

Legend

- Sample Location
- Existing Road
- Existing Pad
Limit of Disturbance

PA 341-35
Arsenic Background Sample Location Map
T6S R95W, Section 35

March 30, 2015





24-Mar-2015

Karolina Blaney
WPX Energy Rocky Mountain, LLC
1058 Country Rd 215
Parachute, CO 81635

Re: **PA 341-35**

Work Order: **15031068**

Dear Karolina,

ALS Environmental received 1 sample on 19-Mar-2015 09:30 AM for the analyses presented in the following report.

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

Sample results are compliant with NELAP standard requirements and QC 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 24.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: WPX Energy Rocky Mountain, LLC
Project: PA 341-35
Work Order: 15031068

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15031068-01	PA 341-35	Soil		3/18/2015 15:00	3/19/2015 09:30	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
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 PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 24-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Project: PA 341-35
Sample ID: PA 341-35
Collection Date: 3/18/2015 03:00 PM

Work Order: 15031068
Lab ID: 15031068-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 3/19/15	Analyst: IT
DRO (C10-C28)	170		4.5	mg/Kg-dry	1	3/19/2015 11:54 PM
Surr: 4-Terphenyl-d14	68.6		39-133	%REC	1	3/19/2015 11:54 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 3/19/15	Analyst: IT
GRO (C6-C10)	84		2.7	mg/Kg-dry	1	3/20/2015 07:22 AM
Surr: Toluene-d8	116		50-150	%REC	1	3/20/2015 07:22 AM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 3/19/15	Analyst: LR
Mercury	0.052		0.014	mg/Kg-dry	1	3/19/2015 07:10 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 3/19/15	Analyst: JEC
Arsenic	7.5		0.41	mg/Kg-dry	1	3/20/2015 01:19 PM
Barium	4,200		4.1	mg/Kg-dry	10	3/20/2015 03:14 PM
Cadmium	ND		0.81	mg/Kg-dry	1	3/20/2015 01:19 PM
Chromium	12		0.41	mg/Kg-dry	1	3/20/2015 01:19 PM
Copper	15		0.81	mg/Kg-dry	1	3/20/2015 01:19 PM
Lead	14		0.41	mg/Kg-dry	1	3/20/2015 01:19 PM
Nickel	16		0.41	mg/Kg-dry	1	3/20/2015 01:19 PM
Selenium	ND		0.81	mg/Kg-dry	1	3/20/2015 01:19 PM
Silver	ND		0.41	mg/Kg-dry	1	3/20/2015 01:19 PM
Zinc	61		0.81	mg/Kg-dry	1	3/20/2015 01:19 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 3/23/15	Analyst: JEC
Calcium	1,200		5.0	mg/L	10	3/24/2015 11:52 AM
Magnesium	190		2.0	mg/L	10	3/24/2015 11:52 AM
Sodium	3,000		2.0	mg/L	10	3/24/2015 11:52 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/23/15	Analyst: JEC
Sodium Adsorption Ratio	21		0.010	none	1	3/24/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 3/19/15	Analyst: RS
Acenaphthene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Anthracene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Benzo(a)anthracene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Benzo(a)pyrene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Benzo(b)fluoranthene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Benzo(g,h,i)perylene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Benzo(k)fluoranthene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Chrysene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Dibenzo(a,h)anthracene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Project: PA 341-35
Sample ID: PA 341-35
Collection Date: 3/18/2015 03:00 PM

Work Order: 15031068
Lab ID: 15031068-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Fluorene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Indeno(1,2,3-cd)pyrene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Naphthalene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Pyrene	ND		7.3	µg/Kg-dry	1	3/20/2015 12:44 PM
Surr: 2,4,6-Tribromophenol	75.5		34-140	%REC	1	3/20/2015 12:44 PM
Surr: 2-Fluorobiphenyl	66.6		12-100	%REC	1	3/20/2015 12:44 PM
Surr: 2-Fluorophenol	70.6		33-117	%REC	1	3/20/2015 12:44 PM
Surr: 4-Terphenyl-d14	78.6		25-137	%REC	1	3/20/2015 12:44 PM
Surr: Nitrobenzene-d5	64.5		37-107	%REC	1	3/20/2015 12:44 PM
Surr: Phenol-d6	71.1		40-106	%REC	1	3/20/2015 12:44 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/19/15	Analyst: LSY	
Benzene	ND		33	µg/Kg-dry	1	3/19/2015 07:28 PM
Ethylbenzene	68		33	µg/Kg-dry	1	3/19/2015 07:28 PM
m,p-Xylene	440		66	µg/Kg-dry	1	3/19/2015 07:28 PM
o-Xylene	35		33	µg/Kg-dry	1	3/19/2015 07:28 PM
Toluene	72		33	µg/Kg-dry	1	3/19/2015 07:28 PM
Xylenes, Total	470		99	µg/Kg-dry	1	3/19/2015 07:28 PM
Surr: 1,2-Dichloroethane-d4	116		70-130	%REC	1	3/19/2015 07:28 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	3/19/2015 07:28 PM
Surr: Dibromofluoromethane	117		70-130	%REC	1	3/19/2015 07:28 PM
Surr: Toluene-d8	106		70-130	%REC	1	3/19/2015 07:28 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/23/15	Analyst: JB	
Electrical Conductivity @ Saturation	25		0.050	mmhos/cm @2	10	3/23/2015 05:30 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	12		0.55	mg/Kg-dry	1	3/23/2015 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/19/15	Analyst: MB	
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	3/20/2015 04:00 PM
MOISTURE			E160.3M	Analyst: EVB		
Moisture	8.7		0.050	% of sample	1	3/19/2015 02:45 PM
PH			SW9045D	Prep: EXTRACT / 3/19/15	Analyst: JRF	
pH	8.5		s.u.		1	3/19/2015 02:55 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68811** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-68811-68811				Units: mg/Kg		Analysis Date: 3/19/2015 05:54 PM			
Client ID:		Run ID: GC8_150319A				SeqNo: 3187020		Prep Date: 3/19/2015		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								
Surr: 4-Terphenyl-d14	1.57	0	2	0	78.5	39-133		0		

