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REPORTS

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OIL CONSERVATION DIV.
SANTA FE

MONTHLY MONITORING REPORT

AMOCO PRODUCTION CORPORATION

SAN JUAN GRAVEL A-1 TANK BATTERY

FARMINGTON, NEW MEXICO

Prepared for:
Mr. Buddy Shaw
Environmental Coordinator
Amoco Production Company

September 1993

Project: 92140/C4028

5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 632-0615

MONTHLY MONITORING REPORT
AMOCO PRODUCTION CORPORATION
SAN JUAN GRAVEL A-1 - TANK BATTERY
PRODUCTION TANK PIT AREA
SE/4, SE/4 (P) SECTION 21, T29N, R13W, NMPM
FARMINGTON, SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR:
MR. BUDDY SHAW
ENVIRONMENTAL COORDINATOR
AMOCO PRODUCTION COMPANY

PROJECT/PIT NO.: 92140/C4028

SEPTEMBER 1993

ENVIROTECH, INC.
Environmental Scientist & Engineers
5796 U.S. Highway 64-3014
Farmington, New Mexico

(505) 632-0615

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FARMINGTON, SAN JUAN COUNTY, NEW MEXICO

APPENDICES

SEPTEMBER 1993 PROJECT/PIT NO: 92140/C4028

MONTHLY MONITORING REPORT
AMOCO PRODUCTION CORPORATION
SAN JUAN GRAVEL A-1 - TANK BATTERY
PRODUCTION TANK PIT AREA
SE/4, SE/4 (P) SECTION 21, T29N, R13W, NMPM
FARMINGTON, SAN JUAN COUNTY, NEW MEXICO

INTRODUCTION

Amoco Production Company has installed a pump and treat system as part of a proposed Remedial Action Plan (RAP) to abate groundwater contamination from the production equipment and storage system associated with the subject well located south of Farmington, in the Southeast 1/4 of the Southeast 1/4 of Section 21, Township 29N, Range 13W, NMPM, San Juan County, New Mexico (refer to Vicinity Map - Appendix A). Monthly monitoring of the remediation system has been required by the New Mexico Oil Conservation Division (NMOCD) for the initial three months of the system operation.

This is the 2nd monthly monitoring report (MMR) that Envirotech, Inc. has produced for this site.

Included in the MMR is the treatment system analyses and an outline of the sampling schedule for the remaining 1993 calendar year (located within the Purpose and Scope of Work section on the following page).

PURPOSE AND SCOPE OF WORK

The purpose and scope of this monthly monitoring is to collect groundwater samples for benzene, toluene, ethylbenzene, and xylenes (BTEX), Polynuclear Aromatic Hydrocarbons (PAH), heavy metals, and major cations and anions analyses using appropriate EPA laboratory methods.

The scope of work consisted of the following:

A. Sampling of the Air Stripper effluent to verify the treated water contaminant concentrations during the remediation.

B. Documentation of analytical results from the sampling event.

C. The 1993 calendar year sampling schedule is as follows:

SAMPLING SCHEDULE

	JUL 6, 93	AUG 6, 93	SEP 6, 93	OCT-DEC, 93
MW - 1	X			X
MW - 2	X			
MW - 3	X			X
MW - 4	X			
MW - 5	X			X
MW - 6	X			
MW - 7	X			X
EFFLUENT	X	X	X	X

ANALYTICAL RESULTS

For this monthly monitoring, only the effluent from the Air Stripper was required to be sampled. The BTEX groundwater sample was collected in laboratory supplied new 40 ml VOA vials and preserved with 5% $HgCl_2$; Polynuclear Aromatic Hydrocarbons (PAH) in a new 1 liter amber coated glass container with teflon closure, heavy metals in a 250 ml plastic container, and the major cations and anions in a 1 liter plastic container. The groundwater samples were placed on ice and transported to Envirotech's laboratory later that day. Sampling was preformed in accordance with USEPA SW-846 protocol.

The field and laboratory results are summarized as follows:

1. Table 1 summarizes the field sampling conditions for this monthly monitoring report.

2. Table 2 summarizes the laboratory analyses for the effluent.

3. Table 3 summarizes the Clean-up Standards for groundwater for the State of New Mexico.

All analytical results for the laboratory analyses, laboratory QC/QA, and Chain-of-Custody for this monthly sampling event are presented in Appendix B.

TABLE 1

SUMMARY OF EFFLUENT SAMPLING CONDITIONS
AMOCO PRODUCTION COMPANY
SAN JUAN GRAVEL A-1 - TANK BATTERY
PRODUCTION TANK PIT AREA

SAMPLING DATE: AUGUST 31, 1993

SAMPLING POINT	WATER CONDITIONS			COMMENTS
	TEMP. (°C)	CONDUCT (µS)	pH	
Effluent	21.0	1900	7.60	clear, no odor

TABLE 2

RESULTS OF THE AIR STRIPPER EFFLUENT LABORATORY ANALYSIS
AMOCO PRODUCTION CORPORATION
SAN JUAN GRAVEL A-1 - TANK BATTERY
PRODUCTION TANK PIT AREA

BTEX and PAH (μg/L)

SAMPLING POINT	Benzene (μg/L)	Toluene (μg/L)	Ethyl-benzene (μg/L)	Total Zylenes (μg/L)	PAH (μg/L)
Effluent	1.4	0.9	ND	1.3	ND

HEAVY METALS (mg/L)

SAMPLING POINT	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)
Effluent	ND	ND	ND	0.035	ND	ND	ND

NOTE: ND - Non detectable at the stated detection limit (see laboratory analyses).
μg/L = equivalent to parts per billion.
mg/L = equivalent to parts per million.

TABLE 2
(PART 2 OF 2)

LABORATORY ANALYSES		LABORATORY ANALYSES		
			mg/L	meq/L
Lab pH	7.80	Bicarbonate as HCO3	655	10.74
Lab Conductivity, μmhos/cm @ 25°C	2040	Carbonate as CO3	0	0
		Chloride	100	2.82
Total Dissolved Solids (180°C), mg/L	1340	Sulfate	527	10.97
Total Dissolved Solids (calc), mg/L	1400	Calcium	191	9.52
Total Alkalinity as CaCO3, mg/L	537	Magnesium	75	6.19
Total Hardness as CaCO3, mg/L	785	Potassium	4.7	0.12
		Sodium	178	7.74
NOTE: NA - NO DATA AVAILABLE.		Hydroxide as OH	0	0
μmhos/cm = micro mhos per centimeter		Major Cations	NA	23.56
mg/L = parts per million		Major Anions	NA	24.53
meq/L = milliequivalent per liter		Cation/Anion Differ.	NA	2.01%

NOTE: NA - Indicates measurements not applicable.

Clean Up Standards:

The current maximum allowable concentrations for groundwater contamination as outlined by the State of New Mexico Water Quality Control Commission (August 18, 1991) are summarized and reported in Table 4.

TABLE 4

HYDROCARBON SOIL & GROUNDWATER CONTAMINATION STANDARDS
STATE OF NEW MEXICO
RANKING FOR THE SITE > 19

Parameter	Max. Allowable Limits Groundwater
	(µg/L)
Benzene	10
Toluene	750
Ethylbenzene	750
Total Xylene	620
Polynuclear aromatic Hydrocarbons	(µg/L)
Total Naphthalene	30
Benzo(a)pyrene	0.7
Heavy Metals	(mg/L)
Arsenic	0.1
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Total Mercury	0.002
Selenium	0.05
Additional Information	(mg/L)
Protected Groundwater Total Dissolved Solids	<10000

Notes: 1) **µg/L - equivalent to parts per billion.**
mg/L - equivalent to parts per million.

DISCUSSION

Laboratory Analyses

The laboratory analyses conducted indicate that the Air Stripper Effluent was found to well below regulatory standards for all analyses conducted.

In addition, the Total Dissolved Solids analysis for the Air Stripper Effluent continues to indicate that the groundwater contains less than 10,000 ppm.

System Effectiveness

Due to the initiation of the remediation system, all data presented is insufficient to draw any conclusive evidence concerning system effectiveness. However, the Air Stripper Effluent can be regarded as effectively treating injected water from the recovery wells on the site to drinking water standards for hydrocarbon contamination.

LIMITATIONS AND CLOSURE

The scope of Envirotech's services was limited to sampling of the air stripper effluent. All work has been performed in accordance with generally accepted professional practices in geotechnical/ environmental engineering and hydrogeology.

The Monthly Monitoring Report has been prepared for the exclusive use of Amoco Production Company as it pertains to their San Juan Gravel A -1 - Tank Battery facility located on the SE/4 of the SE/4 of Section 21, Township 29N, Range 13W, NMPM, San Juan County, New Mexico.

I certify that I am personally familiar with the investigative work at the site, the site conditions, and the reported information as described and this document.

Respectfully Submitted,
ENVIROTECH, INC.

Jeffrey C. Blagg FOR
Nelson Velez
Staff Geologist

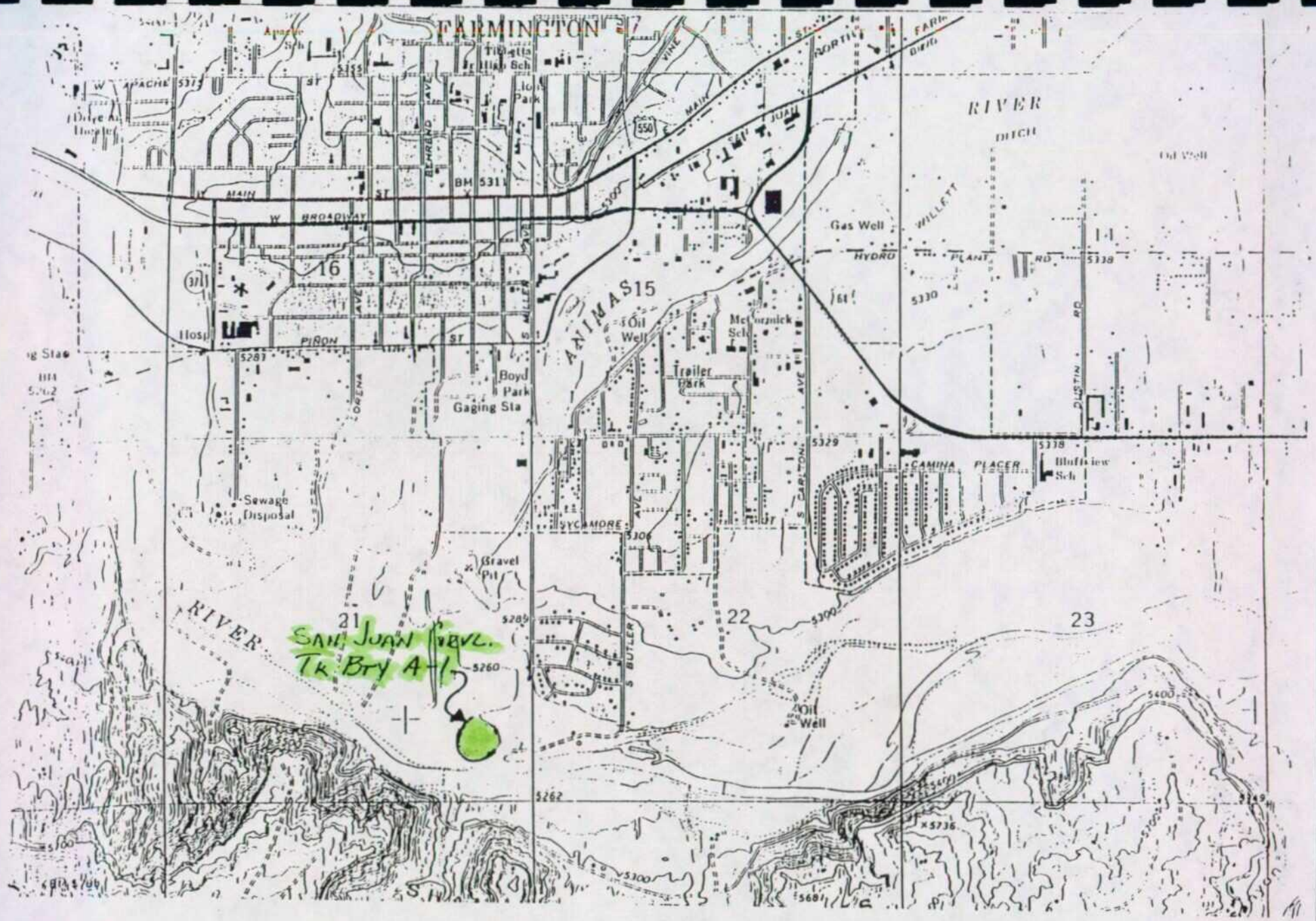
Reviewed By:

Michael K. Lane, P.E.
Geological Engineer

Appendices

NV/nv

TB2MM93.RPT



REFERENCE: USGS FARMINGTON SOUTH QUADRANGLE, SAN JUAN COUNTY, NM 7.5' SERIES.

SAN JUAN GRAVEL TANK BATTERY #1
SE/4, SE/4, SEC 21, T29N, R13W
PRODUCTION TANK PIT AREA

REMEDIATION PLAN

PROJECT NO: 92140/9406-29

AMOCO PRODUCTION COMPANY
200 AMOCO CT.
FARMINGTON, NEW MEXICO

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

VICINITY MAP
SHEET 1

9/30/92

LEGEND

RECOVERY WELL

MONITOR WELL

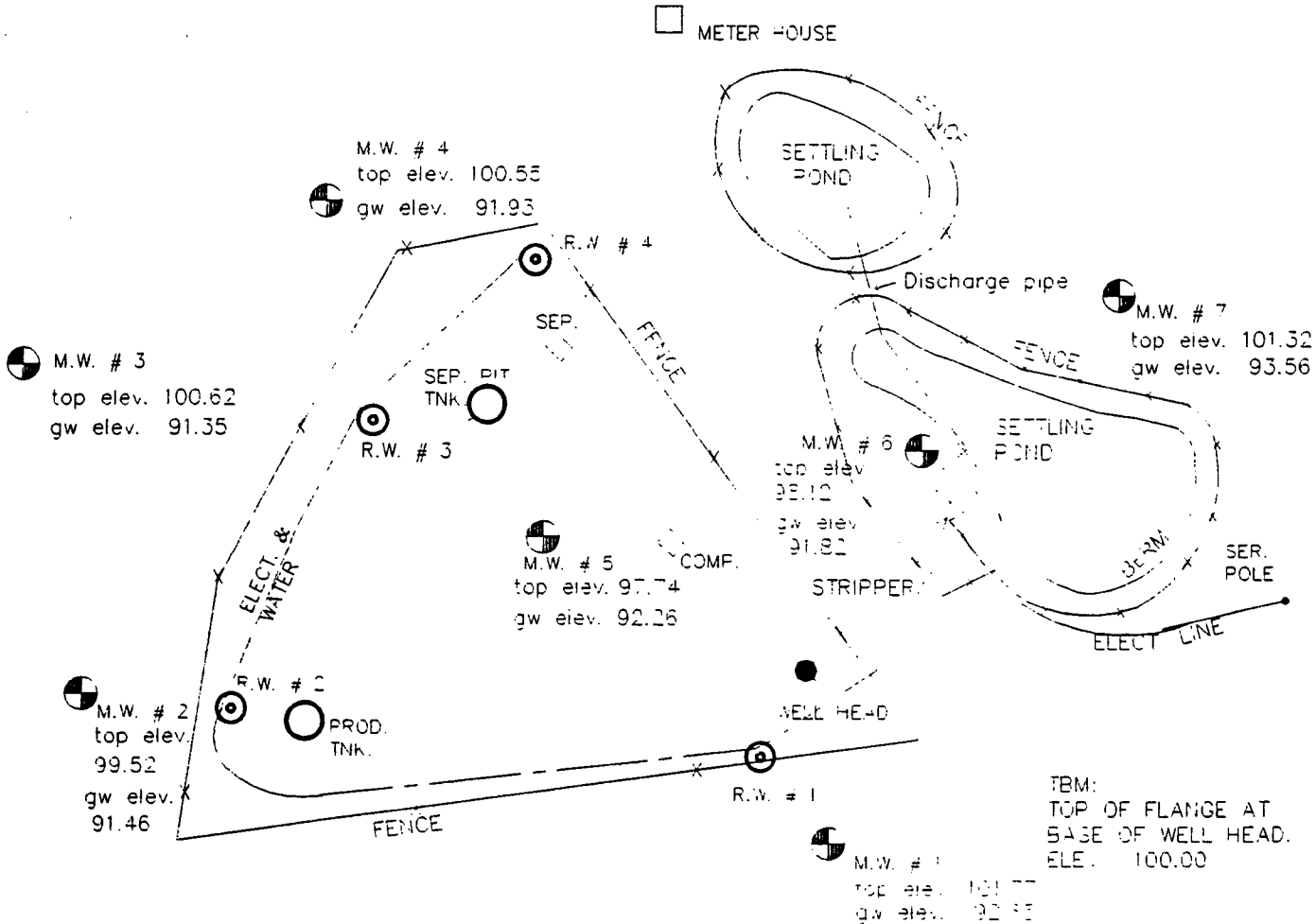
WELL HEAD

SCALE IN FEET

10 0 50 100

N

GROUNDWATER CONTOUR ELEVATIONS (FT.)



TBM:
TOP OF FLANGE AT
BASE OF WELL HEAD.
ELE. 100.00

SITE DIAGRAM
AMOCO PRODUCTION CO
SAN JUAN GRAVEL #1
TANK BATTERY

PROJECT No. 92140-04029

Envirotech Inc
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

ENGINEERED BY: DEF
EDITED BY: NV
DATE SURVEYED: 2-24-93
DATE DRAWN: 3-30-93
SHEET # 1

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Effluent	Date Reported:	09-01-93
Laboratory Number:	5984	Date Sampled:	08-31-93
Sample Matrix:	Water	Date Received:	08-31-93
Preservative:	HgCl and Cool	Date Analyzed:	09-01-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.4	0.2
Toluene	0.9	0.5
Ethylbenzene	ND	0.2
p,m-Xylene	0.9	0.6
o-Xylene	0.4	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	102 %
Bromofluorobenzene	93 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A1 Production Pit C4028

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8100
POLYNUCLEAR AROMATIC HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	Effluent	Date Reported:	09-03-93
Laboratory Number:	5985	Date Sampled:	08-31-93
Sample Matrix:	Water	Date Received:	08-31-93
Preservative:	Cool	Date Analyzed:	09-02-93
Condition:	Cool & Intact	Analysis Requested:	8100

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Naphthalene	ND	0.20
Acenaphthylene	ND	0.20
Acenaphthene	ND	0.20
Fluorene	ND	0.20
Phenanthrene	ND	0.20
Anthracene	ND	0.20
Fluoranthene	ND	0.20
Pyrene	ND	0.20
Benzo(a)anthracene	ND	0.20
Chrysene	ND	0.20
Benzo(b) & Benzo(k) fluoranthene	ND	0.20
Benzo(a)pyrene	ND	0.20
Indeno(1,2,3-cd) pyrene & Dibenzo(a,h)anthracene	ND	0.20
Benzo(g,h,i)perylene	ND	0.20

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronapthalene	104 %

Methods: Method 8100, Polynuclear Aromatic Hydrocarbons, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ GVL A1 Production Pit C4028

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

TRACE METAL ANALYSIS

Client:	Amoco	Project #:	92140
Sample ID:	Effluent	Date Reported:	09-08-93
Laboratory Number:	5986	Date Sampled:	08-31-93
Sample Matrix:	Water	Date Received:	08-31-93
Preservative:	Cool	Date Analyzed:	09-08-93
Condition:	Cool & Intact	Analysis Needed:	Trace metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	0.0001
BARIUM	ND	0.01
CADMIUM	ND	0.0001
CHROMIUM	0.035	0.0001
LEAD	ND	0.0001
MERCURY	ND	0.0002
SELENIUM	ND	0.0001

Method: Methods 3010A, 3020A, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA 1992

Methods 7060A, 7080, 7131, 7191, 7470, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA 1992

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A1 Production Pit C4028

Analyst

Review

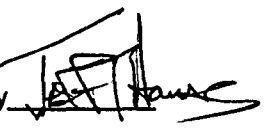
Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client:	**ENVIROTECH**		
Sample ID:	SJ Gul Al Prod. Pit/effluent	Date Reported:	09/16/93
Laboratory ID:	3537	Date Sampled:	08/31/93
Sample Matrix:	Water	Time Sampled:	1325
Condition:	Cool/Intact	Date Received:	09/01/93

Parameter	Analytical Result	Units		Units
Lab pH	7.8	s.u.		
Lab Conductivity @ 25° C	2,040	umhos/cm		
Total Dissolved Solids @ 180°C	1,340	mg/L		
Total Dissolved Solids (Calc)	1,400	mg/L		
Total Alkalinity as CaCO3	537	mg/L		
Total Hardness as CaCO3	785	mg/L		
Bicarbonate as HCO3	655	mg/L	10.74	meq/L
Carbonate as CO3	0	mg/L	0.00	meq/L
Hydroxide as OH	0	mg/L	0.00	meq/L
Chloride	100	mg/L	2.82	meq/L
Sulfate	527	mg/L	10.97	meq/L
Calcium	191	mg/L	9.52	meq/L
Magnesium	75	mg/L	6.19	meq/L
Potassium	4.7	mg/L	0.12	meq/L
Sodium	178	mg/L	7.74	meq/L
Cations			23.56	meq/L
Anions			24.53	meq/L
Cation/Anion Difference			2.01	%

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
"Standard Methods For The Examination Of Water And Waste Water", 17th ed., 1989.

Reviewed by 

ENVIROTECH LABORATORIES

5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8100
POLYNUCLEAR AROMATIC HYDROCARBONS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-03-93
Laboratory Number:	0902PAH.BLK	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-02-93
Condition:	NA	Analysis Requested:	8100

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Naphthalene	ND	0.2
Acenaphthylene	ND	0.2
Acenaphthene	ND	0.2
Fluorene	ND	0.2
Phenanthrene	ND	0.2
Anthracene	ND	0.2
Fluoranthene	ND	0.2
Pyrene	ND	0.2
Benzo(a)anthracene	ND	0.2
Chrysene	ND	0.2
Benzo(b) & Benzo(k) fluoranthene	ND	0.2
Benzo(a)pyrene	ND	0.2
Indeno(1,2,3-cd) pyrene & Dibenzo(a,h)anthracene	ND	0.2
Benzo(g,h,i)perylene	ND	0.2

SURROGATE RECOVERY:

Parameter	Percent Recovery
1-fluoronapthalene	98 %

Methods: Method 8100, Polynuclear Aromatic Hydrocarbons, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	09-08-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	Cool	Date Analyzed:	09-08-93
Condition:	NA	Analysis Needed:	Trace Metals

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.0001
BARIUM	ND	ND	0.01
CADMIUM	ND	ND	0.0001
CHROMIUM	ND	ND	0.0001
LEAD	ND	ND	0.0001
MERCURY	ND	ND	0.0002
SELENIUM	ND	ND	0.0001

Method: Methods 3010A, 3020A, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1992

Methods 7060A, 7080, 7131, 7191, 7470, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA, 1992

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8100
POLYNUCLEAR AROMATIC HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	Duplicate	Date Reported:	09-03-93
Laboratory Number:	5985-Dup	Date Sampled:	08-31-93
Sample Matrix:	Water	Date Received:	08-31-93
Preservative:	Cool	Date Analyzed:	09-02-93
Condition:	Cool & Intact	Analysis Requested:	8100

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Naphthalene	ND	0.20
Acenaphthylene	ND	0.20
Acenaphthene	ND	0.20
Fluorene	ND	0.20
Phenanthrene	ND	0.20
Anthracene	ND	0.20
Fluoranthene	ND	0.20
Pyrene	ND	0.20
Benzo(a)anthracene	ND	0.20
Chrysene	ND	0.20
Benzo(b) & Benzo(k) fluoranthene	ND	0.20
Benzo(a)pyrene	ND	0.20
Indeno(1,2,3-cd) pyrene & Dibenzo(a,h)anthracene	ND	0.20
Benzo(g,h,i)perylene	ND	0.20

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronapthalene	102 %

Methods: Method 8100, Polynuclear Aromatic Hydrocarbons, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ GVL A1 Production Pit C4028
Duplicate sample for QA\QC check

Analyst

Review

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT

TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	09-08-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Analysis Requested:	Trace Metals	Date Analyzed:	09-08-93
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	ND	0.098	98
BARIUM	10.00	ND	10.02	100
CADMIUM	0.100	ND	0.102	102
CHROMIUM	0.200	0.035	0.236	100
LEAD	0.200	ND	0.199	100
MERCURY	0.025	ND	0.0251	100
SELENIUM	0.100	ND	0.097	97

QA ACCEPTANCE CRITERIA:

Parameter	Acceptance Range %
Trace Metals	80 - 120

Method: Methods 3010A, 3020A, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992

Methods 7060A, 7080, 7131, 7191, 7470, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA 1992

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review

2958

CHAIN OF CUSTODY RECORD

C4028

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	PROD. PIT ST GUL A1	
Sampler: (Signature) Tara Coddington	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)	PAH (8100)	HEAVY METALS	ANION CATION			Remarks
EFFLUENT	8/31/93	13:27	5984	WATER	2	✓						
EFFLUENT	8/31/93	13:34	5985	WATER	2		✓					
EFFLUENT	8/31/93	13:29	5986	WATER	2			✓				HEAVY METALS - As, Ba, Cd, Cr, Pb, Hg, Se
EFFLUENT	8/31/93	13:25	5987	WATER	1				✓			SUBMIT TO IML

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	8/31/93	14:05	Lu Chakalay	8-31-93	1410
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

san juan repro Form 578-81