATORY I.D....: 941953-0006
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*5		EPA 8240	08/15/94	CIS
Acetone	59	50	ug/kg	EPA 8240		
Benzene	ND	25	ug/kg	EPA 8240		
Bromodichloromethane	ND	25	ug/kg	EPA 8240		
Bromoform	ND	25	ug/kg	EPA 8240		
Bromomethane	ND	50	ug/kg	EPA 8240		
2-Butanone	ND	50	ug/kg	EPA 8240		
Carbon disulfide	30	25	ug/kg	EPA 8240		
Carbon tetrachloride	ND	25	ug/kg	EPA 8240		
Chlorobenzene	ND	25	ug/kg	EPA 8240		
Chlorodibromomethane	ND	25	ug/kg	EPA 8240		
Chloroethane	ND	50	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	50	ug/kg	EPA 8240		
Chloroform	ND	25	ug/kg	EPA 8240		
Chloromethane	ND	50	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	25	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	25	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	25	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	25	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	25	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	25	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	25	ug/kg	EPA 8240		
Ethylbenzene	ND	25	ug/kg	EPA 8240		
2-Hexanone	ND	50	ug/kg	EPA 8240		
Methylene Chloride	ND	25	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	50	ug/kg	EPA 8240		
Styrene	ND	25	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	25	ug/kg	EPA 8240		
Tetrachloroethene	ND	25	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	25	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	25	ug/kg	EPA 8240		
Trichloroethene	ND	25	ug/kg	EPA 8240		
Toluene	ND	25	ug/kg	EPA 8240		
Vinyl acetate	ND	50	ug/kg	EPA 8240		
Vinyl chloride	ND	50	ug/kg	EPA 8240		
Total Xylenes	ND	25	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	102	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

1250 Gene Autry Way
Anaheim, CA 92805
(714) 937-1094

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 10:58
WORK DESCRIPTION...: 05-002R-BH 11'

LABORATORY I.D...: 941953-0006
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	1100	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

LIENT I.D.....: Hayward ANG 1315-115
ATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 11:14
WORK DESCRIPTION...: 05-002R-BH 15'

LABORATORY I.D...: 941953-0007
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
cid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/12/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	106	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 11:14
WORK DESCRIPTION...: 05-002R-BH 15'

LABORATORY I.D...: 941953-0007
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 11:57
WORK DESCRIPTION...: 05-003R-BH 1.5'

LABORATORY I.D...: 941953-0008
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/15/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	6	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	100	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	118(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	82	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 11:57
WORK DESCRIPTION...: 05-003R-BH 1.5'

LABORATORY I.D...: 941953-0008
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	18	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 12:26
WORK DESCRIPTION...: 05-003R-BH 11'

LABORATORY I.D...: 941953-0009
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*5		EPA 8240	08/15/94	CIS
Acetone	ND	50	ug/kg	EPA 8240		
Benzene	30	25	ug/kg	EPA 8240		
Bromodichloromethane	ND	25	ug/kg	EPA 8240		
Bromoform	ND	25	ug/kg	EPA 8240		
Bromomethane	ND	50	ug/kg	EPA 8240		
2-Butanone	ND	50	ug/kg	EPA 8240		
Carbon disulfide	30	25	ug/kg	EPA 8240		
Carbon tetrachloride	ND	25	ug/kg	EPA 8240		
Chlorobenzene	ND	25	ug/kg	EPA 8240		
Chlorodibromomethane	ND	25	ug/kg	EPA 8240		
Chloroethane	ND	50	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	50	ug/kg	EPA 8240		
Chloroform	ND	25	ug/kg	EPA 8240		
Chloromethane	ND	50	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	25	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	25	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	25	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	25	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	25	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	25	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	25	ug/kg	EPA 8240		
Ethylbenzene	ND	25	ug/kg	EPA 8240		
2-Hexanone	ND	50	ug/kg	EPA 8240		
Methylene Chloride	ND	25	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	50	ug/kg	EPA 8240		
Styrene	ND	25	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	25	ug/kg	EPA 8240		
Tetrachloroethene	ND	25	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	25	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	25	ug/kg	EPA 8240		
Trichloroethene	ND	25	ug/kg	EPA 8240		
Toluene	ND	25	ug/kg	EPA 8240		
Vinyl acetate	ND	50	ug/kg	EPA 8240		
Vinyl chloride	ND	50	ug/kg	EPA 8240		
Total Xylenes	ND	25	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	110	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	144(a)	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 12:26
WORK DESCRIPTION...: 05-003R-BH 11'

LABORATORY I.D...: 941953-0009
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	3200	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	8.5	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 12:29
WORK DESCRIPTION...: 05-003R-BH 15'

LABORATORY I.D...: 941953-0010
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/15/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	106	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 12:29
WORK DESCRIPTION...: 05-003R-BH 15'

LABORATORY I.D...: 941953-0010
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	1200	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	11	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 13:12
WORK DESCRIPTION...: 05-004R-BH 1.5'

LABORATORY I.D...: 941953-0011
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
cid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/12/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	23	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	108	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	117(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	88	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 13:12
WORK DESCRIPTION...: 05-004R-BH 1.5'

LABORATORY I.D...: 941953-0011
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<500	500	ug/kg	EPA 8015 (modified)	08/18/94	RW
Lead (Pb)	37	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 13:16
WORK DESCRIPTION...: 05-004R-BH 6'

LABORATORY I.D...: 941953-0012
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*100		EPA 8240	08/15/94	CIS
Acetone	ND	1000	ug/kg	EPA 8240		
Benzene	ND	500	ug/kg	EPA 8240		
Bromodichloromethane	ND	500	ug/kg	EPA 8240		
Bromoform	ND	500	ug/kg	EPA 8240		
Bromomethane	ND	1000	ug/kg	EPA 8240		
2-Butanone	ND	1000	ug/kg	EPA 8240		
Carbon disulfide	ND	500	ug/kg	EPA 8240		
Carbon tetrachloride	ND	500	ug/kg	EPA 8240		
Chlorobenzene	ND	500	ug/kg	EPA 8240		
Chlorodibromomethane	ND	500	ug/kg	EPA 8240		
Chloroethane	ND	1000	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	1000	ug/kg	EPA 8240		
Chloroform	ND	500	ug/kg	EPA 8240		
Chloromethane	ND	1000	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	500	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	500	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	500	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	500	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	500	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	500	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	500	ug/kg	EPA 8240		
Ethylbenzene	ND	500	ug/kg	EPA 8240		
2-Hexanone	ND	1000	ug/kg	EPA 8240		
Methylene Chloride	ND	500	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	1000	ug/kg	EPA 8240		
Styrene	ND	500	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	500	ug/kg	EPA 8240		
Tetrachloroethene	ND	500	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	500	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	500	ug/kg	EPA 8240		
Trichloroethene	ND	500	ug/kg	EPA 8240		
Toluene	ND	500	ug/kg	EPA 8240		
Vinyl acetate	ND	1000	ug/kg	EPA 8240		
Vinyl chloride	ND	1000	ug/kg	EPA 8240		
Total Xylenes	ND	500	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	106	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	123(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	142(a)	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 13:16
WORK DESCRIPTION...: 05-004R-BH 6'

LABORATORY I.D...: 941953-0012
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	19000	100	ug/kg	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	16	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 13:45
WORK DESCRIPTION...: 05-004R-BH 11'

LABORATORY I.D....: 941953-0013
DATE RECEIVED.....: 08/09/94
TIME RECEIVED.....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*100		EPA 8240	08/17/94	CIS
Acetone	ND	1000	ug/kg	EPA 8240		
Benzene	ND	500	ug/kg	EPA 8240		
Bromodichloromethane	ND	500	ug/kg	EPA 8240		
Bromoform	ND	500	ug/kg	EPA 8240		
Bromomethane	ND	1000	ug/kg	EPA 8240		
2-Butanone	ND	1000	ug/kg	EPA 8240		
Carbon disulfide	ND	500	ug/kg	EPA 8240		
Carbon tetrachloride	ND	500	ug/kg	EPA 8240		
Chlorobenzene	ND	500	ug/kg	EPA 8240		
Chlorodibromomethane	ND	500	ug/kg	EPA 8240		
Chloroethane	ND	1000	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	1000	ug/kg	EPA 8240		
Chloroform	ND	500	ug/kg	EPA 8240		
Chloromethane	ND	1000	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	500	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	500	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	500	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	500	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	500	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	500	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	500	ug/kg	EPA 8240		
Ethylbenzene	ND	500	ug/kg	EPA 8240		
2-Hexanone	ND	1000	ug/kg	EPA 8240		
Methylene Chloride	ND	500	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	1000	ug/kg	EPA 8240		
Styrene	ND	500	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	500	ug/kg	EPA 8240		
Tetrachloroethene	ND	500	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	500	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	500	ug/kg	EPA 8240		
Trichloroethene	ND	500	ug/kg	EPA 8240		
Toluene	ND	500	ug/kg	EPA 8240		
Vinyl acetate	ND	1000	ug/kg	EPA 8240		
Vinyl chloride	ND	1000	ug/kg	EPA 8240		
Total Xylenes	ND	500	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	92	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	119(a)	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	128(a)	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/16/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
11/01/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 13:45
WORK DESCRIPTION...: 05-004R-BH 11'

LABORATORY I.D...: 941953-0013
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 2 sleeves-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	8400	500	ug/kg	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<5.0	5.0	mg/kg	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/15/94	RVJ
Raw Data Required (Metals)	N/A				N/A	N/A
Raw Data Required (Organics)	N/A				N/A	N/A

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 15:00
WORK DESCRIPTION...: EB-6

LABORATORY I.D...: 941953-0014
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 .5LP-3 voas-Equipment Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/15/94	CIS
Acetone	11	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	14	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	108	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/11/94	RVJ
Diesel	620	10	mg/L	EPA 8015 (modified)		

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 15:00
WORK DESCRIPTION...: EB-6

LABORATORY I.D...: 941953-0014
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 .5LP-3 voas-Equipment Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	<0.050	0.050	mg/L	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 15:00
WORK DESCRIPTION...: FB-2

LABORATORY I.D...: 941953-0015
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 .5LP-3 voas-Field Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/15/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	52	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	26	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	106	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	102	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/11/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/06/94
TIME SAMPLED.....: 15:00
WORK DESCRIPTION...: FB-2

LABORATORY I.D...: 941953-0015
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 .5LP-3 voas-Field Blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/11/94	RVJ
Lead (Pb)	<0.050	0.050	mg/L	EPA 6010	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/11/94	RVJ

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LABORATORY TESTS RESULTS
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

LIENT I.D.....: Hayward ANG 1315-115
ATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: Trip Blank

LABORATORY I.D...: 941953-0016
DATE RECEIVED....: 08/09/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 voa vial-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
olatile Organics by GC/MS		*1		EPA 8240	08/15/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	108	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		

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QUALITY ASSURANCE REPORT
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/11/94 00:00						QC BATCH NUMBER:936756
REPORTING LIMIT/DF: 100	UNITS:ug/L			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB081194	<100							
SPIKE	MATRIX	941941-9	1200					0	1000	120
SPIKE	MATRIX DUP	941941-9	1300					0	1000	130
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/15/94 00:00						QC BATCH NUMBER:936780
REPORTING LIMIT/DF: 100	UNITS:ug/kg			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB081594	<100							
SPIKE	MATRIX	941941-2	840					0	1000	84
SPIKE	MATRIX DUP	941941-2	1000					0	1000	100
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/15/94 16:14						QC BATCH NUMBER:936803
REPORTING LIMIT/DF: 0.50	UNITS:mg/L			METHOD REFERENCE :EPA 7420						TECHNICIAN:EAW
BLANK	ICB	IB081594	<0.50							
BLANK	MB	MB081294	<0.50							
BLANK	CCB	CB081594	<0.50							
BLANK	CCB	CB081594	<0.50							
BLANK	CCB	CB081594	<0.50							
BLANK	CCB	CB081594	<0.50							
BLANK	CCB	CB081594	<0.50							
STANDARD	ICVS	M94010	4.66			5.0	93			
STANDARD	LCS	M94135	1.02			1.0	102			
STANDARD	CCVS	M94009	2.06			2.0	103			
STANDARD	CCVS	M94010	4.71			5.0	94			
STANDARD	CCVS	M94010	4.70			5.0	94			
STANDARD	CCVS	M94010	4.70			5.0	94			
STANDARD	CCVS	M94010	5.04			5.0	101			
STANDARD	CCVS	M94010	5.05			5.0	101			
SPIKE	MATRIX	941990-1	5.16					0	5.0	103
SPIKE	MATRIX	941953-10	0.96					0	1.0	96
SPIKE	MATRIX	941976-6	1.48					0.36	1.0	112
SPIKE	MATRIX	941955-1	1.13					0	1.0	113
DUPLICATE	MS/MSD	941990-1	5.16	5.11	1					
DUPLICATE	MS/MSD	941953-10	0.96	0.93	0.03					
DUPLICATE	MS/MSD	941976-6	1.48	1.68	0.20					
DUPLICATE	MS/MSD	941955-1	1.13	1.09	0.04					
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/16/94 17:00						QC BATCH NUMBER:936844
REPORTING LIMIT/DF: 0.005	UNITS:mg/L			METHOD REFERENCE :EPA 7421						TECHNICIAN:VB
BLANK	ICB	IB081694	<0.005							
BLANK	MB	MB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
BLANK	MB	MB081294	<0.005							
BLANK	CCB	CB081694	<0.005							

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QUALITY ASSURANCE REPORT
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/16/94 17:00						QC BATCH NUMBER:936844
REPORTING LIMIT/DF: 0.005 UNITS:mg/L				METHOD REFERENCE :EPA 7421						TECHNICIAN:VB
BLANK	CCB	CB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
STANDARD	ICVS	I40384	0.038			0.050	76			
STANDARD	CCVS	I40384	0.042			0.050	84			
STANDARD	CCVS	I40384	0.053			0.050	106			
STANDARD	CCVS	I40384	0.052			0.050	104			
STANDARD	CCVS	I40384	0.050			0.050	100			
STANDARD	CCVS	I40384	0.112			0.100	112			
SPIKE	MATRIX	941972-1	0.068					0.008	0.050	120
DUPLICATE	MS/MSD	941972-1	0.068	0.069	1					
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/18/94 00:00						QC BATCH NUMBER:936934
REPORTING LIMIT/DF: 100 UNITS:ug/kg				METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RW
BLANK	METHOD	MB081894	<100							
SPIKE	MATRIX	941941-2	840					0	1000	84
SPIKE	MATRIX DUP	941941-2	1000					0	1000	100
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/19/94 00:00						QC BATCH NUMBER:936935
REPORTING LIMIT/DF: 100 UNITS:ug/kg				METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB081994	<100							
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/16/94 16:11						QC BATCH NUMBER:936945
REPORTING LIMIT/DF: 0.050 UNITS:mg/L				METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
BLANK	ICB	081794	0.084							
BLANK	CCB	081794	<0.050							
BLANK	CCB	081794	<0.050							
BLANK	CCB	081794	<0.050							
STANDARD	ICV	M94267	1.06			1.00	106			
STANDARD	CCV	M94267	0.988			1.00	99			
STANDARD	CCV	M94267	0.913			1.00	91			
STANDARD	CCV	M94267	0.830			1.00	83			
SPIKE	MATRIX	941953-10	88.9					10.9	100	78
SPIKE	MATRIX(c)	941953-10	67.8					10.9	100	57
DUPLICATE	MS/MSD	941953-10	88.9	67.8	27					

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QUALITY ASSURANCE REPORT
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/11/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936846

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	081194	1	<10	10	mg/L

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08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/11/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936846

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	Matrix	941849-18	1	390	0	500	78	10	mg/L
	Matrix Dup	941849-18	1	400	0	500	80	10	mg/L

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QUALITY ASSURANCE REPORT
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/18/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936922

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB081894	1	<10	10	mg/kg

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QUALITY ASSURANCE REPORT
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

otal Petroleum Hydrocarbons DATE ANALYZED: 08/18/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936922

MATRIX SPIKES

EST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
esel	MATRIX	941941-2	1	470	0	500	94	10	mg/kg
	MATRIX DUP	941941-2	1	480	0	500	96	10	mg/kg

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QUALITY ASSURANCE REPORT
08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/16/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936923

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB081694	1	<10	10	mg/kg

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08/24/94

JOB NUMBER: 941953 CUSTOMER: Operational Technologies ATTN: John Morris

otal Petroleum Hydrocarbons DATE ANALYZED: 08/16/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936923