LCS				Sample ID: DLCSS1-68811-68811				Units: mg/Kg			Analysis Date: 3/19/2015 06:24 PM			
Client ID:				Run ID: GC8_150319A				SeqNo: 3187021			Prep Date: 3/19/2015		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	160	5.0	200	0	80	61-109		0		
Surr: 4-Terphenyl-d14	1.157	0	2	0	57.9	39-133		0		

MS		Sample ID: 15031054-02A MS					Units: mg/Kg		Analysis Date: 3/19/2015 06:54 PM		
Client ID:			Run ID: GC8_150319A			SeqNo: 3187022		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

DRO (C10-C28)	284.7	8.0	319.4	5.237	87.5	48-110		0		
Surr: 4-Terphenyl-d14	2.013	0	3.194	0	63	39-133		0		

MSD		Sample ID: 15031054-02A MSD					Units: mg/Kg		Analysis Date: 3/19/2015 07:24 PM		
Client ID:			Run ID: GC8_150319A			SeqNo: 3187023		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

DRO (C10-C28)	351.7	7.9	314.9	5.237	110	48-110	284.7	21	30	S
Surr: 4-Terphenyl-d14	2.181	0	3.149	0	69.3	39-133	2.013	8.01	30	

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 15031068
 Project: PA 341-35

QC BATCH REPORT

Batch ID: **68808** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-68808-68808				Units: µg/Kg		Analysis Date: 3/19/2015 07:45 PM		
Client ID:		Run ID: GC9_150319A				SeqNo: 3187153		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	5823	0	5000	0	116	50-150	0			

LCS		Sample ID: LCS-68808-68808				Units: µg/Kg		Analysis Date: 3/19/2015 06:55 PM		
Client ID:		Run ID: GC9_150319A				SeqNo: 3187148		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	617100	2,500	500000	0	123	70-130	0			
Surr: Toluene-d8	5248	0	5000	0	105	50-150	0			

MS		Sample ID: 15031023-01A MS				Units: µg/Kg		Analysis Date: 3/20/2015 02:24 AM		
Client ID:		Run ID: GC9_150319A				SeqNo: 3187171		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	536600	2,500	500000	0	107	70-130	0			
Surr: Toluene-d8	5340	0	5000	0	107	50-150	0			

MSD		Sample ID: 15031023-01A MSD				Units: µg/Kg		Analysis Date: 3/20/2015 02:49 AM		
Client ID:		Run ID: GC9_150319A				SeqNo: 3187172		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	529900	2,500	500000	0	106	70-130	536600	1.26	30	
Surr: Toluene-d8	5291	0	5000	0	106	50-150	5340	0.931	30	

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68825** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-68825-68825				Units: mg/Kg		Analysis Date: 3/19/2015 06:47 PM		
Client ID:		Run ID: HG1_150319A				SeqNo: 3186268		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-68825-68825				Units: mg/Kg		Analysis Date: 3/19/2015 06:49 PM		
Client ID:		Run ID: HG1_150319A				SeqNo: 3186269		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1788 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 15031021-02AMS					Units: mg/Kg		Analysis Date: 3/19/2015 06:56 PM		
Client ID:			Run ID: HG1_150319A			SeqNo: 3186272		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1384 0.014 0.1129 0.018 107 75-125 0

MSD		Sample ID: 15031021-02AMSD				Units: mg/Kg		Analysis Date: 3/19/2015 06:59 PM		
Client ID:		Run ID: HG1_150319A			SeqNo: 3186273		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1384 0.014 0.1156 0.018 104 75-125 0.1384 0.0361 35

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68814** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 15031054-03BDUP				Units: mg/L		Analysis Date: 3/24/2015 11:35 AM		
Client ID:		Run ID: ICP2_150324A				SeqNo: 3192420		Prep Date: 3/23/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	28.99	5.0	0	0	0	0-0	23.96	19		
Magnesium	33.53	2.0	0	0	0	0-0	27.94	18.2		
Sodium	224	2.0	0	0	0	0-0	192.2	15.3		

DUP		Sample ID: 15031054-03BDUP				Units: none		Analysis Date: 3/24/2015		
Client ID:		Run ID: SAR_150324A				SeqNo: 3192516		Prep Date: 3/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	6.719	0.010	0	0	0		6.326	6.03	50	

