Mike Bratcher
District Supervisor
NMOCD District II

July 23, 2018

Re: RDX Section 16 Aboveground Storage Tank Closure – 2RF-117

Dear Mr. Bratcher,

The purpose of this letter is to summarize sampling activities that were completed to close the RDX Section 16 aboveground storage tank site closure.

WPX ceased the operations on May 28, 2018. All fluids were removed from the tank and the tank was disassembled and closed. The secondary liner, underneath the tank was free of fluids and staining. However, the liner was damaged during the tank removal process. The lined area and the damaged areas were mapped with the Trimble. The map is included in Attachment 1. Upon removal of the secondary liner, a five-point composite sample was collected and tested for the constituents listed in Table 1. The analytical data is summarized in Table 2. The five-point composite sample locations are included in Attachment 1. The laboratory report is included in Attachment 2.

Table 1 Closure Criteria for Recycling Containments

Components	Testing Methods*	Limits (mg/kg)**
Benzene	EPA SW-846 Method 8021B or 8260B	10
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 8015M (Full Range)	2500
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	1000
Chlorides	EPA SW-846 Method 300.1	20000

*Or other standards approved by the division
** Numerical limits or natural background level, whichever is greater

Table 2 Analytical Data Summary

Location	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes (mg/kg)	Chlorides (mg/kg)
RDX Section 16 AST at 0’	ND	16	6.1	ND	ND	ND	ND	310

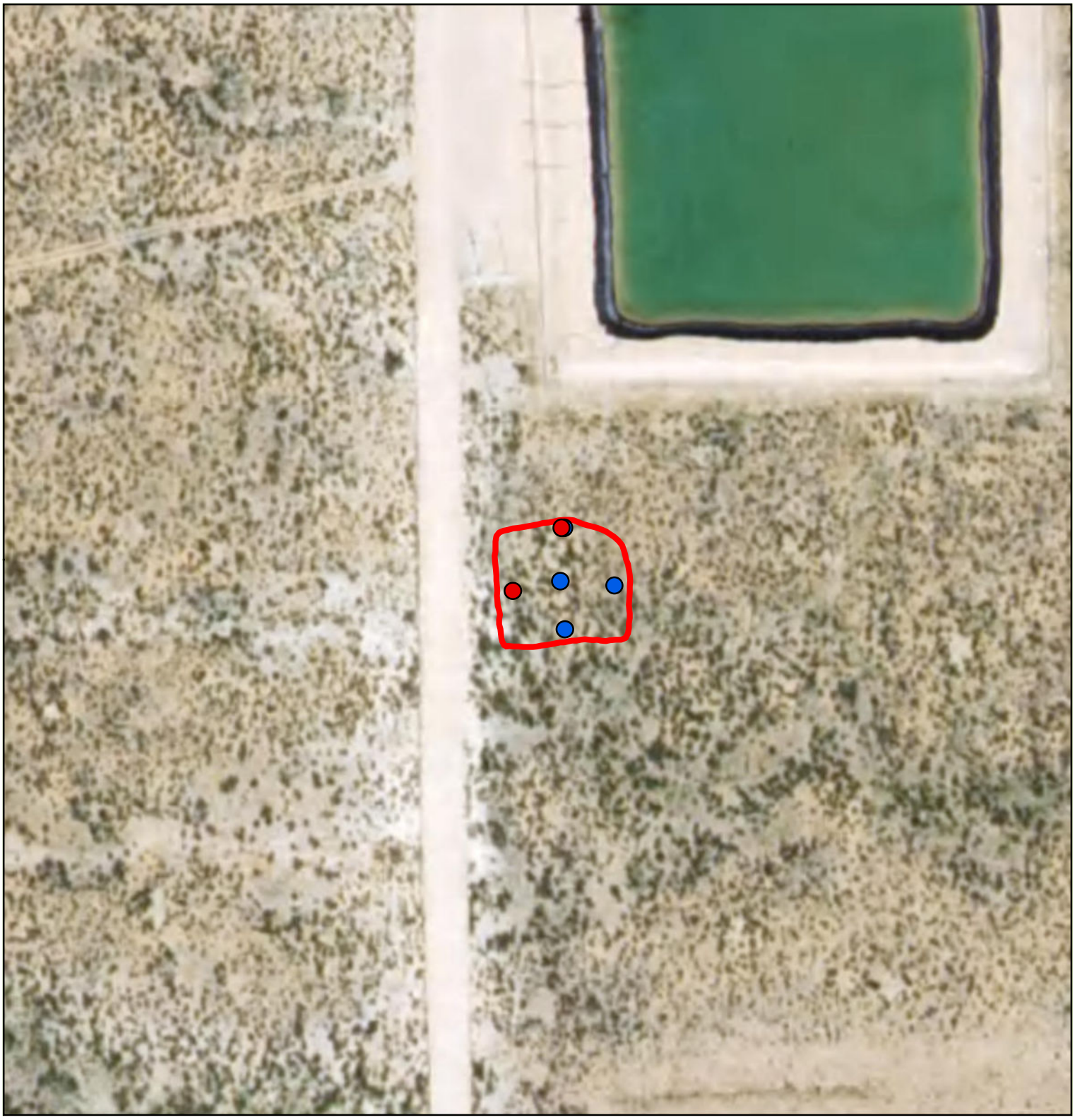
Based on these analytical result, WPX is respectfully requesting closure of this site.

