

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

OIL CONS. DIV DIST. 3

JAN 20 2016

Form C-141  
Revised August 8, 2011

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 # 146B	Facility Type Well Site

Surface Owner Federal	Mineral Owner Federal	API No. 30-039-29833
-----------------------	-----------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	28	31N	05W	1980	South	800	West	Rio Arriba

Latitude N36.868621 Longitude W107.373816

NATURE OF RELEASE

Type of Release produced water	Volume of Release 40 bbl	Volume Recovered 40 bbl
Source of Release Fire Tube Failure/Equipment failure	Date and Hour of Occurrence 12/29/15 11:45	Date and Hour of Discovery 12/29/15 11:45
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) message/email Cory Smith (NMOCD) call/email Vanessa Fields (NMOCD) email	
By Whom? N/A	Date and Hour 12/29/15 15:53 call/msg 12/30/15 via email 07:37	
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

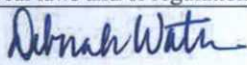

Describe Cause of Problem and Remedial Action Taken.\*

Fire tube broke, resulting in the release of 40 bbl of produced water before discovery. A water truck was brought in to recover produced water on December 29, 2015.

Describe Area Affected and Cleanup Action Taken.\*

- A water truck recovered 40 bbl of produced water.
- All of the fluids remained within secondary containment, all released produced water remained on the well pad.
- On January 7, 2016, one five point composite sample was collected from within secondary containment. The sample was laboratory analyzed for BTEX, TPH (GRO/DRO), and chlorides.
- Confirmation sampling results were reported below NMOCD action levels, no further action is required. (Laboratory analytical report is enclosed.)

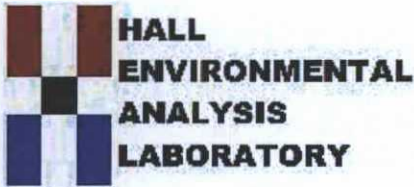
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	OIL CONSERVATION DIVISION	
Printed Name: Deborah Watson	Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 2/1/2016	Expiration Date:
E-mail Address: deborah.watson@wpxenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 01/18/2016 Phone: 505-386-9693/505-333-1880	Additional Sampling may be required after site inspection of snow melt. (NUE 1600835828)	

\* Attach Additional Sheets If Necessary

9





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)

January 14, 2016

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

RE: Rosa 146B

OrderNo.: 1601216

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/8/2016 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,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1601216

Date Reported: 1/14/2016

CLIENT: WPX Energy

Client Sample ID: SC-1

Project: Rosa 146B

Collection Date: 1/7/2016 3:10:00 PM

Lab ID: 1601216-001

Matrix: SOIL

Received Date: 1/8/2016 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	120	30		mg/Kg	20	1/11/2016 12:19:07 PM	23146
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/13/2016 2:00:54 PM	23174
Surr: DNOP	89.0	70-130		%REC	1	1/13/2016 2:00:54 PM	23174
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2016 12:23:35 PM	23132
Surr: BFB	82.7	66.2-112		%REC	1	1/12/2016 12:23:35 PM	23132
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	1/12/2016 12:23:35 PM	23132
Toluene	ND	0.049		mg/Kg	1	1/12/2016 12:23:35 PM	23132
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2016 12:23:35 PM	23132
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2016 12:23:35 PM	23132
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	1/12/2016 12:23:35 PM	23132

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
	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#: 1601216

14-Jan-16

Client: WPX Energy

Project: Rosa 146B

Sample ID	MB-23146	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23146	RunNo:	31376					
Prep Date:	1/11/2016	Analysis Date:	1/11/2016	SeqNo:	960460	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23146	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23146	RunNo:	31376					
Prep Date:	1/11/2016	Analysis Date:	1/11/2016	SeqNo:	960461	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	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#: 1601216

14-Jan-16

Client: WPX Energy

Project: Rosa 146B

Sample ID	MB-23174	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23174	RunNo:	31395					
Prep Date:	1/12/2016	Analysis Date:	1/13/2016	SeqNo:	961467	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	9.1		10.00		90.9	70	130			

Sample ID	LCS-23174	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23174	RunNo:	31395					
Prep Date:	1/12/2016	Analysis Date:	1/13/2016	SeqNo:	961468	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.8	65.8	136			
Surr: DNOP	4.5		5.000		90.0	70	130			

