

33

CONFIRMATION SAMPLE POINT
(EXCAVATION 5)

TR 31 33 597 B-1

TR 31 33 597 B-2

TR 31 33 597 B-3

Excavated Area
= 73 ft²

0 50 100 Feet

0 10 20 Feet

WPXENERGY Sample Location Map: TR 31-33-597

39.575399 -108.280929
Section 33, Township 5 South, Range 97 West

● Sample Location	Transportation	Hydrography
▨ Impacted Area	— CO Highways	— Ditch
PLSS	— County Roads	— Intermittent Stream
▭ Township	— Local Streets	— Perennial Stream
▭ Section	— WPX Access	— Waterbody
		— Watershed



Author: B. Hall

Revision: 0

Date: 6/18/2014



17-Jun-2014

Mark Mumby
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **WPX TR 31-33-597 6.6.14**

Work Order: **1406422**

Dear Mark,

ALS Environmental received 1 sample on 09-Jun-2014 10:00 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,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
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 The ALS logo, a stylized blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 6.6.14
Work Order: 1406422

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>
1406422-01	Excavation 5 ft	Soil		6/6/2014 10:15	6/9/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc**Project:** WPX TR 31-33-597 6.6.14**Work Order:** 1406422**Case Narrative**

Batch 59537 sample Excavation 5 ft MS recovery for Nickel and MSD recovery for Arsenic were below control limits. Both the MS recovery for Arsenic and MSD recovery for Nickel and their RPDs met quality control criteria. No data requires qualification for Nickel and Arsenic. The MS recoveries for Barium and Zinc and MSD recovery for Chromium were outside control limits, however, the results in the parent sample were greater than 4x the spiked amount. No qualification is required for Barium Zinc, and Chromium.

Batch 59564 sample Excavation 5 ft MS/MSD recoveries for Hexavalent Chromium were below control limits. . The corresponding reporting limit in the parent sample may be biased low.

<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

<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: 17-Jun-14

Client: HRL Compliance Solutions, Inc

Project: WPX TR 31-33-597 6.6.14

Sample ID: Excavation 5 ft

Collection Date: 6/6/2014 10:15 AM

Work Order: 1406422

Lab ID: 1406422-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	34		SW8015M		Prep: SW3541 / 6/11/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>78.1</i>		<i>39-133</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2014 11:57 PM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 6/11/14	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>115</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	<i>6/12/2014 01:47 PM</i>
MERCURY BY CVAA						
Mercury	0.044		SW7471		Prep: SW7471 / 6/13/14	Analyst: LR
			0.019	mg/Kg-dry	1	6/13/2014 05:09 PM
METALS BY ICP-MS						
Arsenic	17		SW6020A		Prep: SW3050B / 6/10/14	Analyst: ML
Barium	480		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Cadmium	ND		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Chromium	44		1.1	mg/Kg-dry	5	6/12/2014 11:05 PM
Copper	32		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Lead	19		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Nickel	33		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Selenium	3.1		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Silver	ND		2.7	mg/Kg-dry	5	6/12/2014 11:05 PM
Zinc	59		5.3	mg/Kg-dry	5	6/12/2014 11:05 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 6/16/14	Analyst: RH
Calcium	65		10	mg/L	20	6/16/2014 05:00 PM
Magnesium	17		4.0	mg/L	20	6/16/2014 05:00 PM
Sodium	120		4.0	mg/L	20	6/16/2014 05:00 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 6/16/14	Analyst: RH
Sodium Adsorption Ratio	3.4		0.010	none	1	6/16/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 6/12/14	Analyst: RM
Acenaphthene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Acenaphthylene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Anthracene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Benzo(a)anthracene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Benzo(a)pyrene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Benzo(b)fluoranthene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Benzo(g,h,i)perylene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Benzo(k)fluoranthene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Chrysene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM

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

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc

Project: WPX TR 31-33-597 6.6.14

Sample ID: Excavation 5 ft

Collection Date: 6/6/2014 10:15 AM

Work Order: 1406422

Lab ID: 1406422-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Fluoranthene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Fluorene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Indeno(1,2,3-cd)pyrene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Naphthalene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Pyrene	ND		8.4	µg/Kg-dry	1	6/13/2014 12:34 PM
Surr: 2-Fluorobiphenyl	62.7		12-100	%REC	1	6/13/2014 12:34 PM
Surr: 4-Terphenyl-d14	89.7		25-137	%REC	1	6/13/2014 12:34 PM
Surr: Nitrobenzene-d5	54.9		37-107	%REC	1	6/13/2014 12:34 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 6/9/14	Analyst: BG	
Benzene	ND		38	µg/Kg-dry	1	6/12/2014 04:14 AM
Ethylbenzene	ND		38	µg/Kg-dry	1	6/12/2014 04:14 AM
m,p-Xylene	ND		77	µg/Kg-dry	1	6/12/2014 04:14 AM
o-Xylene	ND		38	µg/Kg-dry	1	6/12/2014 04:14 AM
Toluene	ND		38	µg/Kg-dry	1	6/12/2014 04:14 AM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/12/2014 04:14 AM
Surr: 1,2-Dichloroethane-d4	108		70-130	%REC	1	6/12/2014 04:14 AM
Surr: 4-Bromofluorobenzene	94.8		70-130	%REC	1	6/12/2014 04:14 AM
Surr: Dibromofluoromethane	93.8		70-130	%REC	1	6/12/2014 04:14 AM
Surr: Toluene-d8	95.4		70-130	%REC	1	6/12/2014 04:14 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 6/16/14	Analyst: JB	
Electrical Conductivity @ Saturation	1.3		0.050	mmhos/cm @25	10	6/16/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: JJG		
Chromium, Trivalent	44		0.64	mg/Kg-dry	1	6/17/2014 08:04 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 6/10/14	Analyst: JI	
Chromium, Hexavalent	ND		0.64	mg/Kg-dry	1	6/10/2014 08:00 PM
MOISTURE			A2540 G	Analyst: TM		
Moisture	22		0.050	% of sample	1	6/9/2014 04:34 PM
PH			SW9045D	Prep: EXTRACT / 6/10/14	Analyst: AT	
pH	7.9			s.u.	1	6/10/2014 05:00 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59572** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: DBLKS1-59572-59572				Units: mg/Kg		Analysis Date: 6/12/2014 02:28 AM		
Client ID:		Run ID: GC8_140611A				SeqNo: 2805892		Prep Date: 6/11/2014		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	1.89	0	2	0	94.5	39-133	0			

