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

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

Form C-141
Revised April 3, 2017

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 Aztec, NM 87410	Telephone No. 505-333-1880
Facility Name Rosa Unit #379	Facility Type Well site

Surface Owner Federal	Mineral Owner Federal	API No. 30-039-26949

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	08	31N	05W	1710	South	1680	West	Rio Arriba

Latitude N36.91177 **Longitude** W107.38906 **NAD83**

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 54 bbl	Volume Recovered 50 bbl
Source of Release Production Tank	Date and Hour of Occurrence unknown	Date and Hour of Discovery 7/20/17 07:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Jonathan Kelly (NMOCD) Mike Porter (BLM-FFO)	
By Whom? Deborah Watson	Date and Hour Phone Call 7/20/17 13:22 NMOCD, 13:25 BLM Email to Cory Smith, Vanessa Fields, Jonathan Kelly (NMOCD) 13:36 Email to Whitney Thomas and Mike Porter (BLM-FFO) 13:36	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken.*
Tank overflowed-transfer pump and tank transmitter stopped talking because power grid went down. Water truck called to the location upon discovery to recover produced water.

Describe Area Affected and Cleanup Action Taken.*

- A water truck recovered 50 bbl of produced water.
- All fluids remained within secondary containment, all released produced water remained on location.
- One composite confirmation sample was collected from within the area of impact on September 21, 2017. The sample was laboratory analyzed for TPH, BTEX, and chlorides. NMOCD and BLM were notified of the sampling event, but were not in attendance.
- Confirmation sampling results were reported below applicable NMOCD RRAL for TPH (GRO+DRO) and BTEX. Concentrations for MRO and chlorides were 160 mg/kg and 900 mg/kg, respectively. (Laboratory analytical report is enclosed)
- WPX received approval from NMOCD to close the release location on October 11, 2017. No further action required. (Email correspondence 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: Deborah Watson	OIL CONSERVATION DIVISION	
Printed Name: Deborah Watson	Approved by Environmental Specialist:	
Title: Environmental Specialist	Approval Date: 10/23/17	Expiration Date:
E-mail Address: deborah.watson@wpxenergy.com	Conditions of Approval: —	Attached ☐
Date: October 12, 2017 Phone: 505-333-1880		

* Attach Additional Sheets If Necessary #NCS1720226042

(10)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 03, 2017

Debbie Watson

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

RE: Rosa Unit #379 OrderNo.: 1709D33

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/23/2017 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 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709D33**
Date Reported: **10/3/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Project: Rosa Unit #379
Lab ID: 1709D33-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 9/21/2017 1:05:00 PM
Received Date: 9/23/2017 2:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	900	30		mg/Kg	20	9/30/2017 3:09:11 AM	34170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/27/2017 4:36:26 PM	34051
Motor Oil Range Organics (MRO)	160	51		mg/Kg	1	9/27/2017 4:36:26 PM	34051
Surr: DNOP	94.5	70-130		%Rec	1	9/27/2017 4:36:26 PM	34051
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/26/2017 11:06:23 PM	34035
Surr: BFB	89.2	54-150		%Rec	1	9/26/2017 11:06:23 PM	34035
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/26/2017 11:06:23 PM	34035
Toluene	ND	0.049		mg/Kg	1	9/26/2017 11:06:23 PM	34035
Ethylbenzene	ND	0.049		mg/Kg	1	9/26/2017 11:06:23 PM	34035
Xylenes, Total	ND	0.099		mg/Kg	1	9/26/2017 11:06:23 PM	34035
Surr: 4-Bromofluorobenzene	105	66.6-132		%Rec	1	9/26/2017 11:06:23 PM	34035

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

Qualifiers:

*	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
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709D33**

03-Oct-17

Client: WPX Energy

Project: Rosa Unit #379

Sample ID	**MB-34170**	SampType:	**mblk**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**34170**		RunNo:	**45993**				
Prep Date:	**9/29/2017**	Analysis Date:	**9/29/2017**		SeqNo:	**1463110**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-34170**	SampType:	**lcs**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**34170**		RunNo:	**45993**				
Prep Date:	**9/29/2017**	Analysis Date:	**9/29/2017**		SeqNo:	**1463111**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