MATRIX SPIKES

EST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
esel	MATRIX	941905-14	1	480	0	500	96	10	mg/kg
	MATRIX DUP	941905-14	1	480	0	500	96	10	mg/kg

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941953 DATE ANALYZED: 8/15/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081594	1	ND	10	ug/L
Benzene	METHOD	081594	1	ND	5	ug/L
Bromodichloromethane	METHOD	081594	1	ND	5	ug/L
Bromoform	METHOD	081594	1	ND	5	ug/L
Bromomethane	METHOD	081594	1	ND	10	ug/L
2-Butanone	METHOD	081594	1	ND	10	ug/L
Carbon disulfide	METHOD	081594	1	ND	5	ug/L
Carbon tetrachloride	METHOD	081594	1	ND	5	ug/L
Chlorobenzene	METHOD	081594	1	ND	5	ug/L
Chlorodibromomethane	METHOD	081594	1	ND	5	ug/L
Chloroethane	METHOD	081594	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	081594	1	ND	10	ug/L
Chloroform	METHOD	081594	1	ND	5	ug/L
Chloromethane	METHOD	081594	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	081594	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	081594	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	081594	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	081594	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	081594	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	081594	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	081594	1	ND	5	ug/L
Ethylbenzene	METHOD	081594	1	ND	5	ug/L
2-Hexanone	METHOD	081594	1	ND	10	ug/L
Methylene chloride	METHOD	081594	1	ND	5	ug/L
4-Methyl-2-pentanone	METHOD	081594	1	ND	10	ug/L
Styrene	METHOD	081594	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	081594	1	ND	5	ug/L
Tetrachloroethene	METHOD	081594	1	ND	5	ug/L
Toluene	METHOD	081594	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	081594	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	081594	1	ND	5	ug/L
Trichloroethene	METHOD	081594	1	ND	5	ug/L
Vinyl acetate	METHOD	081594	1	ND	5	ug/L
Vinyl chloride	METHOD	081594	1	ND	10	ug/L
Total xylenes	METHOD	081594	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	081594	1	101	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081594	1	98	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	081594	1	94	86-115	% recovery

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941953 DATE ANALYZED: 8/15/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941953-16	57	0	50	ug/L	114	0.0	76-127	11
	MATRIX DUP	941953-16	57	0	50	ug/L	114			
Chlorobenzene	MATRIX	941953-16	54	0	50	ug/L	108	0.0	75-130	13
	MATRIX DUP	941953-16	54	0	50	ug/L	108			
1,1-Dichloroethene	MATRIX	941953-16	67	0	50	ug/L	134	2.9	61-145	14
	MATRIX DUP	941953-16	69	0	50	ug/L	138			
Trichloroethene	MATRIX	941953-16	53	0	50	ug/L	106	0.0	71-120	14
	MATRIX DUP	941953-16	53	0	50	ug/L	106			
Toluene	MATRIX	941953-16	54	0	50	ug/L	108	1.8	76-125	13
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
1,2-Dichloroethane (SURROGATE)	MATRIX	941953-16	51	0	50	ug/L	102	N/A	76-114	N/A
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
d8-Toluene (SURROGATE)	MATRIX	941953-16	50	0	50	ug/L	100	N/A	88-110	N/A
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
4-Bromofluorobenzene (SURROGAT	MATRIX	941953-16	49	0	50	ug/L	98	N/A	86-115	N/A
	MATRIX DUP	941953-16	50	0	50	ug/L	100			

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WESTERN ATLAS

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941953 DATE ANALYZED: 8/12/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081294	1	ND	10	ug/kg
Benzene	METHOD	081294	1	ND	5	ug/kg
Bromodichloromethane	METHOD	081294	1	ND	5	ug/kg
Bromoform	METHOD	081294	1	ND	5	ug/kg
Bromomethane	METHOD	081294	1	ND	10	ug/kg
2-Butanone	METHOD	081294	1	ND	10	ug/kg
Carbon disulfide	METHOD	081294	1	ND	5	ug/kg
Carbon tetrachloride	METHOD	081294	1	ND	5	ug/kg
Chlorobenzene	METHOD	081294	1	ND	5	ug/kg
Chlorodibromomethane	METHOD	081294	1	ND	5	ug/kg
Chloroethane	METHOD	081294	1	ND	10	ug/kg
2-Chloroethylvinyl ether	METHOD	081294	1	ND	10	ug/kg
Chloroform	METHOD	081294	1	ND	5	ug/kg
Chloromethane	METHOD	081294	1	ND	10	ug/kg
1,1-Dichloroethane	METHOD	081294	1	ND	5	ug/kg
1,2-Dichloroethene	METHOD	081294	1	ND	5	ug/kg
1,1-Dichloroethene	METHOD	081294	1	ND	5	ug/kg
1,2-Dichloroethene (total)	METHOD	081294	1	ND	5	ug/kg
1,2-Dichloropropane	METHOD	081294	1	ND	5	ug/kg
cis-1,3-Dichloropropene	METHOD	081294	1	ND	5	ug/kg
trans-1,3-Dichloropropene	METHOD	081294	1	ND	5	ug/kg
Ethylbenzene	METHOD	081294	1	ND	5	ug/kg
2-Hexanone	METHOD	081294	1	ND	10	ug/kg
Methylene chloride	METHOD	081294	1	ND	5	ug/kg
4-Methyl-2-pentanone	METHOD	081294	1	ND	10	ug/kg
Styrene	METHOD	081294	1	ND	5	ug/kg
1,1,2,2-Tetrachloroethane	METHOD	081294	1	ND	5	ug/kg
Tetrachloroethene	METHOD	081294	1	ND	5	ug/kg
Toluene	METHOD	081294	1	ND	5	ug/kg
1,1,1-Trichloroethane	METHOD	081294	1	ND	5	ug/kg
1,1,2-Trichloroethane	METHOD	081294	1	ND	5	ug/kg
Trichloroethene	METHOD	081294	1	ND	5	ug/kg
Vinyl acetate	METHOD	081294	1	ND	5	ug/kg
Vinyl chloride	METHOD	081294	1	ND	10	ug/kg
Total xylenes	METHOD	081294	1	ND	5	ug/kg
d4-1,2-Dichloroethane (SURROGATE)	METHOD	081294	1	101	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081294	1	100	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	081294	1	96	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941953 DATE ANALYZED: 8/9/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941953-11	65	0	50	ug/kg	130	14.3	66-142	21
	MATRIX DUP	941953-11	75	0	50	ug/kg	150			
Chlorobenzene	MATRIX	941953-11	52	0	50	ug/kg	104	5.6	60-133	21
	MATRIX DUP	941953-11	55	0	50	ug/kg	110			
1,1-Dichloroethene	MATRIX	941953-11	66	0	50	ug/kg	132	8.7	59-172	22
	MATRIX DUP	941953-11	72	0	50	ug/kg	144			
Trichloroethene	MATRIX	941953-11	55	0	50	ug/kg	110	10.3	62-137	24
	MATRIX DUP	941953-11	61	0	50	ug/kg	122			
Toluene	MATRIX	941953-11	64	0	50	ug/kg	128	9.0	59-139	21
	MATRIX DUP	941953-11	70	0	50	ug/kg	140			
1,4-Dichloroethane (SURROGATE)	MATRIX	941953-11	53	0	50	ug/kg	106	N/A	70-121	N/A
	MATRIX DUP	941953-11	56	0	50	ug/kg	112			
d8-Toluene (SURROGATE)	MATRIX	941953-11	52	0	50	ug/kg	104	N/A	84-138	N/A
	MATRIX DUP	941953-11	65	0	50	ug/kg	130			
4-Bromofluorobenzene (SURROGAT	MATRIX	941953-11	42	0	50	ug/kg	84	N/A	59-113	N/A
	MATRIX DUP	941953-11	42	0	50	ug/kg	84			

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QUALITY ASSURANCE FOOTER

METHOD REFERENCES

(1) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, November 1990, and July 1992 update
(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

All methods of chemical analysis have a statistical uncertainty associated with the results. Unless otherwise indicated, the data in this report are within the limits of uncertainty as specified in the referenced method. Quality control acceptance criteria are based either on actual laboratory performance or on limits specified in the referenced method. The date and time of analysis indicated on the QA report may not reflect the actual time of analysis for QC samples. All data reported on an "as received" basis unless otherwise indicated. Data reported in the QA report may be lower than sample data due to dilution of samples into the calibration range of the analysis. Sample concentrations for solid samples are calculated on an as received (wet) basis. Unless otherwise indicated, volatiles by gas chromatograpy are reported from a single column.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference

(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
SB = Storage Blank
CS = Calibration Standard
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
RS = Reference Standard
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard

SUBCONTRACTED LABORATORY LOCATIONS

Core Laboratories:	Aurora, Colorado(ELAP #1933)	*AU
	Casper, Wyoming	*CA
	Corpus Christi, Texas	*CC
	Houston, Texas	*HP
	Lake Charles, Louisiana	*LC
	Long Beach, California	*LB
Aquatic Testing Laboratories:		
	Ventura, California	*AT

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WESTERN ATLAS

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CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941966
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/22/94

Signature

8/24/94
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

C A. E. L. A. P. 1174
L. A. C. S. D. 10146

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WESTERN ATLAS

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Case Narrative

Job Number 941966

EPA Method 624

Your samples were analyzed for volatile organics by EPA method 624.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

One method blank was analyzed with your samples and met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes.

No sample was designated in this batch to be used for matrix spike and spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating that the laboratory was in control.

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WESTERN ATLAS

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Case Narrative

Job Number 941966

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria.

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

No sample was designated in this batch to be used for matrix spike/spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

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Case Narrative

Job Number 941966

Lead Analysis

The samples associated with this batch were analyzed for lead by EPA 6010 and 7421 (both technically equivalent to EPA 7420).

All method criteria was within tolerances. No sample was designated in this batch to be used for MS/MSD analysis.

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 15:20
WORK DESCRIPTION...: 05-001 MWA

LABORATORY I.D...: 941966-0001
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	08/17/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	91	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	98	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	104	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 15:20
WORK DESCRIPTION...: 05-001 MWA

LABORATORY I.D...: 941966-0001
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	550	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<0.005	0.005	mg/L	EPA 7421	08/16/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: Trip Blank

LABORATORY I.D...: 941966-0002
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 voa vial-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	08/17/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	88	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	95	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 17:03
WORK DESCRIPTION...: 05-001 MWB

LABORATORY I.D...: 941966-0003
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/17/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	91	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	95	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 17:03
WORK DESCRIPTION...: 05-001 MWB

LABORATORY I.D...: 941966-0003
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	160	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
ad (Pb)	<0.005	0.005	mg/L	EPA 7421	08/16/94	VB
tal Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 18:40
WORK DESCRIPTION...: Field Blank

LABORATORY I.D...: 941966-0004
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-field blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	08/17/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	91	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	98	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	104	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 18:40
WORK DESCRIPTION...: Field Blank

LABORATORY I.D...: 941966-0004
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-field blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
soline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
al Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANGS 1315-115
DATE SAMPLED.....: 08/09/94
TIME SAMPLED.....: 18:40
WORK DESCRIPTION...: Equipment Blank

LABORATORY I.D...: 941966-0005
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-equip blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	08/17/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	90	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	96	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	97	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ
Diesel	ND	10	mg/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANGS 1315-115
TE SAMPLED.....: 08/09/94
ME SAMPLED.....: 18:40
WORK DESCRIPTION...: Equipment Blank

LABORATORY I.D...: 941966-0005
DATE RECEIVED....: 08/10/94
TIME RECEIVED....: 10:10
REMARKS.....: 1 .5LP-/3 voas-equip blank

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
soline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
ad (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/16/94 17:00						QC BATCH NUMBER:936844
REPORTING LIMIT/DF: 0.005	UNITS:mg/L			METHOD REFERENCE :EPA 7421						TECHNICIAN:VB
BLANK	ICB	IB081694	<0.005							
BLANK	MB	MB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
BLANK	MB	MB081294	<0.005							
BLANK	CCB	CB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
BLANK	CCB	CB081694	<0.005							
STANDARD	ICVS	I40384	0.038			0.050	76			
STANDARD	CCVS	I40384	0.042			0.050	84			
STANDARD	CCVS	I40384	0.053			0.050	106			
STANDARD	CCVS	I40384	0.052			0.050	104			
STANDARD	CCVS	I40384	0.050			0.050	100			
STANDARD	CCVS	I40384	0.112			0.100	112			
SPIKE	MATRIX	941972-1	0.068					0.008	0.050	120
DUPLICATE	MS/MSD	941972-1	0.068	0.069	1					
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/19/94 00:00						QC BATCH NUMBER:936936
REPORTING LIMIT/DF: 100	UNITS:ug/L			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB081994	<100							
SPIKE	MATRIX	941941-9	1200					0	1000	120
SPIKE	MATRIX DUP	941941-9	1300					0	1000	130
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/19/94 13:54						QC BATCH NUMBER:936963
REPORTING LIMIT/DF: 0.100	UNITS:mg/L			METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
BLANK	ICB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	MB	081794MB	<0.100							
BLANK	CCB	081994	0.111							
STANDARD	ICV	M94267	1.06			1.00	106			
STANDARD	CCV	M94267	1.14			1.00	114			
STANDARD	CCV	M94267	0.964			1.00	96			
STANDARD	LCS	081794LCS	0.859			1.00	86			
STANDARD	CCV	M94267	0.914			1.00	91			
STANDARD	CCV	M94267	0.995			1.00	100			
SPIKE	MATRIX	941941-7	102					9.8	100	92
SPIKE	MATRIX	941941-7	105					9.8	100	95
SPIKE	MATRIX	941941-3	106					0	100	106
SPIKE	MATRIX	941941-4	96.8					0	100	97
SPIKE	MATRIX	941979-8	97.7					0.74	100	97
SPIKE	MATRIX	941979-8	99.0					0.74	100	98
DUPLICATE	MS/MSD	941941-3	106	96.8	9					
DUPLICATE	MS/MSD	941941-7	102	105	3					

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT
08/22/94

B NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/19/94 13:54						QC BATCH NUMBER:936963
PORTING LIMIT/DF: 0.100 UNITS:mg/L				METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
DUPLICATE	MS/MSD	941979-8	977	990	1					

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936960

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB082094	1	<10	10	mg/L

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941966 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936960

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	MATRIX	941849-18	1	390	0	500	78	10	mg/L
	MATRIX DUP	941849-18	1	400	0	500	80	10	mg/L

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941966 DATE ANALYZED: 8/17/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081794	1	ND	10	ug/L
Benzene	METHOD	081794	1	ND	5	ug/L
Bromodichloromethane	METHOD	081794	1	ND	5	ug/L
Bromoform	METHOD	081794	1	ND	5	ug/L
Bromomethane	METHOD	081794	1	ND	10	ug/L
2-Butanone	METHOD	081794	1	ND	10	ug/L
Carbon disulfide	METHOD	081794	1	ND	5	ug/L
Carbon tetrachloride	METHOD	081794	1	ND	5	ug/L
Chlorobenzene	METHOD	081794	1	ND	5	ug/L
Chlorodibromomethane	METHOD	081794	1	ND	5	ug/L
Chloroethane	METHOD	081794	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	081794	1	ND	10	ug/L
Chloroform	METHOD	081794	1	ND	5	ug/L
Chloromethane	METHOD	081794	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	081794	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	081794	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	081794	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	081794	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	081794	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	081794	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	081794	1	ND	5	ug/L
Ethylbenzene	METHOD	081794	1	ND	5	ug/L
2-Hexanone	METHOD	081794	1	ND	10	ug/L
Methylene chloride	METHOD	081794	1	ND	15	ug/L
4-Methyl-2-pentanone	METHOD	081794	1	ND	10	ug/L
Styrene	METHOD	081794	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	081794	1	ND	5	ug/L
Tetrachloroethene	METHOD	081794	1	ND	5	ug/L
Toluene	METHOD	081794	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	081794	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	081794	1	ND	5	ug/L
Trichloroethene	METHOD	081794	1	ND	5	ug/L
Vinyl acetate	METHOD	081794	1	ND	5	ug/L
Vinyl chloride	METHOD	081794	1	ND	10	ug/L
Total xylenes	METHOD	081794	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	081794	1	102	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081794	1	102	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	081794	1	104	86-115	% recovery

