

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

RCVD JAN 13 '12
OIL CONS. DIV Form C-141
Revised October 10, 2003
DIST. 3
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

30-039-27055

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company WPX Energy	Contact Michael K. Lane
Address PO Box 640	Telephone No. 505-634-4219
Facility Name Rosa Unit SWD #001 (API: 30-039-27055)	Facility Type Well Site

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

Unit Letter I	Section 23	Township 31 N	Range 06W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.88435 Longitude -107.42719

NATURE OF RELEASE

Type of Release Produced Water with incidental oil	Volume of Release ~240 BBL	Volume Recovered ~220BBL
Source of Release Storage Tank	Date and Hour of Occurrence Prior to 11/19/11 4:30AM	Date and Hour of Discovery Same
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell, NMOCD-Aztec, Bill Liese & Mark Kelly, BLM-FFO	
By Whom? Myke Lane, WPX (by email)	Date and Hour 11/19/11-17:15 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

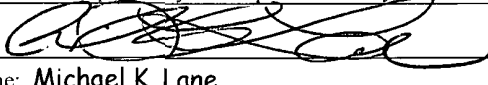
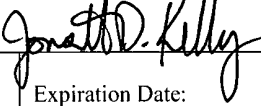
If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken. An electrical problem caused the Capstone generators to shutdown at the injection well site. This shut-down the injection pumps and the slam valve failed to close. Pumps on the water gathering system continued to deliver water to the site and the tanks overfilled. Water haulers discovered the problem and the system was shutin immediately following discovery.

Produced water with incidental oil overfilled the tanks. All liquids were contained within the secondary containment and no liquids left the site. Liquids with recovered by vacuum trucks and placed temporarily in offsite storage tanks until the facility could be returned to normal operations. Additional evaluation is under way to determine cause of outage and arrange for additional system enhancements to ensure slam-valves operate as designed. Remediation of any impacted soil will be done following consultation with regulatory agencies.

Describe Area Affected and Cleanup Action Taken. The spilled liquids remained within the secondary containment. Six soil samples (see attached drawing) were taken by hand auger to a depth of 12 inches. Soils were hi-plastic silty clay to clayey silt. Lab results (see attached) indicated no detectable TPH and trace BTEX well below action levels. Chlorides ranged from 20 to 120 ppm. WPX will apply peat moss to adsorb any residual free hydrocarbons and nitrogen to help bioremediate any trace dissolved phase hydrocarbons in the surface soils. No further action to be taken until well P&A'd.

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: 	
Title: SJB EH&S Specialist	Approval Date: 1/19/2012	Expiration Date:
E-mail Address: myke.lane@williams.com	Conditions of Approval:	Attached ☐
Date: 01/12/12	Phone: (505) 330-3198	

* Attach Additional Sheets If Necessary

NSK 1201951791

12/15/11

1 BSA BUILD #1

SALVAGE PROJECTS, CASE 2

SNUGS Au e ~ 12"

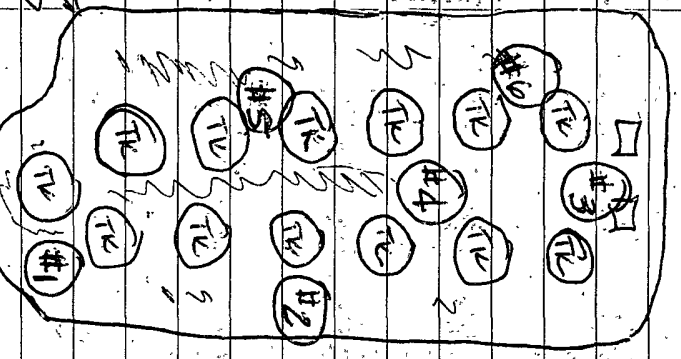
#1, #2, #4 ROOST BOUND FURTHER

CATCHY SIT

#3 RB TO GOAT PUNISH

CATCHY SIT

#4 ONLY EXTRA FILLED W/ICE AFTER SNUGGING



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

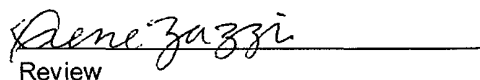
Client:	WPX	Project #:	04108-0136
Sample ID:	#1	Date Reported:	12-20-11
Laboratory Number:	60636	Date Sampled:	12-15-11
Chain of Custody No:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Extracted:	12-16-11
Preservative:	Cool	Date Analyzed:	12-20-11
Condition:	Intact	Analysis Requested:	8015 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	

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 SWD #1 Spill**


Analyst
Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

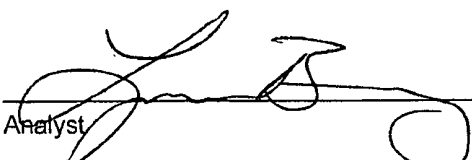
Client:	WPX	Project #:	04108-0136
Sample ID:	#2	Date Reported:	12-20-11
Laboratory Number:	60637	Date Sampled:	12-15-11
Chain of Custody No:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Extracted:	12-16-11
Preservative:	Cool	Date Analyzed:	12-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

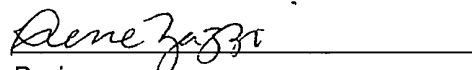
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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 SWD #1 Spill**

Analyst 

Review 

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

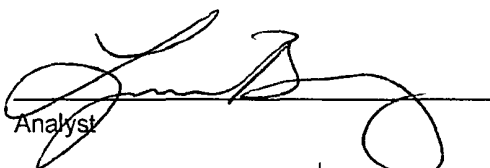
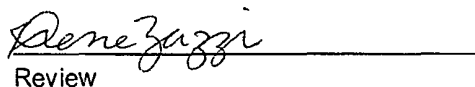
Client:	WPX	Project #:	04108-0136
Sample ID:	#3	Date Reported:	12-20-11
Laboratory Number:	60638	Date Sampled:	12-15-11
Chain of Custody No:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Extracted:	12-16-11
Preservative:	Cool	Date Analyzed:	12-20-11
Condition:	Intact	Analysis Requested:	8015 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	

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 SWD #1 Spill**


Analyst
Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

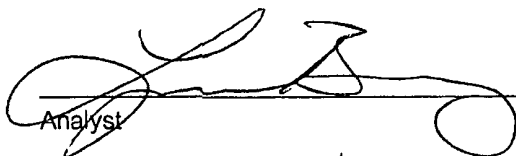
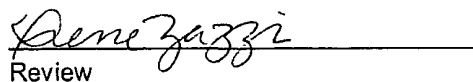
Client:	WPX	Project #:	04108-0136
Sample ID:	#4	Date Reported:	12-20-11
Laboratory Number:	60639	Date Sampled:	12-15-11
Chain of Custody No:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Extracted:	12-16-11
Preservative:	Cool	Date Analyzed:	12-20-11
Condition:	Intact	Analysis Requested:	8015 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	

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 SWD #1 Spill**


Analyst
Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

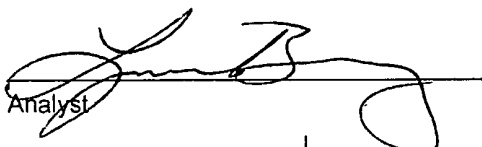
Client:	WPX	Project #:	04108-0136
Sample ID:	#5	Date Reported:	12-20-11
Laboratory Number:	60640	Date Sampled:	12-15-11
Chain of Custody No:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Extracted:	12-16-11
Preservative:	Cool	Date Analyzed:	12-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

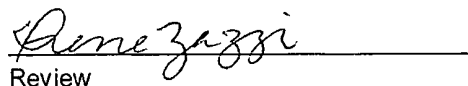
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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 SWD #1 Spill**


Analyst


Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	WPX	Project #:	04108-0136
Sample ID:	#6	Date Reported:	12-20-11
Laboratory Number:	60641	Date Sampled:	12-15-11
Chain of Custody No:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Extracted:	12-16-11
Preservative:	Cool	Date Analyzed:	12-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

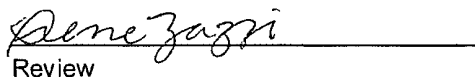
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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 SWD #1 Spill**


Analyst


Review

**EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-20-11 QA/QC	Date Reported:	12-20-11
Laboratory Number:	60636	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-20-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	40897	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40897	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	0.3	0.2
Diesel Range C10 - C28	0.5	0.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

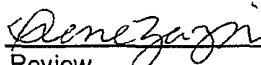
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	267	107%	75 - 125%
Diesel Range C10 - C28	ND	250	285	114%	75 - 125%

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 60636-60641 and 60664

Analyst 

Review 

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	WPX	Project #:	04108-0136
Sample ID:	#1	Date Reported:	12-20-11
Laboratory Number:	60636	Date Sampled:	12-15-11
Chain of Custody:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Analyzed:	12-20-11
Preservative:	Cool	Date Extracted:	12-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
p,m-Xylene	8.5	4.5
o-Xylene	ND	4.5
Total BTEX	8.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	91.5 %
	1,4-difluorobenzene	117 %
	Bromochlorobenzene	88.5 %

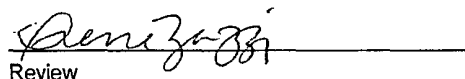
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Rosa SWD #1 Spill



Analyst



Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	WPX	Project #:	04108-0136
Sample ID:	#2	Date Reported:	12-20-11
Laboratory Number:	60637	Date Sampled:	12-15-11
Chain of Custody:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Analyzed:	12-20-11
Preservative:	Cool	Date Extracted:	12-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
p,m-Xylene	ND	4.5
o-Xylene	ND	4.5
Total BTEX	ND	

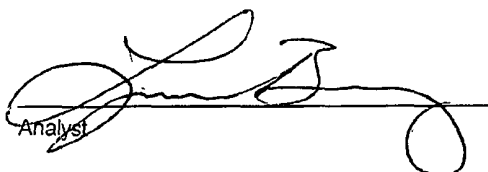
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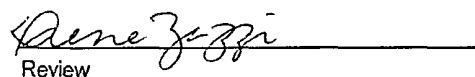
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	86.6 %
	1,4-difluorobenzene	112 %
	Bromochlorobenzene	86.7 %

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 SWD #1 Spill


 Analyst


 Review

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	WPX	Project #:	04108-0136
Sample ID:	#3	Date Reported:	12-20-11
Laboratory Number:	60638	Date Sampled:	12-15-11
Chain of Custody:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Analyzed:	12-20-11
Preservative:	Cool	Date Extracted:	12-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
p,m-Xylene	ND	4.5
o-Xylene	ND	4.5
Total BTEX	ND	

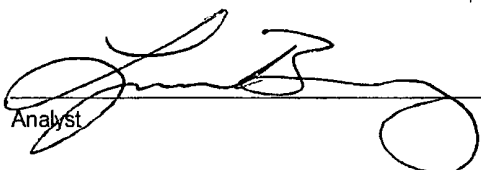
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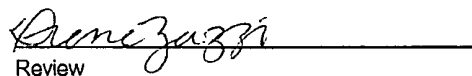
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	90.6 %
	1,4-difluorobenzene	116 %
	Bromochlorobenzene	86.1 %

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 SWD #1 Spill


 Analyst


 Review

Client:	WPX	Project #:	04108-0136
Sample ID:	#4	Date Reported:	12-20-11
Laboratory Number:	60639	Date Sampled:	12-15-11
Chain of Custody:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Analyzed:	12-20-11
Preservative:	Cool	Date Extracted:	12-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
p,m-Xylene	ND	4.5
o-Xylene	ND	4.5
Total BTEX	ND	

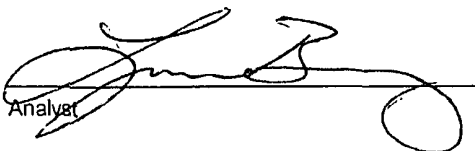
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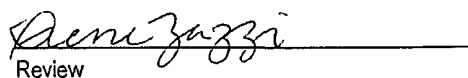
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.7 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	83.0 %

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 SWD #1 Spill


 Analyst


 Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	WPX	Project #:	04108-0136
Sample ID:	#5	Date Reported:	12-20-11
Laboratory Number:	60640	Date Sampled:	12-15-11
Chain of Custody:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Analyzed:	12-20-11
Preservative:	Cool	Date Extracted:	12-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
p,m-Xylene	ND	4.5
o-Xylene	ND	4.5
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

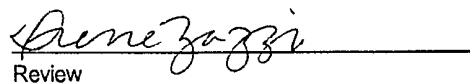
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94.1 %
	1,4-difluorobenzene	116 %
	Bromochlorobenzene	91.5 %

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 SWD #1 Spill


 Analyst


 Review

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	WPX	Project #:	04108-0136
Sample ID:	#6	Date Reported:	12-20-11
Laboratory Number:	60641	Date Sampled:	12-15-11
Chain of Custody:	13074	Date Received:	12-15-11
Sample Matrix:	Soil	Date Analyzed:	12-20-11
Preservative:	Cool	Date Extracted:	12-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
p,m-Xylene	ND	4.5
o-Xylene	ND	4.5
Total BTEX	ND	

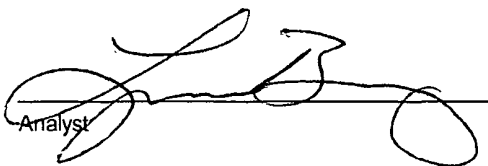
ND - Parameter not detected at the stated detection limit.

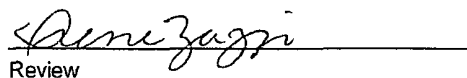
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.0 %
	1,4-difluorobenzene	116 %
	Bromochlorobenzene	96.5 %

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 SWD #1 Spill


 Analyst


 Review

Client:	N/A	Project #:	N/A
Sample ID:	1220BBLK QA/QC	Date Reported:	12-20-11
Laboratory Number:	60664	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-20-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	2.1708E+007	2.1751E+007	0.2%	ND	0.5
Toluene	2.2234E+007	2.2278E+007	0.2%	ND	0.5
Ethylbenzene	1.9762E+007	1.9801E+007	0.2%	ND	0.5
p,m-Xylene	5.0106E+007	5.0207E+007	0.2%	ND	0.5
o-Xylene	1.8441E+007	1.8478E+007	0.2%	ND	0.5

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	4.5
Toluene	ND	ND	0.0%	0 - 30%	4.5
Ethylbenzene	ND	ND	0.0%	0 - 30%	4.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	4.5
o-Xylene	ND	ND	0.0%	0 - 30%	4.5

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	494	98.7%	39 - 150
Toluene	ND	500	488	97.7%	46 - 148
Ethylbenzene	ND	500	487	97.4%	32 - 160
p,m-Xylene	ND	1000	973	97.3%	46 - 148
o-Xylene	ND	500	488	97.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 60636-60641 and 60664

Analyst

Review

Chloride

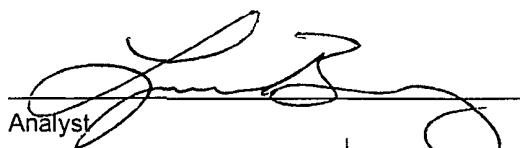
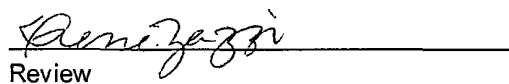
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Sample ID:	#1	Date Reported:	12-22-11
Lab ID#:	60636	Date Sampled:	12-15-11
Sample Matrix:	Soil	Date Received:	12-15-11
Preservative:	Cool	Date Analyzed:	12-21-11
Condition:	Intact	Chain of Custody:	13074

Parameter	Concentration (mg/Kg)
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Total Chloride**80**

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 SWD #1 Spill**


Analyst
Review

Chloride

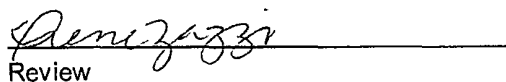
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Sample ID:	#2	Date Reported:	12-22-11
Lab ID#:	60637	Date Sampled:	12-15-11
Sample Matrix:	Soil	Date Received:	12-15-11
Preservative:	Cool	Date Analyzed:	12-21-11
Condition:	Intact	Chain of Custody:	13074

Parameter	Concentration (mg/Kg)
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Total Chloride**20**

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 SWD #1 Spill**


Analyst
Review

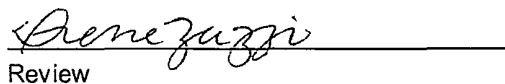
Chloride

Client:	WPX	Project #:	04108-0136
Sample ID:	#3	Date Reported:	12-22-11
Lab ID#:	60638	Date Sampled:	12-15-11
Sample Matrix:	Soil	Date Received:	12-15-11
Preservative:	Cool	Date Analyzed:	12-21-11
Condition:	Intact	Chain of Custody:	13074

Parameter	Concentration (mg/Kg)
Total Chloride	60

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 SWD #1 Spill**


Analyst
Review

Chloride

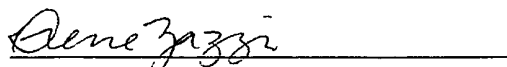
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Sample ID:	#4	Date Reported:	12-22-11
Lab ID#:	60639	Date Sampled:	12-15-11
Sample Matrix:	Soil	Date Received:	12-15-11
Preservative:	Cool	Date Analyzed:	12-21-11
Condition:	Intact	Chain of Custody:	13074

Parameter	Concentration (mg/Kg)
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Total Chloride**60**

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 SWD #1 Spill**


Analyst
Review

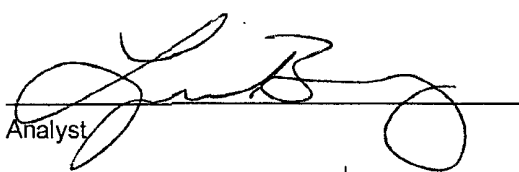
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Sample ID:	#5	Date Reported:	12-22-11
Lab ID#:	60640	Date Sampled:	12-15-11
Sample Matrix:	Soil	Date Received:	12-15-11
Preservative:	Cool	Date Analyzed:	12-21-11
Condition:	Intact	Chain of Custody:	13074

Parameter	Concentration (mg/Kg)
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Total Chloride**120**

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 SWD #1 Spill**



Analyst

Review

Chloride

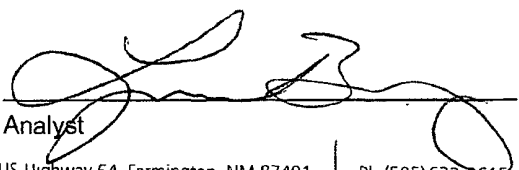
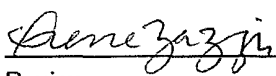
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Lab ID#:	60641	Date Sampled:	12-15-11
Sample Matrix:	Soil	Date Received:	12-15-11
Preservative:	Cool	Date Analyzed:	12-21-11
Condition:	Intact	Chain of Custody:	13074

Parameter	Concentration (mg/Kg)
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Total Chloride**20**

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 SWD #1 Spill**

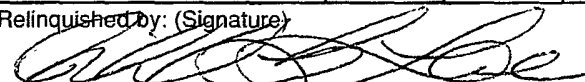
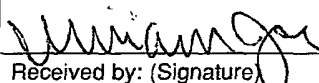

Analyst
Review

CHAIN OF CUSTODY RECORD

13074

Client: WPX		Project Name / Location: Rosa SWD #1 SPILL				ANALYSIS / PARAMETERS																																																																																																													
Email results to: myke.lance@williams.com		Sampler Name: MICHAEL LANE				<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>PCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>CO Table 910-1</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact	✓	✓								✓					✓	✓	✓	✓								✓					✓	✓	✓	✓								✓					✓	✓	✓	✓								✓					✓	✓	✓	✓								✓					✓	✓
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Client Phone No.: 505-330-3198		Client No.: 04108-0136																																																																																																																	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact
					HgCl ₂	HCl	-																
#1	12/15	1127	600636	1			✓	✓									✓					✓	✓
#2		1148	600637	1			✓	✓									✓					✓	✓
#3		1152	600638	1			✓	✓									✓					✓	✓
#4		1201	600639	1			✓	✓									✓					✓	✓
#5		1220	600640	1			✓	✓									✓					✓	✓
#6	✓	1231	600641	1			✓	✓									✓					✓	✓

Relinquished by: (Signature) 		Date	Time	Received by: (Signature) 		Date	Time
Relinquished by: (Signature)		12/15/11	1500	Received by: (Signature)		12/15/11	1500
Sample Matrix							
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐							
☐ Sample(s) dropped off after hours to secure drop off area.							



5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com