*	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
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709D33**

03-Oct-17

Client: WPX Energy

Project: Rosa Unit #379

Sample ID **LCS-34051**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **34051**	RunNo: **45872**
Prep Date: **9/25/2017**	Analysis Date: **9/26/2017**	SeqNo: **1458097** 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	89.5	73.2	114			
Surr: DNOP	4.7		5.000		94.3	70	130			

Sample ID **MB-34051**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **34051**	RunNo: **45872**
Prep Date: **9/25/2017**	Analysis Date: **9/26/2017**	SeqNo: **1458098** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.6	70	130			

Qualifiers:

*	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
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709D33**

03-Oct-17

Client: WPX Energy

Project: Rosa Unit #379

Sample ID **MB-34035**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34035**	RunNo: **45887**
Prep Date: **9/25/2017**	Analysis Date: **9/26/2017**	SeqNo: **1458582** 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	900		1000		89.7	54	150			

Sample ID **LCS-34035**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34035**	RunNo: **45887**
Prep Date: **9/25/2017**	Analysis Date: **9/26/2017**	SeqNo: **1458583** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	76.4	125			
Surr: BFB	1100		1000		105	54	150			

Qualifiers:

*	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
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709D33**

03-Oct-17

Client: WPX Energy

Project: Rosa Unit #379

Sample ID **MB-34035**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **34035**	RunNo: **45887**
Prep Date: **9/25/2017**	Analysis Date: **9/26/2017**	SeqNo: **1458618** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132			

Sample ID **LCS-34035**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **34035**	RunNo: **45887**
Prep Date: **9/25/2017**	Analysis Date: **9/26/2017**	SeqNo: **1458619** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	66.6	132			

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
- PQL Practical Quanitative Limit
- 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
- W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WPX ENERGY | Work Order Number: 1709D33 | RcptNo: 1

Received By: Andy Freeman 9/23/2017 2:30:00 PM

Completed By: Anne Thorne 9/25/2017 11:46:27 AM

Reviewed By: IMO 9/25/2017

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	3.1	Good	Yes			

Chain-of-Custody Record

Client: WPX Energy Production

Mailing Address: 721 S Main
Aztec NM 87410

Phone #: 505 333 1880

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

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
Rosa Unit #379

Project #:

Project Manager:
D Watson

Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1709D53	BTEX + [illegible] (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chlorides				Air Bubbles (Y or N)
9.21.17	1305	Soil	SC-1	1-4oz glass	cold	001	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/22/17	1406	Deborah Watson	Chantel Watson	9/22/17	1406
9/22/17	1729			9/23/17	1430

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.

From: Fields, Vanessa, EMNRD
To: Watson, Debbie; Smith, Cory, EMNRD; Thomas, Leigh
Subject: [EXTERNAL] RE: Rosa Unit #379 laboratory results updated
Date: Wednesday, October 11, 2017 3:19:27 PM

Good afternoon Debbie,

The OCD approves your variance request. Please include this e-mail in your final C-141.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Watson, Debbie [mailto:Deborah.Watson@wpxenergy.com]
Sent: Wednesday, October 11, 2017 11:22 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Thomas, Leigh <l1thomas@blm.gov>
Subject: Rosa Unit #379 laboratory results updated

WPX requests approval to close the Rosa Unit #379 release based on sampling results. Laboratory analytical results are as follows: TPH (GRO + DRO) was reported below the NMOCD RRAL for TPH (GRO+DRO) of 100 mg/kg, MRO was reported at 160 mg/kg, and the chloride concentration was reported at 900 mg/kg. When MRO is included in Total TPH (MRO+DRO+GRO), the TPH concentration in SC-1 exceeds the TPH RRAL of 100 mg/kg. Impacted soil is contained within secondary containment, MRO is not a mobile contaminant, and the low concentration of MRO reported in SC-1 is not likely to have an impact to the environment or migrate off the location.

Please contact me with any questions.

Thank you,

Debbie

Deborah Watson
Environmental Specialist