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68824** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-68824-68824				Units: mg/L		Analysis Date: 3/20/2015 12:40 PM		
Client ID:		Run ID: ICP2_150320A				SeqNo: 3187717		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	ND	0.25								
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-68824-68824				Units: mg/L		Analysis Date: 3/20/2015 12:46 PM		
Client ID:		Run ID: ICP2_150320A				SeqNo: 3187718		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.844	0.25	5	0	96.9	80-120	0			
Barium	4.935	0.25	5	0	98.7	80-120	0			
Cadmium	4.821	0.50	5	0	96.4	80-120	0			
Chromium	5.19	0.25	5	0	104	80-120	0			
Copper	5.18	0.50	5	0	104	80-120	0			
Lead	5.189	0.25	5	0	104	80-120	0			
Nickel	5.136	0.25	5	0	103	80-120	0			
Selenium	4.923	0.50	5	0	98.5	80-120	0			
Silver	5.391	0.25	5	0	108	80-120	0			
Zinc	5.124	0.50	5	0	102	80-120	0			

MS		Sample ID: 1503886-04BMS				Units: mg/Kg		Analysis Date: 3/20/2015 12:57 PM		
Client ID:		Run ID: ICP2_150320A				SeqNo: 3187720		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.51	0.35	6.935	5.084	107	75-125	0			
Barium	116.3	0.35	6.935	85.29	448	75-125	0			SO
Cadmium	7.028	0.69	6.935	0.06242	100	75-125	0			
Chromium	15.51	0.35	6.935	6.052	136	75-125	0			S
Copper	14.49	0.69	6.935	6.984	108	75-125	0			
Lead	15.02	0.35	6.935	8.539	93.4	75-125	0			
Nickel	15.86	0.35	6.935	8.817	101	75-125	0			
Selenium	7.281	0.69	6.935	0.1204	103	75-125	0			
Silver	8.572	0.35	6.935	-0.09512	125	75-125	0			
Zinc	48.82	0.69	6.935	40.28	123	75-125	0			O

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68824** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 1503886-04BMSD				Units: mg/Kg		Analysis Date: 3/20/2015 01:02 PM		
Client ID:		Run ID: ICP2_150320A				SeqNo: 3187721		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.74	0.35	6.954	5.084	110	75-125	12.51	1.86	20	
Barium	137	0.35	6.954	85.29	744	75-125	116.3	16.3	20	SO
Cadmium	7.132	0.70	6.954	0.06242	102	75-125	7.028	1.47	20	
Chromium	15.61	0.35	6.954	6.052	137	75-125	15.51	0.625	20	S
Copper	14.65	0.70	6.954	6.984	110	75-125	14.49	1.12	20	
Lead	15.49	0.35	6.954	8.539	100	75-125	15.02	3.11	20	
Nickel	16.17	0.35	6.954	8.817	106	75-125	15.86	1.99	20	
Selenium	7.497	0.70	6.954	0.1204	106	75-125	7.281	2.93	20	
Silver	8.698	0.35	6.954	-0.09512	126	75-125	8.572	1.46	20	S
Zinc	50.32	0.70	6.954	40.28	144	75-125	48.82	3.03	20	SO

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-68803-68803				Units: µg/Kg		Analysis Date: 3/19/2015 05:28 PM		
Client ID:		Run ID: SVMS8_150319A				SeqNo: 3187576		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2,4,6-Tribromophenol</i>	1362	0	1667	0	81.7	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1282	0	1667	0	76.9	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1408	0	1667	0	84.5	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1696	0	1667	0	102	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1453	0	1667	0	87.2	37-107	0			
<i>Surr: Phenol-d6</i>	1366	0	1667	0	81.9	40-106	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

LCS		Sample ID: SLCSS1-68803-68803				Units: µg/Kg		Analysis Date: 3/19/2015 05:49 PM		
Client ID:		Run ID: SVMS8_150319A				SeqNo: 3187577		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	456.3	6.7	666.7	0	68.4	45-110	0			
Anthracene	602	6.7	666.7	0	90.3	55-105	0			
Benzo(a)anthracene	620.3	6.7	666.7	0	93	50-110	0			
Benzo(a)pyrene	626.7	6.7	666.7	0	94	50-110	0			
Benzo(b)fluoranthene	650	6.7	666.7	0	97.5	45-115	0			
Benzo(g,h,i)perylene	596	6.7	666.7	0	89.4	40-125	0			
Benzo(k)fluoranthene	620.3	6.7	666.7	0	93	45-115	0			
Chrysene	614	6.7	666.7	0	92.1	55-110	0			
Dibenzo(a,h)anthracene	605	6.7	666.7	0	90.7	40-125	0			
Fluoranthene	608.3	6.7	666.7	0	91.2	55-115	0			
Fluorene	492	6.7	666.7	0	73.8	50-110	0			
Indeno(1,2,3-cd)pyrene	599	6.7	666.7	0	89.8	40-120	0			
Naphthalene	429.3	6.7	666.7	0	64.4	40-105	0			
Pyrene	650.7	6.7	666.7	0	97.6	45-125	0			
Surr: 2,4,6-Tribromophenol	1554	0	1667	0	93.2	34-140	0			
Surr: 2-Fluorobiphenyl	1089	0	1667	0	65.3	12-100	0			
Surr: 2-Fluorophenol	1155	0	1667	0	69.3	33-117	0			
Surr: 4-Terphenyl-d14	1611	0	1667	0	96.7	25-137	0			
Surr: Nitrobenzene-d5	1243	0	1667	0	74.6	37-107	0			
Surr: Phenol-d6	1136	0	1667	0	68.2	40-106	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: 1503870-03B MS			Units: µg/Kg		Analysis Date: 3/19/2015 07:37 PM	
Client ID:				Run ID: SVMS8_150319A			SeqNo: 3187581		Prep Date: 3/19/2015	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	868.2	13	1298	0	66.9	45-110	0			
Anthracene	1111	13	1298	0	85.6	55-105	0			
Benzo(a)anthracene	1171	13	1298	9.716	89.5	50-110	0			
Benzo(a)pyrene	1224	13	1298	9.716	93.6	50-110	0			
Benzo(b)fluoranthene	1174	13	1298	10.36	89.7	45-115	0			
Benzo(g,h,i)perylene	1208	13	1298	7.773	92.5	40-125	0			
Benzo(k)fluoranthene	1139	13	1298	5.83	87.3	45-115	0			
Chrysene	1123	13	1298	5.83	86.1	55-110	0			
Dibenzo(a,h)anthracene	1197	13	1298	0	92.2	40-125	0			
Fluoranthene	1105	13	1298	12.63	84.2	55-115	0			
Fluorene	973.3	13	1298	0	75	50-110	0			
Indeno(1,2,3-cd)pyrene	1276	13	1298	9.716	97.5	40-120	0			
Naphthalene	918.8	13	1298	0	70.8	40-105	0			
Pyrene	1235	13	1298	11.98	94.2	45-125	0			
Surr: 2,4,6-Tribromophenol	2859	0	3244	0	88.1	34-140	0			
Surr: 2-Fluorobiphenyl	2303	0	3244	0	71	12-100	0			
Surr: 2-Fluorophenol	2342	0	3244	0	72.2	33-117	0			
Surr: 4-Terphenyl-d14	2988	0	3244	0	92.1	25-137	0			
Surr: Nitrobenzene-d5	2662	0	3244	0	82	37-107	0			
Surr: Phenol-d6	2377	0	3244	0	73.3	40-106	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