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941966 DATE ANALYZED: 8/17/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941953-16	57	0	50	ug/L	114	0.0	76-127	11
	MATRIX DUP	941953-16	57	0	50	ug/L	114			
hlorobenzene	MATRIX	941953-16	54	0	50	ug/L	108	1.8	75-130	13
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
1,1-Dichloroethene	MATRIX	941953-16	67	0	50	ug/L	134	2.9	61-145	14
	MATRIX DUP	941953-16	69	0	50	ug/L	138			
richloroethene	MATRIX	941953-16	54	0	50	ug/L	108	1.9	71-120	14
	MATRIX DUP	941953-16	53	0	50	ug/L	106			
oluene	MATRIX	941953-16	55	0	50	ug/L	110	0.0	76-125	13
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
4-Dichloroethane (SURROGATE)	MATRIX	941953-16	51	0	50	ug/L	102	N/A	76-114	N/A
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
8-Toluene (SURROGATE)	MATRIX	941953-16	50	0	50	ug/L	100	N/A	88-110	N/A
	MATRIX DUP	941953-16	50	0	50	ug/L	100			
4-Bromofluorobenzene (SURROGAT	MATRIX	941953-16	49	0	50	ug/L	98	N/A	86-115	N/A
	MATRIX DUP	941953-16	50	0	50	ug/L	100			

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QUALITY ASSURANCE FOOTER

METHOD REFERENCES

(1) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, November 1990, and July 1992 update
(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

All methods of chemical analysis have a statistical uncertainty associated with the results. Unless otherwise indicated, the data in this report are within the limits of uncertainty as specified in the referenced method. Quality control acceptance criteria are based either on actual laboratory performance or on limits specified in the referenced method. The date and time of analysis indicated on the QA report may not reflect the actual time of analysis for QC samples. All data reported on an "as received" basis unless otherwise indicated. Data reported in the QA report may be lower than sample data due to dilution of samples into the calibration range of the analysis. Sample concentrations for solid samples are calculated on an as received (wet) basis. Unless otherwise indicated, volatiles by gas chromatograpy are reported from a single column.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference
(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
SB = Storage Blank
CS = Calibration Standard
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
RS = Reference Standard
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard

SUBCONTRACTED LABORATORY LOCATIONS

Core Laboratories:	Aurora, Colorado(ELAP #1933)	*AU
	Casper, Wyoming	*CA
	Corpus Christi, Texas	*CC
	Houston, Texas	*HP
	Lake Charles, Louisiana	*LC
	Long Beach, California	*LB
Aquatic Testing Laboratories:		
	Ventura, California	*AT

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WESTERN ATLAS

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CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941979
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/22/94

Signature

8/24/94
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

C A. E. L. A. P. 1174
L. A. C. S D 10146

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Case Narrative

Job Number 941979

Lead Analysis

The samples associated with this batch were analyzed for lead by EPA 6010 (technically equivalent to EPA 7420).

All method criteria was within tolerances. No sample was designated in this batch to be used for MS/MSD analysis.

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Case Narrative

Job Number 941979

EPA Method 624

Your samples were analyzed for volatile organics by EPA method 624.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

One method blank was analyzed with your samples and met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes.

No sample was designated in this batch to be used for matrix spike and spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating that the laboratory was in control.

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WESTERN ATLAS

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Case Narrative

Job Number 941979

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria.

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

No sample was designated in this batch to be used for matrix spike/spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 09:07
WORK DESCRIPTION...: 04-001 MW A

LABORATORY I.D...: 941979-0001
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	99	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 09:07
WORK DESCRIPTION...: 04-001 MW A

LABORATORY I.D...: 941979-0001
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/10/94
ME SAMPLED.....: 10:01
ORK DESCRIPTION...: 04-002 MW B

LABORATORY I.D...: 941979-0002
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

EST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
d Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	94	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	99	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 10:01
WORK DESCRIPTION...: 04-002 MW B

LABORATORY I.D...: 941979-0002
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 12:30
WORK DESCRIPTION...: BG-001 MW A

LABORATORY I.D...: 941979-0003
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	94	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 12:30
WORK DESCRIPTION...: BG-001 MW A

LABORATORY I.D...: 941979-0003
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 12:37
WORK DESCRIPTION...: BG-001 MW A DUP

LABORATORY I.D...: 941979-0004
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	101	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	99	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 12:37
WORK DESCRIPTION...: BG-001 MW A DUP

LABORATORY I.D...: 941979-0004
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	6.7	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 17:28
WORK DESCRIPTION...: 04-002 MW A

LABORATORY I.D...: 941979-0005
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	98	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	99	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	102	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 17:28
WORK DESCRIPTION...: 04-002 MW A

LABORATORY I.D...: 941979-0005
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	1000	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	8.3	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 13:40
WORK DESCRIPTION...: BG-001 MW B

LABORATORY I.D...: 941979-0006
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	96	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 13:40
WORK DESCRIPTION...: BG-001 MW B

LABORATORY I.D...: 941979-0006
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	250	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 16:00
WORK DESCRIPTION...: FB-2

LABORATORY I.D...: 941979-0007
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	N/A	-----	N/A	EPA 3020	N/A	N/A
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	91	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	97	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 16:00
WORK DESCRIPTION...: FB-2

LABORATORY I.D...: 941979-0007
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

B NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

IENT I.D.....: Hayward ANG 1315-115
TE SAMPLED.....: 08/10/94
IME SAMPLED.....: 15:52
WORK DESCRIPTION...: EB-2

LABORATORY I.D...: 941979-0008
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
id Digestion for GFAA and ICP/MS	N/A	-----	N/A	EPA 3020	N/A	N/A
latile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	11	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	14	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	94	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	93	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	99	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/10/94
TIME SAMPLED.....: 15:52
WORK DESCRIPTION...: EB-2

LABORATORY I.D...: 941979-0008
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 .5LP-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	7.4	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: TRIP BLANK

LABORATORY I.D...: 941979-0009
DATE RECEIVED....: 08/11/94
TIME RECEIVED....: 10:15
REMARKS.....: 1 via vial-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	08/18/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	93	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	101	0	% Recovery	86-115% QC LIMITS		

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WESTERN ATLAS

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/19/94 00:00						QC BATCH NUMBER:936936
REPORTING LIMIT/DF: 100	UNITS:ug/L			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB081994	<100							
SPIKE	MATRIX	941941-9	1200					0	1000	120
SPIKE	MATRIX DUP	941941-9	1300					0	1000	130
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/19/94 13:54						QC BATCH NUMBER:936963
REPORTING LIMIT/DF: 0.100	UNITS:mg/L			METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
BLANK	ICB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	MB	081794MB	<0.100							
BLANK	CCB	081994	0.111							
STANDARD	ICV	M94267	1.06			1.00	106			
STANDARD	CCV	M94267	1.14			1.00	114			
STANDARD	CCV	M94267	0.964			1.00	96			
STANDARD	LCS	081794LCS	0.859			1.00	86			
STANDARD	CCV	M94267	0.914			1.00	91			
STANDARD	CCV	M94267	0.995			1.00	100			
SPIKE	MATRIX	941941-7	102					9.8	100	92
SPIKE	MATRIX	941941-7	105					9.8	100	95
SPIKE	MATRIX	941941-3	106					0	100	106
SPIKE	MATRIX	941941-4	96.8					0	100	97
SPIKE	MATRIX	941979-8	97.7					0.74	100	97
SPIKE	MATRIX	941979-8	99.0					0.74	100	98
DUPLICATE	MS/MSD	941941-3	106	96.8	9					
DUPLICATE	MS/MSD	941941-7	102	105	3					
DUPLICATE	MS/MSD	941979-8	977	990	1					

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QUALITY ASSURANCE REPORT
08/22/94

LAB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936962

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB082094	1	<10	10	mg/L

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QUALITY ASSURANCE REPORT
08/22/94

JOB NUMBER: 941979 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936962

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	MATRIX	941966-5	1	190	0	250	76	10	mg/L
	MATRIX DUP	941966-5	1	210	0	250	84	10	mg/L

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941979 DATE ANALYZED: 8/18/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081894	1	ND	10	ug/L
Benzene	METHOD	081894	1	ND	5	ug/L
Bromodichloromethane	METHOD	081894	1	ND	5	ug/L
Bromoform	METHOD	081894	1	ND	5	ug/L
Bromomethane	METHOD	081894	1	ND	10	ug/L
2-Butanone	METHOD	081894	1	ND	10	ug/L
Carbon disulfide	METHOD	081894	1	ND	5	ug/L
Carbon tetrachloride	METHOD	081894	1	ND	5	ug/L
Chlorobenzene	METHOD	081894	1	ND	5	ug/L
Chlorodibromomethane	METHOD	081894	1	ND	5	ug/L
Chloroethane	METHOD	081894	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	081894	1	ND	10	ug/L
Chloroform	METHOD	081894	1	ND	5	ug/L
Chloromethane	METHOD	081894	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	081894	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	081894	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	081894	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	081894	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	081894	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	081894	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	081894	1	ND	5	ug/L
Ethylbenzene	METHOD	081894	1	ND	5	ug/L
2-Hexanone	METHOD	081894	1	ND	10	ug/L
Methylene chloride	METHOD	081894	1	ND	15	ug/L
4-Methyl-2-pentanone	METHOD	081894	1	ND	10	ug/L
Styrene	METHOD	081894	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	081894	1	ND	5	ug/L
Tetrachloroethene	METHOD	081894	1	ND	5	ug/L
Toluene	METHOD	081894	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	081894	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	081894	1	ND	5	ug/L
Trichloroethene	METHOD	081894	1	ND	5	ug/L
Vinyl acetate	METHOD	081894	1	ND	5	ug/L
Vinyl chloride	METHOD	081894	1	ND	10	ug/L
Total xylenes	METHOD	081894	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	081894	1	88	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081894	1	95	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	081894	1	97	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941979 DATE ANALYZED: 8/18/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941953-16	57	0	50	ug/L	114	0.0	76-127	11
	MATRIX DUP	941953-16	57	0	50	ug/L	114			
Chlorobenzene	MATRIX	941953-16	54	0	50	ug/L	108	1.8	75-130	13
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
1,1-Dichloroethene	MATRIX	941953-16	67	0	50	ug/L	134	2.9	61-145	14
	MATRIX DUP	941953-16	69	0	50	ug/L	138			
Trichloroethene	MATRIX	941953-16	54	0	50	ug/L	108	1.9	71-120	14
	MATRIX DUP	941953-16	53	0	50	ug/L	106			
Toluene	MATRIX	941953-16	55	0	50	ug/L	110	0.0	76-125	13
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
d4-Dichloroethane (SURROGATE)	MATRIX	941953-16	51	0	50	ug/L	102	N/A	76-114	N/A
	MATRIX DUP	941953-16	55	0	50	ug/L	110			
d8-Toluene (SURROGATE)	MATRIX	941953-16	50	0	50	ug/L	100	N/A	88-110	N/A
	MATRIX DUP	941953-16	50	0	50	ug/L	100			
4-Bromofluorobenzene (SURROGAT	MATRIX	941953-16	49	0	50	ug/L	98	N/A	86-115	N/A
	MATRIX DUP	941953-16	50	0	50	ug/L	100			

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CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941987
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/23/94

Signature

8/24/94
Date:

Name: Timothy A. Scott

Title: Laboratory Manager

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CA. E. L. A. P. 1174
L. A. C. S. D. 10146

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WESTERN ATLAS

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Case Narrative

Job Number 941987

EPA METHOD 8240

Your samples were analyzed for volatile organics by EPA method 8240.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

One method blank was analyzed with your samples and met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes with the following exceptions: Samples 941987-3 and 4 had high recovery for 4-BFB. Re-analysis gave similar results.

No sample was designated in this batch to be used for matrix spike and spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

Core Laboratories

Case Narrative

Job Number 941987

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria.

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

No sample was designated in this batch to be used for matrix spike/spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

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Case Narrative

Job Number 941987

Lead Analysis

The samples associated with this batch were analyzed for lead by EPA 6010 (technically equivalent to EPA 7420).

All method criteria was within tolerances. No sample was designated in this batch to be used for MS/MSD analysis.

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/19/94 00:00						QC BATCH NUMBER:936953
REPORTING LIMIT/DF: 100	UNITS:ug/L			METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB081994	<100							
SPIKE	MATRIX	941979-8	910					0	1000	91
SPIKE	MATRIX DUP	941979-8	980					0	1000	98
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/19/94 13:54						QC BATCH NUMBER:936963
REPORTING LIMIT/DF: 0.100	UNITS:mg/L			METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
BLANK	ICB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	MB	081794MB	<0.100							
BLANK	CCB	081994	0.111							
STANDARD	ICV	M94267	1.06			1.00	106			
STANDARD	CCV	M94267	1.14			1.00	114			
STANDARD	CCV	M94267	0.964			1.00	96			
STANDARD	LCS	081794LCS	0.859			1.00	86			
STANDARD	CCV	M94267	0.914			1.00	91			
STANDARD	CCV	M94267	0.995			1.00	100			
SPIKE	MATRIX	941941-7	102					9.8	100	92
SPIKE	MATRIX	941941-7	105					9.8	100	95
SPIKE	MATRIX	941941-3	106					0	100	106
SPIKE	MATRIX	941941-4	96.8					0	100	97
SPIKE	MATRIX	941979-8	97.7					0.74	100	97
SPIKE	MATRIX	941979-8	99.0					0.74	100	98
DUPLICATE	MS/MSD	941941-3	106	96.8	9					
DUPLICATE	MS/MSD	941941-7	102	105	3					
DUPLICATE	MS/MSD	941979-8	977	990	1					

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QUALITY ASSURANCE REPORT
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936962

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB082094	1	<10	10	mg/L

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QUALITY ASSURANCE REPORT
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

otal Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936962

MATRIX SPIKES

EST ESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
iesel	MATRIX	941966-5	1	190	0	250	76	10	mg/L
	MATRIX DUP	941966-5	1	210	0	250	84	10	mg/L

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941987 DATE ANALYZED: 8/19/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081994	1	ND	10	ug/L
Benzene	METHOD	081994	1	ND	5	ug/L
Bromodichloromethane	METHOD	081994	1	ND	5	ug/L
Bromoform	METHOD	081994	1	ND	5	ug/L
Bromomethane	METHOD	081994	1	ND	10	ug/L
2-Butanone	METHOD	081994	1	ND	10	ug/L
Carbon disulfide	METHOD	081994	1	ND	5	ug/L
Carbon tetrachloride	METHOD	081994	1	ND	5	ug/L
Chlorobenzene	METHOD	081994	1	ND	5	ug/L
Chlorodibromomethane	METHOD	081994	1	ND	5	ug/L
Chloroethane	METHOD	081994	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	081994	1	ND	10	ug/L
Chloroform	METHOD	081994	1	ND	5	ug/L
Chloromethane	METHOD	081994	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	081994	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	081994	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	081994	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	081994	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	081994	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	081994	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	081994	1	ND	5	ug/L
Ethylbenzene	METHOD	081994	1	ND	5	ug/L
2-Hexanone	METHOD	081994	1	ND	10	ug/L
Methylene chloride	METHOD	081994	1	ND	15	ug/L
4-Methyl-2-pentanone	METHOD	081994	1	ND	10	ug/L
Styrene	METHOD	081994	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	081994	1	ND	5	ug/L
Tetrachloroethene	METHOD	081994	1	ND	5	ug/L
Toluene	METHOD	081994	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	081994	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	081994	1	ND	5	ug/L
Trichloroethene	METHOD	081994	1	ND	5	ug/L
Vinyl acetate	METHOD	081994	1	ND	5	ug/L
Vinyl chloride	METHOD	081994	1	ND	10	ug/L
Total xylenes	METHOD	081994	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	081994	1	102	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081994	1	101	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	081994	1	104	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941987 DATE ANALYZED: 8/19/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941979-9	58	0	50	ug/L	116	1.7	76-127	11
	MATRIX DUP	941979-9	57	0	50	ug/L	114			
Chlorobenzene	MATRIX	941979-9	46	0	50	ug/L	92	16.0	75-130	13
	MATRIX DUP	941979-9	54	0	50	ug/L	108			
1,1-Dichloroethene	MATRIX	941979-9	62	0	50	ug/L	124	4.7	61-145	14
	MATRIX DUP	941979-9	65	0	50	ug/L	130			
Trichloroethene	MATRIX	941979-9	57	0	50	ug/L	114	3.6	71-120	14
	MATRIX DUP	941979-9	55	0	50	ug/L	110			
Toluene	MATRIX	941979-9	56	0	50	ug/L	112	1.8	76-125	13
	MATRIX DUP	941979-9	55	0	50	ug/L	110			
1,4-Dichloroethane (SURROGATE)	MATRIX	941979-9	45	0	50	ug/L	90	N/A	76-114	N/A
	MATRIX DUP	941979-9	44	0	50	ug/L	88			
d8-Toluene (SURROGATE)	MATRIX	941979-9	46	0	50	ug/L	92	N/A	88-110	N/A
	MATRIX DUP	941979-9	48	0	50	ug/L	96			
4-Bromofluorobenzene (SURROGAT	MATRIX	941979-9	48	0	50	ug/L	96	N/A	86-115	N/A
	MATRIX DUP	941979-9	49	0	50	ug/L	98			