Sample ID	1601216-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	23174	RunNo:	31395					
Prep Date:	1/12/2016	Analysis Date:	1/13/2016	SeqNo:	961470	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.73	0	97.4	31.2	162			
Surr: DNOP	4.7		4.873		96.2	70	130			

Sample ID	1601216-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	23174	RunNo:	31395					
Prep Date:	1/12/2016	Analysis Date:	1/13/2016	SeqNo:	961471	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.8	49.07	0	89.0	31.2	162	8.32	31.7	
Surr: DNOP	4.6		4.907		92.8	70	130	0	0	

## 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#: 1601216

14-Jan-16

Client: WPX Energy

Project: Rosa 146B

Sample ID	MB-23132	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23132	RunNo:	31359					
Prep Date:	1/8/2016	Analysis Date:	1/11/2016	SeqNo:	960303	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	840		1000		83.6	66.2	112			

Sample ID	LCS-23132	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23132	RunNo:	31359					
Prep Date:	1/8/2016	Analysis Date:	1/11/2016	SeqNo:	960304	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.8	79.6	122			
Surr: BFB	950		1000		94.6	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#: 1601216

14-Jan-16

Client: WPX Energy

Project: Rosa 146B

Sample ID	MB-23132	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	23132	RunNo:	31359					
Prep Date:	1/8/2016	Analysis Date:	1/11/2016	SeqNo:	960313	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		113	80	120			

Sample ID	LCS-23132	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: 23132			RunNo: 31359					
Prep Date:	1/8/2016	Analysis Date: 1/11/2016			SeqNo: 960314		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	91.3	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	1601216-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	23132	RunNo:	31391					
Prep Date:	1/8/2016	Analysis Date:	1/12/2016	SeqNo:	960821	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.049	0.9737	0	89.4	71.5	122			
Toluene	0.93	0.049	0.9737	0	95.4	71.2	123			
Ethylbenzene	0.98	0.049	0.9737	0	101	75.2	130			
Xylenes, Total	3.1	0.097	2.921	0	106	72.4	131			
Surr: 4-Bromofluorobenzene	1.2		0.9737		128	80	120			S

Sample ID	1601216-001AMSD	SampType: MSD			TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID: 23132			RunNo: 31391					
Prep Date:	1/8/2016	Analysis Date: 1/12/2016			SeqNo: 960822		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.049	0.9775	0	83.4	71.5	122	6.58	20	
Toluene	0.84	0.049	0.9775	0	86.1	71.2	123	9.84	20	
Ethylbenzene	0.88	0.049	0.9775	0	90.0	75.2	130	10.8	20	
Xylenes, Total	2.7	0.098	2.933	0	92.6	72.4	131	13.0	20	
Surr: 4-Bromofluorobenzene	1.2		0.9775		123	80	120	0	0	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





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: 1601216

RcptNo: 1

Received by/date:

*[Signature]* 01/08/16

Logged By: Lindsay Mangin

1/8/2016 8:30:00 AM

*[Signature]*

Completed By: Lindsay Mangin

1/8/2016 9:03:40 AM

*[Signature]*

Reviewed By:

*[Signature]* 01/08/16

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			



Client: <u>WPX Energy</u>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address: <u>Aztec, NM</u>	Project Name: <u>Rosa 146 B</u>
Phone #: <u>505-386 9693</u>	Project #:
Email or Fax#: <u>deborah.watson@wpxenrgy.com</u>	Project Manager:
QA/QC Package:	<u>Deborah Watson</u>
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	Sampler: <u>Debnh Wats</u>
Accreditation	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> NELAP <input type="checkbox"/> Other	Sample Temperature: <u>11</u>
<input type="checkbox"/> EDD (Type)	

☒ Standard      ☐ Rush

Rosa 146 B

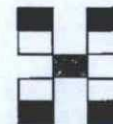
Project #:

Project Manager:

Deborah Watson

Sampler: Debnh Wats  
 On Ice: ☒ Yes ☐ No

Sample Temperature: 11




[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

X	BTEX + <del>MSE</del> + HAP's (8021)
	BTEX + MTBE + TPH (Gas only)
X	TPH 8015B <del>GRO DRO</del> MRO]
	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)
	Schmidt
	Air Bubbles (Y or N)

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/16	1751	Delrah Water	Christine Waite	7/16	1751
Date:	Time:	Relinquished by:	Received by:	Date	Time
7/16	1837	Christine Waite		7/16	1837

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.