MSD				Sample ID: 1503870-03B MSD			Units: µg/Kg		Analysis Date: 3/19/2015 07:58 PM	
Client ID:				Run ID: SVMS8_150319A			SeqNo: 3187582		Prep Date: 3/19/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	890	13	1262	0	70.5	45-110	868.2	2.48	30	
Anthracene	1133	13	1262	0	89.7	55-105	1111	1.92	30	
Benzo(a)anthracene	1218	13	1262	9.716	95.7	50-110	1171	3.94	30	
Benzo(a)pyrene	1278	13	1262	9.716	100	50-110	1224	4.25	30	
Benzo(b)fluoranthene	1209	13	1262	10.36	94.9	45-115	1174	2.88	30	
Benzo(g,h,i)perylene	1252	13	1262	7.773	98.5	40-125	1208	3.54	30	
Benzo(k)fluoranthene	1165	13	1262	5.83	91.8	45-115	1139	2.3	30	
Chrysene	1146	13	1262	5.83	90.3	55-110	1123	2.04	30	
Dibenzo(a,h)anthracene	1241	13	1262	0	98.3	40-125	1197	3.59	30	
Fluoranthene	1136	13	1262	12.63	89	55-115	1105	2.78	30	
Fluorene	998.5	13	1262	0	79.1	50-110	973.3	2.56	30	
Indeno(1,2,3-cd)pyrene	1327	13	1262	9.716	104	40-120	1276	3.93	30	
Naphthalene	932.9	13	1262	0	73.9	40-105	918.8	1.53	30	
Pyrene	1260	13	1262	11.98	98.9	45-125	1235	2.06	30	
Surr: 2,4,6-Tribromophenol	2984	0	3156	0	94.5	34-140	2859	4.25	40	
Surr: 2-Fluorobiphenyl	2304	0	3156	0	73	12-100	2303	0.0754	40	
Surr: 2-Fluorophenol	2361	0	3156	0	74.8	33-117	2342	0.806	40	
Surr: 4-Terphenyl-d14	3073	0	3156	0	97.4	25-137	2988	2.8	40	
Surr: Nitrobenzene-d5	2744	0	3156	0	87	37-107	2662	3.07	40	
Surr: Phenol-d6	2359	0	3156	0	74.8	40-106	2377	0.759	40	

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68807** Instrument ID **VMS7** Method: **SW8260B**

MBLK				Sample ID: MBLK-68807-68807				Units: µg/Kg			Analysis Date: 3/19/2015 05:03 PM			
Client ID:				Run ID: VMS7_150319A				SeqNo: 3187554			Prep Date: 3/19/2015		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	971	0	1000	0	97.1	70-130		0						
Surr: 4-Bromofluorobenzene	959.5	0	1000	0	96	70-130		0						
Surr: Dibromofluoromethane	969.5	0	1000	0	97	70-130		0						
Surr: Toluene-d8	940.5	0	1000	0	94	70-130		0						

LCS				Sample ID: LCS-68807-68807			Units: µg/Kg		Analysis Date: 3/19/2015 02:57 PM		
Client ID:			Run ID: VMS7_150319A			SeqNo: 3185992		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1003	30	1000	0	100	75-125	0				
Ethylbenzene	1014	30	1000	0	101	75-125	0				
m,p-Xylene	2066	60	2000	0	103	80-125	0				
o-Xylene	998	30	1000	0	99.8	75-125	0				
Toluene	1020	30	1000	0	102	70-125	0				
Xylenes, Total	3064	90	3000	0	102	75-125	0				
Surr: 1,2-Dichloroethane-d4	945.5	0	1000	0	94.6	70-130	0				
Surr: 4-Bromofluorobenzene	954.5	0	1000	0	95.4	70-130	0				
Surr: Dibromofluoromethane	976.5	0	1000	0	97.6	70-130	0				
Surr: Toluene-d8	977.5	0	1000	0	97.8	70-130	0				

MS				Sample ID: 15031021-08A MS			Units: µg/Kg		Analysis Date: 3/20/2015 04:42 PM		
Client ID:			Run ID: VMS6_150319B			SeqNo: 3188548		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1457	43	1445	0	101	75-125	0				
Ethylbenzene	1447	43	1445	0	100	75-125	0				
m,p-Xylene	2861	87	2890	0	99	80-125	0				
o-Xylene	1400	43	1445	0	96.8	75-125	0				
Toluene	1400	43	1445	0	96.8	70-125	0				
Xylenes, Total	4260	130	4335	0	98.3	75-125	0				
Surr: 1,2-Dichloroethane-d4	1437	0	1445	0	99.4	70-130	0				
Surr: 4-Bromofluorobenzene	1445	0	1445	0	100	70-130	0				
Surr: Dibromofluoromethane	1376	0	1445	0	95.2	70-130	0				
Surr: Toluene-d8	1435	0	1445	0	99.3	70-130	0				

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68807** Instrument ID **VMS7** Method: **SW8260B**

MSD				Sample ID: 15031021-08A MSD			Units: µg/Kg		Analysis Date: 3/20/2015 05:08 PM		
Client ID:			Run ID: VMS6_150319B			SeqNo: 3188549		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1407	43	1445	0	97.4	75-125	1457	3.48	30		
Ethylbenzene	1408	43	1445	0	97.4	75-125	1447	2.68	30		
m,p-Xylene	2770	87	2890	0	95.8	80-125	2861	3.21	30		
o-Xylene	1364	43	1445	0	94.4	75-125	1400	2.56	30		
Toluene	1352	43	1445	0	93.6	70-125	1400	3.47	30		
Xylenes, Total	4134	130	4335	0	95.4	75-125	4260	3	30		
Surr: 1,2-Dichloroethane-d4	1433	0	1445	0	99.2	70-130	1437	0.302	30		
Surr: 4-Bromofluorobenzene	1456	0	1445	0	101	70-130	1445	0.747	30		
Surr: Dibromofluoromethane	1404	0	1445	0	97.2	70-130	1376	2.03	30		
Surr: Toluene-d8	1441	0	1445	0	99.8	70-130	1435	0.452	30		

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68814** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 15031054-03B DUP				Units: mmhos/cm @25°		Analysis Date: 3/23/2015 05:30 PM		
Client ID:		Run ID: WETCHEM_150323Q			SeqNo: 3190818		Prep Date: 3/23/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.755	0.050	0	0	0		1.68	4.37	50	

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68835** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-68835-68835				Units: s.u.		Analysis Date: 3/19/2015 02:55 PM		
Client ID:		Run ID: WETCHEM_150319L			SeqNo: 3185852		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	4.05	0	4	0	101	90-110	0			
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DUP		Sample ID: 15031054-04A DUP				Units: s.u.		Analysis Date: 3/19/2015 02:55 PM		
Client ID:		Run ID: WETCHEM_150319L				SeqNo: 3185858		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	9.1	0	0	0	0	0-0	9	1.1	20	
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DUP				Sample ID: 15031054-05A DUP				Units: s.u.			Analysis Date: 3/19/2015 02:55 PM			
Client ID:				Run ID: WETCHEM_150319L				SeqNo: 3185860			Prep Date: 3/19/2015		DF: 1	

pH	8.09	0	0	0	0	0-0	8.12	0.37	20	
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The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031068
Project: PA 341-35

QC BATCH REPORT

Batch ID: **68890** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-68890-68890				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188483		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS		Sample ID: LCS-68890-68890				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188482		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.04 1.0 5 0 101 80-120 0

MS		Sample ID: 1503832-01B MS				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188468		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.346 0.93 4.673 0.1101 90.6 75-125 0

MS		Sample ID: 1503832-01B MSI				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188470		Prep Date: 3/19/2015		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2963 93 3203 0.1101 92.5 75-125 0

MSD		Sample ID: 1503832-01B MSD				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188469		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.109 0.91 4.545 0.1101 88 75-125 4.346 5.6 20

The following samples were analyzed in this batch:

15031068-01A

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 15031068
 Project: PA 341-35

QC BATCH REPORT

Batch ID: **R159567** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R159567				Units: % of sample			Analysis Date: 3/19/2015 02:45 PM		
Client ID:		Run ID: MOIST_150319A				SeqNo: 3187371			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-R159567				Units: % of sample			Analysis Date: 3/19/2015 02:45 PM		
Client ID:		Run ID: MOIST_150319A				SeqNo: 3187370			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: 15031054-01A DUP				Units: % of sample			Analysis Date: 3/19/2015 02:45 PM		
Client ID:		Run ID: MOIST_150319A				SeqNo: 3187351			Prep Date:		
									DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 12.42 0.050 0 0 0 12.61 1.52 20

DUP		Sample ID: 1503928-22A DUP				Units: % of sample			Analysis Date: 3/19/2015 02:45 PM		
Client ID:		Run ID: MOIST_150319A				SeqNo: 3187365			Prep Date:		
									DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 16.25 0.050 0 0 0 16.58 2.01 20

The following samples were analyzed in this batch:


15031068-01A

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

[illegible]

*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: <div style="text-align: center;">  </div>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/> X	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Karolina Blaney	Karolina Blaney	3/18/2015	16:00
RECEIVED BY	<i>[Signature]</i>	<i>[Signature]</i>	3-18-15	1600
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	3-18	1615
RECEIVED BY	<i>[Signature]</i>	Diane F. Sha	3/19/15	0930
RELINQUISHED BY				
RECEIVED BY				

3/18/2015

FedEx Ship Manager - Print Your Label(s)

From: (616) 298-1033
Nick Martinez
ALS Environmental
127 E. 1st Street

Origin ID: RILA

FedEx
Express



J151215022303uv

Ship Date: 18MAR15
Act/Wgt: 45.0 LB
CAD: 2264840/NET3610

Dims: 24 X 15 X 15 IN

PARACHUTE, CO 81635

Delivery Address Bar Code



Ref # 031815-1
Invoice #
PO # Parachute
Dept #

SHIP TO: (616) 399-6070

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sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

4 of 4

THU - 19 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 7731 6159 2699

0263

Mstr# 7731 6159 2357

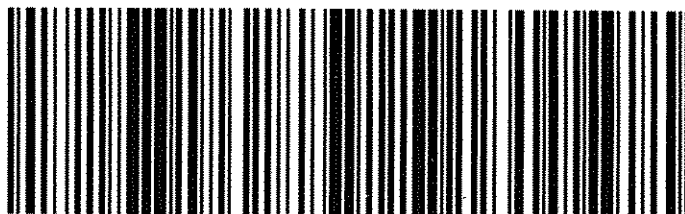
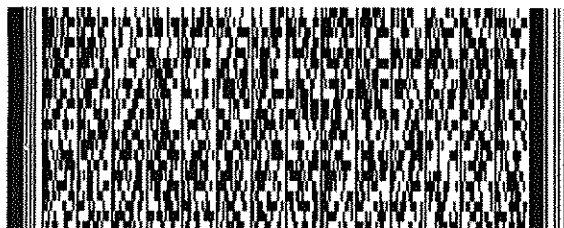
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537J11879A/EE4B

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Parachute Co. Custody Seal

Time 1730 I Date 3-18

Name W. H. H.

5200

Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **19-Mar-15 09:30**

Work Order: **15031068**

Received by: **DS**

Checklist completed by Diane Shaw
eSignature

19-Mar-15
Date

Reviewed by: Chad Whelton
eSignature

20-Mar-15
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): 5.2 c SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 3/19/2015 10:26:05 AM

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:



31-Mar-2015

Karolina Blaney
WPX Energy Rocky Mountain, LLC
1058 Country Rd 215
Parachute, CO 81635

Re: **PA 341-35 Backgrounds**

Work Order: **15031443**

Dear Karolina,

ALS Environmental received 5 samples on 25-Mar-2015 10:30 AM for the analyses presented in the following report.

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

Sample results are compliant with NELAP standard requirements and QC 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 15.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: WPX Energy Rocky Mountain, LLC
Project: PA 341-35 Backgrounds
Work Order: 15031443

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15031443-01	PA 341-35-B-1	Soil		3/24/2015 12:10	3/25/2015 10:30	<input type="checkbox"/>
15031443-02	PA 341-35-B-2	Soil		3/24/2015 12:15	3/25/2015 10:30	<input type="checkbox"/>
15031443-03	PA 341-35-B-3	Soil		3/24/2015 12:20	3/25/2015 10:30	<input type="checkbox"/>
15031443-04	PA 341-35-B-4	Soil		3/24/2015 12:25	3/25/2015 10:30	<input type="checkbox"/>
15031443-05	PA 341-35-B-5	Soil		3/24/2015 12:30	3/25/2015 10:30	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
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 PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 31-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Project: PA 341-35 Backgrounds
Sample ID: PA 341-35-B-1
Collection Date: 3/24/2015 12:10 PM

Work Order: 15031443
Lab ID: 15031443-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	8.0		SW846 6010C 0.40	mg/Kg-dry	Prep: SW3050B / 3/26/15 1	Analyst: JEC 3/27/2015 01:20 PM
SOLUBLE CATIONS FOR SAR						
Calcium	77		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 3/27/15 10	Analyst: JEC 3/27/2015 04:46 PM
Magnesium	10		2.0	mg/L	10	3/27/2015 04:46 PM
Sodium	40		2.0	mg/L	10	3/27/2015 04:46 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	1.1		USDA H60 METHO 0.010	none	Prep: USDA Method 20B / 3/27/15 1	Analyst: JEC 3/27/2015
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	0.81		USDA H60 METHO 0.050	mmhos/cm @2	Prep: USDA Method 20B / 3/27/15 10	Analyst: JB 3/30/2015 12:00 PM
MOISTURE						
Moisture	4.4		E160.3M 0.050	% of sample	1	Analyst: EVB 3/27/2015 03:15 PM
PH						
pH	8.2		SW9045D s.u.		Prep: EXTRACT / 3/27/15 1	Analyst: JRF 3/27/2015 03:30 PM

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

ALS Group USA, Corp**Date:** 31-Mar-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** PA 341-35 Backgrounds**Work Order:** 15031443**Sample ID:** PA 341-35-B-2**Lab ID:** 15031443-02**Collection Date:** 3/24/2015 12:15 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 3/26/15	Analyst: JEC
Arsenic	6.7		0.35	mg/Kg-dry	1	3/27/2015 01:25 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	3.5		0.050	% of sample	1	3/27/2015 03:15 PM

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

ALS Group USA, Corp**Date:** 31-Mar-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** PA 341-35 Backgrounds**Work Order:** 15031443**Sample ID:** PA 341-35-B-3**Lab ID:** 15031443-03**Collection Date:** 3/24/2015 12:20 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	6.9		SW846 6010C 0.37	mg/Kg-dry	1	Prep: SW3050B / 3/26/15 Analyst: JEC 3/27/2015 01:31 PM
MOISTURE						
Moisture	2.6		E160.3M 0.050	% of sample	1	Analyst: EVB 3/27/2015 03:15 PM

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

ALS Group USA, Corp**Date:** 31-Mar-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** PA 341-35 Backgrounds**Work Order:** 15031443**Sample ID:** PA 341-35-B-4**Lab ID:** 15031443-04**Collection Date:** 3/24/2015 12:25 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 3/26/15	Analyst: JEC
Arsenic	7.2		0.41	mg/Kg-dry	1	3/27/2015 01:36 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	3.8		0.050	% of sample	1	3/27/2015 03:15 PM

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

ALS Group USA, Corp**Date:** 31-Mar-15**Client:** WPX Energy Rocky Mountain, LLC**Project:** PA 341-35 Backgrounds**Work Order:** 15031443**Sample ID:** PA 341-35-B-5**Lab ID:** 15031443-05**Collection Date:** 3/24/2015 12:30 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	6.2		SW846 6010C 0.33	mg/Kg-dry	Prep: SW3050B / 3/26/15 1	Analyst: JEC 3/27/2015 01:42 PM
MOISTURE						
Moisture	3.3		E160.3M 0.050	% of sample	1	Analyst: EVB 3/27/2015 03:15 PM

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

ALS Group USA, Corp

Date: 31-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031443
Project: PA 341-35 Backgrounds

QC BATCH REPORT

Batch ID: **69098** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-69098-69098				Units: mg/L		Analysis Date: 3/26/2015 07:42 PM		
Client ID:		Run ID: ICP2_150326B				SeqNo: 3197476		Prep Date: 3/26/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic ND 0.25

LCS		Sample ID: LCS-69098-69098				Units: mg/L		Analysis Date: 3/26/2015 07:48 PM		
Client ID:		Run ID: ICP2_150326B				SeqNo: 3197477		Prep Date: 3/26/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 4.8 0.25 5 0 96 80-120 0

MS		Sample ID: 15031445-02AMS				Units: mg/Kg		Analysis Date: 3/26/2015 07:59 PM		
Client ID:		Run ID: ICP2_150326B				SeqNo: 3197479		Prep Date: 3/26/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 15.94 0.38 7.519 6.698 123 75-125 0

MSD		Sample ID: 15031445-02AMSD				Units: mg/Kg		Analysis Date: 3/26/2015 08:04 PM		
Client ID:		Run ID: ICP2_150326B				SeqNo: 3197480		Prep Date: 3/26/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 16.51 0.38 7.519 6.698 131 75-125 15.94 3.55 20 S

The following samples were analyzed in this batch:

15031443-01A	15031443-02A	15031443-03A
15031443-04A	15031443-05A	

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031443
Project: PA 341-35 Backgrounds

QC BATCH REPORT

Batch ID: **69141** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 15031443-01BDUP				Units: mg/L		Analysis Date: 3/27/2015 04:51 PM		
Client ID: PA 341-35-B-1		Run ID: ICP2_150327A				SeqNo: 3200250		Prep Date: 3/27/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	83.79	5.0	0	0	0	0-0	83.79	0		
Magnesium	11.29	2.0	0	0	0	0-0	11.29	0		
Sodium	39.43	2.0	0	0	0	0-0	39.43	0		

DUP		Sample ID: 15031443-01BDUP				Units: none		Analysis Date: 3/27/2015		
Client ID: PA 341-35-B-1		Run ID: SAR_150327A				SeqNo: 3200358		Prep Date: 3/27/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.073	0.010	0	0	0		1.128	4.95	50	

The following samples were analyzed in this batch:

15031443-01B

Batch ID: **69141** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 15031443-01B DUP				Units: mmhos/cm @25°		Analysis Date: 3/30/2015 12:00 PM		
Client ID: PA 341-35-B-1		Run ID: WETCHEM_150330B				SeqNo: 3200507		Prep Date: 3/27/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.823	0.050	0	0	0		0.809	1.72	50	

The following samples were analyzed in this batch:

15031443-01B

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031443
Project: PA 341-35 Backgrounds

QC BATCH REPORT

Batch ID: **69166** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-69166-69166				Units: s.u.		Analysis Date: 3/27/2015 03:30 PM		
Client ID:		Run ID: WETCHEM_150327I				SeqNo: 3199082		Prep Date: 3/27/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.02	0	4	0	100	90-110	0			

DUP		Sample ID: 15031588-01B DUP				Units: s.u.		Analysis Date: 3/27/2015 03:30 PM		
Client ID:		Run ID: WETCHEM_150327I				SeqNo: 3199094		Prep Date: 3/27/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.2	0	0	0	0	0-0	7.26	0.83	20	