If you have any questions or comments concerning this report, please feel free to call me at 970 589 0743.

Sincerely,

Karolina Blaney
WPX Energy
Environmental Specialist
(970) 589-0743
karolina.blaney@wpxenergy.com

Attachment 1



RDX Section 16
Above Ground Storage Tank
Permian Basin

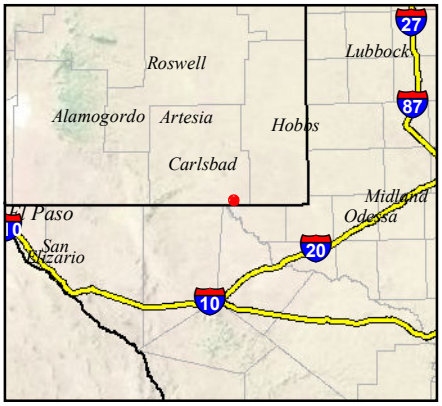
WPXENERGY

Date: 7/9/2018
Map Scale (at 8.5" x 11"): 1:1,200
Projection: NAD 1927 UTM Zone 13N
Created By: Graham Russell
3800 One Williams Center
Tulsa, OK 74172

0 75 150
Feet

Map Symbology

- Composite Sample
- Compromised Liner
- Lined Containment Area



\\denvernas\spatialdata\PERMIAN\MAPS\EHS\RDX_Section16_AboveGroundStorageTank - Permian - 8x11 P -KBlaney - 20180709.mxd

Attachment 2

17-Jul-2018

Karolina Blaney
WPX Energy
5315 Buena Vista Dr.
Carlsbad, NM 88220

Re: **RDX Section 16 AST** Work Order: **18062062**

Dear Karolina,

ALS Environmental received 1 sample on 29-Jun-2018 09:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 998501

ALS Group, USA

Date: 17-Jul-18

Client: WPX Energy
Project: RDX Section 16 AST
Work Order: **18062062**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
18062062-01	RDX Section 16 AST 0'	Soil		6/28/2018 10:20	6/29/2018 09:45	☐

ALS Group, USA

Date: 17-Jul-18

Client: WPX Energy
Project: RDX Section 16 AST
WorkOrder: **18062062**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: *17-Jul-18*

Client: WPX Energy
Project: RDX Section 16 AST
Work Order: 18062062
Sample ID: RDX Section 16 AST 0'
Lab ID: 18062062-01
Collection Date: 6/28/2018 10:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015C**	Prep: SW3546 7/3/18 14:59		Analyst: **MEB**
DRO (C10-C28)	ND		4.9	mg/Kg-dry	1	7/4/2018 02:29 AM
ORO (C28-C40)	**6.1**		**4.9**	**mg/Kg-dry**	1	7/4/2018 02:29 AM
Surr: 4-Terphenyl-d14	*45.5*		*34-130*	*%REC*	1	7/4/2018 02:29 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/2/18 11:43		Analyst: **MEB**
GRO (C6-C10)	**16**		**5.2**	**mg/Kg-dry**	1	7/7/2018 12:52 PM
Surr: Toluene-d8	*118*		*71-123*	*%REC*	1	7/7/2018 12:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/10/18 09:41		Analyst: **EMR**
Benzene	ND		0.031	mg/Kg-dry	1	7/10/2018 01:31 PM
Ethylbenzene	ND		0.031	mg/Kg-dry	1	7/10/2018 01:31 PM
m,p-Xylene	ND		0.062	mg/Kg-dry	1	7/10/2018 01:31 PM
o-Xylene	ND		0.031	mg/Kg-dry	1	7/10/2018 01:31 PM
Toluene	ND		0.031	mg/Kg-dry	1	7/10/2018 01:31 PM
Xylenes, Total	ND		0.093	mg/Kg-dry	1	7/10/2018 01:31 PM
Surr: 1,2-Dichloroethane-d4	*101*		*70-130*	*%REC*	1	7/10/2018 01:31 PM
Surr: 4-Bromofluorobenzene	*99.6*		*70-130*	*%REC*	1	7/10/2018 01:31 PM
Surr: Dibromofluoromethane	*96.7*		*70-130*	*%REC*	1	7/10/2018 01:31 PM
Surr: Toluene-d8	*98.2*		*70-130*	*%REC*	1	7/10/2018 01:31 PM
CHLORIDE			**A4500-CL E-11**	Prep: EXTRACT 7/13/18 14:30		Analyst: **ED**
Chloride	**310**	x	**10**	**mg/Kg-dry**	1	7/16/2018 11:40 AM
MOISTURE			**SW3550C**			Analyst: **RZM**
Moisture	**1.9**		**0.050**	**% of sample**	1	7/5/2018 03:55 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **120770** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKS1-120770-120770** Units: **mg/Kg** Analysis Date: **7/4/2018 01:31 AM**

