



WPXENERGY Sample Location Map: RG 23-14-298

39.873906 -108.364176
Section 14, Township 2 South, Range 98 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: 10/1/2014



15-Sep-2014

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

Re: **WPX RG 23-14-298 9.5.14**

Work Order: **1409293**

Dear Mark,

ALS Environmental received 1 sample on 06-Sep-2014 11:40 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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RG 23-14-298 9.5.14
Work Order: 1409293

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>
1409293-01	CS 01			9/5/2014 11:23	9/6/2014 11:40	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc**Project:** WPX RG 23-14-298 9.5.14**Work Order:** 1409293**Case Narrative**

Batch 62575 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 62590 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 62642 MS/MSD data for Hexavalent Chromium 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
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: 15-Sep-14

Client: HRL Compliance Solutions, Inc

Project: WPX RG 23-14-298 9.5.14

Sample ID: CS 01

Collection Date: 9/5/2014 11:23 AM

Work Order: 1409293

Lab ID: 1409293-01

Matrix:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	93		SW8015M		Prep: SW3541 / 9/10/14	Analyst: IT
Surr: 4-Terphenyl-d14	87.9		4.6	mg/Kg-dry	1	9/13/2014 05:07 PM
			39-133	%REC	1	9/13/2014 05:07 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 9/8/14	Analyst: IT
Surr: Toluene-d8	111		2.8	mg/Kg-dry	1	9/9/2014 12:02 PM
			50-150	%REC	1	9/9/2014 12:02 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep: SW7471 / 9/12/14	Analyst: LR
			0.018	mg/Kg-dry	1	9/12/2014 04:50 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/10/14	Analyst: JEC
Calcium	28		5.0	mg/L	10	9/12/2014 12:15 PM
Magnesium	7.0		2.0	mg/L	10	9/12/2014 12:15 PM
Sodium	270		2.0	mg/L	10	9/12/2014 12:15 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 9/9/14	Analyst: ML
Arsenic	5.7		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Barium	340		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Cadmium	ND		0.82	mg/Kg-dry	5	9/9/2014 10:15 PM
Chromium	32		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Copper	12		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Lead	17		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Nickel	19		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Selenium	2.7		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Silver	ND		2.0	mg/Kg-dry	5	9/9/2014 10:15 PM
Zinc	54		4.1	mg/Kg-dry	5	9/9/2014 10:15 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/10/14	Analyst: JEC
Sodium Adsorption Ratio	12		0.010	none	1	9/11/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 9/10/14	Analyst: MK
Acenaphthene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Acenaphthylene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Anthracene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Benzo(a)anthracene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Benzo(a)pyrene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Benzo(b)fluoranthene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Benzo(g,h,i)perylene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Benzo(k)fluoranthene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Chrysene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM

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

ALS Group USA, Corp

Date: 15-Sep-14

Client: HRL Compliance Solutions, Inc

Project: WPX RG 23-14-298 9.5.14

Sample ID: CS 01

Collection Date: 9/5/2014 11:23 AM

Work Order: 1409293

Lab ID: 1409293-01

Matrix:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Fluoranthene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Fluorene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Indeno(1,2,3-cd)pyrene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Naphthalene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Pyrene	ND		7.4	µg/Kg-dry	1	9/11/2014 04:53 PM
Surr: 2-Fluorobiphenyl	66.8		12-100	%REC	1	9/11/2014 04:53 PM
Surr: 4-Terphenyl-d14	110		25-137	%REC	1	9/11/2014 04:53 PM
Surr: Nitrobenzene-d5	58.5		37-107	%REC	1	9/11/2014 04:53 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 9/8/14		Analyst: BG
Benzene	ND		34	µg/Kg-dry	1	9/12/2014 12:09 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	9/12/2014 12:09 PM
m,p-Xylene	ND		67	µg/Kg-dry	1	9/12/2014 12:09 PM
o-Xylene	ND		34	µg/Kg-dry	1	9/12/2014 12:09 PM
Toluene	ND		34	µg/Kg-dry	1	9/12/2014 12:09 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/12/2014 12:09 PM
Surr: 1,2-Dichloroethane-d4	97.4		70-130	%REC	1	9/12/2014 12:09 PM
Surr: 4-Bromofluorobenzene	97.3		70-130	%REC	1	9/12/2014 12:09 PM
Surr: Dibromofluoromethane	94.2		70-130	%REC	1	9/12/2014 12:09 PM
Surr: Toluene-d8	98.0		70-130	%REC	1	9/12/2014 12:09 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/10/14		Analyst: JB
Electrical Conductivity @ Saturation	1.6		0.050	mmhos/cm @25	10	9/11/2014 11:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	32		0.56	mg/Kg-dry	1	9/11/2014 02:00 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/8/14		Analyst: MB
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	9/10/2014 12:00 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	11		0.050	% of sample	1	9/11/2014 06:56 PM
PH			SW9045D	Prep: EXTRACT / 9/9/14		Analyst: STP
pH	9.2			s.u.	1	9/9/2014 04:15 PM

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

ALS Group USA, Corp

Date: 15-Sep-14

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62616** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-62616-62616				Units: mg/Kg		Analysis Date: 9/13/2014 02:28 PM		
Client ID:		Run ID: GC8_140913A				SeqNo: 2934199		Prep Date: 9/10/2014		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	1.637	0	2	0	81.8	39-133	0			

LCS		Sample ID: DLCSS1-62616-62616				Units: mg/Kg		Analysis Date: 9/13/2014 02:55 PM		
Client ID:		Run ID: GC8_140913A				SeqNo: 2934202		Prep Date: 9/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	157.1	5.0	200	0	78.5	61-109	0			
Surr: 4-Terphenyl-d14	1.566	0	2	0	78.3	39-133	0			

MS		Sample ID: 1409362-17A MS				Units: mg/Kg		Analysis Date: 9/13/2014 03:48 PM		
Client ID:		Run ID: GC8_140913A				SeqNo: 2934204		Prep Date: 9/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	248.2	8.1	325.7	0	76.2	48-110	0			
Surr: 4-Terphenyl-d14	2.323	0	3.257	0	71.3	39-133	0			

MSD		Sample ID: 1409362-17A MSD				Units: mg/Kg		Analysis Date: 9/13/2014 04:14 PM		
Client ID:		Run ID: GC8_140913A				SeqNo: 2934207		Prep Date: 9/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	231.5	7.9	315	0	73.5	48-110	248.2	6.94	30	
Surr: 4-Terphenyl-d14	2.363	0	3.15	0	75	39-133	2.323	1.71	30	

The following samples were analyzed in this batch: 1409293-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62504** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-62504-62504				Units: µg/Kg		Analysis Date: 9/8/2014 06:32 PM		
Client ID:		Run ID: GC9_140908A				SeqNo: 2925046		Prep Date: 9/8/2014		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								
<i>Surr: Toluene-d8</i>	4930	0	5000	0	98.6	50-150	0			

LCS		Sample ID: LCS-62504-62504				Units: µg/Kg		Analysis Date: 9/8/2014 06:06 PM		
Client ID:		Run ID: GC9_140908A				SeqNo: 2925044		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	530300	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	5507	0	5000	0	110	50-150	0			

MS		Sample ID: 1409213-02A MS				Units: µg/Kg		Analysis Date: 9/9/2014 12:53 PM		
Client ID:		Run ID: GC9_140908A				SeqNo: 2925061		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	515100	2,500	500000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	4252	0	5000	0	85	50-150	0			

