

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Williams Production	Contact Michael K. Lane
Address PO Box 640	Telephone No. 505-634-4219
Facility Name Rosa 243 (API: 30-039-24367)	Facility Type Well Site

Surface Owner BLM	Mineral Owner BLM	Lease No.
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LOCATION OF RELEASE

Unit Letter M	Section 36	Township 32 N	Range 06W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release ~20 bbl	Volume Recovered ~10 bbl
Source of Release Pumping Unit Packer Leak	Date and Hour of Occurrence 3/15/09 >10:25 AM	Date and Hour of Discovery Same
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Myke Lane	Date and Hour 3/17/09 ~9:45 AM	RCVD APR 8 '09
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV.	

If a Watercourse was Impacted, Describe Fully. **No water course reached.** **DIST. 2**

Describe Cause of Problem and Remedial Action Taken.
Water from pumping unit packer leaked filling cellar and traveling a short distance offsite. No oil sheen and no significant salt impact offsite.

Upon discovery, well shutin, cellar and ponded water pulled by vac truck for offsite disposal, collected soil samples along impacted area and of produced water. Based on lab results (see attached) no further action planned until well pad remediated.

Describe Area Affected and Cleanup Action Taken. **See above and attached site diagram.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Michael K. Lane	Approved by District Supervisor:  For: Charlie Perrin	
Title: SJB EH&S Specialist	Approval Date: 4-8-09	Expiration Date:
E-mail Address: myke.lane@williams.com	Conditions of Approval:	Attached ☐
Date: 4/06/09 Phone: (505) 330-3198		

* Attach Additional Sheets If Necessary

n BP0923240338

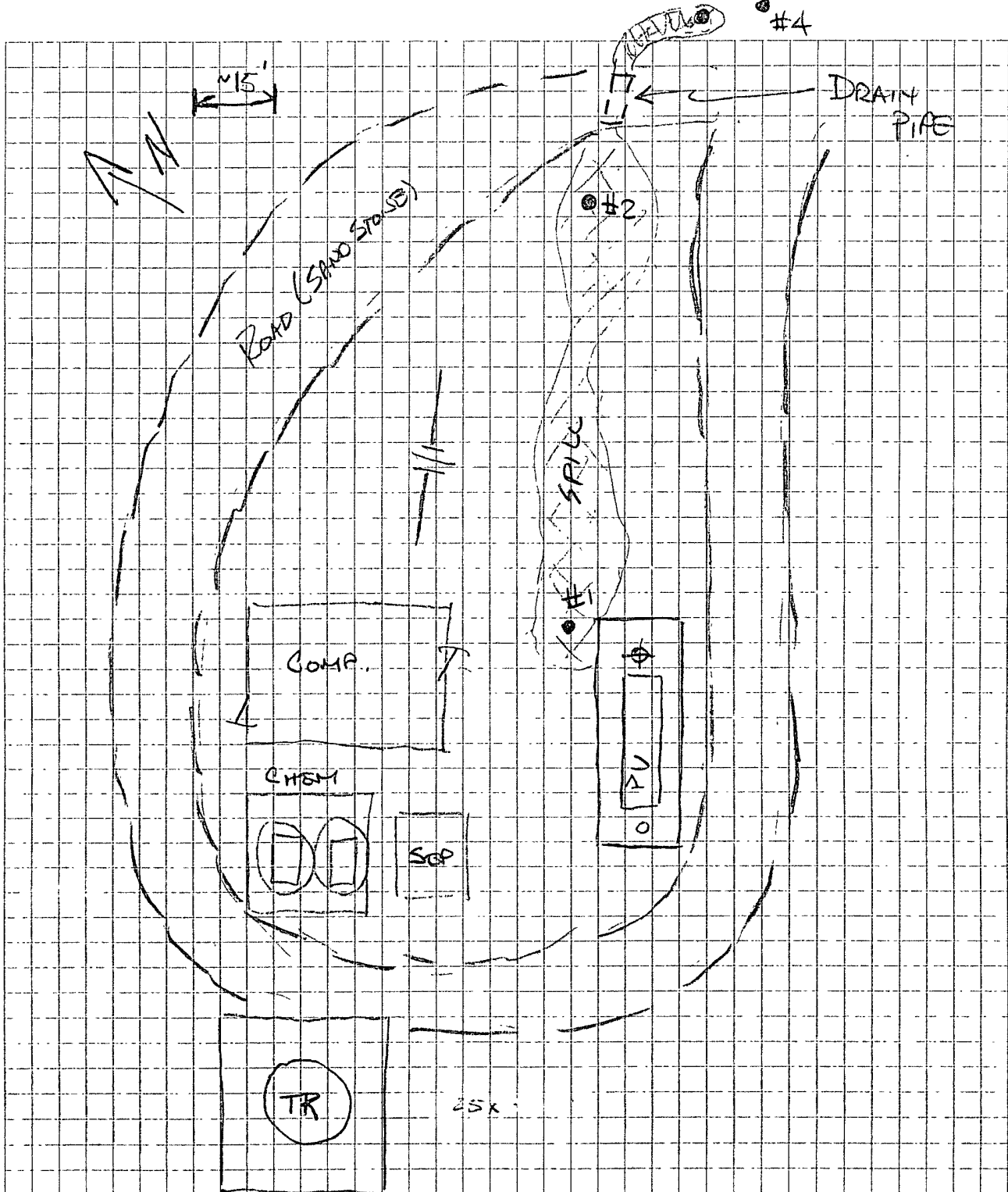
Williams Exploration Production
PO Box 640
Aztec, NM 87410
505/634-4200
505/634-4205 fax

Site Sketch

Location: RJ243

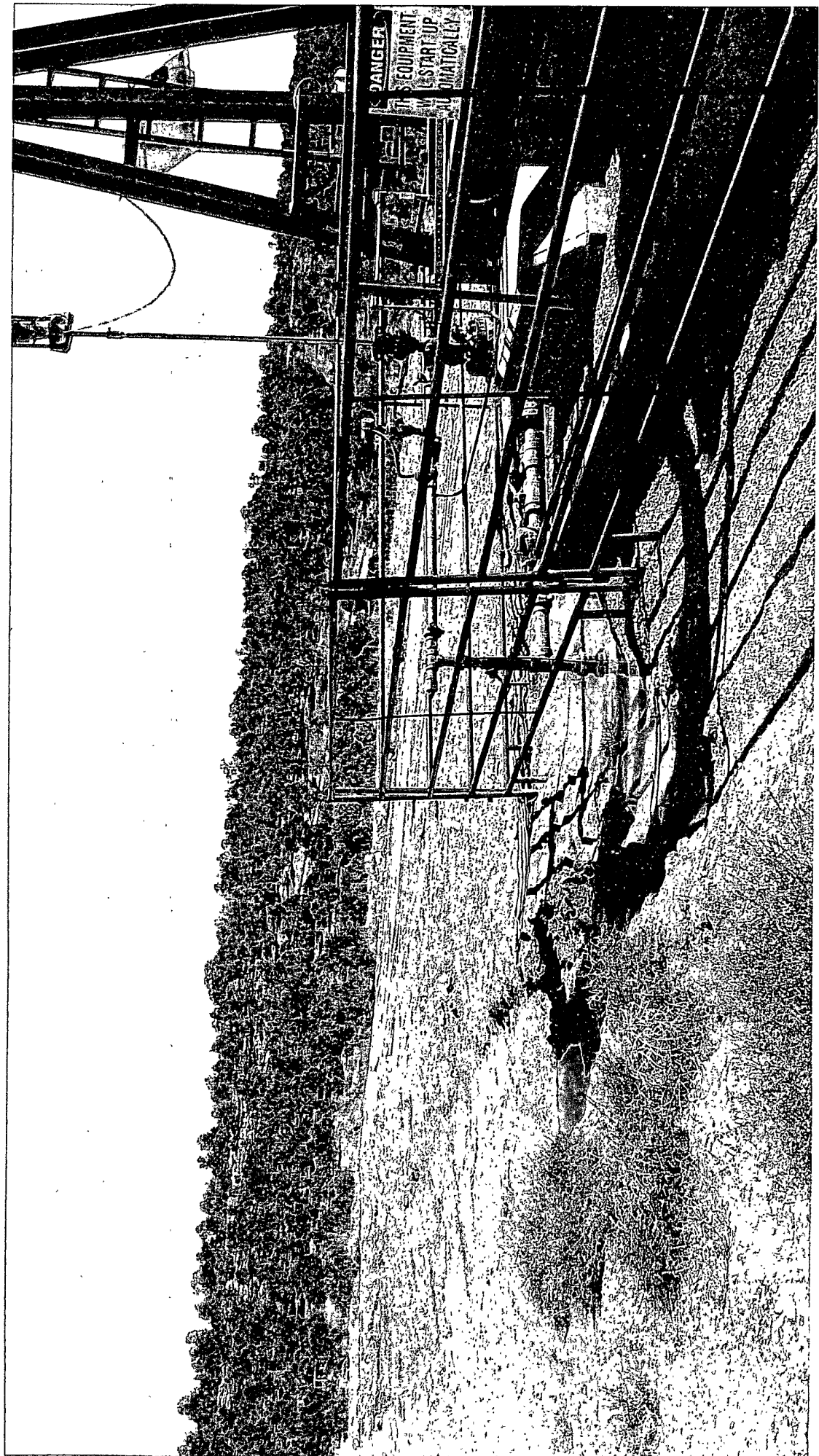
Prepared by: M

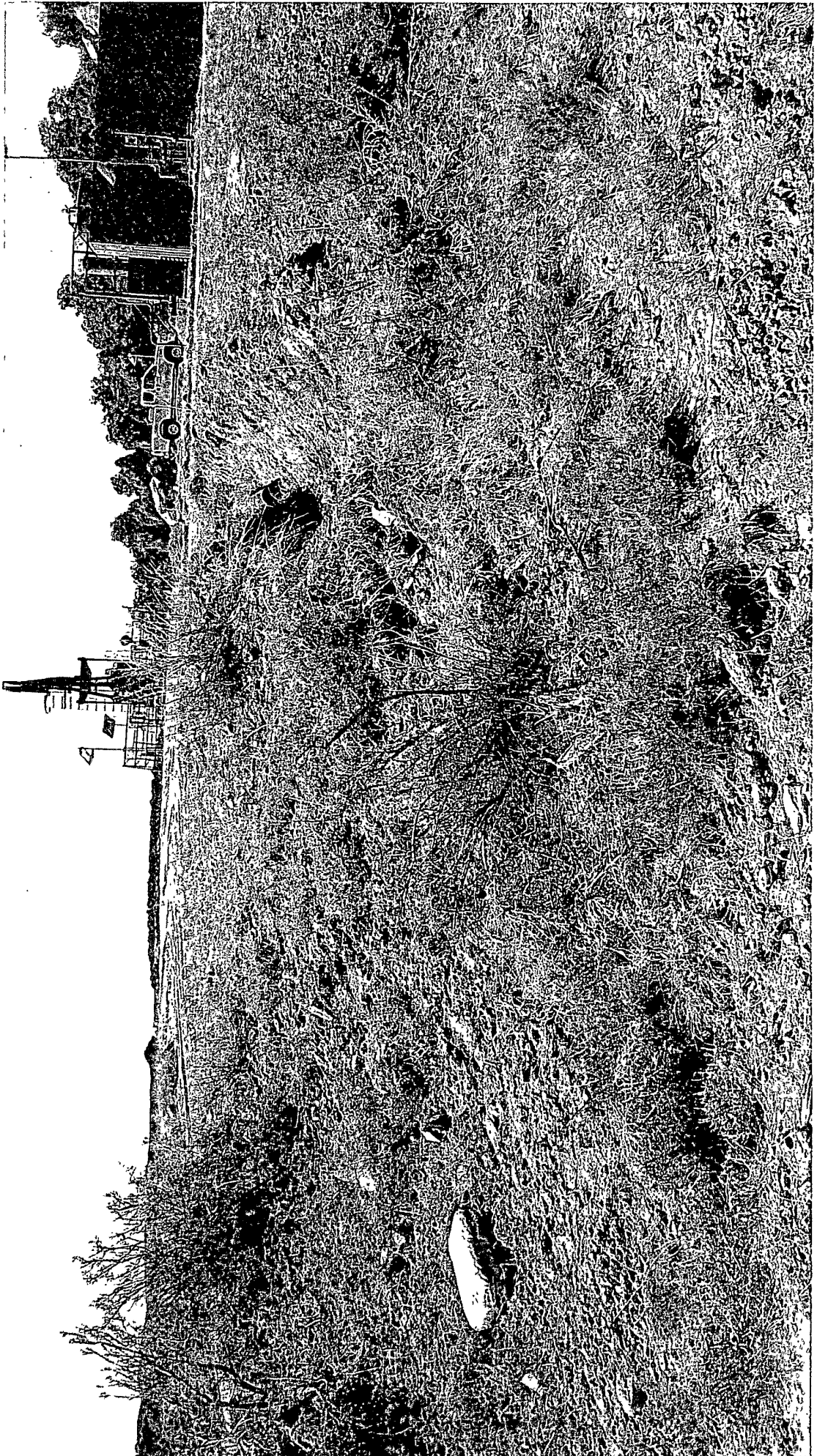
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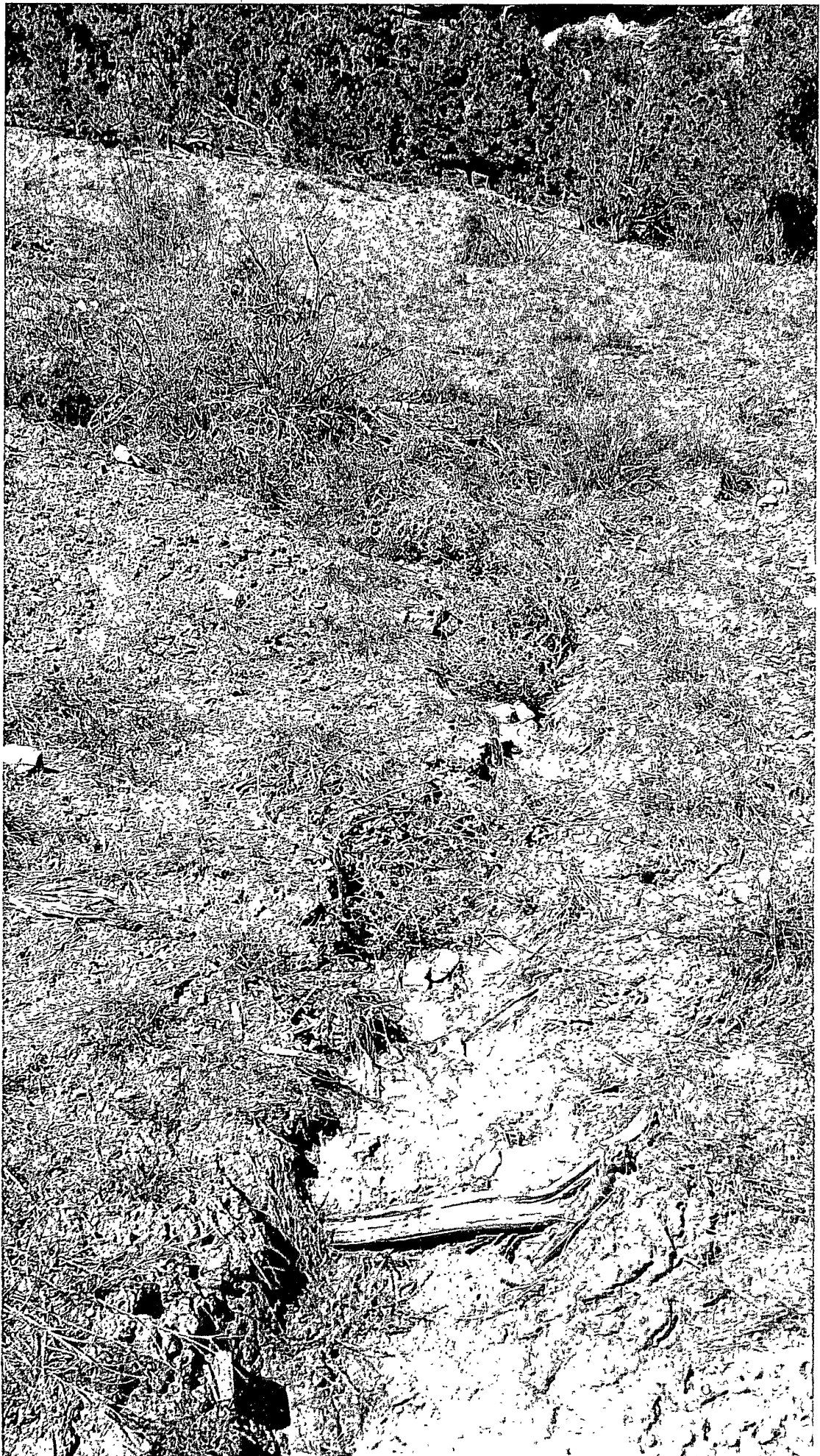


Notes:

- 1) Provide an approximate scale
- 2) Show north direction.
- 3) Include well or other fixed marker.









EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

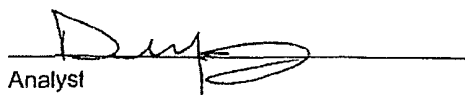
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Sample ID:	#1	Date Reported:	03-19-09
Laboratory Number:	49330	Date Sampled:	03-16-09
Chain of Custody No:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Extracted:	03-18-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Intact	Analysis Requested:	8015 TPH

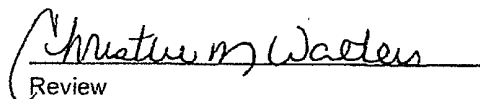
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	4.8	0.1
Total Petroleum Hydrocarbons	5.1	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 243.


Analyst


Review



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

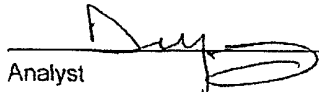
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Sample ID:	#2	Date Reported:	03-19-09
Laboratory Number:	49331	Date Sampled:	03-16-09
Chain of Custody No:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Extracted:	03-18-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Intact	Analysis Requested:	8015 TPH

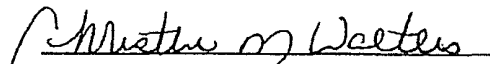
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 243.


Analyst


Review



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

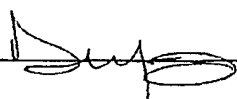
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Sample ID:	#3	Date Reported:	03-19-09
Laboratory Number:	49332	Date Sampled:	03-16-09
Chain of Custody No:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Extracted:	03-18-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Intact	Analysis Requested:	8015 TPH

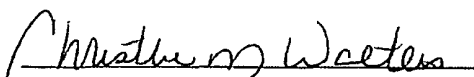
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 243.

Analyst 


Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-18-09 QA/QC	Date Reported:	03-19-09
Laboratory Number:	49330	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-18-09
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.8014E+002	9.8053E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9624E+002	9.9664E+002	0.04%	0 - 15%

Blank Conc (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

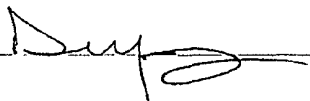
Duplicate Conc (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	4.8	4.5	6.2%	0 - 30%

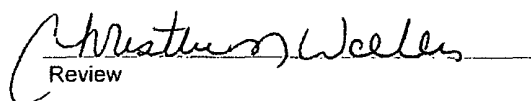
Spike Conc (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.3	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	4.8	250	252	98.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 49330 - 49332, 49334 - 49335, 49341 and 49344.

Analyst 

Review 



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	WPX	Project #:	04108-0003
Sample ID:	1	Date Reported:	03-19-09
Laboratory Number:	49330	Date Sampled:	03-16-09
Chain of Custody:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Analyzed:	03-18-09
Preservative:	Cool	Date Extracted:	03-18-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	7.6	0.9
Toluene	5.6	1.0
Ethylbenzene	3.6	1.0
p,m-Xylene	18.1	1.2
o-Xylene	7.8	0.9
Total BTEX	42.7	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 243.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	WPX	Project #:	04108-0003
Sample ID:	2	Date Reported:	03-19-09
Laboratory Number:	49331	Date Sampled:	03-16-09
Chain of Custody:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Analyzed:	03-18-09
Preservative:	Cool	Date Extracted:	03-18-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.7	0.9
Toluene	1.1	1.0
Ethylbenzene	1.2	1.0
p,m-Xylene	4.4	1.2
o-Xylene	7.7	0.9
Total BTEX	17.1	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 243.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	WPX	Project #:	04108-0003
Sample ID:	3	Date Reported:	03-19-09
Laboratory Number:	49332	Date Sampled:	03-16-09
Chain of Custody:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Analyzed:	03-18-09
Preservative:	Cool	Date Extracted:	03-18-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 243.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client	N/A	Project #:	N/A
Sample ID:	03-18-BT QA/QC	Date Reported:	03-19-09
Laboratory Number:	49330	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-18-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	H-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect. Limit
		Accept Range 0 - 15%			
Benzene	3.2625E+005	3.2690E+005	0.2%	ND	0.1
Toluene	3.1435E+005	3.1498E+005	0.2%	ND	0.1
Ethylbenzene	3.1084E+005	3.1146E+005	0.2%	ND	0.1
p,m-Xylene	7.7516E+005	7.7672E+005	0.2%	ND	0.1
o-Xylene	3.6088E+005	3.6160E+005	0.2%	ND	0.1

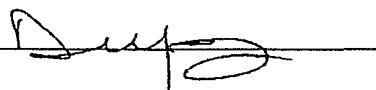
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	7.6	7.4	2.6%	0 - 30%	0.9
Toluene	5.6	5.4	3.6%	0 - 30%	1.0
Ethylbenzene	3.6	3.5	2.8%	0 - 30%	1.0
p,m-Xylene	18.1	19.1	5.5%	0 - 30%	1.2
o-Xylene	7.8	7.4	5.1%	0 - 30%	0.9

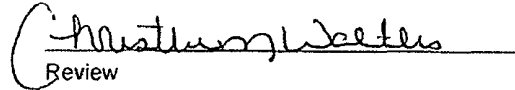
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	7.6	50.0	57.5	99.8%	39 - 150
Toluene	5.6	50.0	56.4	101%	46 - 148
Ethylbenzene	3.6	50.0	54.6	102%	32 - 160
p,m-Xylene	18.1	100	113	95.8%	46 - 148
o-Xylene	7.8	50.0	58.8	102%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 49330 - 49332, 49334, 49335, and 49339 - 49343.

Analyst 

Review 



envirotech
Analytical Laboratory

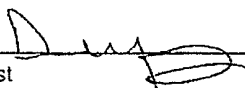
CATION / ANION ANALYSIS

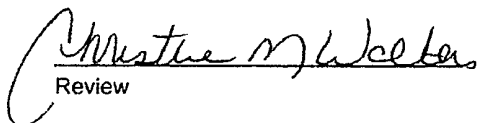
Client:	WPX	Project #:	04108-0003
Sample ID:	Cellar	Date Reported:	03-19-09
Laboratory Number:	49329	Date Sampled:	03-16-09
Chain of Custody:	6531	Date Received:	03-17-09
Sample Matrix:	Aqueous	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-17 - 03/18/09
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	8.69	s.u.		
Conductivity @ 25° C	18,500	umhos/cm		
Total Dissolved Solids @ 180C	10,100	mg/L		
Total Dissolved Solids (Calc)	10,079	mg/L		
SAR	197.1	ratio		
Total Alkalinity as CaCO3	6,030	mg/L		
Total Hardness as CaCO3	70.9	mg/L		
Bicarbonate as CaCO3	6,030	mg/L	98.83	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.20	mg/L	0.02	meq/L
Nitrite Nitrogen	0.012	mg/L	0.00	meq/L
Chloride	2,480	mg/L	69.96	meq/L
Fluoride	2.00	mg/L	0.11	meq/L
Phosphate	12.0	mg/L	0.38	meq/L
Sulfate	5.00	mg/L	0.10	meq/L
Iron	0.098	mg/L	0.00	meq/L
Calcium	9.02	mg/L	0.45	meq/L
Magnesium	11.8	mg/L	0.97	meq/L
Potassium	77.9	mg/L	1.99	meq/L
Sodium	3,820	mg/L	166.17	meq/L
Cations			169.58	meq/L
Anions			169.40	meq/L
Cation/Anion Difference			0.11%	

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", 18th ed., 1992.

Comments: Rosa 243.

Analyst 

Review 



Chloride

Client:	WPX	Project #:	04108-0003
Sample ID:	#1	Date Reported:	03-19-09
Lab ID#:	49330	Date Sampled:	03-16-09
Sample Matrix:	Soil	Date Received:	03-17-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Intact	Chain of Custody:	6531

Parameter

Concentration (mg/Kg)

Total Chloride

340

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa 243.

Analyst

Review



Chloride

Client:	WPX	Project #:	04108-0003
Sample ID:	#2	Date Reported:	03-19-09
Lab ID#:	49331	Date Sampled:	03-16-09
Sample Matrix:	Soil	Date Received:	03-17-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Intact	Chain of Custody:	6531

Parameter	Concentration (mg/Kg)
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Total Chloride	190
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa 243.

Analyst

Review



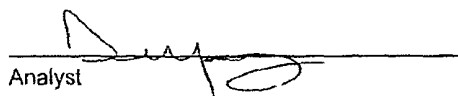
EC, SAR, pH Analysis

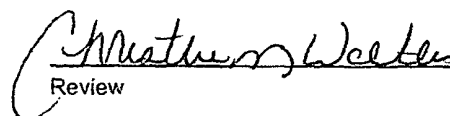
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Sample ID:	#3	Date Reported:	03-19-09
Laboratory Number:	49332	Date Sampled:	03-16-09
Chain of Custody:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Extracted:	03-17-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
pH	9.01	su
Conductivity @ 25° C	313	umhos/cm
Calcium	266	mg/Kg
Magnesium	12.7	mg/Kg
Sodium	56.0	mg/Kg
Sodium Absorption Ratio (SAR)	0.908	ratio
Chloride	130	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #243.


Analyst


Review



EC, SAR, pH Analysis

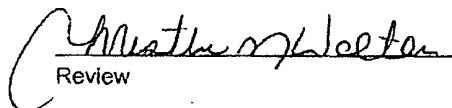
Client:	WPX	Project #:	04108-0003
Sample ID:	#4 BKGD	Date Reported:	03-19-09
Laboratory Number:	49333	Date Sampled:	03-16-09
Chain of Custody:	6531	Date Received:	03-17-09
Sample Matrix:	Soil	Date Extracted:	03-17-09
Preservative:	Cool	Date Analyzed:	03-18-09
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
pH	8.19	su
Conductivity @ 25° C	156	umhos/cm
Calcium	102	mg/Kg
Magnesium	9.77	mg/Kg
Sodium	3.67	mg/Kg
Sodium Absorption Ratio (SAR)	0.093	ratio
Chloride	20.0	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #243.


Analyst


Review

CHAIN OF CUSTODY RECORD

6531

Client: <u>W/PX</u>			Project Name / Location: <u>Rosa 243</u>			ANALYSIS / PARAMETERS														
Client Address: <u>e-mail</u> <u>M.YKE LAKE</u>			Sampler Name: <u>[Signature]</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	pH	SAR	EC	Sample Cool	Sample Intact
Client Phone No.: <u>NXE 332295</u>			Client No.: <u>04108-0003</u>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative														
<u>CELAR</u>	<u>3/16</u>	<u>1509</u>	<u>49329</u>	Soil Solid	Sludge Aqueous	<u>1</u>														
<u>#1</u>	<u>3/16</u>	<u>1510</u>	<u>49330</u>	Soil Solid	Sludge Aqueous	<u>1</u>														
<u>#2</u>	<u>3/16</u>	<u>1512</u>	<u>49331</u>	Soil Solid	Sludge Aqueous	<u>1</u>														
<u>#3</u>	<u>3/16</u>	<u>1501</u>	<u>49332</u>	Soil Solid	Sludge Aqueous	<u>1</u>														
<u>#4 BKGD</u>	<u>3/16</u>	<u>1505</u>	<u>49333</u>	Soil Solid	Sludge Aqueous	<u>1</u>														
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
Relinquished by: (Signature) <u>[Signature]</u>				Date	Time	Received by: (Signature) <u>[Signature]</u>				Date	Time									
Relinquished by: (Signature)				<u>3/17/09</u>	<u>1150A</u>	Received by: (Signature)				<u>3/17/09</u>	<u>1150A</u>									
Relinquished by: (Signature)						Received by: (Signature)														

ENVIROTECH INC.

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