LCS		Sample ID: DLCSS1-59572-59572				Units: mg/Kg		Analysis Date: 6/12/2014 02:58 AM		
Client ID:		Run ID: GC8_140611A				SeqNo: 2805893		Prep Date: 6/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	182.4	5.0	200	0	91.2	61-109	0			
Surr: 4-Terphenyl-d14	1.548	0	2	0	77.4	39-133	0			

MS		Sample ID: 1406413-02C MS				Units: mg/Kg		Analysis Date: 6/12/2014 03:28 AM		
Client ID:		Run ID: GC8_140611A				SeqNo: 2805894		Prep Date: 6/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	292	8.3	330.7	0	88.3	48-110	0			
Surr: 4-Terphenyl-d14	2.586	0	3.307	0	78.2	39-133	0			

MSD		Sample ID: 1406413-02C MSD				Units: mg/Kg		Analysis Date: 6/12/2014 03:58 AM		
Client ID:		Run ID: GC8_140611A				SeqNo: 2805895		Prep Date: 6/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	270.5	8.0	318.4	0	84.9	48-110	292	7.65	30	
Surr: 4-Terphenyl-d14	2.616	0	3.184	0	82.2	39-133	2.586	1.14	30	

The following samples were analyzed in this batch: | 1406422-01B |

Client: HRL Compliance Solutions, Inc
 Work Order: 1406422
 Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59596** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-59596-59596				Units: µg/Kg		Analysis Date: 6/12/2014 01:22 PM		
Client ID:		Run ID: GC9_140612A				SeqNo: 2806072		Prep Date: 6/11/2014		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	5004	0	5000	0	100	50-150	0			

LCS		Sample ID: LCS-59596-59596				Units: µg/Kg		Analysis Date: 6/12/2014 12:56 PM		
Client ID:		Run ID: GC9_140612A				SeqNo: 2806071		Prep Date: 6/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	451400	2,500	500000	0	90.3	70-130	0			
Surr: Toluene-d8	5468	0	5000	0	109	50-150	0			

MS		Sample ID: 1406422-01A MS				Units: µg/Kg		Analysis Date: 6/12/2014 02:13 PM		
Client ID: Excavation 5 ft		Run ID: GC9_140612A				SeqNo: 2806074		Prep Date: 6/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	481700	2,500	500000	0	96.3	70-130	0			
Surr: Toluene-d8	5954	0	5000	0	119	50-150	0			

MSD		Sample ID: 1406422-01A MSD				Units: µg/Kg		Analysis Date: 6/12/2014 02:39 PM		
Client ID: Excavation 5 ft		Run ID: GC9_140612A				SeqNo: 2806075		Prep Date: 6/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	524100	2,500	500000	0	105	70-130	481700	8.42	30	
Surr: Toluene-d8	6455	0	5000	0	129	50-150	5954	8.07	30	

The following samples were analyzed in this batch:

1406422-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59672** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-59672-59672					Units: mg/Kg		Analysis Date: 6/13/2014 04:39 PM		
Client ID:			Run ID: HG1_140613A				SeqNo: 2807795		Prep Date: 6/13/2014		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-59672-59672					Units: mg/Kg		Analysis Date: 6/13/2014 04:41 PM		
Client ID:			Run ID: HG1_140613A			SeqNo: 2807796		Prep Date: 6/13/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1806 0.020 0.1665 0 108 80-120 0

MS		Sample ID: 1406396-01AMS					Units: mg/Kg		Analysis Date: 6/13/2014 04:50 PM		
Client ID:			Run ID: HG1_140613A			SeqNo: 2807800		Prep Date: 6/13/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1661 0.015 0.1236 0.03156 109 75-125 0

MSD		Sample ID: 1406396-01AMSD					Units: mg/Kg		Analysis Date: 6/13/2014 04:52 PM		
Client ID:			Run ID: HG1_140613A			SeqNo: 2807801		Prep Date: 6/13/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1574 0.015 0.1208 0.03156 104 75-125 0.1661 5.39 35

The following samples were analyzed in this batch:

1406422-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59537** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK				Sample ID: MBLK-59537-59537				Units: mg/Kg		Analysis Date: 6/12/2014 10:46 PM	
Client ID:			Run ID: ICPMS1_140612A			SeqNo: 2806497		Prep Date: 6/10/2014		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	0.1371	0.25								J	
Cadmium	ND	0.10									
Chromium	ND	0.25									
Copper	ND	0.25									
Lead	0.009635	0.25								J	
Nickel	ND	0.25									
Selenium	ND	0.25									
Silver	ND	0.25									
Zinc	0.04542	0.50								J	

LCS				Sample ID: LCS-59537-59537			Units: mg/Kg		Analysis Date: 6/12/2014 10:52 PM		
Client ID:			Run ID: ICPMS1_140612A			SeqNo: 2806498		Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.899	0.25	5	0	98	80-120	0				
Barium	4.898	0.25	5	0	98	80-120	0				
Cadmium	4.905	0.10	5	0	98.1	80-120	0				
Chromium	4.928	0.25	5	0	98.6	80-120	0				
Copper	4.799	0.25	5	0	96	80-120	0				
Lead	4.76	0.25	5	0	95.2	80-120	0				
Nickel	4.895	0.25	5	0	97.9	80-120	0				
Selenium	4.844	0.25	5	0	96.9	80-120	0				
Silver	4.832	0.25	5	0	96.6	80-120	0				
Zinc	4.814	0.50	5	0	96.3	80-120	0				

MS					Sample ID: 1406422-01BMS		Units: mg/Kg		Analysis Date: 6/12/2014 11:12 PM		
Client ID: Excavation 5 ft			Run ID: ICPMS1_140612A		SeqNo: 2806501		Prep Date: 6/10/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	22.19	2.0	8.052	13.64	106	75-125	0				
Barium	386.6	2.0	8.052	376.4	127	75-125	0			SO	
Cadmium	7.472	0.81	8.052	0.235	89.9	75-125	0				
Chromium	42.47	2.0	8.052	34.55	98.4	75-125	0			O	
Copper	33.43	2.0	8.052	24.94	105	75-125	0				
Lead	21.48	2.0	8.052	14.49	86.8	75-125	0				
Nickel	30.06	2.0	8.052	25.67	54.6	75-125	0			S	
Selenium	9.839	2.0	8.052	2.431	92	75-125	0				
Silver	7.275	2.0	8.052	0.1407	88.6	75-125	0				
Zinc	50.08	4.0	8.052	45.9	51.9	75-125	0			SO	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59537** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 1406422-01BMSD			Units: mg/Kg		Analysis Date: 6/12/2014 11:18 PM	
Client ID: Excavation 5 ft			Run ID: ICPMS1_140612A			SeqNo: 2806502		Prep Date: 6/10/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.83	2.0	8.183	13.64	63.4	75-125	22.19	16.4	25	S
Barium	386.5	2.0	8.183	376.4	124	75-125	386.6	0.0146	25	O
Cadmium	8.466	0.82	8.183	0.235	101	75-125	7.472	12.5	25	
Chromium	47.3	2.0	8.183	34.55	156	75-125	42.47	10.8	25	SO
Copper	32.17	2.0	8.183	24.94	88.4	75-125	33.43	3.83	25	
Lead	21.64	2.0	8.183	14.49	87.4	75-125	21.48	0.739	25	
Nickel	34.12	2.0	8.183	25.67	103	75-125	30.06	12.6	25	
Selenium	10.88	2.0	8.183	2.431	103	75-125	9.839	10	25	
Silver	7.819	2.0	8.183	0.1407	93.8	75-125	7.275	7.22	25	
Zinc	53.72	4.1	8.183	45.9	95.6	75-125	50.08	7.02	25	O

The following samples were analyzed in this batch: 1406422-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59671** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1406422-01CDUP				Units: mg/L		Analysis Date: 6/16/2014 05:06 PM		
Client ID: Excavation 5 ft		Run ID: ICPMS2_140616A				SeqNo: 2811295		Prep Date: 6/16/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	84.3	10	0	0	0	0-0	65.2	25.6		
Magnesium	21.78	4.0	0	0	0	0-0	16.73	26.2		
Sodium	177.6	4.0	0	0	0	0-0	120.5	38.3		

The following samples were analyzed in this batch:

1406422-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59602** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-59602-59602				Units: µg/Kg		Analysis Date: 6/12/2014 05:50 PM		
Client ID:		Run ID: SVMS6_140612A				SeqNo: 2807037		Prep Date: 6/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	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-Fluorobiphenyl</i>	1216	0	1667	0	73	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1697	0	1667	0	102	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1098	0	1667	0	65.9	37-107	0			

LCS		Sample ID: SLCSS1-59602-59602				Units: µg/Kg		Analysis Date: 6/12/2014 06:11 PM		
Client ID:		Run ID: SVMS6_140612A				SeqNo: 2807038		Prep Date: 6/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	473.3	6.7	666.7	0	71	45-110	0			
Acenaphthylene	512.3	6.7	666.7	0	76.8	45-105	0			
Anthracene	612.3	6.7	666.7	0	91.8	55-105	0			
Benzo(a)anthracene	598.7	6.7	666.7	0	89.8	50-110	0			
Benzo(a)pyrene	601	6.7	666.7	0	90.1	50-110	0			
Benzo(b)fluoranthene	603.3	6.7	666.7	0	90.5	45-115	0			
Benzo(g,h,i)perylene	570	6.7	666.7	0	85.5	40-125	0			
Benzo(k)fluoranthene	593.7	6.7	666.7	0	89	45-115	0			
Chrysene	588	6.7	666.7	0	88.2	55-110	0			
Dibenzo(a,h)anthracene	589.7	6.7	666.7	0	88.4	40-125	0			
Fluoranthene	649.3	6.7	666.7	0	97.4	55-115	0			
Fluorene	533.7	6.7	666.7	0	80	50-110	0			
Indeno(1,2,3-cd)pyrene	600.3	6.7	666.7	0	90	40-120	0			
Naphthalene	461.7	6.7	666.7	0	69.2	40-105	0			
Pyrene	635	6.7	666.7	0	95.2	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1147	0	1667	0	68.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1753	0	1667	0	105	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1021	0	1667	0	61.3	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59602** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1406469-05C MS			Units: µg/Kg		Analysis Date: 6/12/2014 07:02 PM	
Client ID:				Run ID: SVMS6_140612A			SeqNo: 2807039		Prep Date: 6/12/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	989.6	13	1326	0	74.6	45-110	0			
Acenaphthylene	1045	13	1326	0	78.8	45-105	0			
Anthracene	1210	13	1326	0	91.3	55-105	0			
Benzo(a)anthracene	1182	13	1326	0	89.1	50-110	0			
Benzo(a)pyrene	1190	13	1326	0	89.7	50-110	0			
Benzo(b)fluoranthene	1208	13	1326	0	91.1	45-115	0			
Benzo(g,h,i)perylene	1199	13	1326	0	90.4	40-125	0			
Benzo(k)fluoranthene	1178	13	1326	0	88.9	45-115	0			
Chrysene	1174	13	1326	0	88.5	55-110	0			
Dibenzo(a,h)anthracene	1203	13	1326	0	90.7	40-125	0			
Fluoranthene	1268	13	1326	3.6	95.4	55-115	0			
Fluorene	1096	13	1326	0	82.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1218	13	1326	0	91.9	40-120	0			
Naphthalene	943.2	13	1326	0	71.1	40-105	0			
Pyrene	1252	13	1326	0	94.4	45-125	0			
Surr: 2-Fluorobiphenyl	2335	0	3314	0	70.5	12-100	0			
Surr: 4-Terphenyl-d14	3423	0	3314	0	103	25-137	0			
Surr: Nitrobenzene-d5	2114	0	3314	0	63.8	37-107	0			

MSD				Sample ID: 1406469-05C MSD			Units: µg/Kg		Analysis Date: 6/12/2014 07:23 PM	
Client ID:				Run ID: SVMS6_140612A			SeqNo: 2807040		Prep Date: 6/12/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	941.4	13	1294	0	72.7	45-110	989.6	4.99	30	
Acenaphthylene	981.6	13	1294	0	75.8	45-105	1045	6.22	30	
Anthracene	1179	13	1294	0	91.1	55-105	1210	2.63	30	
Benzo(a)anthracene	1128	13	1294	0	87.1	50-110	1182	4.68	30	
Benzo(a)pyrene	1143	13	1294	0	88.3	50-110	1190	4.04	30	
Benzo(b)fluoranthene	1162	13	1294	0	89.8	45-115	1208	3.85	30	
Benzo(g,h,i)perylene	1060	13	1294	0	81.9	40-125	1199	12.3	30	
Benzo(k)fluoranthene	1148	13	1294	0	88.7	45-115	1178	2.63	30	
Chrysene	1105	13	1294	0	85.4	55-110	1174	6.03	30	
Dibenzo(a,h)anthracene	1099	13	1294	0	84.9	40-125	1203	9.01	30	
Fluoranthene	1237	13	1294	3.6	95.3	55-115	1268	2.46	30	
Fluorene	1067	13	1294	0	82.4	50-110	1096	2.65	30	
Indeno(1,2,3-cd)pyrene	1137	13	1294	0	87.9	40-120	1218	6.86	30	
Naphthalene	847	13	1294	0	65.4	40-105	943.2	10.7	30	
Pyrene	1220	13	1294	0	94.2	45-125	1252	2.62	30	
Surr: 2-Fluorobiphenyl	2132	0	3235	0	65.9	12-100	2335	9.09	40	
Surr: 4-Terphenyl-d14	3355	0	3235	0	104	25-137	3423	2.02	40	
Surr: Nitrobenzene-d5	1849	0	3235	0	57.2	37-107	2114	13.3	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59602** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch:

1406422-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1406422
 Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59475** Instrument ID **VMS8** Method: **SW8260B**

MBLK				Sample ID: MBLK-59475-59475				Units: µg/Kg			Analysis Date: 6/9/2014 01:00 PM			
Client ID:				Run ID: VMS8_140609A				SeqNo: 2801374			Prep Date: 6/9/2014		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	840	0	1000	0	84	70-130		0						
Surr: 4-Bromofluorobenzene	885	0	1000	0	88.5	70-130		0						
Surr: Dibromofluoromethane	891	0	1000	0	89.1	70-130		0						
Surr: Toluene-d8	925.5	0	1000	0	92.6	70-130		0						

LCS				Sample ID: LCS-59475-59475				Units: µg/Kg		Analysis Date: 6/9/2014 10:31 AM	
Client ID:		Run ID: VMS8_140609A			SeqNo: 2801369		Prep Date: 6/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	949	30	1000	0	94.9	75-125	0				
Ethylbenzene	1072	30	1000	0	107	75-125	0				
m,p-Xylene	2128	60	2000	0	106	80-125	0				
o-Xylene	1066	30	1000	0	107	75-125	0				
Toluene	1044	30	1000	0	104	70-125	0				
Xylenes, Total	3193	90	3000	0	106	75-125	0				
Surr: 1,2-Dichloroethane-d4	856	0	1000	0	85.6	70-130	0				
Surr: 4-Bromofluorobenzene	908	0	1000	0	90.8	70-130	0				
Surr: Dibromofluoromethane	938.5	0	1000	0	93.8	70-130	0				
Surr: Toluene-d8	921.5	0	1000	0	92.2	70-130	0				

MS				Sample ID: 1406381-02A MS			Units: µg/Kg		Analysis Date: 6/10/2014 08:40 PM		
Client ID:			Run ID: VMS7_140610A			SeqNo: 2803581		Prep Date: 6/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1006	30	1000	0	101	75-125	0				
Ethylbenzene	992.5	30	1000	0	99.2	75-125	0				
m,p-Xylene	2002	60	2000	0	100	80-125	0				
o-Xylene	979.5	30	1000	0	98	75-125	0				
Toluene	976	30	1000	0	97.6	70-125	0				
Xylenes, Total	2982	90	3000	0	99.4	75-125	0				
Surr: 1,2-Dichloroethane-d4	943	0	1000	0	94.3	70-130	0				
Surr: 4-Bromofluorobenzene	994	0	1000	0	99.4	70-130	0				
Surr: Dibromofluoromethane	965.5	0	1000	0	96.6	70-130	0				
Surr: Toluene-d8	949	0	1000	0	94.9	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59475** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 1406381-02A MSD			Units: µg/Kg		Analysis Date: 6/10/2014 09:06 PM	
Client ID:				Run ID: VMS7_140610A			SeqNo: 2803582		Prep Date: 6/9/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1006	30	1000	0	101	75-125	1006	0.0497	30	
Ethylbenzene	993.5	30	1000	0	99.4	75-125	992.5	0.101	30	
m,p-Xylene	2032	60	2000	0	102	80-125	2002	1.46	30	
o-Xylene	995.5	30	1000	0	99.6	75-125	979.5	1.62	30	
Toluene	977.5	30	1000	0	97.8	70-125	976	0.154	30	
Xylenes, Total	3027	90	3000	0	101	75-125	2982	1.51	30	
Surr: 1,2-Dichloroethane-d4	958	0	1000	0	95.8	70-130	943	1.58	30	
Surr: 4-Bromofluorobenzene	1016	0	1000	0	102	70-130	994	2.24	30	
Surr: Dibromofluoromethane	972.5	0	1000	0	97.2	70-130	965.5	0.722	30	
Surr: Toluene-d8	972	0	1000	0	97.2	70-130	949	2.39	30	

The following samples were analyzed in this batch: 1406422-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59543** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-59543-59543					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:			Run ID: WETCHEM_140610P			SeqNo: 2803002		Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	3.96	0	4	0	99	90-110	0			
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DUP		Sample ID: 1406296-01C DUP					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:		Run ID: WETCHEM_140610P			SeqNo: 2803006		Prep Date: 6/10/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	6.66	0	0	0	0	0-0	6.63	0.451	20	
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DUP		Sample ID: 1406319-03A DUP					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:			Run ID: WETCHEM_140610P			SeqNo: 2803014		Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	7.73	0	0	0	0	0-0	7.67	0.779	20	
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The following samples were analyzed in this batch:

1406422-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59564** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-59564-59564				Units: mg/Kg		Analysis Date: 6/10/2014 08:00 PM		
Client ID:		Run ID: WETCHEM_140610N				SeqNo: 2802925		Prep Date: 6/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.49

LCS		Sample ID: LCS-59564-59564				Units: mg/Kg		Analysis Date: 6/10/2014 08:00 PM		
Client ID:		Run ID: WETCHEM_140610N				SeqNo: 2802926		Prep Date: 6/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.809 0.49 1.946 0 93 80-120 0

MS		Sample ID: 1406422-01BMS				Units: mg/Kg		Analysis Date: 6/10/2014 08:00 PM		
Client ID: Excavation 5 ft		Run ID: WETCHEM_140610N				SeqNo: 2802934		Prep Date: 6/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.792 0.50 2 0 39.6 75-125 0 S

MS		Sample ID: 1406422-01BMSI				Units: mg/Kg		Analysis Date: 6/10/2014 08:00 PM		
Client ID: Excavation 5 ft		Run ID: WETCHEM_140610N				SeqNo: 2802936		Prep Date: 6/10/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 996.8 49 1551 0 64.3 75-125 0 S

MSD		Sample ID: 1406422-01BMSD				Units: mg/Kg		Analysis Date: 6/10/2014 08:00 PM		
Client ID: Excavation 5 ft		Run ID: WETCHEM_140610N				SeqNo: 2802935		Prep Date: 6/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.8373 0.50 1.984 0 42.2 75-125 0.792 5.56 20 S

The following samples were analyzed in this batch:

1406422-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **59671** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1406422-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 6/16/2014 03:00 PM		
Client ID: Excavation 5 ft			Run ID: WETCHEM_140616J			SeqNo: 2810265		Prep Date: 6/16/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.292	0.050	0	0	0		1.283	0.699	50	

The following samples were analyzed in this batch:

1406422-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406422
Project: WPX TR 31-33-597 6.6.14

QC BATCH REPORT

Batch ID: **R142388** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R142388				Units: % of sample		Analysis Date: 6/9/2014 04:34 PM		
Client ID:		Run ID: MOIST_140609H				SeqNo: 2802826		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-R142388				Units: % of sample		Analysis Date: 6/9/2014 04:34 PM		
Client ID:		Run ID: MOIST_140609H				SeqNo: 2802825		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: 1406373-10A DUP				Units: % of sample		Analysis Date: 6/9/2014 04:34 PM		
Client ID:		Run ID: MOIST_140609H				SeqNo: 2802808		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 10.56 0.050 0 0 0 0-0 11 4.08 20

DUP		Sample ID: 1406422-01B DUP				Units: % of sample		Analysis Date: 6/9/2014 04:34 PM		
Client ID: Excavation 5 ft		Run ID: MOIST_140609H				SeqNo: 2802824		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 21.66 0.050 0 0 0 0-0 22.03 1.69 20

The following samples were analyzed in this batch:

1406422-01B

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



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

1406422

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

WPXTR31-33-597

SAMPLER

Reed Wold

DATE

6/6/14

SITE ID

TR31-33-597

TURNAROUND

5 day

PROJECT No.

Carbonate leak

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL Compliance

BILL TO COMPANY

WPX

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

Karolina Blaney

ADDRESS

2385 F 1/2 Rd

ADDRESS

1058 Co Rd 215

CITY / STATE / ZIP

Grand Junction, CO 81506

CITY / STATE / ZIP

Parachute CO 81635

PHONE

970-243-3271

PHONE

970-683-2295

FAX

970-243-3280

FAX

E-MAIL

mmumby@hrlcomp.com
rwold@hrlcomp.com

E-MAIL

Karolina.blaney@wpxenergy.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

Excavation sft

so

6/6/14

10:15

3

8

X 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:

19.2'

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

Reed Wold

Reed Wold

6/6/14

2:00

RECEIVED BY

WV

WV

6-6-14

2:00

RELINQUISHED BY

N.M.

WV

6-6-14

2:10

RECEIVED BY

Diane F. Shaw

Diane F. Shaw

6/9/14

1000

RELINQUISHED BY

RECEIVED BY

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 09-Jun-14 10:00

Work Order: 1406422

Received by: DS

Checklist completed by <u>Diane Shaw</u>	09-Jun-14	Reviewed by: <u>Chad Whelton</u>	10-Jun-14
eSignature	Date	eSignature	Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>19.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/9/2014 2:07:31 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

PARACHUTE, CO B1635



Dim: 24 X 15 X 15 IN

BILL SENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 060614-1
Invoice #
PO # Parachute
Decl #

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRKN 7702 2751 2314

0201

XO GRRA

49424
ML-US
GRR



42205511C14220

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.

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.



17-Jun-2014

Mark Mumby
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **WPX TR 31-33-597 Condensate Leak 6.6.14**

Work Order: **1406423**

Dear Mark,

ALS Environmental received 3 samples on 09-Jun-2014 10:00 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 16.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
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: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Work Order: 1406423

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>
1406423-01	TR 31-33-597-B-1	Soil		6/6/2014 10:30	6/9/2014 10:00	<input type="checkbox"/>
1406423-02	TR 31-33-597-B-2	Soil		6/6/2014 10:35	6/9/2014 10:00	<input type="checkbox"/>
1406423-03	TR 31-33-597-B-3	Soil		6/6/2014 10:40	6/9/2014 10:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Work Order: 1406423

Case Narrative

Batch 59537 MS/MSD data for Arsenic is not related to this project's samples. No data requires qualification.

<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

<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: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Sample ID: TR 31-33-597-B-1
Collection Date: 6/6/2014 10:30 AM

Work Order: 1406423
Lab ID: 1406423-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/10/14	Analyst: ML
Arsenic	7.1		2.5	mg/Kg-dry	5	6/13/2014 02:07 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	38		0.050	% of sample	1	6/10/2014 08:10 PM

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

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Sample ID: TR 31-33-597-B-2
Collection Date: 6/6/2014 10:35 AM

Work Order: 1406423
Lab ID: 1406423-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/11/14	Analyst: ML
Arsenic	7.1		2.7	mg/Kg-dry	5	6/12/2014 07:05 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	34		0.050	% of sample	1	6/10/2014 08:10 PM

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

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Sample ID: TR 31-33-597-B-3
Collection Date: 6/6/2014 10:40 AM

Work Order: 1406423
Lab ID: 1406423-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/11/14	Analyst: ML
Arsenic	7.7		2.4	mg/Kg-dry	5	6/12/2014 07:12 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 6/16/14	Analyst: RH
Calcium	140		10	mg/L	20	6/16/2014 05:12 PM
Magnesium	8.0		4.0	mg/L	20	6/16/2014 05:12 PM
Sodium	8.8		4.0	mg/L	20	6/16/2014 05:12 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 6/16/14	Analyst: RH
Sodium Adsorption Ratio	0.20		0.010	none	1	6/16/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 6/16/14	Analyst: JB
Electrical Conductivity @ Saturation	0.94		0.050	mmhos/cm @25	10	6/16/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	26		0.050	% of sample	1	6/10/2014 08:10 PM
PH			SW9045D		Prep: EXTRACT / 6/10/14	Analyst: AT
pH	7.5			s.u.	1	6/10/2014 05:00 PM

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

Client: HRL Compliance Solutions, Inc

Work Order: 1406423

Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59537**

Instrument ID **ICPMS1**

Method: **SW6020A**

MBLK		Sample ID: MBLK-59537-59537				Units: mg/Kg		Analysis Date: 6/12/2014 10:46 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806497		Prep Date: 6/10/2014		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-59537-59537				Units: mg/Kg		Analysis Date: 6/12/2014 10:52 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806498		Prep Date: 6/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.899	0.25	5	0	98	80-120	0			

MS		Sample ID: 1406422-01BMS				Units: mg/Kg		Analysis Date: 6/12/2014 11:12 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806501		Prep Date: 6/10/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.19	2.0	8.052	13.64	106	75-125	0			

MSD		Sample ID: 1406422-01BMSD				Units: mg/Kg		Analysis Date: 6/12/2014 11:18 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806502		Prep Date: 6/10/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.83	2.0	8.183	13.64	63.4	75-125	22.19	16.4	25	S

The following samples were analyzed in this batch:

1406423-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59590** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-59590-59590					Units: mg/Kg		Analysis Date: 6/12/2014 05:16 PM		
Client ID:			Run ID: ICPMS1_140612A			SeqNo: 2806420		Prep Date: 6/11/2014		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-59590-59590					Units: mg/Kg		Analysis Date: 6/12/2014 05:24 PM		
Client ID:			Run ID: ICPMS1_140612A			SeqNo: 2806421		Prep Date: 6/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 4.666 0.25 5 0 93.3 80-120 0

MS		Sample ID: 1406457-01AMS					Units: mg/Kg		Analysis Date: 6/13/2014 03:30 PM		
Client ID:			Run ID: ICPMS1_140613A			SeqNo: 2807897		Prep Date: 6/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 6.818 0.36 7.257 0.7268 83.9 75-125 0

MSD		Sample ID: 1406457-01AMSD				Units: mg/Kg		Analysis Date: 6/13/2014 03:36 PM		
Client ID:		Run ID: ICPMS1_140613A			SeqNo: 2807898		Prep Date: 6/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 6.647 0.37 7.364 0.7268 80.4 75-125 6.818 2.54 25

The following samples were analyzed in this batch:

1406423-02A 1406423-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59671** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1406422-01CDUP				Units: mg/L		Analysis Date: 6/16/2014 05:06 PM		
Client ID:		Run ID: ICPMS2_140616A				SeqNo: 2811295		Prep Date: 6/16/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	84.3	10	0	0	0	0-0	65.2	25.6		
Magnesium	21.78	4.0	0	0	0	0-0	16.73	26.2		
Sodium	177.6	4.0	0	0	0	0-0	120.5	38.3		

The following samples were analyzed in this batch:

1406423-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59543** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-59543-59543					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:			Run ID: WETCHEM_140610P			SeqNo: 2803002		Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 3.96 0 4 0 99 90-110 0

DUP		Sample ID: 1406296-01C DUP					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:		Run ID: WETCHEM_140610P			SeqNo: 2803006		Prep Date: 6/10/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 6.66 0 0 0 0 0-0 6.63 0.451 20

DUP				Sample ID: 1406319-03A DUP				Units: s.u.			Analysis Date: 6/10/2014 05:00 PM			
Client ID:				Run ID: WETCHEM_140610P				SeqNo: 2803014			Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH 7.73 0 0 0 0 0-0 7.67 0.779 20

The following samples were analyzed in this batch:

1406423-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59671** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1406422-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 6/16/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140616J				SeqNo: 2810265		Prep Date: 6/16/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.292	0.050	0	0	0		1.283	0.699	50	

The following samples were analyzed in this batch:

1406423-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **R142450** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R142450					Units: % of sample		Analysis Date: 6/10/2014 08:10 PM		
Client ID:			Run ID: MOIST_140610D			SeqNo: 2803981		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-R142450					Units: % of sample		Analysis Date: 6/10/2014 08:10 PM		
Client ID:			Run ID: MOIST_140610D			SeqNo: 2803979		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: 1406424-01A DUP				Units: % of sample			Analysis Date: 6/10/2014 08:10 PM			
Client ID:				Run ID: MOIST_140610D				SeqNo: 2803973			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 43.73 0.050 0 0 0 0-0 43.9 0.388 20

DUP				Sample ID: 1406425-01B DUP				Units: % of sample			Analysis Date: 6/10/2014 08:10 PM			
Client ID:				Run ID: MOIST_140610D				SeqNo: 2803977			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.29 0.050 0 0 0 0-0 8.1 2.32 20

The following samples were analyzed in this batch:

1406423-01A	1406423-02A	1406423-03A
-------------	-------------	-------------

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



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

1406423

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

WPX TR31-33-597

SAMPLER

Reed Wold

DATE

6/6/14

SITE ID

TR31-33-597

TURNAROUND

5 day

PROJECT No.

Carbonate leak

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL Compliance

BILL TO COMPANY

WPX

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

Karolina Blaney

ADDRESS

2385 F 1/2 Rd

ADDRESS

1058 Co Rd 215

CITY / STATE / ZIP

Grand Junction, CO 81508

CITY / STATE / ZIP

Parachute CO 81635

PHONE

970-243-3271

PHONE

970-683-2295

FAX

970-243-3280

FAX

E-MAIL

mmumby@hrlcomp.com
 rwold@hrlcomp.com

E-MAIL

Karolina.blaney@wpenergy.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

TR31-33-597-B-1

SO

6/6/14

10:30

1

8

X

2

TR31-33-597-B-2

↓

↓

10:35

1

8

X

3

TR31-33-597-B-3

↓

↓

10:40

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:

19.2°C

@

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-NaHCO4 7-Other 8-4 degrees C 9-5035

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Reed Wold

Reed Wold

6/6/14 2:00

RECEIVED BY

MA

MA

6/6/14 2:00

RELINQUISHED BY

MA

MA

6/6/14 2:10

RECEIVED BY

Diane F. Shaw

Diane F. Shaw

6/9/14 10:00

RELINQUISHED BY

RECEIVED BY

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **09-Jun-14 10:00**

Work Order: **1406423**

Received by: **DS**

Checklist completed by <u>Diane Shaw</u>	09-Jun-14	Reviewed by: <u>Chad Whelton</u>	10-Jun-14
eSignature	Date	eSignature	Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>19.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/9/2014 2:11:16 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (970) 285-5783
 Nick Martinez
 ALS Environmental
 127 E. 1st Street
 PARACHUTE, CO 81835

Origin ID: RILA



Ship Date: 06JUN14
 ActWgt: 55.0 LB
 CAD: 2284840/NET3490

Dims: 24 X 15 X 15 IN

SHIP TO: (816) 399-6070
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 080614-1
 Invoice #
 PO # Parachute
 Dept #

SATURDAY 12:00P
 PRIORITY OVERNIGHT

TRK# 7702 2751 2314
 0201

49424
 MI-US
 GRR

X0 GRR



5220568C4F220

After printing this label:

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17-Jun-2014

Mark Mumby
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **WPX TR 31-33-597 Condensate Leak 6.6.14**

Work Order: **1406423**

Dear Mark,

ALS Environmental received 3 samples on 09-Jun-2014 10:00 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 16.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
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 The ALS logo, a small blue triangle with a yellow flame-like shape inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Work Order: 1406423

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>
1406423-01	TR 31-33-597-B-1	Soil		6/6/2014 10:30	6/9/2014 10:00	<input type="checkbox"/>
1406423-02	TR 31-33-597-B-2	Soil		6/6/2014 10:35	6/9/2014 10:00	<input type="checkbox"/>
1406423-03	TR 31-33-597-B-3	Soil		6/6/2014 10:40	6/9/2014 10:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Work Order: 1406423

Case Narrative

Batch 59537 MS/MSD data for Arsenic is not related to this project's samples. No data requires qualification.

<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

<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: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Sample ID: TR 31-33-597-B-1
Collection Date: 6/6/2014 10:30 AM

Work Order: 1406423
Lab ID: 1406423-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/10/14	Analyst: ML
Arsenic	7.1		2.5	mg/Kg-dry	5	6/13/2014 02:07 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	38		0.050	% of sample	1	6/10/2014 08:10 PM

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

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Sample ID: TR 31-33-597-B-2
Collection Date: 6/6/2014 10:35 AM

Work Order: 1406423
Lab ID: 1406423-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/11/14	Analyst: ML
Arsenic	7.1		2.7	mg/Kg-dry	5	6/12/2014 07:05 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	34		0.050	% of sample	1	6/10/2014 08:10 PM

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

ALS Group USA, Corp

Date: 17-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-33-597 Condensate Leak 6.6.14
Sample ID: TR 31-33-597-B-3
Collection Date: 6/6/2014 10:40 AM

Work Order: 1406423
Lab ID: 1406423-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/11/14	Analyst: ML
Arsenic	7.7		2.4	mg/Kg-dry	5	6/12/2014 07:12 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 6/16/14	Analyst: RH
Calcium	140		10	mg/L	20	6/16/2014 05:12 PM
Magnesium	8.0		4.0	mg/L	20	6/16/2014 05:12 PM
Sodium	8.8		4.0	mg/L	20	6/16/2014 05:12 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 6/16/14	Analyst: RH
Sodium Adsorption Ratio	0.20		0.010	none	1	6/16/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 6/16/14	Analyst: JB
Electrical Conductivity @ Saturation	0.94		0.050	mmhos/cm @25	10	6/16/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	26		0.050	% of sample	1	6/10/2014 08:10 PM
PH			SW9045D		Prep: EXTRACT / 6/10/14	Analyst: AT
pH	7.5			s.u.	1	6/10/2014 05:00 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1406423

Project: WPX TR 31-33-597 Condensate Leak 6.6.14

Batch ID: 59537

Instrument ID ICPMS1

Method: SW6020A

MBLK		Sample ID: MBLK-59537-59537				Units: mg/Kg		Analysis Date: 6/12/2014 10:46 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806497		Prep Date: 6/10/2014		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-59537-59537				Units: mg/Kg		Analysis Date: 6/12/2014 10:52 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806498		Prep Date: 6/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.899	0.25	5	0	98	80-120	0			

MS		Sample ID: 1406422-01BMS				Units: mg/Kg		Analysis Date: 6/12/2014 11:12 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806501		Prep Date: 6/10/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.19	2.0	8.052	13.64	106	75-125	0			

MSD		Sample ID: 1406422-01BMSD				Units: mg/Kg		Analysis Date: 6/12/2014 11:18 PM		
Client ID:		Run ID: ICPMS1_140612A				SeqNo: 2806502		Prep Date: 6/10/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.83	2.0	8.183	13.64	63.4	75-125	22.19	16.4	25	S

The following samples were analyzed in this batch:

1406423-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59590** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-59590-59590					Units: mg/Kg		Analysis Date: 6/12/2014 05:16 PM		
Client ID:			Run ID: ICPMS1_140612A			SeqNo: 2806420		Prep Date: 6/11/2014		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-59590-59590					Units: mg/Kg		Analysis Date: 6/12/2014 05:24 PM		
Client ID:			Run ID: ICPMS1_140612A			SeqNo: 2806421		Prep Date: 6/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 4.666 0.25 5 0 93.3 80-120 0

MS		Sample ID: 1406457-01AMS					Units: mg/Kg		Analysis Date: 6/13/2014 03:30 PM		
Client ID:			Run ID: ICPMS1_140613A			SeqNo: 2807897		Prep Date: 6/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 6.818 0.36 7.257 0.7268 83.9 75-125 0

MSD		Sample ID: 1406457-01AMSD				Units: mg/Kg		Analysis Date: 6/13/2014 03:36 PM		
Client ID:		Run ID: ICPMS1_140613A			SeqNo: 2807898		Prep Date: 6/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 6.647 0.37 7.364 0.7268 80.4 75-125 6.818 2.54 25

The following samples were analyzed in this batch:

1406423-02A 1406423-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59671** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1406422-01CDUP				Units: mg/L		Analysis Date: 6/16/2014 05:06 PM		
Client ID:		Run ID: ICPMS2_140616A				SeqNo: 2811295		Prep Date: 6/16/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	84.3	10	0	0	0	0-0	65.2	25.6		
Magnesium	21.78	4.0	0	0	0	0-0	16.73	26.2		
Sodium	177.6	4.0	0	0	0	0-0	120.5	38.3		

The following samples were analyzed in this batch:

1406423-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59543** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-59543-59543					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:			Run ID: WETCHEM_140610P			SeqNo: 2803002		Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 3.96 0 4 0 99 90-110 0

DUP		Sample ID: 1406296-01C DUP					Units: s.u.		Analysis Date: 6/10/2014 05:00 PM		
Client ID:		Run ID: WETCHEM_140610P			SeqNo: 2803006		Prep Date: 6/10/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 6.66 0 0 0 0 0-0 6.63 0.451 20

DUP				Sample ID: 1406319-03A DUP				Units: s.u.			Analysis Date: 6/10/2014 05:00 PM			
Client ID:				Run ID: WETCHEM_140610P				SeqNo: 2803014			Prep Date: 6/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH 7.73 0 0 0 0 0-0 7.67 0.779 20

The following samples were analyzed in this batch:

1406423-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **59671** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1406422-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 6/16/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140616J				SeqNo: 2810265		Prep Date: 6/16/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.292	0.050	0	0	0		1.283	0.699	50	

The following samples were analyzed in this batch:

1406423-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406423
Project: WPX TR 31-33-597 Condensate Leak 6.6.14

QC BATCH REPORT

Batch ID: **R142450** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R142450					Units: % of sample		Analysis Date: 6/10/2014 08:10 PM		
Client ID:			Run ID: MOIST_140610D			SeqNo: 2803981		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-R142450					Units: % of sample		Analysis Date: 6/10/2014 08:10 PM		
Client ID:			Run ID: MOIST_140610D			SeqNo: 2803979		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: 1406424-01A DUP				Units: % of sample			Analysis Date: 6/10/2014 08:10 PM			
Client ID:				Run ID: MOIST_140610D				SeqNo: 2803973			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 43.73 0.050 0 0 0 0-0 43.9 0.388 20

DUP				Sample ID: 1406425-01B DUP				Units: % of sample			Analysis Date: 6/10/2014 08:10 PM			
Client ID:				Run ID: MOIST_140610D				SeqNo: 2803977			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.29 0.050 0 0 0 0-0 8.1 2.32 20

The following samples were analyzed in this batch:

1406423-01A	1406423-02A	1406423-03A
-------------	-------------	-------------

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



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

1406423

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

WPX TR31-33-597

SAMPLER

Reed Wold

DATE

6/6/14

SITE ID

TR31-33-597

TURNAROUND

5 day

PROJECT No.

Carbonate leak

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL Compliance

BILL TO COMPANY

WPX

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

Karolina Blaney

ADDRESS

2385 F 1/2 Rd

ADDRESS

1058 Co Rd 215

CITY / STATE / ZIP

Grand Junction, CO 81508

CITY / STATE / ZIP

Parachute CO 81635

PHONE

970-243-3271

PHONE

970-683-2295

FAX

970-243-3280

FAX

E-MAIL

mmumby@hrlcomp.com
rwold@hrlcomp.com

E-MAIL

Karolina.blaney@wpenergy.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

TR31-33-597-B-1

SO

6/6/14

10:30

1

8

X

2

TR31-33-597-B-2

↓

↓

10:35

1

8

X

3

TR31-33-597-B-3

↓

↓

10:40

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:

19.2°C

@

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-NaHCO4 7-Other 8-4 degrees C 9-5035

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Reed Wold

Reed Wold

6/6/14 2:00

RECEIVED BY

MA

MA

6/6/14 2:00

RELINQUISHED BY

MA

MA

6/6/14 2:10

RECEIVED BY

Diane F. Shaw

Diane F. Shaw

6/9/14 10:00

RELINQUISHED BY

RECEIVED BY

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **09-Jun-14 10:00**

Work Order: **1406423**

Received by: **DS**

Checklist completed by <u>Diane Shaw</u>	09-Jun-14	Reviewed by: <u>Chad Whelton</u>	10-Jun-14
eSignature	Date	eSignature	Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>19.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/9/2014 2:11:16 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (970) 285-5783
 Nick Martinez
 ALS Environmental
 127 E. 1st Street
 PARACHUTE, CO 81835

Origin ID: RILA



Ship Date: 06JUN14
 ActWgt: 55.0 LB
 CAD: 2284840/NET3490

Dims: 24 X 15 X 15 IN

SHIP TO: (816) 399-6070
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 080614-1
 Invoice #
 PO # Parachute
 Dept #

SATURDAY 12:00P
 PRIORITY OVERNIGHT

TRK# 7702 2751 2314
 0201

49424
 MI-US
 GRR

X0 GRR



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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CESQC		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address WPX Energy 1058 CR 215 Parachute, CO 81635							
4. Generator's Phone (970) 683-2295							
5. Transporter 1 Company Name Accurate				6. US EPA ID Number		A. State Transporter's ID	
						B. Transporter 1 Phone	
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID	
						D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Green Leaf 15655 45 1/2				10. US EPA ID Number		E. State Facility's ID	
						F. Facility's Phone 9702838992	
11. WASTE DESCRIPTION DeBeque, CO 81630				Containers No. Type		13. Total Quantity	
a. E&P Waste impacted soil				1 TRK		9 Yds	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above Waste meets 40 CFR 261.4 (b)(5) TR 31-33-597 pad LOE				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Karolina Blaney				Signature Karolina Blaney		Date 06/16/14	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name John Powers		Signature [Signature]	
						Date 06/16/14	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
						Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name Joseph Drew				Signature [Signature]		Date 6/18/14	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