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METHOD REFERENCES

(1) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, November 1990, and July 1992 update
(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

All methods of chemical analysis have a statistical uncertainty associated with the results. Unless otherwise indicated, the data in this report are within the limits of uncertainty as specified in the referenced method. Quality control acceptance criteria are based either on actual laboratory performance or on limits specified in the referenced method. The date and time of analysis indicated on the QA report may not reflect the actual time of analysis for QC samples. All data reported on an "as received" basis unless otherwise indicated. Data reported in the QA report may be lower than sample data due to dilution of samples into the calibration range of the analysis. Sample concentrations for solid samples are calculated on an as received (wet) basis. Unless otherwise indicated, volatiles by gas chromatograpy are reported from a single column.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference
(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
SB = Storage Blank
CS = Calibration Standard
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
RS = Reference Standard
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard

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Aquatic Testing Laboratories:		
	Ventura, California	*AT

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 13:48
WORK DESCRIPTION...: 05-003MW-A

LABORATORY I.D...: 941987-0002
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	104	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	97	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	108	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 13:48
WORK DESCRIPTION...: 05-003MW-A

LABORATORY I.D...: 941987-0002
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 14:34
WORK DESCRIPTION...: 05-003MW-B

LABORATORY I.D...: 941987-0003
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	100	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	119(a)	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 14:34
WORK DESCRIPTION...: 05-003MW-B

LABORATORY I.D...: 941987-0003
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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Anaheim, CA 92805
(714) 937-1094

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 18:00
WORK DESCRIPTION...: 05-002MW-A

LABORATORY I.D...: 941987-0004
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	102	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	99	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	120(a)	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 18:00
WORK DESCRIPTION...: 05-002MW-A

LABORATORY I.D...: 941987-0004
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	1200	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 13:58
WORK DESCRIPTION...: 05-002MW-B

LABORATORY I.D...: 941987-0005
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	104	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	115	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 13:58
WORK DESCRIPTION...: 05-002MW-B

LABORATORY I.D...: 941987-0005
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	1100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: Trip Blank

LABORATORY I.D...: 941987-0006
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 voa vial-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	107	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	109	0	% Recovery	86-115% QC LIMITS		

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 13:58
WORK DESCRIPTION...: 05-003MW-A-Duplicate

LABORATORY I.D...: 941987-0007
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	08/16/94	ST
Volatile Organics by GC/MS		*1		EPA 624	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	104	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	100	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	115	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941987 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/11/94
TIME SAMPLED.....: 13:58
WORK DESCRIPTION...: 05-003MW-A-Duplicate

LABORATORY I.D...: 941987-0007
DATE RECEIVED....: 08/12/94
TIME RECEIVED....: 09:20
REMARKS.....: 1 500mls-pls-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	08/19/94	RVJ
Lead (Pb)	<1.0	1.0	mg/L	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC

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WESTERN ATLAS

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CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 941996
Prepared For:

Operational Technologies
John Morris
4100 NW Loop 410
San Antonio, TX 78289

Date: 08/23/94

Signature

8/24/94
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

C A. E. L A. P. 1174
L A. C. S. D. 10146

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WESTERN ATLAS

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Case Narrative

Job Number 941996

EPA METHOD 8240

Your samples were analyzed for volatile organics by EPA method 8240.

Initial and continuing calibrations met EPA method 8240 acceptance criteria for all SPCC and CCC compounds.

One method blank was analyzed with your samples and met EPA method 8240 acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met EPA method 8240 acceptance criteria in all samples and spikes.

No sample was designated in this batch to be used for matrix spike and spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

Core Laboratories

Case Narrative

Job Number 941996

EPA METHOD 8015

Your samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met EPA method 8015 acceptance criteria.

The method blanks analyzed with your samples met EPA method 8015 acceptance criteria for contamination.

No sample was designated in this batch to be used for matrix spike/spike duplicate analysis.

The results of the Blank Spike/Blank Spike Dup showed good recoveries indicating the laboratory was in control.

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WESTERN ATLAS

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Case Narrative

Job Number 941996

Lead Analysis

The samples associated with this batch were analyzed for lead by EPA 6010 (technically equivalent to EPA 7420).

All method criteria was within tolerances. No sample was designated in this batch to be used for MS/MSD analysis.

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/12/94
TIME SAMPLED.....: 12:24
WORK DESCRIPTION...: BG-001BH 1.5'

LABORATORY I.D...: 941996-0001
DATE RECEIVED....: 08/13/94
TIME RECEIVED....: 11:20
REMARKS.....: 2 Brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/19/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	8	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	111	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	108	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	96	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/12/94
TIME SAMPLED.....: 12:24
WORK DESCRIPTION...: BG-001BH 1.5'

LABORATORY I.D...: 941996-0001
DATE RECEIVED....: 08/13/94
TIME RECEIVED....: 11:20
REMARKS.....: 2 Brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/22/94	RVJ
Lead (Pb)	<10	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/12/94
TIME SAMPLED.....: 12:28
WORK DESCRIPTION...: BG-001BH 9'

LABORATORY I.D...: 941996-0002
DATE RECEIVED....: 08/13/94
TIME RECEIVED....: 11:20
REMARKS.....: 2 Brsslv-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for ICP	COMPLETED	-----	N/A	EPA 3050	08/15/94	LS
Volatile Organics by GC/MS		*1		EPA 8240	08/19/94	CIS
Acetone	ND	10	ug/kg	EPA 8240		
Benzene	ND	5	ug/kg	EPA 8240		
Bromodichloromethane	ND	5	ug/kg	EPA 8240		
Bromoform	ND	5	ug/kg	EPA 8240		
Bromomethane	ND	10	ug/kg	EPA 8240		
2-Butanone	ND	10	ug/kg	EPA 8240		
Carbon disulfide	ND	5	ug/kg	EPA 8240		
Carbon tetrachloride	ND	5	ug/kg	EPA 8240		
Chlorobenzene	ND	5	ug/kg	EPA 8240		
Chlorodibromomethane	ND	5	ug/kg	EPA 8240		
Chloroethane	ND	10	ug/kg	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/kg	EPA 8240		
Chloroform	ND	5	ug/kg	EPA 8240		
Chloromethane	ND	10	ug/kg	EPA 8240		
1,1-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,2-Dichloroethane	ND	5	ug/kg	EPA 8240		
1,1-Dichloroethene	ND	5	ug/kg	EPA 8240		
Total 1,2-Dichloroethenes	ND	5	ug/kg	EPA 8240		
1,2-Dichloropropane	ND	5	ug/kg	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/kg	EPA 8240		
Ethylbenzene	ND	5	ug/kg	EPA 8240		
2-Hexanone	ND	10	ug/kg	EPA 8240		
Methylene Chloride	ND	5	ug/kg	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/kg	EPA 8240		
Styrene	ND	5	ug/kg	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/kg	EPA 8240		
Tetrachloroethene	ND	5	ug/kg	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/kg	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/kg	EPA 8240		
Trichloroethene	ND	5	ug/kg	EPA 8240		
Toluene	ND	5	ug/kg	EPA 8240		
Vinyl acetate	ND	10	ug/kg	EPA 8240		
Vinyl chloride	ND	10	ug/kg	EPA 8240		
Total Xylenes	ND	5	ug/kg	EPA 8240		
d4-Dichloroethane (SURROGATE)	104	0	% Recovery	70-121% QC LIMITS		
d8-Toluene (SURROGATE)	102	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	107	0	% Recovery	74-121% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	08/20/94	RVJ

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: 08/12/94
TIME SAMPLED.....: 12:28
WORK DESCRIPTION...: BG-001BH 9'

LABORATORY I.D...: 941996-0002
DATE RECEIVED....: 08/13/94
TIME RECEIVED....: 11:20
REMARKS.....: 2 Brss1v-soil

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/kg	EPA 8015 (modified)		
Gasoline	<100	100	ug/kg	EPA 8015 (modified)	08/22/94	RVJ
Lead (Pb)	<10	10	mg/kg	EPA 6010	08/19/94	VB
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	08/19/94	DC
Raw data required (Metals)	N/A				N/A	N/A
Raw data required (Organics)	N/A				N/A	N/A

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LABORATORY TESTS RESULTS
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

CLIENT I.D.....: Hayward ANG 1315-115
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: Trip Blank

LABORATORY I.D...: 941996-0003
DATE RECEIVED....: 08/13/94
TIME RECEIVED....: 11:20
REMARKS.....: 1 voa vial-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 8240	08/19/94	CIS
Acetone	ND	10	ug/L	EPA 8240		
Benzene	ND	5	ug/L	EPA 8240		
Bromodichloromethane	ND	5	ug/L	EPA 8240		
Bromoform	ND	5	ug/L	EPA 8240		
Bromomethane	ND	10	ug/L	EPA 8240		
2-Butanone	ND	10	ug/L	EPA 8240		
Carbon disulfide	ND	5	ug/L	EPA 8240		
Carbon tetrachloride	ND	5	ug/L	EPA 8240		
Chlorobenzene	ND	5	ug/L	EPA 8240		
Chlorodibromomethane	ND	5	ug/L	EPA 8240		
Chloroethane	ND	10	ug/L	EPA 8240		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 8240		
Chloroform	ND	5	ug/L	EPA 8240		
Chloromethane	ND	10	ug/L	EPA 8240		
1,1-Dichloroethane	ND	5	ug/L	EPA 8240		
1,2-Dichloroethane	ND	5	ug/L	EPA 8240		
1,1-Dichloroethene	ND	5	ug/L	EPA 8240		
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 8240		
1,2-Dichloropropane	ND	5	ug/L	EPA 8240		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 8240		
Ethylbenzene	ND	5	ug/L	EPA 8240		
2-Hexanone	ND	10	ug/L	EPA 8240		
Methylene Chloride	ND	5	ug/L	EPA 8240		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 8240		
Styrene	ND	5	ug/L	EPA 8240		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 8240		
Tetrachloroethene	ND	5	ug/L	EPA 8240		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 8240		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 8240		
Trichloroethene	ND	5	ug/L	EPA 8240		
Toluene	ND	5	ug/L	EPA 8240		
Vinyl acetate	ND	10	ug/L	EPA 8240		
Vinyl chloride	ND	10	ug/L	EPA 8240		
Total Xylenes	ND	5	ug/L	EPA 8240		
d4-Dichloroethane (SURROGATE)	106	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	99	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	106	0	% Recovery	86-115% QC LIMITS		

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QUALITY ASSURANCE REPORT
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb)				DATE/TIME ANALYZED:08/19/94 13:54						QC BATCH NUMBER:936963
REPORTING LIMIT/DF: 0.100 UNITS:mg/L				METHOD REFERENCE :EPA 6010						TECHNICIAN:VB
BLANK	ICB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	CCB	081994	<0.100							
BLANK	MB	081794MB	<0.100							
BLANK	CCB	081994	0.111							
STANDARD	ICV	M94267	1.06			1.00	106			
STANDARD	CCV	M94267	1.14			1.00	114			
STANDARD	CCV	M94267	0.964			1.00	96			
STANDARD	LCS	081794LCS	0.859			1.00	86			
STANDARD	CCV	M94267	0.914			1.00	91			
STANDARD	CCV	M94267	0.995			1.00	100			
SPIKE	MATRIX	941941-7	102					9.8	100	92
SPIKE	MATRIX	941941-7	105					9.8	100	95
SPIKE	MATRIX	941941-3	106					0	100	106
SPIKE	MATRIX	941941-4	96.8					0	100	97
SPIKE	MATRIX	941979-8	97.7					0.74	100	97
SPIKE	MATRIX	941979-8	99.0					0.74	100	98
DUPLICATE	MS/MSD	941941-3	106	96.8	9					
DUPLICATE	MS/MSD	941941-7	102	105	3					
DUPLICATE	MS/MSD	941979-8	977	990	1					
PARAMETER:Gasoline				DATE/TIME ANALYZED:08/22/94 00:00						QC BATCH NUMBER:936970
REPORTING LIMIT/DF: 100 UNITS:ug/kg				METHOD REFERENCE :EPA 8015 (modified)						TECHNICIAN:RVJ
BLANK	METHOD	MB082294	<100							
SPIKE	MATRIX	941996-2	890					0	1000	89
SPIKE	MATRIX DUP	941996-2	900					0	1000	90

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QUALITY ASSURANCE REPORT
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

otal Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936961

BLANKS

EST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB082094	1	<10	10	mg/kg

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QUALITY ASSURANCE REPORT
08/23/94

JOB NUMBER: 941996 CUSTOMER: Operational Technologies ATTN: John Morris

Total Petroleum Hydrocarbons DATE ANALYZED: 08/20/94 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:936961

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	MATRIX	942036-1	1	230	0	250	92	10	mg/kg
	MATRIX DUP	942036-1	1	230	0	250	92	10	mg/kg

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QUALITY ASSURANCE REPORT

PA Method 8240 JOB NUMBER: 941996 DATE ANALYZED: 8/19/94

BLANKS

EST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081994	1	ND	10	ug/kg
enzene	METHOD	081994	1	ND	5	ug/kg
romodichloromethane	METHOD	081994	1	ND	5	ug/kg
romoform	METHOD	081994	1	ND	5	ug/kg
Bromomethane	METHOD	081994	1	ND	10	ug/kg
2-Butanone	METHOD	081994	1	ND	10	ug/kg
arbon disulfide	METHOD	081994	1	ND	5	ug/kg
arbon tetrachloride	METHOD	081994	1	ND	5	ug/kg
hlorobenzene	METHOD	081994	1	ND	5	ug/kg
Chlorodibromomethane	METHOD	081994	1	ND	5	ug/kg
hloroethane	METHOD	081994	1	ND	10	ug/kg
-Chloroethylvinyl ether	METHOD	081994	1	ND	10	ug/kg
hloroform	METHOD	081994	1	ND	5	ug/kg
Chloromethane	METHOD	081994	1	ND	10	ug/kg
1,1-Dichloroethane	METHOD	081994	1	ND	5	ug/kg
,2-Dichloroethene	METHOD	081994	1	ND	5	ug/kg
,1-Dichloroethene	METHOD	081994	1	ND	5	ug/kg
,2-Dichloroethene (total)	METHOD	081994	1	ND	5	ug/kg
1,2-Dichloropropane	METHOD	081994	1	ND	5	ug/kg
is-1,3-Dichloropropene	METHOD	081994	1	ND	5	ug/kg
rans-1,3-Dichloropropene	METHOD	081994	1	ND	5	ug/kg
thylbenzene	METHOD	081994	1	ND	5	ug/kg
2-Hexanone	METHOD	081994	1	ND	10	ug/kg
Methylene chloride	METHOD	081994	1	ND	5	ug/kg
-Methyl-2-pentanone	METHOD	081994	1	ND	10	ug/kg
tyrene	METHOD	081994	1	ND	5	ug/kg
,1,2,2-Tetrachloroethane	METHOD	081994	1	ND	5	ug/kg
Tetrachloroethene	METHOD	081994	1	ND	5	ug/kg
oluene	METHOD	081994	1	ND	5	ug/kg
1,1-Trichloroethane	METHOD	081994	1	ND	5	ug/kg
1,2-Trichloroethane	METHOD	081994	1	ND	5	ug/kg
richloroethene	METHOD	081994	1	ND	5	ug/kg
Vinyl acetate	METHOD	081994	1	ND	5	ug/kg
nyl chloride	METHOD	081994	1	ND	10	ug/kg
otal xylenes	METHOD	081994	1	ND	5	ug/kg
-1,2-Dichloroethane (SURROGATE)	METHOD	081994	1	102	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081994	1	101	88-110	% recovery
-Bromofluorobenzene (SURROGATE)	METHOD	081994	1	104	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 8240 JOB NUMBER: 941996 DATE ANALYZED: 8/19/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941953-11	65	0	50	ug/kg	130	14.3	66-142	21
	MATRIX DUP	941953-11	75	0	50	ug/kg	150			
Chlorobenzene	MATRIX	941953-11	52	0	50	ug/kg	104	5.6	60-133	21
	MATRIX DUP	941953-11	55	0	50	ug/kg	110			
1,1-Dichloroethene	MATRIX	941953-11	66	0	50	ug/kg	132	8.7	59-172	22
	MATRIX DUP	941953-11	72	0	50	ug/kg	144			
Trichloroethene	MATRIX	941953-11	55	0	50	ug/kg	110	10.3	62-137	24
	MATRIX DUP	941953-11	61	0	50	ug/kg	122			
Toluene	MATRIX	941953-11	64	0	50	ug/kg	128	9.0	59-139	21
	MATRIX DUP	941953-11	70	0	50	ug/kg	140			
d4-Dichloroethane (SURROGATE)	MATRIX	941953-11	53	0	50	ug/kg	106	N/A	70-121	N/A
	MATRIX DUP	941953-11	56	0	50	ug/kg	112			
d8-Toluene (SURROGATE)	MATRIX	941953-11	52	0	50	ug/kg	104	N/A	84-138	N/A
	MATRIX DUP	941953-11	65	0	50	ug/kg	130			
4-Bromofluorobenzene (SURROGAT	MATRIX	941953-11	42	0	50	ug/kg	84	N/A	59-113	N/A
	MATRIX DUP	941953-11	42	0	50	ug/kg	84			