Client ID: Run ID: **GC8_180703B** SeqNo: **5129231** Prep Date: **7/3/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
ORO (C28-C40)	ND	5.0								
Surr: 4-Terphenyl-d14	*2.067*	0	*3.33*	0	*62.1*	*34-130*	0			

LCS Sample ID: **DLCSS1-120770-120770** Units: **mg/Kg** Analysis Date: **7/4/2018 02:00 AM**

Client ID: Run ID: **GC8_180703B** SeqNo: **5129234** Prep Date: **7/3/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	323.4	5.0	333	0	97.1	65-122	0			
ORO (C28-C40)	327.4	5.0	333	0	98.3	81-116	0			
Surr: 4-Terphenyl-d14	*3.233*	0	*3.33*	0	*97.1*	*34-130*	0			

MS Sample ID: **18062062-01A MS** Units: **mg/Kg** Analysis Date: **7/4/2018 02:59 AM**

Client ID: **RDX Section 16 AST 0'** Run ID: **GC8_180703B** SeqNo: **5129236** Prep Date: **7/3/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	309.7	4.9	323.7	2.326	95	65-122	0			
ORO (C28-C40)	316.2	4.9	323.7	5.976	95.9	81-116	0			
Surr: 4-Terphenyl-d14	*2.948*	0	*3.237*	0	*91.1*	*34-130*	0			

MSD Sample ID: **18062062-01A MSD** Units: **mg/Kg** Analysis Date: **7/4/2018 03:28 AM**

Client ID: **RDX Section 16 AST 0'** Run ID: **GC8_180703B** SeqNo: **5129237** Prep Date: **7/3/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	322.7	4.9	329.1	2.326	97.3	65-122	309.7	4.09	30	
ORO (C28-C40)	315.7	4.9	329.1	5.976	94.1	81-116	316.2	0.164	30	
Surr: 4-Terphenyl-d14	*3.13*	0	*3.291*	0	*95.1*	*34-130*	2.948	*5.97*	*30*	

The following samples were analyzed in this batch: 18062062-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 18062062
Project: RDX Section 16 AST

QC BATCH REPORT

Batch ID: **120707** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-120707-120707** Units: **µg/Kg-dry** Analysis Date: **7/5/2018 06:40 PM**
Client ID: Run ID: **GC9_180705A** SeqNo: **5130586** Prep Date: **7/2/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	5,000								
Surr: Toluene-d8	*5891*	0	*5000*	0	*118*	*71-123*	0			

LCS Sample ID: **LCS-120707-120707** Units: **µg/Kg-dry** Analysis Date: **7/5/2018 05:41 PM**
Client ID: Run ID: **GC9_180705A** SeqNo: **5130585** Prep Date: **7/2/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	448700	5,000	500000	0	89.7	71-123	0			
Surr: Toluene-d8	*4594*	0	*5000*	0	*91.9*	*71-123*	0			

MS Sample ID: **1807002-10A MS** Units: **µg/Kg-dry** Analysis Date: **7/6/2018 06:28 AM**
Client ID: Run ID: **GC9_180705A** SeqNo: **5130622** Prep Date: **7/2/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	749600	7,800	782100	0	95.9	71-123	0			
Surr: Toluene-d8	*9041*	0	*7821*	0	*116*	*71-123*	0			

MSD Sample ID: **1807002-10A MSD** Units: **µg/Kg-dry** Analysis Date: **7/6/2018 06:57 AM**
Client ID: Run ID: **GC9_180705A** SeqNo: **5130624** Prep Date: **7/2/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	795600	7,800	782100	0	102	71-123	749600	5.96	30	
Surr: Toluene-d8	*18730*	0	*7821*	0	*240*	*71-123*	9041	*69.8*	*30*	*SR*

The following samples were analyzed in this batch: 18062062-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 18062062
Project: RDX Section 16 AST

QC BATCH REPORT

Batch ID: **121025** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **MBLK-121025-121025** Units: **µg/Kg-dry** Analysis Date: **7/10/2018 11:54 AM**
Client ID: Run ID: **VMS8_180710A** SeqNo: **5138988** Prep Date: **7/10/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*1020*	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*998*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*985*	0	*1000*	0	*98.5*	*70-130*	0			
Surr: Toluene-d8	*998.5*	0	*1000*	0	*99.8*	*70-130*	0			

LCS Sample ID: **LCS-121025-121025** Units: **µg/Kg-dry** Analysis Date: **7/10/2018 12:10 PM**
Client ID: Run ID: **VMS8_180710A** SeqNo: **5138989** Prep Date: **7/10/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	967	30	1000	0	96.7	75-125	0			
Ethylbenzene	995.5	30	1000	0	99.6	75-125	0			
m,p-Xylene	1972	60	2000	0	98.6	80-125	0			
o-Xylene	985	30	1000	0	98.5	75-125	0			
Toluene	968.5	30	1000	0	96.8	70-125	0			
Xylenes, Total	2956	90	3000	0	98.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1011*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1021*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1026*	0	*1000*	0	*103*	*70-130*	0			
Surr: Toluene-d8	*974*	0	*1000*	0	*97.4*	*70-130*	0			

MS Sample ID: **1807330-17A MS** Units: **µg/Kg-dry** Analysis Date: **7/10/2018 06:05 PM**
Client ID: Run ID: **VMS8_180710A** SeqNo: **5139009** Prep Date: **7/10/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1064	33	1112	0	95.6	75-125	0			
Ethylbenzene	1045	33	1112	13.12	92.8	75-125	0			
m,p-Xylene	2111	67	2224	70.17	91.8	80-125	0			
o-Xylene	1050	33	1112	72.14	87.9	75-125	0			
Toluene	989.1	33	1112	0	89	70-125	0			
Xylenes, Total	3161	100	3336	142	90.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1204*	0	*1112*	0	*108*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1166*	0	*1112*	0	*105*	*70-130*	0			
Surr: Dibromofluoromethane	*1112*	0	*1112*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*1080*	0	*1112*	0	*97.2*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 18062062
Project: RDX Section 16 AST

QC BATCH REPORT

Batch ID: **121025** Instrument ID **VMS8** Method: **SW8260C**

MSD Sample ID: **1807330-17A MSD** Units: **µg/Kg-dry** Analysis Date: **7/10/2018 06:21 PM**

Client ID: Run ID: **VMS8_180710A** SeqNo: **5139010** Prep Date: **7/10/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1088	33	1112	0	97.8	75-125	1064	2.27	30	
Ethylbenzene	1094	33	1112	13.12	97.2	75-125	1045	4.52	30	
m,p-Xylene	2251	67	2224	70.17	98	80-125	2111	6.4	30	
o-Xylene	1091	33	1112	72.14	91.7	75-125	1050	3.9	30	
Toluene	1091	33	1112	0	98.2	70-125	989.1	9.83	30	
Xylenes, Total	3342	100	3336	142	95.9	75-125	3161	5.57	30	
Surr: 1,2-Dichloroethane-d4	*1139*	0	*1112*	0	*102*	*70-130*	1204	*5.55*	*30*	
Surr: 4-Bromofluorobenzene	*1146*	0	*1112*	0	*103*	*70-130*	1166	*1.68*	*30*	
Surr: Dibromofluoromethane	*1122*	0	*1112*	0	*101*	*70-130*	1112	*0.946*	*30*	
Surr: Toluene-d8	*1105*	0	*1112*	0	*99.4*	*70-130*	1080	*2.24*	*30*	

The following samples were analyzed in this batch: 18062062-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 18062062
Project: RDX Section 16 AST

QC BATCH REPORT

Batch ID: **121387** Instrument ID **GALLERY** Method: **A4500-Cl E-11**

MBLK Sample ID: **MBLK-121387-121387** Units: **mg/Kg** Analysis Date: **7/16/2018 11:40 AM**
Client ID: Run ID: **GALLERY_180716A** SeqNo: **5148728** Prep Date: **7/13/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	7.961	10								Jx

MS Sample ID: **1807519-01B MS** Units: **mg/Kg** Analysis Date: **7/16/2018 11:40 AM**
Client ID: Run ID: **GALLERY_180716A** SeqNo: **5148731** Prep Date: **7/13/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	499.2	9.9	495	7.902	99.2	75-125	0			x

MSD Sample ID: **1807519-01B MSD** Units: **mg/Kg** Analysis Date: **7/16/2018 11:40 AM**
Client ID: Run ID: **GALLERY_180716A** SeqNo: **5148732** Prep Date: **7/13/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	517.4	10	498	7.902	102	75-125	499.2	3.58	25	x

LCS1 Sample ID: **LCS1-121387-121387** Units: **mg/Kg** Analysis Date: **7/16/2018 11:40 AM**
Client ID: Run ID: **GALLERY_180716A** SeqNo: **5148733** Prep Date: **7/13/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	98.6	10	100	0	98.6	80-120	0			x

LCS2 Sample ID: **LCS2-121387-121387** Units: **mg/Kg** Analysis Date: **7/16/2018 11:40 AM**
Client ID: Run ID: **GALLERY_180716A** SeqNo: **5148734** Prep Date: **7/13/2018** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	521.8	10	500	0	104	80-120	0			x

The following samples were analyzed in this batch: 18062062-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WPX Energy
Work Order: 18062062
Project: RDX Section 16 AST

QC BATCH REPORT

Batch ID: **R239661** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R239661** Units: **% of sample** Analysis Date: **7/5/2018 03:55 PM**
Client ID: Run ID: **MOIST_180705A** SeqNo: **5131144** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R239661** Units: **% of sample** Analysis Date: **7/5/2018 03:55 PM**
Client ID: Run ID: **MOIST_180705A** SeqNo: **5131143** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **18062068-01B DUP** Units: **% of sample** Analysis Date: **7/5/2018 03:55 PM**
Client ID: Run ID: **MOIST_180705A** SeqNo: **5131134** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.9	0.050	0	0	0	0-0	18.83	5.06	10	

DUP Sample ID: **18062069-01B DUP** Units: **% of sample** Analysis Date: **7/5/2018 03:55 PM**
Client ID: Run ID: **MOIST_180705A** SeqNo: **5131140** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.92	0.050	0	0	0	0-0	20.15	1.15	10	

The following samples were analyzed in this batch: 18062062-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Houston TX

Chain-of-Custody

Form 202r8

		SAMPLER		DATE	6/28/2018	WORKORDER #	180620G2
PROJECT NAME	RDX Section 16 AST	SITE ID	RDX Section 16 AST	TURNAROUND	5 day	PAGE	1 of 1
PROJECT No.		EDD FORMAT				DISPOSAL	Lab or Return to Client
		PURCHASE ORDER					
COMPANY NAME	WPX Energy	BILL TO COMPANY	WPX Energy				
SEND REPORT TO	Blaney	INVOICE ATTN TO	Karolina Blaney				
ADDRESS		ADDRESS	5315 Buena Vista Dr				
CITY / STATE / ZIP		CITY / STATE / ZIP	Carlsbad, NM 88220				
PHONE		PHONE	970 589 0743				
FAX		FAX					
E-MAIL	Karolina.blaney@wpxenergy.com; james.raley@wpxenergy.com	E-MAIL	Karolina.blaney@wpxenergy.com; James.Raley@wpxenergy.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO + GRO+ORO	BTEX	Chlorides
	RDX Section 16 AST 0'	S	6/28/2018	10:20	2	8	x	x		

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	
SR2 3.0°C Pu12	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Karolina Blaney	Karolina Blaney	6/28/2018	15:00
RECEIVED BY		Kevin Wiggins	6/29/18	0945
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Group, USA

Sample Receipt Checklist

Client Name: **WPX - NM** Date/Time Received: **29-Jun-18 09:45**

Work Order: **18062062** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 29-Jun-18 (Date) Reviewed by: Chad Whelton (eSignature) 02-Jul-18 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.0/3.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	6/29/2018 4:46:10 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: