

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

JAN 07 2016

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company WPX Energy Production	Contact Deborah Watson
Address PO Box 640	Telephone No. 505-386-9693
Facility Name Rosa Unit # 226	Facility Type Well Site
Surface Owner Federal	Mineral Owner Federal
API No. 30-039-24494	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	12	31N	06W	1850	North	1700	East	Rio Arriba

Latitude N36.9162521 Longitude W107.4135895

**NATURE OF RELEASE**

Type of Release produced water	Volume of Release 82 bbl	Volume Recovered 78 bbl
Source of Release Transfer pump/Equipment failure	Date and Hour of Occurrence 12/5/15 14:20 pump broke	Date and Hour of Discovery 12/08/15 17:00
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Katherina Diemer (BLM-FFO) Cory Smith (NMOCD) Vanessa Fields (NMOCD)	
By Whom? N/A	Date and Hour 12/9/15 7:45 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*

Transfer pump froze and broke, resulting in the release of 82 bbl of produced water before discovery. A water truck was brought in to recover produced water on December 8, 2015.

Describe Area Affected and Cleanup Action Taken.\*

- A water truck recovered 78 bbl of produced water.
- Most of the fluids remained within secondary containment, all released produced water remained on the well pad.
- On 12/10/15, two 5-point composite samples were collected from the location. One sample was collected from within secondary containment and the other from the impacted area on location, outside secondary containment. The samples were analyzed for BTEX, TPH (GRO/DRO), and chlorides. Representatives from NMOCD and BLM were present during sample collection.
- Confirmation sampling results were reported below NMOCD action levels, no further action is required. (Laboratory analytical report is enclosed.)

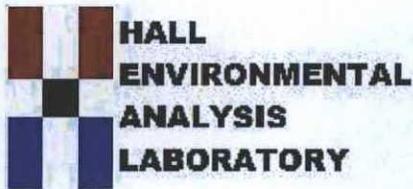
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <i>Deborah Watson</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Deborah Watson	Approved by Environmental Specialist: <i>Vanessa Fields</i>	
Title: Environmental Specialist	Approval Date: 1/8/2016	Expiration Date:
E-mail Address: deborah.watson@wpenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 01/05/2016	Phone: 505-386-9693	

\* Attach Additional Sheets If Necessary

*NU# 1535651850*





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

December 21, 2015

Debbie Watson  
WPX Energy  
721 S Main Ave  
Aztec, NM 87410  
TEL: (505) 333-1880  
FAX

**OIL CONS. DIV DIST. 3**

**JAN 07 2016**

RE: Rosa Unit #226

OrderNo.: 1512563

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/11/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 1512563  
 Date Reported: 12/21/2015

**CLIENT:** WPX Energy  
**Project:** Rosa Unit #226  
**Lab ID:** 1512563-001

**Matrix:** SOIL

**Client Sample ID:** SC-1  
**Collection Date:** 12/10/2015 10:50:00 AM  
**Received Date:** 12/11/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	290	30		mg/Kg	20	12/16/2015 9:41:57 PM	22840
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/16/2015 5:26:51 PM	22767
Surr: DNOP	75.3	70-130		%REC	1	12/16/2015 5:26:51 PM	22767
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/15/2015 4:00:11 PM	22779
Surr: BFB	95.0	66.2-112		%REC	1	12/15/2015 4:00:11 PM	22779
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	12/15/2015 4:00:11 PM	22779
Toluene	ND	0.047		mg/Kg	1	12/15/2015 4:00:11 PM	22779
Ethylbenzene	ND	0.047		mg/Kg	1	12/15/2015 4:00:11 PM	22779
Xylenes, Total	ND	0.094		mg/Kg	1	12/15/2015 4:00:11 PM	22779
Surr: 4-Bromofluorobenzene	125	80-120	S	%REC	1	12/15/2015 4:00:11 PM	22779

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1512563

21-Dec-15

**Client:** WPX Energy  
**Project:** Rosa Unit #226

Sample ID	MB-22840	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	22840	RunNo:	30906					
Prep Date:	12/16/2015	Analysis Date:	12/16/2015	SeqNo:	944949	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22840	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	22840	RunNo:	30906					
Prep Date:	12/16/2015	Analysis Date:	12/16/2015	SeqNo:	944950	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512563

21-Dec-15

**Client:** WPX Energy  
**Project:** Rosa Unit #226

Sample ID	MB-22767	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	22767	RunNo:	30855					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943421	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		110	70	130			

Sample ID	LCS-22767	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	22767	RunNo:	30855					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943436	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.5	65.8	136			
Surr: DNOP	4.3		5.000		85.8	70	130			

Sample ID	MB-22794	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	22794	RunNo:	30909					
Prep Date:	12/14/2015	Analysis Date:	12/17/2015	SeqNo:	945045	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.2		10.00		71.5	70	130			

Sample ID	MB-22844	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	22844	RunNo:	30908					
Prep Date:	12/17/2015	Analysis Date:	12/17/2015	SeqNo:	945048	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		95.4	70	130			

Sample ID	LCS-22844	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	22844	RunNo:	30908					
Prep Date:	12/17/2015	Analysis Date:	12/17/2015	SeqNo:	945049	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	65.8	136			
Surr: DNOP	4.5		5.000		89.2	70	130			

Sample ID	LCS-22794	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	22794	RunNo:	30908					
Prep Date:	12/14/2015	Analysis Date:	12/17/2015	SeqNo:	945328	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.1	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1512563

21-Dec-15

**Client:** WPX Energy  
**Project:** Rosa Unit #226

Sample ID	MB-22779	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22779	RunNo:	30861					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943113	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.0	66.2	112			

Sample ID	LCS-22779	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22779	RunNo:	30861					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943114	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	94.0	79.6	122			
Surr: BFB	1100		1000		107	66.2	112			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1512563

21-Dec-15

**Client:** WPX Energy  
**Project:** Rosa Unit #226

Sample ID	MB-22779	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	22779	RunNo:	30861					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943155	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	LCS-22779	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	22779	RunNo:	30861					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943156	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.7	80	120			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	1.4		1.000		141	80	120			S

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: WPX ENERGY

Work Order Number: 1512563

RcptNo: 1

Received by/date: JA 12/11/15

Logged By: Celina Sessa 12/11/2015 7:00:00 AM Celina Sessa

Completed By: Celina Sessa 12/11/2015 9:52:07 AM Celina Sessa

Reviewed By: JA 12/12/15

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

# Chain-of-Custody Record

Client: WPX

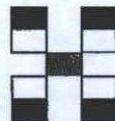
Mailing Address: 721 S Main  
Aztec NM 87410

Phone #: \_\_\_\_\_

Turn-Around Time:  
 Standard     Rush

Project Name: Rosa Unit # 22b

Project #: \_\_\_\_\_



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Email or Fax#: deborah.watson@wpxenergy.com

A/QC Package:  
 Standard     Level 4 (Full Validation)

Accreditation:  
 NELAP     Other \_\_\_\_\_

1 EDD (Type) \_\_\_\_\_

Project Manager: D. Watson

Sampler: D Watson

On Ice:  Yes     No

Sample Temperature: 1.5

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO DRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 chloride	Air Bubbles (Y or N)
10-15	1050	soil	SC-1	1-4oz	cold	1512563-001	X		X									X	
10-15	1100	soil	SC-2	1-4oz	cold	-002	X		X									X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/15	1725	Debrah Watson	Christ White	12/10/15	1725
11/18	1840	Chr Walker	Joe. Lopez	12/11/15	0700

Remarks: \_\_\_\_\_

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.