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WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941996 DATE ANALYZED: 8/19/94

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	081994	1	ND	10	ug/L
Benzene	METHOD	081994	1	ND	5	ug/L
Bromodichloromethane	METHOD	081994	1	ND	5	ug/L
Bromoform	METHOD	081994	1	ND	5	ug/L
Bromomethane	METHOD	081994	1	ND	10	ug/L
2-Butanone	METHOD	081994	1	ND	10	ug/L
Carbon disulfide	METHOD	081994	1	ND	5	ug/L
Carbon tetrachloride	METHOD	081994	1	ND	5	ug/L
Chlorobenzene	METHOD	081994	1	ND	5	ug/L
Chlorodibromomethane	METHOD	081994	1	ND	5	ug/L
Chloroethane	METHOD	081994	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	081994	1	ND	10	ug/L
Chloroform	METHOD	081994	1	ND	5	ug/L
Chloromethane	METHOD	081994	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	081994	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	081994	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	081994	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	081994	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	081994	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	081994	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	081994	1	ND	5	ug/L
Ethylbenzene	METHOD	081994	1	ND	5	ug/L
2-Hexanone	METHOD	081994	1	ND	10	ug/L
Methylene chloride	METHOD	081994	1	ND	15	ug/L
4-Methyl-2-pentanone	METHOD	081994	1	ND	10	ug/L
Styrene	METHOD	081994	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	081994	1	ND	5	ug/L
Tetrachloroethene	METHOD	081994	1	ND	5	ug/L
Toluene	METHOD	081994	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	081994	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	081994	1	ND	5	ug/L
Trichloroethene	METHOD	081994	1	ND	5	ug/L
Vinyl acetate	METHOD	081994	1	ND	5	ug/L
Vinyl chloride	METHOD	081994	1	ND	10	ug/L
Total xylenes	METHOD	081994	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	081994	1	102	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	081994	1	101	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	081994	1	104	86-115	% recovery

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WESTERN ATLAS

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 941996 DATE ANALYZED: 8/19/94

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	941979-9	58	0	50	ug/L	116	1.7	76-127	11
	MATRIX DUP	941979-9	57	0	50	ug/L	114			
Chlorobenzene	MATRIX	941979-9	46	0	50	ug/L	92	16.0	75-130	13
	MATRIX DUP	941979-9	54	0	50	ug/L	108			
1,1-Dichloroethene	MATRIX	941979-9	62	0	50	ug/L	124	4.7	61-145	14
	MATRIX DUP	941979-9	65	0	50	ug/L	130			
Trichloroethene	MATRIX	941979-9	57	0	50	ug/L	114	3.6	71-120	14
	MATRIX DUP	941979-9	55	0	50	ug/L	110			
Toluene	MATRIX	941979-9	56	0	50	ug/L	112	1.8	76-125	13
	MATRIX DUP	941979-9	55	0	50	ug/L	110			
d4-Dichloroethane (SURROGATE)	MATRIX	941979-9	45	0	50	ug/L	90	N/A	76-114	N/A
	MATRIX DUP	941979-9	44	0	50	ug/L	88			
d8-Toluene (SURROGATE)	MATRIX	941979-9	46	0	50	ug/L	92	N/A	88-110	N/A
	MATRIX DUP	941979-9	48	0	50	ug/L	96			
4-Bromofluorobenzene (SURROGAT	MATRIX	941979-9	48	0	50	ug/L	96	N/A	86-115	N/A
	MATRIX DUP	941979-9	49	0	50	ug/L	98			

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METHOD REFERENCES

(1) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, November 1990, and July 1992 update
(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

All methods of chemical analysis have a statistical uncertainty associated with the results. Unless otherwise indicated, the data in this report are within the limits of uncertainty as specified in the referenced method. Quality control acceptance criteria are based either on actual laboratory performance or on limits specified in the referenced method. The date and time of analysis indicated on the QA report may not reflect the actual time of analysis for QC samples. All data reported on an "as received" basis unless otherwise indicated. Data reported in the QA report may be lower than sample data due to dilution of samples into the calibration range of the analysis. Sample concentrations for solid samples are calculated on an as received (wet) basis. Unless otherwise indicated, volatiles by gas chromatograpy are reported from a single column.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
SB = Storage Blank
CS = Calibration Standard
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
RS = Reference Standard
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard

SUBCONTRACTED LABORATORY LOCATIONS

Core Laboratories:	Aurora, Colorado(ELAP #1933)	*AU
	Casper, Wyoming	*CA
	Corpus Christi, Texas	*CC
	Houston, Texas	*HP
	Lake Charles, Louisiana	*LC
	Long Beach, California	*LB
Aquatic Testing Laboratories:		
	Ventura, California	*AT

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A N A L Y T I C A L R E P O R T

Job Number: 943126
Prepared For:

Operational Technologies
Jeff Blunt
4100 NW Loop 410, Suite 230
San Antonio, TX 78229

Date: 12/12/94

Signature

12/12/94
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

C A. E. L A. P. 1174
L. A. C. S. D. 10146

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ENVIRONMENTAL TESTING SERVICES

May 1, 1995

Mark Escobar
Operational Technologies
4100 NW Loop 410, Suite 230
San Antonio, TX 78229

RE: **Core ID 943126**

Dear Mr. Escobar:

Upon review of the above mentioned job number, we have found that lead was performed by EPA 6020 (not 6010). The differences in the methods account for the reporting limit variations. Revised report pages are attached.

Please feel free to call me if you have any additional questions.

Sincerely,

Tim Scott
Laboratory Manager

Core Laboratories, Inc.
1250 East Gene Autry Way, Anaheim, California 92805. (714) 937-1094. (800) 404-CORE. Fax (714) 937-1170

CORE LABORATORIES

LABORATORY TESTS RESULTS

12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 07:16
WORK DESCRIPTION...: BG-001 MW

LABORATORY I.D...: 943126-0001
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
Volatile Organics by GC/MS		*1		EPA 624	12/11/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	91	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	90	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	100	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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LABORATORY TESTS RESULTS

05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 07:16
WORK DESCRIPTION...: BG-001 MW

LABORATORY I.D...: 943126-0001
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	50	ug/L	EPA 8015 (modified)		
Gasoline	190	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

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REVISED REPORT

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 07:50
WORK DESCRIPTION...: 04-001 MW

LABORATORY I.D...: 943126-0002
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
Volatile Organics by GC/MS		*1		EPA 624	12/11/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	91	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	104	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 07:50
WORK DESCRIPTION...: 04-001 MW

LABORATORY I.D...: 943126-0002
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	50	ug/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

REVISED REPORT

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 08:22
WORK DESCRIPTION...: 04-002 MW

LABORATORY I.D...: 943126-0003
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
Volatile Organics by GC/MS		*5		EPA 624	12/11/94	CIS
Acetone	ND	50	ug/L	EPA 624		
Benzene	ND	25	ug/L	EPA 624		
Bromodichloromethane	ND	25	ug/L	EPA 624		
Bromoform	ND	25	ug/L	EPA 624		
Bromomethane	ND	50	ug/L	EPA 624		
2-Butanone	ND	50	ug/L	EPA 624		
Carbon disulfide	ND	25	ug/L	EPA 624		
Carbon tetrachloride	ND	25	ug/L	EPA 624		
Chlorobenzene	ND	25	ug/L	EPA 624		
Chloroethane	ND	50	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	50	ug/L	EPA 624		
Chloroform	ND	25	ug/L	EPA 624		
Chloromethane	ND	50	ug/L	EPA 624		
Dibromochloromethane	ND	25	ug/L	EPA 624		
1,1-Dichloroethane	ND	25	ug/L	EPA 624		
1,2-Dichloroethane	ND	25	ug/L	EPA 624		
1,1-Dichloroethene	ND	25	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	25	ug/L	EPA 624		
1,2-Dichloropropane	ND	25	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	25	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	25	ug/L	EPA 624		
Ethylbenzene	ND	25	ug/L	EPA 624		
2-Hexanone	ND	50	ug/L	EPA 624		
Methylene Chloride	ND	25	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	50	ug/L	EPA 624		
Styrene	ND	25	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	25	ug/L	EPA 624		
Tetrachloroethene	ND	25	ug/L	EPA 624		
Toluene	ND	25	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	25	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	25	ug/L	EPA 624		
Trichloroethene	ND	25	ug/L	EPA 624		
Vinyl acetate	ND	50	ug/L	EPA 624		
Vinyl chloride	ND	50	ug/L	EPA 624		
Total Xylenes	ND	25	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	88	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	88	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	105	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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CORE LABORATORIES

LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 08:22
WORK DESCRIPTION...: 04-002 MW

LABORATORY I.D...: 943126-0003
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	840	50	ug/L	EPA 8015 (modified)		
Gasoline	1400	500	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 08:35
WORK DESCRIPTION...: 04-002 MW-Dup

LABORATORY I.D...: 943126-0004
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
Volatile Organics by GC/MS		*5		EPA 624	12/11/94	CIS
Acetone	ND	50	ug/L	EPA 624		
Benzene	ND	25	ug/L	EPA 624		
Bromodichloromethane	ND	25	ug/L	EPA 624		
Bromoform	ND	25	ug/L	EPA 624		
Bromomethane	ND	50	ug/L	EPA 624		
2-Butanone	ND	50	ug/L	EPA 624		
Carbon disulfide	ND	25	ug/L	EPA 624		
Carbon tetrachloride	ND	25	ug/L	EPA 624		
Chlorobenzene	ND	25	ug/L	EPA 624		
Chloroethane	ND	50	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	50	ug/L	EPA 624		
Chloroform	ND	25	ug/L	EPA 624		
Chloromethane	ND	50	ug/L	EPA 624		
Dibromochloromethane	ND	25	ug/L	EPA 624		
1,1-Dichloroethane	ND	25	ug/L	EPA 624		
1,2-Dichloroethane	ND	25	ug/L	EPA 624		
1,1-Dichloroethene	ND	25	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	25	ug/L	EPA 624		
1,2-Dichloropropane	ND	25	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	25	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	25	ug/L	EPA 624		
Ethylbenzene	ND	25	ug/L	EPA 624		
2-Hexanone	ND	50	ug/L	EPA 624		
Methylene Chloride	ND	25	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	50	ug/L	EPA 624		
Styrene	ND	25	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	25	ug/L	EPA 624		
Tetrachloroethene	ND	25	ug/L	EPA 624		
Toluene	ND	25	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	25	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	25	ug/L	EPA 624		
Trichloroethene	ND	25	ug/L	EPA 624		
Vinyl acetate	ND	50	ug/L	EPA 624		
Vinyl chloride	ND	50	ug/L	EPA 624		
Total Xylenes	ND	25	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	94	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	89	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	98	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 08:35
WORK DESCRIPTION...: 04-002 MW-Dup

LABORATORY I.D...: 943126-0004
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	920	50	ug/L	EPA 8015 (modified)		
Gasoline	1200	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 08:57
WORK DESCRIPTION...: Field Blank

LABORATORY I.D...: 943126-0005
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	12/11/94	CIS
Acetone	23	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	18	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	90	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	96	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	106	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC
Diesel	ND	50	ug/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS

05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 08:57
WORK DESCRIPTION...: Field Blank

LABORATORY I.D...: 943126-0005
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.005	0.005	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 09:03
WORK DESCRIPTION...: EQ Blank

LABORATORY I.D...: 943126-0006
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	12/11/94	CIS
Acetone	26	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	18	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	98	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	104	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC
Diesel	ND	50	ug/L	EPA 8015 (modified)		

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LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 09:03
WORK DESCRIPTION...: EQ Blank

LABORATORY I.D...: 943126-0006
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Gasoline	<100	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.005	0.005	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

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LABORATORY TESTS RESULTS
12/12/94

LAB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 10:18
WORK DESCRIPTION...: 05-001 MW

LABORATORY I.D...: 943126-0009
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
Volatile Organics by GC/MS		*1		EPA 624	12/11/94	CJS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	87	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	92	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	107	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 10:18
WORK DESCRIPTION...: 05-001 MW

LABORATORY I.D...: 943126-0009
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	50	ug/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

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LABORATORY TESTS RESULTS
12/12/94

B NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
E SAMPLED.....: 12/07/94
ME SAMPLED.....: 10:50
RK DESCRIPTION...: 05-002 MW

LABORATORY I.D...: 943126-0010
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

T DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
atile Organics by GC/MS		*5		EPA 624	12/11/94	CIS
Acetone	ND	50	ug/L	EPA 624		
Benzene	ND	25	ug/L	EPA 624		
Bromodichloromethane	ND	25	ug/L	EPA 624		
Bromoform	ND	25	ug/L	EPA 624		
Bromomethane	ND	50	ug/L	EPA 624		
2-Butanone	ND	50	ug/L	EPA 624		
Carbon disulfide	ND	25	ug/L	EPA 624		
Carbon tetrachloride	ND	25	ug/L	EPA 624		
Chlorobenzene	ND	25	ug/L	EPA 624		
Chloroethane	ND	50	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	50	ug/L	EPA 624		
Chloroform	ND	25	ug/L	EPA 624		
Chloromethane	ND	50	ug/L	EPA 624		
Dibromochloromethane	ND	25	ug/L	EPA 624		
1,1-Dichloroethane	ND	25	ug/L	EPA 624		
1,2-Dichloroethane	ND	25	ug/L	EPA 624		
1,1-Dichloroethene	ND	25	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	25	ug/L	EPA 624		
1,2-Dichloropropane	ND	25	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	25	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	25	ug/L	EPA 624		
Ethylbenzene	ND	25	ug/L	EPA 624		
2-Hexanone	ND	50	ug/L	EPA 624		
Methylene Chloride	ND	25	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	50	ug/L	EPA 624		
Styrene	ND	25	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	25	ug/L	EPA 624		
Tetrachloroethene	ND	25	ug/L	EPA 624		
Toluene	ND	25	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	25	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	25	ug/L	EPA 624		
Trichloroethene	ND	25	ug/L	EPA 624		
Vinyl acetate	ND	50	ug/L	EPA 624		
Vinyl chloride	ND	50	ug/L	EPA 624		
Total Xylenes	ND	25	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	92	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	98	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	104	0	% Recovery	86-115% QC LIMITS		
Total Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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CORE LABORATORIES

LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 10:50
WORK DESCRIPTION...: 05-002 MW

LABORATORY I.D...: 943126-0010
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	980	50	ug/L	EPA 8015 (modified)		
Gasoline	770	500	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

REVISED REPORT

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
ME SAMPLED.....: 09:20
RK DESCRIPTION...: 05-003 MW

LABORATORY I.D...: 943126-0008
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

ST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Acid Digestion for GFAA and ICP/MS	COMPLETED	-----	N/A	EPA 3020	12/09/94	ST
latile Organics by GC/MS		*1		EPA 624	12/11/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	95	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	114	0	% Recovery	86-115% QC LIMITS		
tal Petroleum Hydrocarbons		*1		EPA 8015 (modified)	12/10/94	DC

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[illegible]

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LABORATORY TESTS RESULTS
05/01/95

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315 - 115
DATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: 09:20
WORK DESCRIPTION...: 05-003 MW

LABORATORY I.D...: 943126-0008
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 1 LP-/1 LA-/3 voas-water

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	50	ug/L	EPA 8015 (modified)		
Gasoline	<100	100	ug/L	EPA 8015 (modified)	12/09/94	DC
Lead (Pb)	<0.050	0.050	mg/L	EPA 6020	12/10/94	EAW
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/09/94	DC

REVISED REPORT

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CORELAB

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LABORATORY TESTS RESULTS
12/12/94

JOB NUMBER: 943126 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

LIENT I.D.....: 1315 - 115
ATE SAMPLED.....: 12/07/94
TIME SAMPLED.....: :
WORK DESCRIPTION...: Trip Blank

LABORATORY I.D...: 943126-0007
DATE RECEIVED....: 12/08/94
TIME RECEIVED....: 09:40
REMARKS.....: 3 voas-CORE DI H2O

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
olatile Organics by GC/MS		*1		EPA 624	12/11/94	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	86	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	96	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	107	0	% Recovery	86-115% QC LIMITS		
soline	<100	100	ug/L	EPA 8015 (modified)	12/09/94	DC

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A N A L Y T I C A L R E P O R T

Job Number: 953596
Prepared For:

Operational Technologies
Jeff Blunt
4100 NW Loop 410, Suite 230
San Antonio, TX 78229

Date: 01/09/96

Signature

1/9/96
Date:

Name: Timothy A. Scott

Core Laboratories
1250 Gene Autry Way
Anaheim, CA 92805

Title: Laboratory Manager

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Case Narrative

Job Number 953596

EPA Method 8015

These samples were analyzed for gasoline and diesel by modified EPA method 8015.

Initial and continuing calibrations met acceptance criteria.

The blanks analyzed with these samples met acceptance criteria for contamination and surrogate recovery.

Surrogate recoveries met acceptance criteria in all samples.

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CASE NARRATIVE

METALS ANALYSIS

JOB NUMBER 953596

Your samples were analyzed for lead by EPA Method 6020.

Initial and continuing calibrations met EPA Method acceptance criteria.

All matrix spike and matrix spike duplicate criteria were met for lead.

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 11:05
WORK DESCRIPTION...: Site 5 MW-001 05-001MW

LABORATORY I.D...: 953596-0007
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Metals Digestion-Aqueous	COMPLETED		N/A	EPA 3010A	12/12/95	S A
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	5	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	10	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	5	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	10	ug/L	EPA 624		
Chloromethane	ND	5	ug/L	EPA 624		
Dibromochloromethane	ND	10	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	5	ug/L	EPA 624		
Methylene Chloride	ND	10	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	5	ug/L	EPA 624		
Styrene	ND	10	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	5	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	10	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	104	5	ug/L	EPA 624		
d8-Toluene (SURROGATE)	106	0	% Recovery	76-114% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	88-110% QC LIMITS		
		0	% Recovery	86-115% QC LIMITS		

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 11:05
WORK DESCRIPTION...: Site 5 MW-001 05-001MW

LABORATORY I.D...: 953596-0007
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H20 VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
TEPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	<50	50	ug/L	EPA 8015 (modified)	12/13/95	RVJ
Metals		*1		EPA 6020	12/12/95	EAW
Lead (Pb)	ND	0.005	mg/L	EPA 6020		
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: SITE 5 MW-002 05-002MW

LABORATORY I.D...: 953596-0004
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Metals Digestion-Aqueous	COMPLETED		N/A	EPA 3010A	12/12/95	S A
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	105	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	106	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	96	0	% Recovery	86-115% QC LIMITS		

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: SITE 5 MW-002 05-002MW

LABORATORY I.D...: 953596-0004
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H20 VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
TEPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	1300	50	ug/L	EPA 8015 (modified)	12/13/95	RVJ
Metals		*1		EPA 6020	12/12/95	EAW
Lead (Pb)	ND	0.005	mg/L	EPA 6020		
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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CORE LABORATORIES

LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: Site 5 MW-002 DUP05-002MW

LABORATORY I.D...: 953596-0005
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H20 VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Metals Digestion-Aqueous	COMPLETED		N/A	EPA 3010A	12/12/95	S A
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	110	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	105	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	92	0	% Recovery	86-115% QC LIMITS		

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: Site 5 MW-002 DUP05-002MW

LABORATORY I.D...: 953596-0005
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H20 VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
TEPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	300	50	ug/L	EPA 8015 (modified)	12/13/95	RVJ
Metals		*1		EPA 6020	12/12/95	EAW
Lead (Pb)	ND	0.005	mg/L	EPA 6020		
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 10:20
WORK DESCRIPTION...: Site 5 MW-003 05-003MW

LABORATORY I.D...: 953596-0006
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Metals Digestion-Aqueous	COMPLETED		N/A	EPA 3010A	12/12/95	S A
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	104	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	106	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	86-115% QC LIMITS		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 10:20
WORK DESCRIPTION...: Site 5 MW-003 05-003MW

LABORATORY I.D...: 953596-0006
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA/Plastic

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
TEPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	<50	50	ug/L	EPA 8015 (modified)	12/13/95	RVJ
Metals		*1		EPA 6020	12/12/95	EAW
Lead (Pb)	ND	0.005	mg/L	EPA 6020		
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 00:00
WORK DESCRIPTION...: Trip Blank 1207TB

LABORATORY I.D...: 953596-0001
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	98	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	104	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	96	0	% Recovery	86-115% QC LIMITS		
TEPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC

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CORE LABORATORIES

LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 00:00
WORK DESCRIPTION...: Trip Blank 1207TB

LABORATORY I.D...: 953596-0001
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	<50	50	ug/L	EPA 8015 (modified)	12/12/95	RVJ
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 08:55
WORK DESCRIPTION...: Equipt Blank 1207EB

LABORATORY I.D...: 953596-0003
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	101	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	105	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	94	0	% Recovery	86-115% QC LIMITS		
EPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC

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CORE LABORATORIES

LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 08:55
WORK DESCRIPTION...: Equipt Blank 1207EB

LABORATORY I.D...: 953596-0003
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	<50	50	ug/L	EPA 8015 (modified)	12/13/95	RVJ
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 09:00
WORK DESCRIPTION...: Field Blank 1207FB

LABORATORY I.D...: 953596-0002
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organics by GC/MS		*1		EPA 624	12/11/95	CIS
Acetone	ND	10	ug/L	EPA 624		
Benzene	ND	5	ug/L	EPA 624		
Bromodichloromethane	ND	5	ug/L	EPA 624		
Bromoform	ND	5	ug/L	EPA 624		
Bromomethane	ND	10	ug/L	EPA 624		
2-Butanone	ND	10	ug/L	EPA 624		
Carbon disulfide	ND	5	ug/L	EPA 624		
Carbon tetrachloride	ND	5	ug/L	EPA 624		
Chlorobenzene	ND	5	ug/L	EPA 624		
Chloroethane	ND	10	ug/L	EPA 624		
2-Chloroethylvinyl ether	ND	10	ug/L	EPA 624		
Chloroform	ND	5	ug/L	EPA 624		
Chloromethane	ND	10	ug/L	EPA 624		
Dibromochloromethane	ND	5	ug/L	EPA 624		
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624		
1,1-Dichloroethane	ND	5	ug/L	EPA 624		
1,2-Dichloroethane	ND	5	ug/L	EPA 624		
1,1-Dichloroethene	ND	5	ug/L	EPA 624		
Total 1,2-Dichloroethenes	ND	5	ug/L	EPA 624		
1,2-Dichloropropane	ND	5	ug/L	EPA 624		
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624		
Ethylbenzene	ND	5	ug/L	EPA 624		
2-Hexanone	ND	10	ug/L	EPA 624		
Methylene Chloride	ND	5	ug/L	EPA 624		
4-Methyl-2-pentanone	ND	10	ug/L	EPA 624		
Styrene	ND	5	ug/L	EPA 624		
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624		
Tetrachloroethene	ND	5	ug/L	EPA 624		
Toluene	ND	5	ug/L	EPA 624		
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624		
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624		
Trichloroethene	ND	5	ug/L	EPA 624		
Vinyl acetate	ND	10	ug/L	EPA 624		
Vinyl chloride	ND	10	ug/L	EPA 624		
Total Xylenes	ND	5	ug/L	EPA 624		
d4-1,2-Dichloroethane (SURROGATE)	106	0	% Recovery	76-114% QC LIMITS		
d8-Toluene (SURROGATE)	105	0	% Recovery	88-110% QC LIMITS		
4-Bromofluorobenzene (SURROGATE)	90	0	% Recovery	86-115% QC LIMITS		
TEPH - Diesel (Liquids)		*1		EPA 8015 (modified)	12/14/95	DC

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CORE LABORATORIES

LABORATORY TESTS RESULTS
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

CLIENT I.D.....: 1315-189
DATE SAMPLED.....: 12/05/95
TIME SAMPLED.....: 09:00
WORK DESCRIPTION...: Field Blank 1207FB

LABORATORY I.D...: 953596-0002
DATE RECEIVED....: 12/08/95
TIME RECEIVED....: 10:03
REMARKS.....: H2O VOA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Diesel	ND	10	mg/L	EPA 8015 (modified)		
TVPH - Gasoline	<50	50	ug/L	EPA 8015 (modified)	12/12/95	RVJ
Total Hydrocarbons Extraction	COMPLETED	-----	N/A	Cal. DHS Method	12/13/95	DC

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QUALITY ASSURANCE REPORT
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:TVPH - Gasoline REPORTING LIMIT/DF: 50 UNITS:ug/L			DATE/TIME ANALYZED:12/12/95 00:00 METHOD REFERENCE :EPA 8015 (modified)						QC BATCH NUMBER:948103 TECHNICIAN:RVJ	
BLANK	METHOD	MB121295	<50							
SPIKE	MATRIX	953599-6	942					0	1000	94
SPIKE	MATRIX DUP	953599-6	964					0	1000	96
PARAMETER:TVPH - Gasoline REPORTING LIMIT/DF: 50 UNITS:ug/L			DATE/TIME ANALYZED:12/13/95 00:00 METHOD REFERENCE :EPA 8015 (modified)						QC BATCH NUMBER:948147 TECHNICIAN:RVJ	
BLANK	METHOD	MB121395	<50							
SPIKE	MATRIX	953599-6	942					0	1000	94
SPIKE	MATRIX DUP	953599-6	964					0	1000	96

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QUALITY ASSURANCE REPORT
01/09/96

JOB NUMBER: 953596 CUSTOMER: Operational Technologies ATTN: Jeff Blunt

Total Petroleum Hydrocarbons DATE ANALYZED: 12/14/95 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:948172

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Diesel	METHOD	MB121495	1	<10	10	mg/L

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Total Petroleum Hydrocarbons DATE ANALYZED: 12/14/95 TIME ANALYZED: 00:00 METHOD: EPA 8015 (modified) QC NUMBER:948172

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Diesel	MATRIX	953590-2	1	1210	0	1000	121	10	mg/L
	MATRIX DUP	953590-2	1	1150	0	1000	115	10	mg/L

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 953596 DATE ANALYZED: 12/11/95

BLANKS

TEST DESCRIPTION	ANALYS.SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Acetone	METHOD	121195	1	ND	10	ug/L
Benzene	METHOD	121195	1	ND	5	ug/L
Bromodichloromethane	METHOD	121195	1	ND	5	ug/L
Bromoform	METHOD	121195	1	ND	5	ug/L
Bromomethane	METHOD	121195	1	ND	10	ug/L
2-Butanone	METHOD	121195	1	ND	10	ug/L
Carbon disulfide	METHOD	121195	1	ND	5	ug/L
Carbon tetrachloride	METHOD	121195	1	ND	5	ug/L
Chlorobenzene	METHOD	121195	1	ND	5	ug/L
Chlorodibromomethane	METHOD	121195	1	ND	5	ug/L
Chloroethane	METHOD	121195	1	ND	10	ug/L
2-Chloroethylvinyl ether	METHOD	121195	1	ND	10	ug/L
Chloroform	METHOD	121195	1	ND	5	ug/L
Chloromethane	METHOD	121195	1	ND	10	ug/L
1,1-Dichloroethane	METHOD	121195	1	ND	5	ug/L
1,2-Dichloroethene	METHOD	121195	1	ND	5	ug/L
1,1-Dichloroethene	METHOD	121195	1	ND	5	ug/L
1,2-Dichloroethene (total)	METHOD	121195	1	ND	5	ug/L
1,2-Dichloropropane	METHOD	121195	1	ND	5	ug/L
cis-1,3-Dichloropropene	METHOD	121195	1	ND	5	ug/L
trans-1,3-Dichloropropene	METHOD	121195	1	ND	5	ug/L
Ethylbenzene	METHOD	121195	1	ND	5	ug/L
2-Hexanone	METHOD	121195	1	ND	10	ug/L
Methylene chloride	METHOD	121195	1	ND	15	ug/L
4-Methyl-2-pentanone	METHOD	121195	1	ND	10	ug/L
Styrene	METHOD	121195	1	ND	5	ug/L
1,1,2,2-Tetrachloroethane	METHOD	121195	1	ND	5	ug/L
Tetrachloroethene	METHOD	121195	1	ND	5	ug/L
Toluene	METHOD	121195	1	ND	5	ug/L
1,1,1-Trichloroethane	METHOD	121195	1	ND	5	ug/L
1,1,2-Trichloroethane	METHOD	121195	1	ND	5	ug/L
Trichloroethene	METHOD	121195	1	ND	5	ug/L
Vinyl acetate	METHOD	121195	1	ND	5	ug/L
Vinyl chloride	METHOD	121195	1	ND	10	ug/L
Total xylenes	METHOD	121195	1	ND	5	ug/L
d4-1,2-Dichloroethane (SURROGATE)	METHOD	121195	1	98	76-114	% recovery
d8-Toluene (SURROGATE)	METHOD	121195	1	104	88-110	% recovery
4-Bromofluorobenzene (SURROGATE)	METHOD	121195	1	96	86-115	% recovery

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QUALITY ASSURANCE REPORT

EPA Method 624 JOB NUMBER: 953596 DATE ANALYZED: 12/11/95

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	UNITS	PERCENT RECOVERY	RPD	QC LIMITS %REC	QC LIMITS RPD
Benzene	MATRIX	953561-10	45.8	0	50.0	ug/L	92	3.6	76-127	11
	MATRIX DUP	953561-10	44.2	0	50.0	ug/L	88			
Chlorobenzene	MATRIX	953561-10	46.4	0	50.0	ug/L	93	8.1	75-130	13
	MATRIX DUP	953561-10	42.8	0	50.0	ug/L	86			
1,1-Dichloroethene	MATRIX	953561-10	47.4	0	50.0	ug/L	95	8.8	61-145	14
	MATRIX DUP	953561-10	43.4	0	50.0	ug/L	87			
Trichloroethene	MATRIX	953561-10	48.5	0	50.0	ug/L	97	10.4	71-120	14
	MATRIX DUP	953561-10	43.7	0	50.0	ug/L	87			
Toluene	MATRIX	953561-10	47.6	0	50.0	ug/L	95	7.2	76-125	13
	MATRIX DUP	953561-10	44.3	0	50.0	ug/L	89			
d4-Dichloroethane (SURROGATE)	MATRIX	953561-10	59.6	0	50.0	ug/L	119	N/A	76-114	N/A
	MATRIX DUP	953561-10	57.2	0	50.0	ug/L	114			
d8-Toluene (SURROGATE)	MATRIX	953561-10	50	0	50.0	ug/L	100	N/A	88-110	N/A
	MATRIX DUP	953561-10	48.1	0	50.0	ug/L	96			
4-Bromofluorobenzene (SURROGAT	MATRIX	953561-10	48.2	0	50.0	ug/L	96	N/A	86-115	N/A
	MATRIX DUP	953561-10	46.4	0	50.0	ug/L	93			

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(2) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989
(3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
(4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
(5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 1992
(6) EPA 600/4-89-001, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Fresh Water Organisms
(7) EPA 600/4-90-027, Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Fresh Water and Marine Organisms, Fourth Edition

COMMENTS

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FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA = Not analyzed
N/A = Not applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
ND = Not detected at a value greater than the reporting limit
NC = Not calculable due to values lower than the detection limit
N.I. = Not Ignitable
S.I. = Sustains Ignition
I(NS) = Ignites, but does not Sustain Ignition
RPD = Relative Percent Difference
(a) = Surrogate recoveries were outside acceptable ranges due to matrix effects.
(b) = Surrogate recoveries were not calculated due to dilution of the sample below the detectable range for the surrogate.
(c) = Matrix spike recoveries were outside acceptable ranges due to matrix effects.
(d) = Relative Percent Difference (RPD) for duplicate analysis outside acceptance limits due to actual differences in the sample matrix.
(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
(g) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a gasoline standard, however, the hydrocarbon pattern did not match a gasoline pattern.
(h) = High dilution due to matrix effects
(i) = Samples with results below 500 mg/L are considered hazardous

QC SAMPLE IDENTIFICATIONS

MB = Method Blank
RB = Reagent Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
CS = Calibration Standard
ICB = Initial Calibration Verification
CCV = Continuing Calibration Verification
SB = Storage Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
MD = Matrix Duplicate
BS = Blank Spike
SS = Surrogate Spike
LCS = Laboratory Control Standard
RS = Reference Standard

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	Casper, Wyoming	*CA
	Corpus Christi, Texas	*CC
	Houston, Texas	*HP
	Lake Charles, Louisiana	*LC
	Long Beach, California	*LB
Aquatic Testing Laboratories:		
	Ventura, California	*AT

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ICP/MS BLANK DATA

Date Analyzed: 12-12-95

Analyte		Cal. Blank (ug/l)	Cont. Blank (ug/l)	Det. Limits (ug/l)
Antimony	(Sb)	ND	ND	5.0
Arsenic	(As)	ND	ND	5.0
Barium	(Ba)	ND	ND	5.0
Beryllium	(Be)	ND	ND	5.0
Cadmium	(Cd)	ND	ND	5.0
Chromium	(Cr)	ND	ND	5.0
Cobalt	(Co)	ND	ND	5.0
Copper	(Cu)	ND	ND	5.0
Lead	(Pb)	ND	ND	5.0
Molybdenum	(Mo)	ND	ND	5.0
Nickel	(Ni)	ND	ND	5.0
Silver	(Ag)	ND	ND	5.0
Thallium	(Tl)	ND	ND	5.0
Vanadium	(V)	ND	ND	5.0
Zinc	(Zn)	ND	ND	10

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ICP/MS REFERENCE STANDARD

Date Analyzed: 12-12-95

Sample Number: M94388

Element		True Conc. (ug/l)	Actual Conc. (ug/l)	% Rec
Antimony	(Sb)	1000	1044	104
Arsenic	(As)	1000	949	94.9
Barium	(Ba)	1000	1003	100
Beryllium	(Be)	1000	961	96.1
Cadmium	(Cd)	1000	981	98.1
Chromium	(Cr)	1000	941	94
Cobalt	(Co)	1000	962	96.2
Copper	(Cu)	1000	996	99.6
Lead	(Pb)	1000	1038	103
Molybdenum	(Mo)	1000	1079	106
Nickel	(Ni)	1000	970	97
Silver	(Ag)	500	423	84.6
Thallium	(Tl)	1000	1018	101
Vanadium	(V)	1000	956	95.6
Zinc	(Zn)	1000	1014	101

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ICP/MS Matrix Spike Analysis

Date Analyzed: 12-12-95

Sample Number: 953627-1

Element		Spike Added (ug/L)	Sample Conc. (ug/L)	MS Conc. (ug/L)	MS %Rec	MSD Conc. (ug/L)	MSD %Rec	RPD	
Antimony	(SB)	500	ND	511	102	545	109	7	
Arsenic	(AS)	500	ND	457	91	491	98	7	
Barium	(BA)	500	10	507	99	507	99	0	
Beryllium	(BE)	500	ND	451	90	457	91	1	
Cadmium	(CD)	500	ND	417	83	419	84	0	
Chromium	(CR)	500	ND	472	94	494	99	5	
Cobalt	(CO)	500	ND	464	93	490	98	6	
Copper	(CU)	500	78	543	93	563	97	4	
Lead	(PB)	500	64	593	106	590	105	1	
Molybdenum	(MO)	500	45	604	112	622	115	3	
Nickel	(NI)	500	ND	468	94	488	98	4	
Silver	(AG)	500	ND	143	29	112	22	22	**
Thallium	(TL)	500	ND	506	101	511	102	1	
Vanadium	(V)	500	ND	469	94	478	96	2	
Zinc	(ZN)	500	985	901	-17	942	-9	5	*

* MATRIX INTERFERENCE
** LOW DUE TO POSSIBLE PRECIPITATION OF AG

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(e) = The limit listed for flammability indicates the upper limit for the test. Samples are not tested at temperatures above 140 Fahrenheit since only samples which will sustain ignition at temperatures below 140 are considered flammable.
(f) = Results for this hydrocarbon range did not match a typical hydrocarbon pattern. Results were quantified using a diesel standard, however, the hydrocarbon pattern did not match a diesel pattern.
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RS = Reference Standard

SUBCONTRACTED LABORATORY LOCATIONS

Core Laboratories: Aurora, Colorado(ELAP #1933) *AU
Casper, Wyoming *CA
Corpus Christi, Texas *CC
Houston, Texas *HP
Lake Charles, Louisiana *LC
Long Beach, California *LB

Aquatic Testing Laboratories:
Ventura, California *AT

1250 Gene Autry Way
Anaheim, CA 92805
(714) 937-1094

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APPENDIX H

CHAINS OF CUSTODY

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD

No. [redacted]

1 of 2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANGS
SEND REPORT TO: JOHN MORRIS	BILLING INFORMATION 1315-115
ADDRESS: 4100 NW LOOP 410 #230	BILL TO: OPTECH
SAN ANTONIO, TX 78229	ADDRESS: 4100 NW LOOP 410 #230
	SAN ANTONIO TX 78229
PHONE: 210 731-0000	PHONE: 210 731-0000
FAX: 210 731-0008	FAX: 210 731-0008 PO NO.:

LAB JOB NO. 941849

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOA / SW 8240	TPH / 8015 Mod	TOTAL LEAD / SW 7420	REMARKS / PRECAUTIONS
1	04-002BH 1'	7/28/94	1005	SOIL	BRASS SLEEVE	N	2	✓	✓	✓	
2	04-002 BH 6'		1010					✓	✓	✓	
3	04-002BH 11'		1020					✓	✓	✓	
4	04-001 BH 1'		1202					✓	✓	✓	
5	04-001 BH 11'		1215					✓	✓	✓	
6	04-001 BH 21'		1235					✓	✓	✓	
7	04-003 BH 1'		1312					✓	✓	✓	
8	04-003 BH 6'		1315					✓	✓	✓	
9	04-003 BH 11'		1318					✓	✓	✓	
10	04-004 BH 1.5	↓	1442 1445 (me)	↓	↓	↓	↓	✓	✓	✓	

SAMPLER: B. HUGES, R. TORRES, M. ESCOBAR AND TONTO DRILLING

SHIPMENT METHOD: FED EX

AIRBILL NO.:

REQUIRED TURNAROUND: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE OTHER SITES CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	7/28/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1800	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: SIGNATURE: [signature]	DATE 7/28/94	2. RECEIVED BY: SIGNATURE:	DATE	3. RECEIVED BY: SIGNATURE:	DATE
PRINTED NAME/COMPANY: [signature]	TIME 1830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California, 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ Long Beach, California, 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☐ Denver (Aurora), Colorado, 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ Casper, Wyoming, 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

☐ Houston, Texas, 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ Corpus Christi, Texas, 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ Lake Charles, Louisiana, 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

ORIGINAL

No. 16490

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

2 of 2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANOS 1315-115
SEND REPORT TO: JOHN MORRIS	**BILLING INFORMATION**
ADDRESS: 4100 NW LOOP 410 #230	BILL TO: OPTECH
SAN ANTONIO TEXAS 78229	ADDRESS: 4100 NW LOOP 410 #230
	SAN ANTONIO TX 78229
PHONE: 210 731-0000	PHONE: 210 731-0000
FAX: 210 731-0008	FAX: PO NO.: 210 731-0008

LAB JOB NO. 941849

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	VOA / SW 8240	TPH / 8015 MOD	TOTAL LEAD / SW 7420	REMARKS / PRECAUTIONS
11	04-004BH 1.5 Dup	7/28/94	1450	SOIL	BRASS SLEEVES	N	2	✓	✓	✓	DUPLICATE
12	04-004BH 6'		1530					✓	✓	✓	
13,14,15	04-004BH 7' MS/MSD		1540					✓	✓	✓	MS/MSD
16	04-004BH 11.5'		1610					✓	✓	✓	
17	04-004BH 11.5 Dup		1613	↓	↓	↓	↓	✓	✓	✓	DUPLICATE
18	EB-1		1434	WATER	VOA VIALS PLASTIC LITER	HNO3 HCL	3 (ME)	✓	✓	✓	
19	EB-2		1536	WATER	VOA VIALS PLASTIC LITER	HNO3 HCL	3 (ME)	✓	✓	✓	
20	TRIP BLANK							✓			W/ EB 1
21	TRIP BLANK							✓			W/ EB 2

SAMPLER: B. HUGHES, R. TORRES, M. ESCOBAR AND TONTO DRILLING

SHIPMENT METHOD: FED EX

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER SEE CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	7/28/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1800	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE 7/29/94	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:		SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1030	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California — 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ Long Beach, California — 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☐ Denver (Aurora), Colorado — 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ Casper, Wyoming — 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

☐ Houston, Texas — 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ Corpus Christi, Texas — 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ Lake Charles, Louisiana — 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

ORIGINAL

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANG 131.5-115
SEND REPORT TO: JOHN MORRIS	**BILLING INFORMATION**
ADDRESS: 4100 NW LOOP 410 #230	BILL TO: (SAME AS LEFT)
SAN ANTONIO TX 78229	ADDRESS:
PHONE: 210 731-0000	PHONE:
FAX: 210 731-0008	FAX: PO NO.:

LAB JOB NO. 94179

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOA / SW 8240-624	TPH / MOD 8015 GAS/DIESEL	TOTAL LEAD / 7420	REMARKS / PRECAUTIONS
1	04-001 MW A	8/10/94	0907	WATER	VOAS, 500ml PLASTIC	Y	4	✓	✓	✓	
2	04-002 MW B	8/10/94	1001 (ME)	WATER	↓	Y	4	✓	✓	—	
3	BG-001 MW A	8/10/94	12:30				4	✓	✓	✓	
4	BG-001 MW A DUP	8/10/94	12:37				4	✓	✓	✓	
5	04-002 MW A	8/10/94	17:38				4	✓	✓	✓	
6	BG-001 MW B	8/10/94	13:40				4	✓	✓	✓	
7	FB-2	8/10/94	1600				4	✓	✓	✓	
8	EB-2	8/10/94	1552				4	✓	✓	—	
9	TRIP BLANK	—	—	✓	VOA VIAL	✓	1	✓			

SAMPLER: B. HUGES / R. TORRES / M. ESCOBAR

SHIPMENT METHOD: FED-EX

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER SEE CONTRACT

	DATE		DATE		DATE
1. RELINQUISHED BY: SIGNATURE:	8/10/94	2. RELINQUISHED BY: SIGNATURE:		3. RELINQUISHED BY: SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1815	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: SIGNATURE:	DATE 8/11/94	2. RECEIVED BY: SIGNATURE:	DATE	3. RECEIVED BY: SIGNATURE:	DATE
PRINTED NAME/COMPANY:	TIME 1015	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ **Anaheim, California** 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ **Long Beach, California** 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☐ **Denver (Aurora), Colorado** 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ **Casper, Wyoming** 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

☐ **Houston, Texas** 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ **Corpus Christi, Texas** 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ **Lake Charles, Louisiana** 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

ORIGINAL

No. 16492

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANG 1315-115
SEND REPORT TO: JOHN MORRIS	BILLING INFORMATION
ADDRESS: 4100 NW LOOP 410 #230	BILL TO:
SAN ANTONIO TX 78229	ADDRESS: SAME AS LEFT
PHONE: 210 731-0000	PHONE:
FAX: 210 731-0008	FAX: PO NO.:

LAB JOB NO. 94187

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOA / 5W 8240 - 624; TPH / Mod 5W 8015 (Gasoline); TOTAL LEAD / 5W 7420	REMARKS / PRECAUTIONS
1	04-003MW-B	8/11/94	0919	WATER	VOA VIALS 40 ML PLASTIC	Y	4	✓ ✓ ✓	
2	05-003MW-A		1348					✓ ✓ ✓	
3	05-003MW-B		1434					✓ ✓ ✓	
4	05-002MW-A		1800					✓ ✓ ✓	
5	05-002MW-B	↓	1915	↓	↓	↓	↓	✓ ✓ ✓	
6	TRIP BLANK	—	—	WATER	VOA VIAL	Y	1	✓	
7	05-003MW-A-Dup	8/11/94	1358	WATER	VOA VIAL 40 ML PLASTIC	Y	4	✓ ✓ ✓	DUPLICATE

SAMPLER: M. ESCOBAR / R. TORRES

SHIPMENT METHOD: FED-EX

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER SSS CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mark Escobar	8/11/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME: 1930	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [illegible]	8/12/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: [illegible]	TIME: 0901	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California
1250 E. Ste Autry Way
Anaheim, California 92805
(714) 937-1094
(800) 404-2673

☐ Long Beach, California
3700 Cherry Avenue
Long Beach, California 90807
(310) 595-8401
(800) 814-3433

☐ Denver (Aurora), Colorado
10703 E. Bethany Drive
Aurora, Colorado 80014
(303) 751-1780
(800) 972-2673

☐ Casper, Wyoming
420 West 1st Street
Casper, Wyoming 82601
(307) 235-5741
(800) 666-0306

☐ Houston, Texas
8210 Mosely Road
Houston, Texas 77075
(713) 943-9776
(800) 734-2673

☐ Corpus Christi, Texas
1733 North Padre Island Drive
Corpus Christi, Texas 78408
(512) 289-2673
(800) 548-8228

☐ Lake Charles, Louisiana
3645 Beglis Parkway
Sulphur, Louisiana 70663
(318) 583-4926
(800) 259-4926

ORIGINAL

No. 1693

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANG 1315-115
SEND REPORT TO: JEAN MORRIS	**BILLING INFORMATION**
ADDRESS: 4100 NW LOOP 410 #230 SAN ANTONIO, TX 78229	BILL TO: ADDRESS: (SAME AS LEFT)
PHONE: (210) 731-0000	PHONE:
FAX: (210) 731-0008	FAX: PO NO.:

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	VOA	SW 8240 TPH	SW 6010S MOD TOTAL LEAD	7420					REMARKS / PRECAUTIONS
1	BG-001BH 1.5'	8/12/94	1224	SOIL	ST. STEEL SLEEVES	N	2	✓	✓	✓						
2	BG-001BH 9'	↓	1228	SOIL	↓	↓	2	✓	✓	✓						
3	TRIP BLANK	↓	—	WATER	VOA VIAL	Y	1	✓								

LAB JOB NO. 94199

SAMPLER: BILL HUGES/TONTO DRILLING

SHIPMENT METHOD: FED-EX

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER SEE CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	8/12/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1330	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	8/13/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: GSLDE	TIME 720	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

G - 5

☒ **Anaheim, California** 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ **Long Beach, California** 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☐ **Denver (Aurora), Colorado** 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ **Casper, Wyoming** 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

☐ **Houston, Texas** 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ **Corpus Christi, Texas** 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ **Lake Charles, Louisiana** 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

ORIGINAL

No. 16484

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OpTech	PROJECT NAME/NUMBER: HAYWARD ANGS 1315-115
SEND REPORT TO: JOHN MORRIS	**BILLING INFORMATION**
ADDRESS: OPERATIONAL TECHNOLOGIES	BILL TO: (CUSTOMER - SEE AT LEFT)
4100 NW LOOP 410, SUITE 230	ADDRESS:
SAN ANTONIO, TX 78229	
PHONE: (210) 731-0000	PHONE:
FAX: (210) 731-0008	FAX: PO NO.:

LAB JOB NO. 94196

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: 624 (VOCs)	8015 mod - TPH & TPHd	Total Lead SW 7420	REMARKS / PRECAUTIONS
~~05-001 MW A~~ 1 WITH	05-001 MW A	8-9-94	15:20	WATER	VOA, PLY	HCl HNO3	4	✓	✓	✓	
2	TRIP BLANK	8-9-94	N/A	"	VOA	HCl	1	✓			
3	05-001 MW B	8-9-94	17:03	"	VOA + PLASTIC	HCl, HNO3	4	✓	✓	✓	
4	FIELD BLANK	8-9-94	18:40	"	GLASS + PLASTIC	HCl + HNO3	4	✓	✓	✓	
5	EQUIPMENT BLANK	8-9-94	18:47	"	GLASS + PLASTIC	HCl, HNO3	4	✓	✓	✓	

SAMPLER: William T. Hughes, Mark Escobar, Ruben Torres

SHIPMENT METHOD: FED EX

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER PER CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	8/9/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: William T. Hughes OpTech	TIME 7:50	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE 8/10/94	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:		SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 7:10	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California — 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ Long Beach, California — 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☐ Denver (Aurora), Colorado — 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ Casper, Wyoming — 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0306

☐ Houston, Texas — 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ Corpus Christi, Texas — 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ Lake Charles, Louisiana — 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

ORIGINAL

No. 02334

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANG 1315-115
SEND REPORT TO: JOHN MORRIS	**BILLING INFORMATION**
ADDRESS: 4100 NW LOOP 410 #230	BILL TO: OPTECH
SAN ANTONIO TX 78229	ADDRESS: 4100 NW LOOP 410 #230
	SAN ANTONIO TX 78229
PHONE: 210 731-0000	PHONE: 210 731-0000
FAX: 210 731-0008	FAX: 210 731-0008 PO NO.:

1 of 2

LAB JOB NO. 941953

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOA / 6ws240	TPH / MOD 8015	TOTAL LEAD / SW 7420	REMARKS / PRECAUTIONS
1	05-001R-BH 1.5'	8/6/94	835	SOIL	STAINLESS ST. SLEEVES	N	2	✓	✓	✓	
2	05-001R-BH 11.5'		906					✓	✓	✓	
3	05-001R-BH 11.5 Dup		910					✓	✓	✓	DUPLICATE
4	05-001R-BH 14-15.5'		927					✓	✓	✓	
5	05-002R-BH 2'		1038					✓	✓	✓	
6	05-002R-BH 11'		1058					✓	✓	✓	
7	05-002R-BH 15'		1114					✓	✓	✓	
8	05-003R-BH 1.5'		1157					✓	✓	✓	
9	05-003R-BH 11'		1226					✓	✓	✓	
10	05-003R-BH 15'		1229					✓	✓	✓	

SAMPLER: M. ESCOBAR, R. TORRES, B. HUGHES, TOUTO DRILLING

SHIPMENT METHOD: FED-EX

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER SEE CONTRACT

	DATE		DATE		DATE
1. RELINQUISHED BY: SIGNATURE: M. Escobar	8/8/94	2. RELINQUISHED BY: SIGNATURE:		3. RELINQUISHED BY: SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1035	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: SIGNATURE:	DATE 8/9/94	2. RECEIVED BY: SIGNATURE:	DATE	3. RECEIVED BY: SIGNATURE:	DATE
PRINTED NAME/COMPANY:	TIME 1420	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California, 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 404-2673

☐ Long Beach, California, 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

☐ Denver (Aurora), Colorado, 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

☐ Casper, Wyoming, 420 West 1st Street, Casper, Wyoming 82601, (307) 235-5741, (800) 666-0603

☐ Houston, Texas, 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

☐ Corpus Christi, Texas, 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

☐ Lake Charles, Louisiana, 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583-4926, (800) 259-4926

No. 03335

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANG 1315-115
SEND REPORT TO: JOHN MORRIS	BILLING INFORMATION
ADDRESS: 4100 NW LOOP 410 #230	BILL TO: 4100 NW LOOP 410 #230
SAN ANTONIO TX 78229	ADDRESS: SAN ANTONIO TX 78229
PHONE: 210 731-0000	PHONE: 210 731-0000
FAX: 210 731-0008	FAX: 210-731-0008 PO NO.:

2 OF 2

LAB JOB NO. 941953

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOA / SW 8240	TPH / MOD 8015	TOTAL LEAD / SW7420	REMARKS / PRECAUTIONS
11	05-004R-BH 1.5'	8/6/94	1312	SOIL	STAINLESS ST. SLEEVE	N	2	✓	✓	✓	
12	05-004R-BH 6'		1316					✓	✓	✓	
13	05-004R-BH 11'		1345					✓	✓	✓	
14	EB-6		1500	WATER	VOA VIAL 500ml PLASTIC	Y	4	✓	✓	✓	
15	FB-2		1500		VOA VIAL 500ml PLASTIC	Y	4	✓	✓	✓	
16	TRIP BLANK	—	—		VOA VIAL	Y	1	✓			

SAMPLER: M. ESCOBAR, R. TORRES, B. HOCHER, TONTO DRILLING

SHIPMENT METHOD: FED-EX

AIRBILL NO.:

REQUIRED TURNAROUND:* | | SAME DAY | | 24 HOURS | | 48 HOURS | | 72 HOURS | | 5 DAYS | | 10 DAYS | | ROUTINE OTHER SEE CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mark Esaler	8/8/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1035	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	8/9/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 2c	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California
1250 E. Gene Autry Way
Anaheim, California 92805
(714) 937-1094
(800) 404-2673

☐ Long Beach, California
3700 Cherry Avenue
Long Beach, California 90807
(310) 595-8401
(800) 814-3433

☐ Denver (Aurora), Colorado
10703 E. Bethany Drive
Aurora, Colorado 80014
(303) 751-1780
(800) 972-2673

☐ Casper, Wyoming
420 West 1st Street
Casper, Wyoming 82601
(307) 235-5741
(800) 666-0603

☐ Houston, Texas
8210 Mosely Road
Houston, Texas 77075
(713) 943-9776
(800) 734-2673

☐ Corpus Christi, Texas
1733 North Padre Island Drive
Corpus Christi, Texas 78408
(512) 289-2673
(800) 548-8228

☐ Lake Charles, Louisiana
3645 Beglis Parkway
Sulphur, Louisiana 70663
(318) 583-4926
(800) 259-4926

No. 16488

WESTERN ATLAS CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: HAYWARD ANG 1315-115
SEND REPORT TO: JOHN MORRIS	BILLING INFORMATION
ADDRESS: 4100 NW LOOP 410 #230	BILL TO: OPTECH
SAN ANTONIO TX 78229	ADDRESS: 4100 NW LOOP 410 #230
	SAN ANTONIO TX 78229
PHONE: (210) 731-0000	PHONE: (210) 731-0000
FAX: (210) 731-0008	FAX: 210 731-0008 PO NO.:

941941
LAB JOB NO.
Op Tech

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOA / 5W 8240	TPH / Mod 8015	TOTAL LEAD / 5W7420	Organic *	REMARKS / PRECAUTIONS
1	05-005BHRE 1.5'	8/5/94	1610	Soils	STAINLESS ST. SLEEVES	N	2	✓	✓	✓		
2,3,4	05-005BHRE 6.5'-8' MS/MSD		1630					✓	✓	✓		MS/MSD
5 3	05-005BHRE 6'		1615					✓	✓	✓		
6 4	05-005BHRE 11.5'		1645					✓	✓	✓		
7 5	05-005BHRE 11.5' Dup 13.0'		1657					✓	✓	✓		DUPLICATE
8 6	FB-1		1700	WATER	500 ml AMBER PLASTIC	HCl	4	✓	✓	✓		
9 7	EB-5		1700	WATER	500ml PLASTIC / 40ml VOA	Y	4	✓	✓	✓		* per Workplan
10 8	TRIP BLANK	—	—	WATER	40ml VOA	Y	1	✓				

SAMPLER: B. HUGES, RUBEN TORRES, TONTO DRILLING — SHIPMENT METHOD: FED-EX — AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE OTHER SEE CONTRACT

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mark Esden	5/8/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: OPTECH	TIME 1800	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE 6/8/94	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:		SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: TIM SCOW COR	TIME 11AM	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California
1250 E. Gene Autry Way
Anaheim, California 92805
(714) 937-1094
(800) 404-2673

☐ Long Beach, California
3700 Cherry Avenue
Long Beach, California 90807
(310) 595-8401
(800) 814-3433

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10703 E. Bethany Drive
Aurora, Colorado 80014
(303) 751-1780
(800) 972-2673

☐ Casper, Wyoming
420 West 1st Street
Casper, Wyoming 82601
(307) 235-5741
(800) 666-0306

☐ Houston, Texas
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(713) 943-9776
(800) 734-2673

☐ Corpus Christi, Texas
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Corpus Christi, Texas 78408
(512) 289-2673
(800) 548-8228

☐ Lake Charles, Louisiana
3645 Beglis Parkway
Sulphur, Louisiana 70663
(318) 583-4926
(800) 259-4926

ORIGINAL

CORELAB

CORE LABORATORIES, INC.

No. 24305

CHAIN OF CUSTODY RECORD

1 of 2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: 1315-115
SEND REPORT TO: Jeff Blunt	**BILLING INFORMATION**
ADDRESS: 4100 NW Loop 410, #230	BILL TO: Same
SAN Antonio, TX 78229	ADDRESS:
PHONE: (210) 731-0000	PHONE:
FAX: (210) 731-0008	FAX: PO NO.:

LAB JOB NO. 943120

SAMPLE NO.	SAMPLE ID/DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRESERV.	NUMBER OF CONTAINERS	VOC - 624	TPH-G - 8015 Mod (VOA)	TPH-D - 8015 Mod (1-L Amber)	Lead - 6010	REMARKS / PRECAUTIONS
1	BG-001 MW	7 Dec 94	0716	H_2O	1-PLASTIC 3-VOA 1-Amber glass		5	✓	✓	✓	✓	
2	04-001 MW	"	0750	"			5	✓	✓	✓	✓	
3	04-002 MW	"	0822	"			5	✓	✓	✓	✓	
4	04-002 MW - Dup	"	0835	"			5	✓	✓	✓	✓	
5	Field Blank	"	0857	"			5	✓	✓	✓	✓	
6	EQ Blank	"	0903	"			5	✓	✓	✓	✓	
7	Trip Blank	"		"			3	✓	✓	X	X	
											12-11	

SAMPLER: R. Castillo, JByrd

SHIPMENT METHOD: FEDEX

AIRBILL NO.: 269375583 1

REQUIRED TURNAROUND:* | | SAME DAY | | 24 HOURS | | 48 HOURS | | 72 HOURS | | 5 DAYS | | 10 DAYS | | ROUTINE | OTHER As stated in Contract

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: JByrd JR	7 Dec 94	SIGNATURE: FEDEX	8 Dec 94	SIGNATURE:	
PRINTED NAME/COMPANY: JBYRD JR / OPTECH	TIME 1148	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Bello	7 Dec 94	SIGNATURE:	12-8-94	SIGNATURE:	
PRINTED NAME/COMPANY: FEDEX	TIME 1148	PRINTED NAME/COMPANY: CLAE	TIME 0940	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

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(800) 404-2673

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Long Beach, California 90807
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(800) 814-3433

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Corpus Christi, Texas 78408
(512) 289-2673
(800) 548-8228

☐ Lake Charles, Louisiana
3645 Beglis Parkway
Sulphur, Louisiana 70663
(318) 583-4926
(800) [illegible]

CORE LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

2 of 2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: OPTECH	PROJECT NAME/NUMBER: 1315-115
SEND REPORT TO: Jeff Blunt	BILLING INFORMATION
ADDRESS: 4100 NW Loop 410, #230	BILL TO:
San Antonio, TX 78229	ADDRESS: Same
PHONE: (210) 731-0000	PHONE:
FAX: (210) 731-0008	FAX: PO NO.:

LAB JOB NO. 943126

SAMPLE NO.	SAMPLE ID/DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOC-624	TPH-G-8015 Mod (VOA)	TPH-D-8015 Mod (1/L amber)	Lead-6010	REMARKS / PRECAUTIONS
8 1	05-003 MW	7 Dec 94	0920	H_2O	1-PLASTIC 3-VOA		5	✓	✓	✓	✓	
9 2	05-001 MW	"	1018	"	1-1/2 Amber		5	✓	✓	✓	✓	
10 3	05-002 MW	"	1050	"	4		5	✓	✓	✓	✓	
11 4	Trip Blank	"		"	"		3	✓	✓	X	X 12-7-94	

SAMPLER: R. Castillo, J Byrd

SHIPMENT METHOD: FEDEX

AIRBILL NO.: 269375831

REQUIRED TURNAROUND:* | | SAME DAY | ✓ | 24 HOURS | | 48 HOURS | | 72 HOURS | | 5 DAYS | | 10 DAYS | | ROUTINE OTHER As stated in Contract

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: J Byrd JR	7 Dec 94	SIGNATURE:	12-8-94	SIGNATURE:	
PRINTED NAME/COMPANY: J Byrd JR / OPTECH	TIME 1148	PRINTED NAME/COMPANY: FEDEX	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: T Bello	7 Dec 94	SIGNATURE:	12-8-94	SIGNATURE:	
PRINTED NAME/COMPANY: FEDEX	TIME 1648	PRINTED NAME/COMPANY: Core Lab	TIME 740	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☒ Anaheim, California
1250 E. Gene Autry Way
Anaheim, California 92805
(714) 937 1094
(800) 404 2673

☐ Long Beach, California
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☐ Houston, Texas
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Corpus Christi, Texas 78408
(512) 289-2673
(800) 548 8228

☐ Lake Charles, Louisiana
3645 Beglis Parkway
Sulphur, Louisiana 70663
(318) 583 4926
(800) 259 4926

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Operational Technologies	PROJECT NAME/NUMBER: 1315-189
SEND REPORT TO: Attn: Jeff Blunt	**BILLING INFORMATION**
ADDRESS: 4100 NW. Loop 410	BILL TO: Operational Technologies
San Antonio TX. 78229	ADDRESS: 4100 NW. Loop 410
	San Antonio, TX. 78229
PHONE: 210 (731-0000)	PHONE: 210 (731-0000)
FAX: 210 (731-0008)	FAX: 210 (731-0008) PO NO.

LAB JOB NO. 953596

	SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: VOC's SW 624	TPH 8x5 / Diesel/SW 8015 Mod	Lead/Pb SW 6010 & SW 7421	REMARKS / PRECAUTIONS
1	1207 TB	Trip Blank	12/5/95	12/5/95	H2O	VOAs	~~HNO3~~ HCl	2	✓	✓	✓	
2	1207 FB	Field Blank	12/7/95	0900	H2O	VOAs	HCl	2	✓	✓	✓	Attn. Lance Bell
3	1207 EB	Equipt Blank	12/7/95	0855	H2O	VOAs	HCl	2	✓	✓	✓	Field Dup will
4	05-002MW	Site 5 MW-002	12/7/95	0910	H2O	VOAs/Plastic container	HCl/HNO3	4	✓	✓	✓	be run on
5	05-002MW	Site 5 MW-002 Dup	12/7/95	0910	H2O	VOAs/Plastic container	HCl/HNO3	3	✓	✓	✓	05-002 Dup.
6	05-003MW	Site 5 MW-003	12/7/95	1020	H2O	VOAs/Plastic container	HCl/HNO3	4	✓	✓	✓	
7	05-001MW	Site 5 MW-001	12/7/95	1115	H2O	VOAs/Plastic container	HCl/HNO3	4	✓	✓	✓	

SAMPLER: Rudy Arredondo | SHIPMENT METHOD: Fed Express | AIRBILL NO.: 723641898 80

REQUIRED TURNAROUND:* SAME DAY | 24 HOURS | 48 HOURS | 72 HOURS | 5 DAYS | 10 DAYS | ✓ ROUTINE | OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Rudy Arredondo	12/7/95	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Rudy Arredondo / OPTECH	TIME	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:		SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

☐ Anaheim, California — 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937 1094, (800) 404 2673

☐ Aurora (Denver), Colorado — 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751 1780, (800) 972 2673

☐ Casper, Wyoming — 420 West 1st Street, Casper, Wyoming 82601, (307) 235 5741, (800) 666 0306

☐ Corpus Christi, Texas — 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289 2673, (800) 548 8228

☐ Houston, Texas — 8210 Mosley Road, Houston, Texas 77075, (713) 943 9776, (800) 734 2673

☐ Lake Charles, Louisiana — 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583 4926, (800) 259 4926

☐ Long Beach, California — 3700 Cherry Avenue, Long Beach, California 90807, (310) 595 8401, (800) 814 3433

ORIGINAL