MSD		Sample ID: 1409213-02A MSD				Units: µg/Kg		Analysis Date: 9/9/2014 01:18 AM		
Client ID:		Run ID: GC9_140908A				SeqNo: 2925058		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	509200	2,500	500000	0	102	70-130	515100	1.16	30	
<i>Surr: Toluene-d8</i>	4286	0	5000	0	85.7	50-150	4252	0.808	30	

The following samples were analyzed in this batch:

1409293-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62718** Instrument ID **HG1** Method: **SW7471**

MBLK				Sample ID: MBLK-62718-62718				Units: mg/Kg			Analysis Date: 9/12/2014 04:06 PM												
Client ID:				Run ID: HG1_140912B				SeqNo: 2932764			Prep Date: 9/12/2014		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-62718-62718				Units:mg/Kg			Analysis Date: 9/12/2014 04:09 PM		
Client ID:				Run ID: HG1_140912B				SeqNo:2932765		Prep Date: 9/12/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Mercury 0.1756 0.020 0.1665 0 105 80-120 0

MS		Sample ID: 1409272-01BMS					Units:mg/Kg		Analysis Date: 9/12/2014 04:39 PM		
Client ID:			Run ID: HG1_140912B			SeqNo:2932778		Prep Date: 9/12/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1448 0.013 0.1084 0.02924 107 75-125 0

MSD				Sample ID: 1409272-01BMSD				Units:mg/Kg			Analysis Date: 9/12/2014 04:41 PM												
Client ID:				Run ID: HG1_140912B				SeqNo:2932779		Prep Date: 9/12/2014		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Mercury 0.1353 0.013 0.1055 0.02924 101 75-125 0.1448 6.76 35

The following samples were analyzed in this batch:

1409293-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62545** Instrument ID **SAR** Method: **USDA H60 Method**

DUP				Sample ID: 1409291-04BDUP				Units:none			Analysis Date: 9/11/2014				
Client ID:				Run ID: SAR_140911A				SeqNo:2934325			Prep Date: 9/10/2014			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Sodium Adsorption Ratio		0.5811	0.010	0	0	0			0						

The following samples were analyzed in this batch:

1409293-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62575** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK				Sample ID: MBLK-62575-62575				Units:mg/Kg		Analysis Date: 9/9/2014 08:14 PM	
Client ID:			Run ID: ICPMS1_140909A			SeqNo:2927331		Prep Date: 9/9/2014		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	ND	0.25									
Cadmium	0.001054	0.10								J	
Chromium	ND	0.25									
Copper	ND	0.25									
Lead	ND	0.25									
Nickel	ND	0.25									
Selenium	ND	0.25									
Silver	ND	0.25									
Zinc	0.03795	0.50								J	

LCS				Sample ID: LCS-62575-62575				Units:mg/Kg			Analysis Date: 9/9/2014 08:20 PM			
Client ID:				Run ID: ICPMS1_140909A				SeqNo:2927332			Prep Date: 9/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	4.42	0.25	5	0	88.4	80-120	0							
Barium	4.444	0.25	5	0	88.9	80-120	0							
Cadmium	4.54	0.10	5	0	90.8	80-120	0							
Chromium	4.554	0.25	5	0	91.1	80-120	0							
Copper	4.506	0.25	5	0	90.1	80-120	0							
Lead	4.46	0.25	5	0	89.2	80-120	0							
Nickel	4.578	0.25	5	0	91.6	80-120	0							
Selenium	4.52	0.25	5	0	90.4	80-120	0							
Silver	4.487	0.25	5	0	89.7	80-120	0							
Zinc	4.407	0.50	5	0	88.1	80-120	0							

MS					Sample ID: 1409291-04AMS			Units:mg/Kg		Analysis Date: 9/9/2014 09:57 PM		
Client ID:			Run ID: ICPMS1_140909A			SeqNo:2927361		Prep Date: 9/9/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	10.19	1.7	6.711	3.952	92.9	75-125	0					
Barium	233.6	1.7	6.711	228.6	73.8	75-125	0			SO		
Cadmium	6.517	0.67	6.711	0.1888	94.3	75-125	0					
Chromium	25.47	1.7	6.711	18.92	97.7	75-125	0					
Copper	15.23	1.7	6.711	9.032	92.4	75-125	0					
Lead	18.3	1.7	6.711	11.28	105	75-125	0					
Nickel	18.71	1.7	6.711	12.51	92.4	75-125	0					
Selenium	8.208	1.7	6.711	1.972	92.9	75-125	0					
Silver	5.678	1.7	6.711	0.0485	83.9	75-125	0					
Zinc	43.93	3.4	6.711	36.82	106	75-125	0			O		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62575** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1409291-04AMSD				Units: mg/Kg		Analysis Date: 9/9/2014 10:03 PM		
Client ID:		Run ID: ICPMS1_140909A				SeqNo: 2927362		Prep Date: 9/9/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.983	1.7	6.693	3.952	90.1	75-125	10.19	2.03	25	
Barium	236.8	1.7	6.693	228.6	122	75-125	233.6	1.36	25	O
Cadmium	6.466	0.67	6.693	0.1888	93.8	75-125	6.517	0.784	25	
Chromium	25.67	1.7	6.693	18.92	101	75-125	25.47	0.78	25	
Copper	14.96	1.7	6.693	9.032	88.6	75-125	15.23	1.8	25	
Lead	17.64	1.7	6.693	11.28	95	75-125	18.3	3.68	25	
Nickel	18.17	1.7	6.693	12.51	84.6	75-125	18.71	2.92	25	
Selenium	7.246	1.7	6.693	1.972	78.8	75-125	8.208	12.5	25	
Silver	5.696	1.7	6.693	0.0485	84.4	75-125	5.678	0.321	25	
Zinc	42.87	3.3	6.693	36.82	90.5	75-125	43.93	2.43	25	O

The following samples were analyzed in this batch: 1409293-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62590** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-62590-62590				Units: µg/Kg		Analysis Date: 9/10/2014 05:41 PM		
Client ID:		Run ID: SVMS8_140910A				SeqNo: 2928886		Prep Date: 9/10/2014		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>	1231	0	1667	0	73.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2107	0	1667	0	126	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1220	0	1667	0	73.2	37-107	0			

LCS		Sample ID: SLCSS1-62590-62590				Units: µg/Kg		Analysis Date: 9/10/2014 06:01 PM		
Client ID:		Run ID: SVMS8_140910A				SeqNo: 2928888		Prep Date: 9/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	566.3	6.7	666.7	0	84.9	45-110	0			
Acenaphthylene	601.7	6.7	666.7	0	90.2	45-105	0			
Anthracene	642.3	6.7	666.7	0	96.3	55-105	0			
Benzo(a)anthracene	677.3	6.7	666.7	0	102	50-110	0			
Benzo(a)pyrene	650	6.7	666.7	0	97.5	50-110	0			
Benzo(b)fluoranthene	663.7	6.7	666.7	0	99.5	45-115	0			
Benzo(g,h,i)perylene	615.3	6.7	666.7	0	92.3	40-125	0			
Benzo(k)fluoranthene	647.7	6.7	666.7	0	97.1	45-115	0			
Chrysene	718	6.7	666.7	0	108	55-110	0			
Dibenzo(a,h)anthracene	590.7	6.7	666.7	0	88.6	40-125	0			
Fluoranthene	592	6.7	666.7	0	88.8	55-115	0			
Fluorene	557.7	6.7	666.7	0	83.6	50-110	0			
Indeno(1,2,3-cd)pyrene	613.7	6.7	666.7	0	92	40-120	0			
Naphthalene	565	6.7	666.7	0	84.7	40-105	0			
Pyrene	771.7	6.7	666.7	0	116	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1460	0	1667	0	87.6	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1922	0	1667	0	115	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1383	0	1667	0	83	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1409293
 Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: 62590 Instrument ID SVMS8 Method: SW846 8270D

MS				Sample ID: 1409284-02A MS				Units: µg/Kg		Analysis Date: 9/10/2014 07:50 PM	
Client ID:			Run ID: SVMS8_140910A			SeqNo:2930992		Prep Date: 9/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1018	13	1255	0	81.1	45-110	0				
Acenaphthylene	1063	13	1255	0	84.7	45-105	0				
Anthracene	1177	13	1255	0	93.7	55-105	0				
Benzo(a)anthracene	1280	13	1255	11.79	101	50-110	0				
Benzo(a)pyrene	1211	13	1255	0	96.5	50-110	0				
Benzo(b)fluoranthene	1255	13	1255	0	99.9	45-115	0				
Benzo(g,h,i)perylene	1346	13	1255	0	107	40-125	0				
Benzo(k)fluoranthene	1219	13	1255	0	97.1	45-115	0				
Chrysene	1339	13	1255	0	107	55-110	0				
Dibenzo(a,h)anthracene	1265	13	1255	0	101	40-125	0				
Fluoranthene	966.7	13	1255	0	77	55-115	0				
Fluorene	1038	13	1255	0	82.7	50-110	0				
Indeno(1,2,3-cd)pyrene	1340	13	1255	6.223	106	40-120	0				
Naphthalene	959.8	13	1255	0	76.4	40-105	0				
Pyrene	1591	13	1255	0	127	45-125	0			S	
Surr: 2-Fluorobiphenyl	2565	0	3139	0	81.7	12-100	0				
Surr: 4-Terphenyl-d14	3909	0	3139	0	125	25-137	0				
Surr: Nitrobenzene-d5	2478	0	3139	0	78.9	37-107	0				

MSD				Sample ID: 1409284-02A MSD			Units: µg/Kg		Analysis Date: 9/10/2014 08:10 PM		
Client ID:			Run ID: SVMS8_140910A			SeqNo:2930993		Prep Date: 9/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1012	13	1286	0	78.7	45-110	1018	0.59	30		
Acenaphthylene	1039	13	1286	0	80.7	45-105	1063	2.36	30		
Anthracene	1217	13	1286	0	94.6	55-105	1177	3.37	30		
Benzo(a)anthracene	1170	13	1286	11.79	90	50-110	1280	9	30		
Benzo(a)pyrene	1237	13	1286	0	96.2	50-110	1211	2.1	30		
Benzo(b)fluoranthene	1216	13	1286	0	94.5	45-115	1255	3.14	30		
Benzo(g,h,i)perylene	1372	13	1286	0	107	40-125	1346	1.9	30		
Benzo(k)fluoranthene	1231	13	1286	0	95.7	45-115	1219	0.962	30		
Chrysene	1225	13	1286	0	95.2	55-110	1339	8.88	30		
Dibenzo(a,h)anthracene	1294	13	1286	0	101	40-125	1265	2.27	30		
Fluoranthene	1056	13	1286	0	82.1	55-115	966.7	8.82	30		
Fluorene	1014	13	1286	0	78.8	50-110	1038	2.35	30		
Indeno(1,2,3-cd)pyrene	1364	13	1286	6.223	106	40-120	1340	1.76	30		
Naphthalene	928.6	13	1286	0	72.2	40-105	959.8	3.31	30		
Pyrene	1348	13	1286	0	105	45-125	1591	16.6	30		
Surr: 2-Fluorobiphenyl	2449	0	3215	0	76.2	12-100	2565	4.63	40		
Surr: 4-Terphenyl-d14	3322	0	3215	0	103	25-137	3909	16.2	40		
Surr: Nitrobenzene-d5	2348	0	3215	0	73	37-107	2478	5.38	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62590** Instrument ID **SVMS8** Method: **SW846 8270D**

The following samples were analyzed in this batch:

1409293-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62537** Instrument ID **VMS7** Method: **SW8260B**

MBLK				Sample ID: MBLK-62537-62537				Units: µg/Kg			Analysis Date: 9/9/2014 03:08 AM		
Client ID:			Run ID: VMS7_140908B				SeqNo:2925761			Prep Date: 9/8/2014		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	1007	0	1000	0	101	70-130		0					
Surr: 4-Bromofluorobenzene	1008	0	1000	0	101	70-130		0					
Surr: Dibromofluoromethane	975	0	1000	0	97.5	70-130		0					
Surr: Toluene-d8	985.5	0	1000	0	98.6	70-130		0					

LCS				Sample ID: LCS-62537-62537			Units: µg/Kg		Analysis Date: 9/9/2014 12:38 PM		
Client ID:		Run ID: VMS7_140908B			SeqNo:2925767		Prep Date: 9/8/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	908.5	30	1000	0	90.8	75-125	0				
Ethylbenzene	896	30	1000	0	89.6	75-125	0				
m,p-Xylene	1788	60	2000	0	89.4	80-125	0				
o-Xylene	895	30	1000	0	89.5	75-125	0				
Toluene	880.5	30	1000	0	88	70-125	0				
Xylenes, Total	2683	90	3000	0	89.4	75-125	0				
Surr: 1,2-Dichloroethane-d4	1018	0	1000	0	102	70-130	0				
Surr: 4-Bromofluorobenzene	1018	0	1000	0	102	70-130	0				
Surr: Dibromofluoromethane	1020	0	1000	0	102	70-130	0				
Surr: Toluene-d8	994.5	0	1000	0	99.4	70-130	0				

MS					Sample ID: 1409274-02A MS			Units: µg/Kg		Analysis Date: 9/11/2014 01:53 AM	
Client ID:			Run ID: VMS6_140910A			SeqNo:2929532		Prep Date: 9/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	986.5	30	1000	0	98.6	75-125	0				
Ethylbenzene	989	30	1000	0	98.9	75-125	0				
m,p-Xylene	2006	60	2000	16	99.5	80-125	0				
o-Xylene	1008	30	1000	0	101	75-125	0				
Toluene	1016	30	1000	13.5	100	70-125	0				
Xylenes, Total	3014	90	3000	0	100	75-125	0				
Surr: 1,2-Dichloroethane-d4	989	0	1000	0	98.9	70-130	0				
Surr: 4-Bromofluorobenzene	1006	0	1000	0	101	70-130	0				
Surr: Dibromofluoromethane	981.5	0	1000	0	98.2	70-130	0				
Surr: Toluene-d8	989	0	1000	0	98.9	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62537** Instrument ID **VMS7** Method: **SW8260B**

MSD				Sample ID: 1409274-02A MSD			Units: µg/Kg		Analysis Date: 9/11/2014 02:19 AM	
Client ID:				Run ID: VMS6_140910A			SeqNo: 2929534		Prep Date: 9/8/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	960	30	1000	0	96	75-125	986.5	2.72	30	
Ethylbenzene	986.5	30	1000	0	98.6	75-125	989	0.253	30	
m,p-Xylene	1996	60	2000	16	99	80-125	2006	0.5	30	
o-Xylene	1002	30	1000	0	100	75-125	1008	0.498	30	
Toluene	994.5	30	1000	13.5	98.1	70-125	1016	2.14	30	
Xylenes, Total	2998	90	3000	0	100	75-125	3014	0.499	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	995	0	1000	0	99.5	70-130	989	0.605	30	
<i>Surr: 4-Bromofluorobenzene</i>	1022	0	1000	0	102	70-130	1006	1.53	30	
<i>Surr: Dibromofluoromethane</i>	1014	0	1000	0	101	70-130	981.5	3.26	30	
<i>Surr: Toluene-d8</i>	983	0	1000	0	98.3	70-130	989	0.609	30	

The following samples were analyzed in this batch: 1409293-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62545** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1409291-04B DUP				Units: mmhos/cm @25°C		Analysis Date: 9/11/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140911D				SeqNo: 2929761		Prep Date: 9/10/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.604	0.050	0	0	0		0.648	7.03	50	

The following samples were analyzed in this batch:

1409293-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62587** Instrument ID **WETCHEM** Method: **SW9045D**

Sample ID: 1409222-01A DUP					Units:s.u.		Analysis Date: 9/9/2014 04:15 PM				
Client ID:			Run ID: WETCHEM_1409090			SeqNo:2926637		Prep Date: 9/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	7.81	0	0	0	0	0-0	7.78	0.385	20		

DUP					Sample ID: 1409293-01B DUP					Units: s.u.			Analysis Date: 9/9/2014 04:15 PM		
Client ID: CS 01					Run ID: WETCHEM_1409090					SeqNo: 2926647		Prep Date: 9/9/2014		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					9.21	0	0	0	0	0-0	9.18	0.326	20		

The following samples were analyzed in this batch:

1409293-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **62642** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-62642-62642				Units: mg/Kg		Analysis Date: 9/10/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140910M				SeqNo: 2928216		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-62642-62642				Units: mg/Kg		Analysis Date: 9/10/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140910M				SeqNo: 2928215		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.82 0.50 2 0 91 80-120 0

MS		Sample ID: 1409213-03B MS				Units: mg/Kg		Analysis Date: 9/10/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140910M				SeqNo: 2928200		Prep Date: 9/8/2014		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 1.961 0.1608 -8.2 75-125 0 S

MS		Sample ID: 1409213-03B MSI				Units: mg/Kg		Analysis Date: 9/10/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140910M				SeqNo: 2928202		Prep Date: 9/8/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 601.6 49 839.2 0.1608 71.7 75-125 0 S

MSD		Sample ID: 1409213-03B MSD				Units: mg/Kg		Analysis Date: 9/10/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140910M				SeqNo: 2928201		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.5079 0.49 1.969 0.1608 17.6 75-125 0.1137 127 20 SR

The following samples were analyzed in this batch:

1409293-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409293
Project: WPX RG 23-14-298 9.5.14

QC BATCH REPORT

Batch ID: **R148039** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R148039				Units: % of sample		Analysis Date: 9/11/2014 06:56 PM		
Client ID:		Run ID: MOIST_140911B				SeqNo: 2931933		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-R148039				Units: % of sample		Analysis Date: 9/11/2014 06:56 PM		
Client ID:		Run ID: MOIST_140911B				SeqNo: 2931932		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: 1409487-01A DUP				Units: % of sample		Analysis Date: 9/11/2014 06:56 PM		
Client ID:		Run ID: MOIST_140911B				SeqNo: 2931904		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 57.59 0.050 0 0 0 0-0 57.06 0.925 20

DUP		Sample ID: 1409487-03A DUP				Units: % of sample		Analysis Date: 9/11/2014 06:56 PM		
Client ID:		Run ID: MOIST_140911B				SeqNo: 2931914		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 60.64 0.050 0 0 0 0-0 59.52 1.86 20

The following samples were analyzed in this batch:

1409293-01B

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



ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
TF: (800) 443-1811 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 202a

WORKORDER #

1409293

PAGE

1 of 1

DISPOSAL

BY Lab or Return to Client

PROJECT NAME WPX BG 23-14-298

SAMPLER

CASEY RICHARDSON

DATE

9.5.14

SITE ID

CONFIRMATION

TURNAROUND

5 DAY

PROJECT No.

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HCSI

BILL TO COMPANY

WPX Energy

SEND REPORT TO MARK MUMBY

INVOICE ATTN TO

KAROLINA BLANDY

ADDRESS 2385 F 1/2 Road

ADDRESS

1058 County Road 215

CITY/STATE/ZIP Grand Junction, CO. 81505

CITY/STATE/ZIP

Parachute, CO 81635

PHONE 970-243-3271

PHONE

970-683-2295

FAX 970-243-3280

FAX

970-285-9573

E-MAIL mmumby@hrcorp.com

E-MAIL

karolina.blandy@wpxenergy.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

GRD/BTEX

DEG/PAH

SAR/EC/CH

METALS - 9102

1

CS 01

S

9.5.14

1123

3

8

X

X

X

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

or 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)

3.20

Reservative 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

C. Richardson

CASEY RICHARDSON

9.5.14

1635

RECEIVED BY

MM

MM

9.5

1635

RELINQUISHED BY

T.B. Breamish

T.B. Breamish

09/04/14

1740

RECEIVED BY

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **06-Sep-14 11:40**

Work Order: **1409293**

Received by: **KRW**

Checklist completed by <u>Keith Wurenga</u>	08-Sep-14	Reviewed by: <u>Ann Preston</u>	09-Sep-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 checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>9/8/2014 10:31:00 AM</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:

ALS Parachute Custody Seat
DATE 9-5-14 Time 1800
Name V/M



24-Sep-2012

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

Re: **WPX RGU 23-14-298 Condensate Spill**

Work Order: **1209521**

Dear Mark,

ALS Environmental received 6 samples on 20-Sep-2012 09:00 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.

QC sample results for this data met 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 30.

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: MN331938

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
Project: WPX RGU 23-14-298 Condensate Spill
Work Order: 1209521

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>
1209521-01	West Side Excavation	Soil		9/19/2012	9/20/2012 09:00	<input type="checkbox"/>
1209521-02	East Side Excavation	Soil		9/19/2012	9/20/2012 09:00	<input type="checkbox"/>
1209521-03	Split Sample East & West	Soil		9/19/2012	9/20/2012 09:00	<input checked="" type="checkbox"/>
1209521-04	BKGD 1	Soil		9/19/2012	9/20/2012 09:00	<input type="checkbox"/>
1209521-05	BKGD 2	Soil		9/19/2012	9/20/2012 09:00	<input type="checkbox"/>
1209521-06	BKGD 3	Soil		9/19/2012	9/20/2012 09:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX RGU 23-14-298 Condensate Spill
Work Order: 1209521

Case Narrative

Batch 43608 sample West Side Excavation MS/MSD recoveries for DRO were below control limits. The corresponding result in the parent sample may be biased low for DRO due to matrix interference.

Client: HRL Compliance Solutions
Project: WPX RGU 23-14-298 Condensate Spill
WorkOrder: 1209521

QUALIFIERS, ACRONYMS, UNITS

<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 detected below quantitation 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
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<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
µmhos/cm @25°	
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 24-Sep-12

Client: HRL Compliance Solutions

Project: WPX RGU 23-14-298 Condensate Spill

Work Order: 1209521

Sample ID: BKGD 1

Lab ID: 1209521-04

Collection Date: 9/19/2012

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 9/20/2012	Analyst: CES
Arsenic	3.1		0.71	mg/Kg-dry	2	9/21/2012 04:01 AM
MOISTURE			A2540 G			Analyst: LR
Moisture	4.7		0.050	% of sample	1	9/20/2012 04:00 PM

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

ALS Group USA, Corp

Date: 24-Sep-12

Client: HRL Compliance Solutions

Project: WPX RGU 23-14-298 Condensate Spill

Work Order: 1209521

Sample ID: BKGD 2

Lab ID: 1209521-05

Collection Date: 9/19/2012

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 9/20/2012	Analyst: CES
Arsenic	3.9		0.78	mg/Kg-dry	2	9/21/2012 04:07 AM
MOISTURE			A2540 G			Analyst: LR
Moisture	4.1		0.050	% of sample	1	9/20/2012 04:00 PM

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

ALS Group USA, Corp

Date: 24-Sep-12

Client: HRL Compliance Solutions
Project: WPX RGU 23-14-298 Condensate Spill
Sample ID: BKGD 3
Collection Date: 9/19/2012

Work Order: 1209521
Lab ID: 1209521-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 9/20/2012	Analyst: CES
Arsenic	3.8		0.76	mg/Kg-dry	2	9/21/2012 04:12 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 9/24/2012	Analyst: CES
Calcium	350		11	mg/L-dry	20	9/24/2012 04:06 PM
Magnesium	9.9		4.2	mg/L-dry	20	9/24/2012 04:06 PM
Sodium	24		4.2	mg/L-dry	20	9/24/2012 04:06 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 9/24/2012	Analyst: CES
Sodium Adsorption Ratio	0.33		0.010	none	1	9/24/2012
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 9/24/2012	Analyst: JJG
Electrical Conductivity @ Saturation	1.6		0.010	mmhos/cm @25	2	9/24/2012 04:00 PM
MOISTURE			A2540 G			Analyst: LR
Moisture	5.5		0.050	% of sample	1	9/20/2012 04:00 PM
PH			SW9045D			Analyst: JJG
pH	8.89			s.u.	1	9/20/2012 08:25 AM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1209521

Project: WPX RGU 23-14-298 Condensate Spill

Batch ID: 43608

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-43608-43608				Units: mg/Kg		Analysis Date: 9/21/2012 11:33 AM		
Client ID:		Run ID: GC8_120921A				SeqNo: 2086272		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.222	0	1.667	0	73.3	39-115	0			

LCS		Sample ID: DLCSS1-43608-43608				Units: mg/Kg		Analysis Date: 9/21/2012 12:00 PM		
Client ID:		Run ID: GC8_120921A				SeqNo: 2086273		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	125.9	4.2	166.7	0	75.5	60-130	0			
Surr: 4-Terphenyl-d14	1.428	0	1.667	0	85.7	39-115	0			

MS		Sample ID: 1209521-01A MS				Units: mg/Kg		Analysis Date: 9/21/2012 12:27 PM		
Client ID: West Side Excavation		Run ID: GC8_120921A				SeqNo: 2086274		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	258	8.3	333.9	84.05	52.1	60-130	0			S
Surr: 4-Terphenyl-d14	2.955	0	3.339	0	88.5	39-115	0			

MSD		Sample ID: 1209521-01A MSD				Units: mg/Kg		Analysis Date: 9/21/2012 12:55 PM		
Client ID: West Side Excavation		Run ID: GC8_120921A				SeqNo: 2086275		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	247.8	7.9	317	84.05	51.7	60-130	258	4.04	30	S
Surr: 4-Terphenyl-d14	2.839	0	3.17	0	89.6	39-115	2.955	4	30	

The following samples were analyzed in this batch: | 1209521-01A | 1209521-02A |

Client: HRL Compliance Solutions
 Work Order: 1209521
 Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **R110083** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-120921-R110083				Units: µg/L		Analysis Date: 9/21/2012 11:12 AM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086221		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	119.3	0	100	0	119	70-130	0			

LCS		Sample ID: GLCS1-120921-R110083				Units: µg/L		Analysis Date: 9/21/2012 10:47 AM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086220		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	11030	200	10000	0	110	70-130	0			
Surr: Toluene-d8	106.4	0	100	0	106	70-130	0			

MS		Sample ID: 1209482-02B MS				Units: µg/L		Analysis Date: 9/21/2012 08:14 PM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086385		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	10230	200	10000	0	102	70-130	0			
Surr: Toluene-d8	106.1	0	100	0	106	70-130	0			

MSD		Sample ID: 1209482-02B MSD				Units: µg/L		Analysis Date: 9/21/2012 08:39 PM		
Client ID:		Run ID: GC10_120921A				SeqNo: 2086386		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	9995	200	10000	0	100	70-130	10230	2.28	30	
Surr: Toluene-d8	106.3	0	100	0	106	70-130	106.1	0.16	30	

The following samples were analyzed in this batch:

1209521-01A	1209521-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43631** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-43631-43631				Units: mg/Kg		Analysis Date: 9/21/2012 02:03 PM		
Client ID:		Run ID: HG1_120921A				SeqNo: 2086071		Prep Date: 9/21/2012		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-43631-43631				Units: mg/Kg		Analysis Date: 9/21/2012 02:11 PM		
Client ID:		Run ID: HG1_120921A				SeqNo: 2086075		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1675 0.020 0.1665 0 101 80-120 0

MS		Sample ID: 1209543-02BMS				Units: mg/Kg		Analysis Date: 9/21/2012 03:03 PM		
Client ID:		Run ID: HG1_120921A				SeqNo: 2086117		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1327 0.017 0.1419 0.0009831 92.8 75-125 0

MSD		Sample ID: 1209543-02BMSD				Units: mg/Kg		Analysis Date: 9/21/2012 03:04 PM		
Client ID:		Run ID: HG1_120921A				SeqNo: 2086118		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1324 0.017 0.1409 0.0009831 93.2 75-125 0.1327 0.227 35

The following samples were analyzed in this batch:

1209521-01A 1209521-02A

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43612** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-43612-43612				Units: mg/Kg		Analysis Date: 9/20/2012 10:33 PM		
Client ID:		Run ID: ICPMS1_120920A				SeqNo: 2085269		Prep Date: 9/20/2012		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	0.01004	0.25								J
Cadmium	0.01729	0.10								J
Lead	0.001506	0.25								J

LCS		Sample ID: LCS-43612-43612				Units: mg/Kg		Analysis Date: 9/20/2012 10:38 PM		
Client ID:		Run ID: ICPMS1_120920A				SeqNo: 2085270		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.316	0.25	5	0	86.3	80-120	0			
Barium	4.566	0.25	5	0	91.3	80-120	0			
Cadmium	4.714	0.10	5	0	94.3	80-120	0			
Lead	4.688	0.25	5	0	93.8	80-120	0			

MS		Sample ID: 1209521-06AMS				Units: mg/Kg		Analysis Date: 9/21/2012 04:17 AM		
Client ID: BKGD 3		Run ID: ICPMS1_120920A				SeqNo: 2085383		Prep Date: 9/20/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.246	0.70	6.993	3.596	80.8	75-125	0			
Barium	232.2	0.70	6.993	240	-112	75-125	0			SO
Cadmium	6.473	0.28	6.993	0.2595	88.8	75-125	0			
Chromium	30.8	0.70	6.993	25.27	79	75-125	0			
Copper	15.55	0.70	6.993	10.27	75.6	75-125	0			
Lead	21.68	0.70	6.993	15.2	92.6	75-125	0			
Nickel	17.02	0.70	6.993	11.43	80	75-125	0			
Selenium	6.457	0.70	6.993	1.208	75.1	75-125	0			
Silver	5.719	0.70	6.993	0.04477	81.1	75-125	0			
Zinc	42.71	1.4	6.993	36.69	86.1	75-125	0			O

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43612** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1209521-06AMSD				Units: mg/Kg		Analysis Date: 9/21/2012 04:40 AM		
Client ID: BKGD 3		Run ID: ICPMS1_120920A				SeqNo: 2085389		Prep Date: 9/20/2012		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.973	0.71	7.143	3.596	75.3	75-125	9.246	3	25	
Barium	236.4	0.71	7.143	240	-49.6	75-125	232.2	1.82	25	SO
Cadmium	6.65	0.29	7.143	0.2595	89.5	75-125	6.473	2.7	25	
Chromium	29.41	0.71	7.143	25.27	58	75-125	30.8	4.59	25	S
Copper	15.47	0.71	7.143	10.27	72.9	75-125	15.55	0.522	25	S
Lead	21.61	0.71	7.143	15.2	89.8	75-125	21.68	0.296	25	
Nickel	16.43	0.71	7.143	11.43	70	75-125	17.02	3.54	25	S
Selenium	6.436	0.71	7.143	1.208	73.2	75-125	6.457	0.336	25	S
Silver	5.749	0.71	7.143	0.04477	79.9	75-125	5.719	0.518	25	
Zinc	41.03	1.4	7.143	36.69	60.7	75-125	42.71	4.02	25	SO

The following samples were analyzed in this batch:

1209521-01A	1209521-02A	1209521-04A
1209521-05A	1209521-06A	

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43614** Instrument ID **ICPMS1** Method: **SW6020A** **(Dissolve)**

DUP		Sample ID: 1209521-01B DUP				Units: mg/L		Analysis Date: 9/24/2012 03:55 PM		
Client ID: West Side Excavation		Run ID: ICPMS1_120924A				SeqNo: 2087930		Prep Date: 9/24/2012		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	435.6	10	0	0	0	0-0	471.8	7.98		
Magnesium	128.6	4.0	0	0	0	0-0	138.2	7.23		
Sodium	1582	4.0	0	0	0	0-0	1649	4.15		

DUP		Sample ID: 1209521-01B DUP				Units: none		Analysis Date: 9/24/2012		
Client ID: West Side Excavation		Run ID: SAR_120924A				SeqNo: 2087946		Prep Date: 9/24/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	17.12	0.010	0	0	0		17.17	0.279	50	

The following samples were analyzed in this batch: | 1209521-01B 1209521-02B 1209521-06B |

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43603** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKS1-43603-43603				Units: µg/Kg		Analysis Date: 9/21/2012 10:12 AM		
Client ID:		Run ID: SVMS4_120921A				SeqNo: 2085696		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	1101	0	1667	0	66	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1532	0	1667	0	91.9	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1152	0	1667	0	69.1	37-107	0			

LCS		Sample ID: SLCSS1-43603-43603				Units: µg/Kg		Analysis Date: 9/21/2012 09:41 AM		
Client ID:		Run ID: SVMS4_120921A				SeqNo: 2085695		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	524	30	666.7	0	78.6	45-110	0			
Anthracene	580.3	30	666.7	0	87	55-105	0			
Benzo(a)anthracene	543.3	30	666.7	0	81.5	50-110	0			
Benzo(a)pyrene	590.3	30	666.7	0	88.5	50-110	0			
Benzo(b)fluoranthene	521.3	30	666.7	0	78.2	45-115	0			
Benzo(g,h,i)perylene	591.7	30	666.7	0	88.7	40-125	0			
Benzo(k)fluoranthene	580	30	666.7	0	87	45-115	0			
Chrysene	608	30	666.7	0	91.2	55-110	0			
Dibenzo(a,h)anthracene	587	30	666.7	0	88	40-125	0			
Fluoranthene	599.7	30	666.7	0	89.9	55-115	0			
Fluorene	553	30	666.7	0	82.9	50-110	0			
Indeno(1,2,3-cd)pyrene	588.7	30	666.7	0	88.3	40-120	0			
Naphthalene	520.7	30	666.7	0	78.1	40-105	0			
Pyrene	603	30	666.7	0	90.4	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1092	0	1667	0	65.5	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1596	0	1667	0	95.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1157	0	1667	0	69.4	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43603** Instrument ID **SVMS4** Method: **SW8270**

MS				Units: µg/Kg				Analysis Date: 9/21/2012 10:43 AM		
Sample ID: 1209443-13B MS		Run ID: SVMS4_120921A		SeqNo: 2085697		Prep Date: 9/20/2012		DF: 1		
Client ID:										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	989.5	56	1253	0	79	45-110	0			
Anthracene	1139	56	1253	0	90.9	55-105	0			
Benzo(a)anthracene	1077	56	1253	39.26	82.9	50-110	0			
Benzo(a)pyrene	1139	56	1253	31.34	88.4	50-110	0			
Benzo(b)fluoranthene	1135	56	1253	89.08	83.5	45-115	0			
Benzo(g,h,i)perylene	1064	56	1253	30.35	82.5	40-125	0			
Benzo(k)fluoranthene	1139	56	1253	24.41	89	45-115	0			
Chrysene	1205	56	1253	50.15	92.2	55-110	0			
Dibenzo(a,h)anthracene	1055	56	1253	0	84.2	40-125	0			
Fluoranthene	1242	56	1253	99.96	91.2	55-115	0			
Fluorene	1057	56	1253	0	84.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1073	56	1253	24.74	83.7	40-120	0			
Naphthalene	910	56	1253	0	72.6	40-105	0			
Pyrene	1186	56	1253	82.81	88	45-125	0			
Surr: 2-Fluorobiphenyl	2003	0	3132	0	64	12-100	0			
Surr: 4-Terphenyl-d14	2813	0	3132	0	89.8	25-137	0			
Surr: Nitrobenzene-d5	1980	0	3132	0	63.2	37-107	0			

MSD				Units: µg/Kg				Analysis Date: 9/21/2012 11:14 AM		
Sample ID: 1209443-13B MSD		Run ID: SVMS4_120921A		SeqNo: 2085698		Prep Date: 9/20/2012		DF: 1		
Client ID:										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1012	59	1316	0	76.9	45-110	989.5	2.2	30	
Anthracene	1121	59	1316	0	85.2	55-105	1139	1.52	30	
Benzo(a)anthracene	1062	59	1316	39.26	77.7	50-110	1077	1.46	30	
Benzo(a)pyrene	1118	59	1316	31.34	82.6	50-110	1139	1.87	30	
Benzo(b)fluoranthene	1064	59	1316	89.08	74.1	45-115	1135	6.48	30	
Benzo(g,h,i)perylene	1067	59	1316	30.35	78.8	40-125	1064	0.259	30	
Benzo(k)fluoranthene	1190	59	1316	24.41	88.6	45-115	1139	4.34	30	
Chrysene	1169	59	1316	50.15	85	55-110	1205	3.05	30	
Dibenzo(a,h)anthracene	1052	59	1316	0	80	40-125	1055	0.22	30	
Fluoranthene	1147	59	1316	99.96	79.6	55-115	1242	7.94	30	
Fluorene	1042	59	1316	0	79.2	50-110	1057	1.4	30	
Indeno(1,2,3-cd)pyrene	1095	59	1316	24.74	81.4	40-120	1073	2	30	
Naphthalene	918.2	59	1316	0	69.8	40-105	910	0.895	30	
Pyrene	1106	59	1316	82.81	77.8	45-125	1186	6.98	30	
Surr: 2-Fluorobiphenyl	2077	0	3289	0	63.2	12-100	2003	3.64	40	
Surr: 4-Terphenyl-d14	2827	0	3289	0	86	25-137	2813	0.504	40	
Surr: Nitrobenzene-d5	1988	0	3289	0	60.4	37-107	1980	0.4	40	

The following samples were analyzed in this batch: 1209521-01A 1209521-02A

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43617** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-43617-43617				Units: µg/Kg		Analysis Date: 9/20/2012 01:11 PM		
Client ID:		Run ID: VMS9_120920A				SeqNo: 2085177		Prep Date: 9/20/2012		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	1104	0	1000	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	972.5	0	1000	0	97.2	70-130	0			
Surr: Dibromofluoromethane	993.5	0	1000	0	99.4	70-130	0			
Surr: Toluene-d8	932	0	1000	0	93.2	70-130	0			

MBLK		Sample ID: MBLK-43617-43617				Units: µg/Kg		Analysis Date: 9/21/2012 01:21 AM		
Client ID:		Run ID: VMS7_120920B				SeqNo: 2085911		Prep Date: 9/20/2012		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	1096	0	1000	0	110	70-130	0			
Surr: 4-Bromofluorobenzene	1028	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	969.5	0	1000	0	97	70-130	0			
Surr: Toluene-d8	994.5	0	1000	0	99.4	70-130	0			

MBLK		Sample ID: MBLK-43617-43617				Units: µg/Kg		Analysis Date: 9/22/2012 04:40 PM		
Client ID:		Run ID: VMS9_120921C				SeqNo: 2086862		Prep Date: 9/20/2012		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	1075	0	1000	0	108	70-130	0			
Surr: 4-Bromofluorobenzene	889.5	0	1000	0	89	70-130	0			
Surr: Dibromofluoromethane	1002	0	1000	0	100	70-130	0			
Surr: Toluene-d8	989.5	0	1000	0	99	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43617** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-43617-43617				Units: µg/Kg		Analysis Date: 9/21/2012 03:04 PM		
Client ID:		Run ID: VMS7_120921A				SeqNo: 2086889		Prep Date: 9/20/2012		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	1112	0	1000	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	970	0	1000	0	97	70-130	0			
Surr: Toluene-d8	993.5	0	1000	0	99.4	70-130	0			

LCS		Sample ID: LCS-43617-43617				Units: µg/Kg		Analysis Date: 9/20/2012 11:54 AM		
Client ID:		Run ID: VMS9_120920A				SeqNo: 2085176		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	861	30	1000	0	86.1	75-125	0			
Ethylbenzene	961.5	30	1000	0	96.2	75-125	0			
m,p-Xylene	1983	60	2000	0	99.2	80-125	0			
o-Xylene	921.5	30	1000	0	92.2	75-125	0			
Toluene	916.5	30	1000	0	91.6	70-125	0			
Xylenes, Total	2904	90	3000	0	96.8	75-125	0			
Surr: 1,2-Dichloroethane-d4	999	0	1000	0	99.9	70-130	0			
Surr: 4-Bromofluorobenzene	1022	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	924	0	1000	0	92.4	70-130	0			
Surr: Toluene-d8	995.5	0	1000	0	99.6	70-130	0			

LCS		Sample ID: LCS-43617-43617				Units: µg/Kg		Analysis Date: 9/21/2012 12:04 PM		
Client ID:		Run ID: VMS7_120920B				SeqNo: 2085914		Prep Date: 9/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	980.5	30	1000	0	98	75-125	0			
Ethylbenzene	993	30	1000	0	99.3	75-125	0			
m,p-Xylene	1969	60	2000	0	98.4	80-125	0			
o-Xylene	989.5	30	1000	0	99	75-125	0			
Toluene	967	30	1000	0	96.7	70-125	0			
Xylenes, Total	2958	90	3000	0	98.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	1090	0	1000	0	109	70-130	0			
Surr: 4-Bromofluorobenzene	1040	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1041	0	1000	0	104	70-130	0			
Surr: Toluene-d8	1008	0	1000	0	101	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43617** Instrument ID **VMS9** Method: **SW8260**

LCS Sample ID: LCS-43617-43617				Units: µg/Kg		Analysis Date: 9/22/2012 03:23 PM				
Client ID:		Run ID: VMS9_120921C		SeqNo: 2086861		Prep Date: 9/20/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	998.5	30	1000	0	99.8	75-125	0			
Ethylbenzene	1072	30	1000	0	107	75-125	0			
m,p-Xylene	2204	60	2000	0	110	80-125	0			
o-Xylene	1038	30	1000	0	104	75-125	0			
Toluene	1033	30	1000	0	103	70-125	0			
Xylenes, Total	3242	90	3000	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	1032	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1032	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	990.5	0	1000	0	99	70-130	0			
Surr: Toluene-d8	1018	0	1000	0	102	70-130	0			

LCS Sample ID: LCS-43617-43617				Units: µg/Kg		Analysis Date: 9/21/2012 01:48 PM				
Client ID:		Run ID: VMS7_120921A		SeqNo: 2086888		Prep Date: 9/20/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1002	30	1000	0	100	75-125	0			
Ethylbenzene	1003	30	1000	0	100	75-125	0			
m,p-Xylene	2008	60	2000	0	100	80-125	0			
o-Xylene	1004	30	1000	0	100	75-125	0			
Toluene	1002	30	1000	0	100	70-125	0			
Xylenes, Total	3012	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	1130	0	1000	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	1045	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1046	0	1000	0	105	70-130	0			
Surr: Toluene-d8	1026	0	1000	0	103	70-130	0			

MS Sample ID: 1209495-16A MS				Units: µg/Kg		Analysis Date: 9/21/2012 09:21 AM				
Client ID:		Run ID: VMS7_120920B		SeqNo: 2085938		Prep Date: 9/20/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	914.5	5.0	1000	0	91.4	75-125	0			
Ethylbenzene	916.5	5.0	1000	0	91.6	75-125	0			
m,p-Xylene	1849	2.5	2000	0	92.4	80-125	0			
o-Xylene	922	2.5	1000	0	92.2	75-125	0			
Toluene	895.5	5.0	1000	0	89.6	70-125	0			
Xylenes, Total	2771	5.0	3000	0	92.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	1091	0	1000	0	109	70-120	0			
Surr: 4-Bromofluorobenzene	1056	0	1000	0	106	75-120	0			
Surr: Dibromofluoromethane	997	0	1000	0	99.7	85-115	0			
Surr: Toluene-d8	1002	0	1000	0	100	85-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43617** Instrument ID **VMS9** Method: **SW8260**

MSD				Sample ID: 1209495-16A MSD				Units: µg/Kg			Analysis Date: 9/21/2012 09:46 AM			
Client ID:				Run ID: VMS7_120920B				SeqNo: 2085939			Prep Date: 9/20/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	867.5	5.0	1000	0	86.8	75-125	914.5	5.27	30					
Ethylbenzene	877.5	5.0	1000	0	87.8	75-125	916.5	4.35	30					
m,p-Xylene	1773	2.5	2000	0	88.6	80-125	1849	4.2	30					
o-Xylene	886.5	2.5	1000	0	88.6	75-125	922	3.93	30					
Toluene	851.5	5.0	1000	0	85.2	70-125	895.5	5.04	30					
Xylenes, Total	2660	5.0	3000	0	88.6	75-125	2771	4.11	30					
Surr: 1,2-Dichloroethane-d4	1070	0	1000	0	107	70-120	1091	1.94	30					
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	75-120	1056	4.5	30					
Surr: Dibromofluoromethane	958	0	1000	0	95.8	85-115	997	3.99	30					
Surr: Toluene-d8	966	0	1000	0	96.6	85-120	1002	3.71	30					

The following samples were analyzed in this batch: 1209521-01A 1209521-02A

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43614** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1209521-01B DUP				Units: mmhos/cm @25°F		Analysis Date: 9/24/2012 04:00 PM		
Client ID: West Side Excavation			Run ID: WETCHEM_120924J			SeqNo: 2087851		Prep Date: 9/24/2012		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	10.9	0.025	0	0	0		11.95	9.19	50	

The following samples were analyzed in this batch:

1209521-01B	1209521-02B	1209521-06B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **43641** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-43641-43641				Units: mg/Kg		Analysis Date: 9/21/2012 01:00 PM		
Client ID:		Run ID: WETCHEM_120921G				SeqNo: 2086037		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-43641-43641				Units: mg/Kg		Analysis Date: 9/21/2012 01:00 PM		
Client ID:		Run ID: WETCHEM_120921G				SeqNo: 2086036		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.606 0.50 1.992 0 80.6 75-110 0

MS		Sample ID: 1209521-01A MS				Units: mg/Kg		Analysis Date: 9/21/2012 01:00 PM		
Client ID: West Side Excavation		Run ID: WETCHEM_120921G				SeqNo: 2086033		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.502 0.50 1.992 0 75.4 60-130 0

MSD		Sample ID: 1209521-01A MSD				Units: mg/Kg		Analysis Date: 9/21/2012 01:00 PM		
Client ID: West Side Excavation		Run ID: WETCHEM_120921G				SeqNo: 2086034		Prep Date: 9/21/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.444 0.50 1.984 0 72.8 60-130 1.502 3.91 30

The following samples were analyzed in this batch:

1209521-01A 1209521-02A

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

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **R110039** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-R110039-R110039					Units: s.u.		Analysis Date: 9/20/2012 08:25 AM		
Client ID:			Run ID: WETCHEM_120920P			SeqNo: 2085088		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	4.31	0	4.4	0	98	90-110	0			
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DUP		Sample ID: 1209517-01B DUP					Units: s.u.		Analysis Date: 9/20/2012 08:25 AM		
Client ID:		Run ID: WETCHEM_120920P			SeqNo: 2085090		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	8.14	0	0	0	0	0-0	8.14	0	20	
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DUP				Sample ID: 1209521-06A DUP				Units: s.u.			Analysis Date: 9/20/2012 08:25 AM			
Client ID: BKGD 3				Run ID: WETCHEM_120920P				SeqNo: 2085100			Prep Date:		DF: 1	
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

pH	8.89	0	0	0	0	0-0	8.89	0	20	
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The following samples were analyzed in this batch:

1209521-01A	1209521-02A	1209521-06A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1209521
Project: WPX RGU 23-14-298 Condensate Spill

QC BATCH REPORT

Batch ID: **R110054** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R110054					Units: % of sample			Analysis Date: 9/20/2012 04:00 PM		
Client ID:		Run ID: MOIST_120920A					SeqNo: 2085590		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-R110054					Units: % of sample		Analysis Date: 9/20/2012 04:00 PM		
Client ID:			Run ID: MOIST_120920A			SeqNo: 2085586		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: 1209517-01B DUP				Units: % of sample			Analysis Date: 9/20/2012 04:00 PM												
Client ID:				Run ID: MOIST_120920A				SeqNo: 2085569			Prep Date:		DF: 1										
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 7.57 0.050 0 0 0 0-0 7.54 0.397 20

DUP		Sample ID: 1209518-02B DUP				Units: % of sample		Analysis Date: 9/20/2012 04:00 PM		
Client ID:		Run ID: MOIST_120920A			SeqNo: 2085573		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 22.73 0.050 0 0 0 0-0 22.76 0.132 20

The following samples were analyzed in this batch:

1209521-01A	1209521-02A	1209521-04A
1209521-05A	1209521-06A	

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



ALS Laboratory Group

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Chain-of-Custody

Form 202r8

WORKORDER
#

1209521

PROJECT NAME		WPX RGU 23-14-298 Condensate spill		SAMPLER		Reed Wold		DATE		9/19/2012		PAGE		1 of 1	
PROJECT No.				SITE ID		RGU 23-14-298		TURNAROUND		24 Hr		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance		BILL TO COMPANY		WPX		BTEX/ GRO							
SEND REPORT TO		Mark Mumby		INVOICE ATTN TO		Karolina Blaney		DRO/ PAH/ Metals (Table 910-1)							
ADDRESS		2385 F 1/2 Rd		ADDRESS		1058 Co Rd 215		SAR/ Ec/ pH							
CITY / STATE / ZIP		Grand Junction, CO 81506		CITY / STATE / ZIP		Parachure CO 81635		Arsenic							
PHONE		970-243-3271		PHONE		970-683-2295		DRO/ GRO							
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	West side Excavation	SO	9/19/2012		23	8		X	X	X					
2	East side Excavation	SO	9/19/2012		28	8		X	X	X					
3	Split sample East & West	SO	9/19/2012		1										
4	BKGD 1	SO	9/19/2012		1						X				
5	BKGD 2	SO	9/19/2012		1						X				
6	BKGD 3	SO	9/19/2012		2					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:	2.0%	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	9/19/12	5:00
RECEIVED BY	Keith WIERENGA	9/20/12	0900
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 20-Sep-12 09:00

Work Order: 1209521

Received by: KRW

Checklist completed by Bill Carey 20-Sep-12
eSignature Date

Reviewed by: Ann Preston 21-Sep-12
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 checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.0 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>9/20/2012 10:57:19 AM</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:

FedEx Express **NEW Package**
US Airbill

FedEx
Tracking
Number

8001 2126 9104

0200 Form
ID No.

FedEx Retrieval Copy

1 From
Date 9/19/12

Sender's Name Reed Wdl Phone 970 243-3271

Company HCSI

Address 2385 F 1/2 Rd

City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving Phone 616-399-6070

Company AKS Group

Address 3352 128th Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address _____
Use this line for the HOLD location address or for continuation of your shipping address.

City Holland State MI ZIP 49424

01 ☐ **HOLD Weekday**
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

31 ☐ **HOLD Saturday**
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

Next Business Day

06 ☐ **FedEx First Overnight**
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

01 ☒ **FedEx Priority Overnight**
Next business morning.* Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

05 ☐ **FedEx Standard Overnight**
Next business afternoon.*
Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ **NEW FedEx 2Day A.M.**
Second business morning.*
Saturday Delivery NOT available.

03 ☐ **FedEx 2Day**
Second business afternoon.* Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.

20 ☐ **FedEx Express Saver**
Third business day.*
Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500.

06 ☐ **FedEx Envelope*** **02** ☐ **FedEx Pak*** **03** ☐ **FedEx Box** **04** ☐ **FedEx Tube** **-01** ☒ **Other**

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ **No Signature Required**
Package may be left without
obtaining a signature for delivery.

10 ☐ **Direct Signature**
Someone at recipient's address
may sign for delivery. *Fee applies.*

34 ☐ **Indirect Signature**
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.
☒ **No** **04** ☐ **Yes**
As per attached
Shipper's Declaration.

☐ **Yes**
Shipper's Declaration
not required.

06 ☐ **Dry Ice**
Dry ice, 9, UN 1845 x kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

☐ **Cargo Aircraft Only**

7 Payment Bill to:

Sender ☐ **Acct No. in Section 1 will be billed.** ☒ **Recipient** ☐ **Third Party** ☐ **Credit Card** ☐ **Cash/Check**

578

Total Packages Total Weight

Credit Card Auth.

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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