DUP				Sample ID: 15031612-01B DUP				Units: s.u.			Analysis Date: 3/27/2015 03:30 PM			
Client ID:				Run ID: WETCHEM_150327I				SeqNo: 3199096			Prep Date: 3/27/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	8.07	0	0	0	0	0-0	8.08	0.124	20					

The following samples were analyzed in this batch:

15031443-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15031443
Project: PA 341-35 Backgrounds

QC BATCH REPORT

Batch ID: **R160122** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R160122				Units: % of sample		Analysis Date: 3/27/2015 03:15 PM		
Client ID:		Run ID: MOIST_150327A				SeqNo: 3200383		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-R160122				Units: % of sample		Analysis Date: 3/27/2015 03:15 PM		
Client ID:		Run ID: MOIST_150327A				SeqNo: 3200382		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: 15031326-01A DUP				Units: % of sample		Analysis Date: 3/27/2015 03:15 PM		
Client ID:		Run ID: MOIST_150327A				SeqNo: 3200361		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 10.06 0.050 0 0 0 9.51 5.62 20

DUP		Sample ID: 15031438-01A DUP				Units: % of sample		Analysis Date: 3/27/2015 03:15 PM		
Client ID:		Run ID: MOIST_150327A				SeqNo: 3200373		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 22.93 0.050 0 0 0 22.19 3.28 20

The following samples were analyzed in this batch:

15031443-01A	15031443-02A	15031443-03A
15031443-04A	15031443-05A	

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



ALS Laboratory Group

HOLLAND, Michigan 48424

Chain-of-Custody

Form 202r0

WORKORDER #

15031443

PROJECT NAME		PA 341-35 Backgrounds		SAMPLER				DATE				PAGE		1 of 1	
PROJECT No.		PA 341-35 Backgrounds		SITE ID		PA 341-35 Backgrounds		TURNAROUND		5 day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		WPX Energy		EDD FORMAT				Arsenic SAR, EC, pH							
SEND REPORT TO		Blaney		PURCHASE ORDER											
ADDRESS				BILL TO COMPANY		WPX Energy									
CITY / STATE / ZIP				INVOICE ATTN TO		Karolina Blaney; Leo Braun									
PHONE				ADDRESS		1058 Co Rd 215									
FAX				CITY / STATE / ZIP		Parachure CO 81635									
E-MAIL		Karolina.blaney@wpxenergy.com;		PHONE		870-883-2295									
				FAX											
Lab ID		Field ID		Matrix		Sample Date		Sample Time		# Bottles		Pres.		QC	
1		PA 341-35-B-1		S		3/24/2015		12:10		1				x x	
2		PA 341-35-B-2		S		3/24/2015		12:15		1				x	
3		PA 341-35-B-3		S		3/24/2015		12:20		1				x	
4		PA 341-35-B-4		S		3/24/2015		12:25		1				x	
5		PA 341-35-B-5		S		3/24/2015		12:30		1				x	

*Time Zone (Circle): EST CST MST PST Matric: 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)
	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	3/24/2015	18:00
RECEIVED BY [Signature]	[Signature]	3-24	1600
RELINQUISHED BY [Signature]	[Signature]	3-24-15	1630
RECEIVED BY [Signature]	T.S. DEAMISH	07/25/15	1030
RELINQUISHED BY [Signature]	KEVIN WIERENKA	3/25/15	1030
RECEIVED BY			

From: (616) 298-1033

Origin ID: RILA

Nick Martinez
ALS Environmental
127 E. 1st Street

PARACHUTE, CO 81635

FedEx
Express

J151215022303uv

Ship Date: 24MAR15

ActWgt: 54.0 LB

CAD: 2264840/NET3610

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 032415-1

Invoice #

PO #

Parachute

Dept #

SHIP TO: (616) 399-6070

BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

2 of 2

WED - 25 MAR 10:30A
PRIORITY OVERNIGHT

MP# 7732 0612 9684

0263

Mstr# 7732 0613 0037

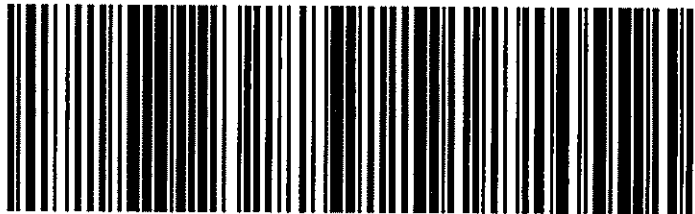
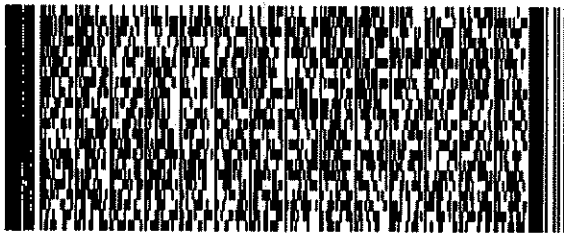
0261

XX HLMA

49424

MI-US

GRR



537J11679AVEE4B

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **25-Mar-15 10:30**

Work Order: **15031443**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

25-Mar-15
Date

Reviewed by: Chad Whelton
eSignature

25-Mar-15
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): 5.2 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 3/25/2015 2:39:13 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: