



March 20, 2015

Stan Spencer
NW Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
796 Megan Ave, Suite 201,
Rifle, CO 81650

Re: GV 41-34 Produced Water Spill Closure Request

Dear Mr. Spencer,

Attached are the laboratory reports and the sample location map for soil samples collected from the excavated area, landfarmed material, and nearby non-impacted native soil in order to close the produced water spill that occurred at the GV 41-34 well pad and was discovered on January 10, 2014.

Soil impacted by the produced water spill was excavated and a total of five grab confirmation samples were collected from the bottom and four walls of the excavation. Due to the pad size constraints, the soil was landfarmed on location in seven separate batches. One composite sample was collected from each landfarm batch. All samples were analyzed for the constituents listed in the COGCC Table 910-1. Three grab samples were collected from nearby non-impacted, native soil to establish the background concentrations for arsenic. In accordance with the COGCC Rule 910.b.(3)E, one grab sample was analyzed for inorganics to establish background soil conditions.

As the attached laboratory reports indicate, all constituents of concern listed in the COGCC Table 910-1 tested below the cleanup requirements or below the background concentrations with the exception of the inorganics. Therefore, in accordance with COGCC guideline Q32 regarding inorganics, the impacted area was covered with 3' of clean soil during the backfilling activities. The landfarmed material is stockpiled on location, inside a bermed containment, pending beneficial reuse. Any beneficial reuse proposal will be submitted to COGCC for prior approval. Based on these results, WPX respectfully requests closure of this incident.

Please do not hesitate to contact me at (970) 683-2295 should you have any questions or concerns regarding this information.

Sincerely,

A handwritten signature in blue ink that reads "Karolina Blaney".

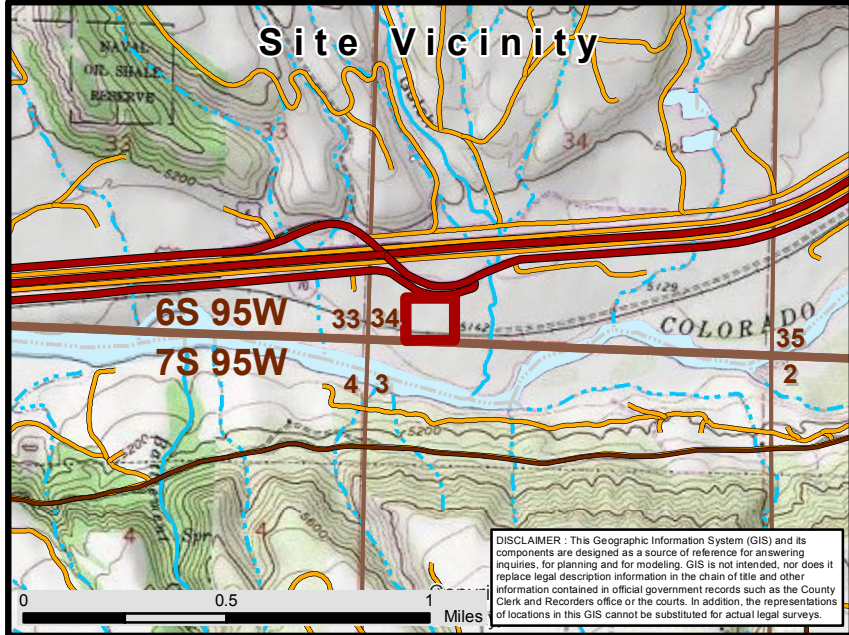
Karolina Blaney
Environmental Specialist

Attachments (2)

- Sampling Location Map
- Laboratory Reports



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



DISCLAIMER - This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.

Sample Location Map
Location: GV 41-34
 39.474551 -107.990874
 WPX Energy

- Sample Point
- ▨ Impacted Area
- PLSS
 - ▭ Township
 - ▭ Section
- Transportation Features**
 - Public Roads
 - Access Roads
- Hydrographic Features**
 - Perennial Stream
 - - - Intermittent Stream



HRL COMPLIANCE SOLUTIONS, INC.

GV 41-34
Analytical Data Summary

Contaminant of Concern ↓	COGCC standards	Location →	West Wall	South Wall	North Wall	East Wall	Excavation Bottom 30'	Landfarm Batch 1	Landfarm Batch 1	Landfarm Batch 1	Landfarm Batch 2	Landfarm Batch 3	Landfarm Batch 4	Landfarm Batch 5	Landfarm Batch 6	Landfarm Batch 7	GV 41-34-B-1	GV 41-34-B-2	GV 41-34-B-3
		Date Sampled →	1/15/2014	1/15/2014	1/17/2014	1/17/2014	1/17/2014	4/10/2014	6/17/2014	7/9/2014	9/22/2014	10/28/2014	12/5/2014	1/26/2015	2/13/2015	3/10/2015	1/23/2014	1/23/2014	1/23/2014
Organic Compounds in Soil																			
TPH (DRO+GRO)	500	mg/kg	ND	ND	37	43	74	840	686	239	37	109	71	49	54	47			
DRO		mg/kg	ND	ND	ND	28	40	110	56	39	37	31	52	49	54	47			
GRO		mg/kg	ND	ND	37	15	34	730	630	200	ND	78	19	ND	ND	ND			
Benzene	0.17	mg/kg	ND	ND	ND	ND	ND	0.18	ND		ND	ND	ND	ND	ND	ND			
Toluene	85	mg/kg	0.058	ND	ND	ND	ND	1.9			ND	ND	ND	ND	ND	ND			
Ethylbenzene	100	mg/kg	ND	ND	ND	ND	ND	2.8			0.083	ND	0.084	ND	ND	ND			
Xylenes (Total)	175	mg/kg	0.65	ND	ND	ND	0.12	45			1	ND	0.56	ND	ND	0.15			
Acenaphthene	1,000	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Anthracene	1,000	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Benzo(A)anthracene	0.22	mg/kg	ND	ND	ND	ND	ND	ND			ND	0.0097	ND	0.013	ND	ND			
Benzo(B)fluoranthene	0.22	mg/kg	ND	ND	ND	ND	ND	ND			ND	0.01	ND	ND	ND	ND			
Benzo(K)fluoranthene	2.2	mg/kg	ND	ND	ND	ND	ND	ND			ND	0.0086	ND	ND	ND	ND			
Benzo(A)pyrene	0.022	mg/kg	ND	ND	ND	ND	ND	ND			ND	0.016	ND	ND	ND	ND			
Chrysene	22	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Dibenzo(A,H)anthracene	0.022	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Fluoranthene	1,000	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.019	ND	ND			
Fluorene	1,000	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Naphthalene	23	mg/kg	ND	ND	ND	ND	ND	0.15			ND	ND	0.043	ND	ND	0.032			
Pyrene	1,000	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.019	ND	ND			
Inorganics in Soil																			
EC	<4 or 2 x background	mmhos/cm	2.2	53	8.9	22	14	3.9			14	16	9.8	16	2.6	10			6.8
SAR	<12		19	67	13	46	26	39			23	28	13	26	16	14			57
pH	6-9		8	7.7	7.9	8.1	8.1	9.3			8.4	8	7.8	8	7.9	7.8			9.2
Metals in Soil																			
Arsenic	0.39	mg/kg	11	11	9.8	8.6	18	9.4			12	13	12	13	12	15	8.5	7.1	8.7
Barium total	15,000	mg/kg	230	250	220	210	290	360			340	330	300	700	340	290			
Cadmium	70	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Chromium (III)	120,000	mg/kg	13	12	13	11	18	13			11	11	13	11	15	12			
Chromium (VI)	23	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Copper	3,100	mg/kg	14	14	15	14	19	15			13	15	17	16	14	15			
Lead	400	mg/kg	12	12	13	12	15	12			13	20	14	12	12	12			
Mercury	23	mg/kg	0.061	0.035	ND	ND	ND	0.024			0.03	0.023	0.026	0.024	ND	0.028			
Nickel	1,600	mg/kg	18	16	19	18	19	16			15	13	16	13	15	15			
Selenium	390	mg/kg	ND	2	ND	ND	ND	ND			ND	0.62	0.61	ND	ND	ND			
Silver	390	mg/kg	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			
Zinc	23,000	mg/kg	56	54	63	61	64	55			49	63	64	57	52	62			



22-Jan-2014

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

Re: **WPX GV 41-34 Produced Water Spill 1.15.14**

Work Order: **1401533**

Dear Mark,

ALS Environmental received 2 samples on 16-Jan-2014 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 28.

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 ALS Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Produced Water Spill 1.15.14
Work Order: 1401533

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>
1401533-01	West Wall	Soil		1/15/2014 14:00	1/16/2014 09:30	<input type="checkbox"/>
1401533-02	South Wall	Soil		1/15/2014 08:20	1/16/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Produced Water Spill 1.15.14
Work Order: 1401533

Case Narrative

Batch 55032 sample 1401533-02 had one low PAH surrogate recovery. All reporting limits may be biased low out due to matrix interference.

Batch 55032 RPDs between the recoveries for PAHs were above control limits. The individual MS/MSD recoveries met quality control criteria. No data requires qualification.

Batch 55079 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 55100 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Produced Water Spill 1.15.14
WorkOrder: 1401533

**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 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
LCS D	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
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: 22-Jan-14

Client: HRL Compliance Solutions

Project: WPX GV 41-34 Produced Water Spill 1.15.14

Work Order: 1401533

Sample ID: West Wall

Lab ID: 1401533-01

Collection Date: 1/15/2014 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 1/16/2014	Analyst: IT
DRO (C10-C28)	ND		5.1	mg/Kg-dry	1	1/17/2014 12:32 PM
Surr: 4-Terphenyl-d14	49.1		39-115	%REC	1	1/17/2014 12:32 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 1/13/2014	Analyst: IT
GRO (C6-C10)	ND		3.1	mg/Kg-dry	1	1/18/2014 04:19 AM
Surr: Toluene-d8	123		50-150	%REC	1	1/18/2014 04:19 AM
MERCURY BY CVAA			SW7471		Prep Date: 1/21/2014	Analyst: LR
Mercury	0.061		0.024	mg/Kg-dry	1	1/21/2014 02:58 PM
METALS BY ICP-MS			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Arsenic	11		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Barium	230		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Cadmium	ND		0.89	mg/Kg-dry	5	1/20/2014 09:45 PM
Chromium	13		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Copper	14		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Lead	12		2.2	mg/Kg-dry	5	1/21/2014 10:15 AM
Nickel	18		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Selenium	ND		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Silver	ND		2.2	mg/Kg-dry	5	1/20/2014 09:45 PM
Zinc	56		4.4	mg/Kg-dry	5	1/20/2014 09:45 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Calcium	16		10	mg/L	20	1/20/2014 02:31 PM
Magnesium	14		4.0	mg/L	20	1/20/2014 02:31 PM
Sodium	420		4.0	mg/L	20	1/20/2014 02:31 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 1/20/2014	Analyst: ML
Sodium Adsorption Ratio	19		0.010	none	1	1/20/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 1/18/2014	Analyst: RM
Acenaphthene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Acenaphthylene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Benzo(a)anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Benzo(a)pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Benzo(b)fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Benzo(g,h,i)perylene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Benzo(k)fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Chrysene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Dibenzo(a,h)anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM

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

ALS Group USA, Corp

Date: 22-Jan-14

Client: HRL Compliance Solutions

Project: WPX GV 41-34 Produced Water Spill 1.15.14

Work Order: 1401533

Sample ID: West Wall

Lab ID: 1401533-01

Collection Date: 1/15/2014 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Indeno(1,2,3-cd)pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Naphthalene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 02:19 AM
Surr: 2-Fluorobiphenyl	75.4		12-100	%REC	1	1/22/2014 02:19 AM
Surr: 4-Terphenyl-d14	102		25-137	%REC	1	1/22/2014 02:19 AM
Surr: Nitrobenzene-d5	81.0		37-107	%REC	1	1/22/2014 02:19 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 1/14/2014	Analyst: RS
Benzene	ND		37	µg/Kg-dry	1	1/17/2014 03:07 AM
Ethylbenzene	ND		37	µg/Kg-dry	1	1/17/2014 03:07 AM
m,p-Xylene	570		73	µg/Kg-dry	1	1/17/2014 03:07 AM
o-Xylene	76		37	µg/Kg-dry	1	1/17/2014 03:07 AM
Toluene	58		37	µg/Kg-dry	1	1/17/2014 03:07 AM
Xylenes, Total	650		110	µg/Kg-dry	1	1/17/2014 03:07 AM
Surr: 1,2-Dichloroethane-d4	95.6		70-130	%REC	1	1/17/2014 03:07 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	1/17/2014 03:07 AM
Surr: Dibromofluoromethane	97.6		70-130	%REC	1	1/17/2014 03:07 AM
Surr: Toluene-d8	98.4		70-130	%REC	1	1/17/2014 03:07 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/20/2014	Analyst: JJG
Electrical Conductivity @ Saturation	2.2		0.25	mmhos/cm @25	50	1/21/2014 08:05 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	13		0.61	mg/Kg-dry	1	1/21/2014 06:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/20/2014	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	1/21/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	18		0.050	% of sample	1	1/16/2014 04:00 PM
PH			SW9045D		Prep Date: 1/16/2014	Analyst: AT
pH	8.0			s.u.	1	1/16/2014

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

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Produced Water Spill 1.15.14
Sample ID: South Wall
Collection Date: 1/15/2014 08:20 AM

Work Order: 1401533
Lab ID: 1401533-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 1/16/2014	Analyst: IT
DRO (C10-C28)	ND		4.8	mg/Kg-dry	1	1/17/2014 01:02 AM
Surr: 4-Terphenyl-d14	50.6		39-115	%REC	1	1/17/2014 01:02 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 1/13/2014	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	1/18/2014 04:48 AM
Surr: Toluene-d8	114		50-150	%REC	1	1/18/2014 04:48 AM
MERCURY BY CVAA			SW7471		Prep Date: 1/21/2014	Analyst: LR
Mercury	0.035		0.019	mg/Kg-dry	1	1/21/2014 03:00 PM
METALS BY ICP-MS			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Arsenic	11		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Barium	250		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Cadmium	ND		0.76	mg/Kg-dry	5	1/20/2014 09:51 PM
Chromium	12		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Copper	14		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Lead	12		1.9	mg/Kg-dry	5	1/21/2014 10:22 AM
Nickel	16		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Selenium	2.0		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Silver	ND		1.9	mg/Kg-dry	5	1/20/2014 09:51 PM
Zinc	54		3.8	mg/Kg-dry	5	1/20/2014 09:51 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Calcium	470		10	mg/L	20	1/20/2014 02:44 PM
Magnesium	630		4.0	mg/L	20	1/20/2014 02:44 PM
Sodium	9,400		40	mg/L	200	1/20/2014 02:57 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 1/20/2014	Analyst: ML
Sodium Adsorption Ratio	67		0.010	none	1	1/20/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 1/18/2014	Analyst: RM
Acenaphthene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Acenaphthylene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Anthracene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Chrysene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Fluoranthene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM

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

ALS Group USA, Corp

Date: 22-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Produced Water Spill 1.15.14
Sample ID: South Wall
Collection Date: 1/15/2014 08:20 AM

Work Order: 1401533
Lab ID: 1401533-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Naphthalene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Pyrene	ND		7.8	µg/Kg-dry	1	1/22/2014 03:19 AM
Surr: 2-Fluorobiphenyl	31.2		12-100	%REC	1	1/22/2014 03:19 AM
Surr: 4-Terphenyl-d14	44.0		25-137	%REC	1	1/22/2014 03:19 AM
Surr: Nitrobenzene-d5	33.3	S	37-107	%REC	1	1/22/2014 03:19 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 1/14/2014	Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	1/17/2014 03:32 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	1/17/2014 03:32 AM
m,p-Xylene	ND		71	µg/Kg-dry	1	1/17/2014 03:32 AM
o-Xylene	ND		36	µg/Kg-dry	1	1/17/2014 03:32 AM
Toluene	ND		36	µg/Kg-dry	1	1/17/2014 03:32 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	1/17/2014 03:32 AM
Surr: 1,2-Dichloroethane-d4	96.5		70-130	%REC	1	1/17/2014 03:32 AM
Surr: 4-Bromofluorobenzene	99.6		70-130	%REC	1	1/17/2014 03:32 AM
Surr: Dibromofluoromethane	97.8		70-130	%REC	1	1/17/2014 03:32 AM
Surr: Toluene-d8	98.4		70-130	%REC	1	1/17/2014 03:32 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/20/2014	Analyst: JJG
Electrical Conductivity @ Saturation	53		0.25	mmhos/cm @25	50	1/21/2014 08:05 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	12		0.59	mg/Kg-dry	1	1/21/2014 06:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/20/2014	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	1/21/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	16		0.050	% of sample	1	1/16/2014 04:00 PM
PH			SW9045D		Prep Date: 1/16/2014	Analyst: AT
pH	7.7			s.u.	1	1/16/2014

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1401533

Project: WPX GV 41-34 Produced Water Spill 1.15.14

Batch ID: **54970**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-54970-54970				Units: mg/Kg		Analysis Date: 1/16/2014 06:01 PM		
Client ID:		Run ID: GC8_140116A				SeqNo: 2614084		Prep Date: 1/16/2014		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								
<i>Surr: 4-Terphenyl-d14</i>	1.109	0	2	0	55.4	39-115		0		

LCS		Sample ID: DLCSS1-54970-54970				Units: mg/Kg		Analysis Date: 1/16/2014 06:32 PM		
Client ID:		Run ID: GC8_140116A				SeqNo: 2614085		Prep Date: 1/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	196.4	5.0	200	0	98.2	49-124		0		
<i>Surr: 4-Terphenyl-d14</i>	1.072	0	2	0	53.6	39-115		0		

MS		Sample ID: 1401530-02B MS				Units: mg/Kg		Analysis Date: 1/16/2014 07:02 PM		
Client ID:		Run ID: GC8_140116A				SeqNo: 2614086		Prep Date: 1/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	418.6	8.1	322	62.69	111	49-130		0		
<i>Surr: 4-Terphenyl-d14</i>	1.816	0	3.22	0	56.4	39-115		0		

MSD		Sample ID: 1401530-02B MSD				Units: mg/Kg		Analysis Date: 1/16/2014 07:32 PM		
Client ID:		Run ID: GC8_140116A				SeqNo: 2614087		Prep Date: 1/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	316	8.1	325.8	62.69	77.7	49-130	418.6	28	30	
<i>Surr: 4-Terphenyl-d14</i>	1.705	0	3.258	0	52.3	39-115	1.816	6.28	30	

The following samples were analyzed in this batch: | 1401533-01B | 1401533-02B |

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **54954** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-54954-54954				Units: µg/Kg		Analysis Date: 1/17/2014 11:20 AM		
Client ID:		Run ID: GC9_140117A				SeqNo: 2614206		Prep Date: 1/13/2014		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>	6187	0	5000	0	124	50-150	0			

LCS		Sample ID: LCS-54954-54954				Units: µg/Kg		Analysis Date: 1/17/2014 10:04 AM		
Client ID:		Run ID: GC9_140117A				SeqNo: 2614204		Prep Date: 1/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	595200	2,500	500000	0	119	70-130	0			
<i>Surr: Toluene-d8</i>	4604	0	5000	0	92.1	50-150	0			

MS		Sample ID: 1401530-01A MS				Units: µg/Kg		Analysis Date: 1/17/2014 09:31 PM		
Client ID:		Run ID: GC9_140117A				SeqNo: 2614440		Prep Date: 1/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	667900	2,500	500000	54100	123	70-130	0			
<i>Surr: Toluene-d8</i>	5740	0	5000	0	115	50-150	0			

MSD		Sample ID: 1401530-01A MSD				Units: µg/Kg		Analysis Date: 1/17/2014 09:57 PM		
Client ID:		Run ID: GC9_140117A				SeqNo: 2614441		Prep Date: 1/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	667000	2,500	500000	54100	123	70-130	667900	0.136	30	
<i>Surr: Toluene-d8</i>	5572	0	5000	0	111	50-150	5740	2.96	30	

The following samples were analyzed in this batch: 1401533-01A 1401533-02A

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **55074** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-55074-55074				Units: mg/Kg			Analysis Date: 1/21/2014 02:23 PM		
Client ID:	Run ID: HG1_140121B				SeqNo: 2617604		Prep Date: 1/21/2014		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-55074-55074				Units: mg/Kg			Analysis Date: 1/21/2014 02:29 PM		
Client ID:	Run ID: HG1_140121B				SeqNo: 2617605		Prep Date: 1/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1794 0.020 0.1665 0 108 80-120 0

MS	Sample ID: 1401641-01CMS				Units: mg/Kg			Analysis Date: 1/21/2014 02:37 PM		
Client ID:	Run ID: HG1_140121B				SeqNo: 2617607		Prep Date: 1/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1824 0.019 0.1604 0.007176 109 75-125 0

MS	Sample ID: 1401641-09CMS				Units: mg/Kg			Analysis Date: 1/21/2014 02:46 PM		
Client ID:	Run ID: HG1_140121B				SeqNo: 2617611		Prep Date: 1/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1413 0.016 0.1292 0.01369 98.7 75-125 0

MSD	Sample ID: 1401641-01CMSD				Units: mg/Kg			Analysis Date: 1/21/2014 02:39 PM		
Client ID:	Run ID: HG1_140121B				SeqNo: 2617608		Prep Date: 1/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1715 0.019 0.1596 0.007176 103 75-125 0.1824 6.18 35

MSD	Sample ID: 1401641-09CMSD				Units: mg/Kg			Analysis Date: 1/21/2014 02:49 PM		
Client ID:	Run ID: HG1_140121B				SeqNo: 2617612		Prep Date: 1/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1519 0.015 0.1276 0.01369 108 75-125 0.1413 7.22 35

The following samples were analyzed in this batch: 1401533-01B 1401533-02B

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

Client: HRL Compliance Solutions
Work Order: 1401533
Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **54980** Instrument ID **ICPMS1** Method: **SW6020A**

DUP		Sample ID: 1401533-01CDUP				Units: mg/L		Analysis Date: 1/20/2014 02:37 PM		
Client ID: West Wall		Run ID: ICPMS1_140120A				SeqNo: 2615652		Prep Date: 1/20/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	11.23	10	0	0	0	0-0	16.21	36.3		
Magnesium	9.346	4.0	0	0	0	0-0	13.71	37.8		
Sodium	302.4	4.0	0	0	0	0-0	422.2	33.1		

DUP		Sample ID: 1401533-01CDUP				Units: none		Analysis Date: 1/20/2014		
Client ID: West Wall		Run ID: SAR_140120A				SeqNo: 2615669		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	16.13	0.010	0	0	0		18.66	14.5	50	

The following samples were analyzed in this batch: | 1401533-01C 1401533-02C |

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

Client: HRL Compliance Solutions
Work Order: 1401533
Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **55079** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-55079-55079				Units: mg/Kg		Analysis Date: 1/20/2014 09:33 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616208		Prep Date: 1/20/2014		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	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.06275	0.50								J

MBLK		Sample ID: MBLK-55079-55079				Units: mg/Kg		Analysis Date: 1/21/2014 10:03 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616829		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	ND	0.25								

LCS		Sample ID: LCS-55079-55079				Units: mg/Kg		Analysis Date: 1/20/2014 09:39 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616209		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.636	0.25	5	0	92.7	80-120	0			
Barium	4.841	0.25	5	0	96.8	80-120	0			
Cadmium	4.76	0.10	5	0	95.2	80-120	0			
Chromium	4.76	0.25	5	0	95.2	80-120	0			
Copper	4.86	0.25	5	0	97.2	80-120	0			
Nickel	4.828	0.25	5	0	96.6	80-120	0			
Selenium	4.165	0.25	5	0	83.3	80-120	0			
Silver	4.876	0.25	5	0	97.5	80-120	0			
Zinc	4.708	0.50	5	0	94.2	80-120	0			

LCS		Sample ID: LCS-55079-55079				Units: mg/Kg		Analysis Date: 1/21/2014 10:09 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616831		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4.904	0.25	5	0	98.1	80-120	0			

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: 55079 Instrument ID ICPMS1 Method: SW6020A

MS		Sample ID: 1401674-05BMS				Units: mg/Kg		Analysis Date: 1/20/2014 10:09 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616214		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.05	1.4	6.954	9.245	112	75-125	0			
Barium	48.96	1.4	6.954	38.4	152	75-125	0			SO
Cadmium	7.321	0.56	6.954	0.1408	103	75-125	0			
Chromium	16.33	1.4	6.954	7.501	127	75-125	0			S
Copper	17.42	1.4	6.954	10.49	99.6	75-125	0			
Nickel	17.72	1.4	6.954	11.16	94.2	75-125	0			
Selenium	7.477	1.4	6.954	0.5576	99.5	75-125	0			
Silver	6.846	1.4	6.954	0.03394	98	75-125	0			
Zinc	36.02	2.8	6.954	28.84	103	75-125	0			O

MS		Sample ID: 1401674-05BMS				Units: mg/Kg		Analysis Date: 1/21/2014 11:14 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2617399		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	15.18	1.4	6.954	7.719	107	75-125	0			

MSD		Sample ID: 1401674-05BMSD				Units: mg/Kg		Analysis Date: 1/20/2014 10:15 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616215		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.07	1.4	7.062	9.245	111	75-125	17.05	0.0958	25	
Barium	48.42	1.4	7.062	38.4	142	75-125	48.96	1.11	25	SO
Cadmium	7.497	0.56	7.062	0.1408	104	75-125	7.321	2.37	25	
Chromium	15.84	1.4	7.062	7.501	118	75-125	16.33	3.02	25	
Copper	16.73	1.4	7.062	10.49	88.4	75-125	17.42	4.01	25	
Nickel	17.78	1.4	7.062	11.16	93.7	75-125	17.72	0.373	25	
Selenium	7.277	1.4	7.062	0.5576	95.1	75-125	7.477	2.71	25	
Silver	7.059	1.4	7.062	0.03394	99.5	75-125	6.846	3.07	25	
Zinc	36.13	2.8	7.062	28.84	103	75-125	36.02	0.299	25	O

MSD		Sample ID: 1401674-05BMSD				Units: mg/Kg		Analysis Date: 1/21/2014 11:20 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2617401		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	14.76	1.4	7.062	7.719	99.7	75-125	15.18	2.8	25	

The following samples were analyzed in this batch: 1401533-01B 1401533-02B

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: 55032 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: SBLKS1-55032-55032				Units: µg/Kg		Analysis Date: 1/20/2014 08:36 PM		
Client ID:		Run ID: SVMS8_140120A		SeqNo: 2618907		Prep Date: 1/18/2014		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>	1297	0	1667	0	77.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1786	0	1667	0	107	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1289	0	1667	0	77.3	37-107	0			

LCS		Sample ID: SLCSS1-55032-55032				Units: µg/Kg		Analysis Date: 1/20/2014 08:56 PM		
Client ID:		Run ID: SVMS8_140120A		SeqNo: 2618911		Prep Date: 1/18/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	488.3	6.7	666.7	0	73.2	45-110	0			
Acenaphthylene	501	6.7	666.7	0	75.1	45-105	0			
Anthracene	544.3	6.7	666.7	0	81.6	55-105	0			
Benzo(a)anthracene	544	6.7	666.7	0	81.6	50-110	0			
Benzo(a)pyrene	543.3	6.7	666.7	0	81.5	50-110	0			
Benzo(b)fluoranthene	595	6.7	666.7	0	89.2	45-115	0			
Benzo(g,h,i)perylene	487	6.7	666.7	0	73	40-125	0			
Benzo(k)fluoranthene	593.7	6.7	666.7	0	89	45-115	0			
Chrysene	530.3	6.7	666.7	0	79.5	55-110	0			
Dibenzo(a,h)anthracene	505.7	6.7	666.7	0	75.8	40-125	0			
Fluoranthene	559.3	6.7	666.7	0	83.9	55-115	0			
Fluorene	500.7	6.7	666.7	0	75.1	50-110	0			
Indeno(1,2,3-cd)pyrene	510	6.7	666.7	0	76.5	40-120	0			
Naphthalene	476.7	6.7	666.7	0	71.5	40-105	0			
Pyrene	580.3	6.7	666.7	0	87	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1184	0	1667	0	71	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1570	0	1667	0	94.2	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1170	0	1667	0	70.2	37-107	0			

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: 55032 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 1401641-01C MS			Units: µg/Kg		Analysis Date: 1/20/2014 10:45 PM		
Client ID:				Run ID: SVMS8_140120A			SeqNo: 2618915		Prep Date: 1/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1032	13	1264	0	81.6	45-110	0				
Acenaphthylene	1013	13	1264	0	80.1	45-105	0				
Anthracene	1170	13	1264	0	92.5	55-105	0				
Benzo(a)anthracene	1198	13	1264	0	94.8	50-110	0				
Benzo(a)pyrene	1200	13	1264	0	94.9	50-110	0				
Benzo(b)fluoranthene	1254	13	1264	0	99.2	45-115	0				
Benzo(g,h,i)perylene	1218	13	1264	0	96.3	40-125	0				
Benzo(k)fluoranthene	1237	13	1264	0	97.8	45-115	0				
Chrysene	1149	13	1264	0	90.9	55-110	0				
Dibenzo(a,h)anthracene	1190	13	1264	0	94.2	40-125	0				
Fluoranthene	1174	13	1264	0	92.9	55-115	0				
Fluorene	1047	13	1264	0	82.8	50-110	0				
Indeno(1,2,3-cd)pyrene	1222	13	1264	0	96.7	40-120	0				
Naphthalene	939.6	13	1264	0	74.3	40-105	0				
Pyrene	1264	13	1264	0	100	45-125	0				
Surr: 2-Fluorobiphenyl	2431	0	3159	0	77	12-100	0				
Surr: 4-Terphenyl-d14	3349	0	3159	0	106	25-137	0				
Surr: Nitrobenzene-d5	2371	0	3159	0	75.1	37-107	0				

MS				Sample ID: 1401641-09C MS			Units: µg/Kg		Analysis Date: 1/20/2014 11:25 PM		
Client ID:				Run ID: SVMS8_140120A			SeqNo: 2618924		Prep Date: 1/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1009	13	1254	0	80.5	45-110	0				
Acenaphthylene	1059	13	1254	0	84.4	45-105	0				
Anthracene	1185	13	1254	0	94.5	55-105	0				
Benzo(a)anthracene	1175	13	1254	0	93.7	50-110	0				
Benzo(a)pyrene	1194	13	1254	0	95.2	50-110	0				
Benzo(b)fluoranthene	1257	13	1254	0	100	45-115	0				
Benzo(g,h,i)perylene	1201	13	1254	0	95.8	40-125	0				
Benzo(k)fluoranthene	1225	13	1254	0	97.7	45-115	0				
Chrysene	1141	13	1254	0	91	55-110	0				
Dibenzo(a,h)anthracene	1176	13	1254	0	93.8	40-125	0				
Fluoranthene	1161	13	1254	0	92.6	55-115	0				
Fluorene	1109	13	1254	0	88.5	50-110	0				
Indeno(1,2,3-cd)pyrene	1237	13	1254	0	98.6	40-120	0				
Naphthalene	1014	13	1254	0	80.9	40-105	0				
Pyrene	1252	13	1254	0	99.9	45-125	0				
Surr: 2-Fluorobiphenyl	2556	0	3134	0	81.6	12-100	0				
Surr: 4-Terphenyl-d14	3428	0	3134	0	109	25-137	0				
Surr: Nitrobenzene-d5	2521	0	3134	0	80.4	37-107	0				

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: 55032 Instrument ID SVMS8 Method: SW8270

MSD		Sample ID: 1401641-01C MSD			Units: µg/Kg			Analysis Date: 1/20/2014 11:05 PM		
Client ID:		Run ID: SVMS8_140120A			SeqNo: 2618919		Prep Date: 1/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1105	13	1282	0	86.2	45-110	1032	6.83	30	
Acenaphthylene	1109	13	1282	0	86.5	45-105	1013	9.03	30	
Anthracene	1211	13	1282	0	94.4	55-105	1170	3.44	30	
Benzo(a)anthracene	1221	13	1282	0	95.3	50-110	1198	1.94	30	
Benzo(a)pyrene	1225	13	1282	0	95.5	50-110	1200	2.04	30	
Benzo(b)fluoranthene	1284	13	1282	0	100	45-115	1254	2.42	30	
Benzo(g,h,i)perylene	1275	13	1282	0	99.4	40-125	1218	4.58	30	
Benzo(k)fluoranthene	1271	13	1282	0	99.2	45-115	1237	2.78	30	
Chrysene	1196	13	1282	0	93.3	55-110	1149	4.02	30	
Dibenzo(a,h)anthracene	1248	13	1282	0	97.4	40-125	1190	4.75	30	
Fluoranthene	1232	13	1282	0	96.1	55-115	1174	4.85	30	
Fluorene	1158	13	1282	0	90.3	50-110	1047	10.1	30	
Indeno(1,2,3-cd)pyrene	1318	13	1282	0	103	40-120	1222	7.57	30	
Naphthalene	1018	13	1282	0	79.4	40-105	939.6	8.04	30	
Pyrene	1288	13	1282	0	100	45-125	1264	1.91	30	
Surr: 2-Fluorobiphenyl	2622	0	3204	0	81.8	12-100	2431	7.56	40	
Surr: 4-Terphenyl-d14	3389	0	3204	0	106	25-137	3349	1.19	40	
Surr: Nitrobenzene-d5	2551	0	3204	0	79.6	37-107	2371	7.31	40	

MSD		Sample ID: 1401641-09C MSD			Units: µg/Kg			Analysis Date: 1/20/2014 11:45 PM		
Client ID:		Run ID: SVMS8_140120A			SeqNo: 2618928		Prep Date: 1/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	659.8	13	1264	0	52.2	45-110	1009	41.8	30	R
Acenaphthylene	688.9	13	1264	0	54.5	45-105	1059	42.3	30	R
Anthracene	728.7	13	1264	0	57.6	55-105	1185	47.7	30	R
Benzo(a)anthracene	730	13	1264	0	57.7	50-110	1175	46.7	30	R
Benzo(a)pyrene	745.2	13	1264	0	58.9	50-110	1194	46.3	30	R
Benzo(b)fluoranthene	770.4	13	1264	0	60.9	45-115	1257	48	30	R
Benzo(g,h,i)perylene	723.7	13	1264	0	57.2	40-125	1201	49.6	30	R
Benzo(k)fluoranthene	756.5	13	1264	0	59.8	45-115	1225	47.3	30	R
Chrysene	700.9	13	1264	0	55.4	55-110	1141	47.8	30	R
Dibenzo(a,h)anthracene	731.9	13	1264	0	57.9	40-125	1176	46.5	30	R
Fluoranthene	722.4	13	1264	0	57.1	55-115	1161	46.6	30	R
Fluorene	695.9	13	1264	0	55	50-110	1109	45.8	30	R
Indeno(1,2,3-cd)pyrene	776.1	13	1264	0	61.4	40-120	1237	45.7	30	R
Naphthalene	693.3	13	1264	0	54.8	40-105	1014	37.6	30	R
Pyrene	770.4	13	1264	0	60.9	45-125	1252	47.6	30	R
Surr: 2-Fluorobiphenyl	1837	0	3160	0	58.1	12-100	2556	32.7	40	
Surr: 4-Terphenyl-d14	2196	0	3160	0	69.5	25-137	3428	43.8	40	R
Surr: Nitrobenzene-d5	1852	0	3160	0	58.6	37-107	2521	30.6	40	

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

Client: HRL Compliance Solutions
Work Order: 1401533
Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **55032** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1401533-01B	1401533-02B
-------------	-------------

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **54963** Instrument ID **VMS9** Method: **SW8260B**

MBLK		Sample ID: MBLK-54963-54963			Units: µg/Kg			Analysis Date: 1/16/2014 02:14 PM		
Client ID:		Run ID: VMS9_140116A			SeqNo: 2613147		Prep Date: 1/14/2014		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	1114	0	1000	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	993.5	0	1000	0	99.4	70-130	0			
Surr: Dibromofluoromethane	1002	0	1000	0	100	70-130	0			
Surr: Toluene-d8	926	0	1000	0	92.6	70-130	0			

LCS		Sample ID: LCS-54963-54963			Units: µg/Kg			Analysis Date: 1/16/2014 12:37 PM		
Client ID:		Run ID: VMS9_140116A			SeqNo: 2613146		Prep Date: 1/14/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	970	30	1000	0	97	75-125	0			
Ethylbenzene	1002	30	1000	0	100	75-125	0			
m,p-Xylene	2025	60	2000	0	101	80-125	0			
o-Xylene	978.5	30	1000	0	97.8	75-125	0			
Toluene	954.5	30	1000	0	95.4	70-125	0			
Xylenes, Total	3004	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	1126	0	1000	0	113	70-130	0			
Surr: 4-Bromofluorobenzene	1028	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	1056	0	1000	0	106	70-130	0			
Surr: Toluene-d8	955	0	1000	0	95.5	70-130	0			

MS		Sample ID: 1401533-01A MS			Units: µg/Kg			Analysis Date: 1/17/2014 10:02 AM		
Client ID: West Wall		Run ID: VMS8_140116B			SeqNo: 2613781		Prep Date: 1/14/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1016	30	1000	0	102	75-125	0			
Ethylbenzene	1098	30	1000	28.5	107	75-125	0			
m,p-Xylene	2668	60	2000	469.5	110	80-125	0			
o-Xylene	1143	30	1000	62.5	108	75-125	0			
Toluene	1130	30	1000	47.5	108	70-125	0			
Xylenes, Total	3811	90	3000	532	109	75-125	0			
Surr: 1,2-Dichloroethane-d4	956	0	1000	0	95.6	70-130	0			
Surr: 4-Bromofluorobenzene	1028	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	979.5	0	1000	0	98	70-130	0			
Surr: Toluene-d8	984	0	1000	0	98.4	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1401533
Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **54963** Instrument ID **VMS9** Method: **SW8260B**

MSD		Sample ID: 1401533-01A MSD				Units: µg/Kg		Analysis Date: 1/17/2014 10:27 AM		
Client ID: West Wall		Run ID: VMS8_140116B				SeqNo: 2613782		Prep Date: 1/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	984	30	1000	0	98.4	75-125	1016	3.15	30	
Ethylbenzene	1056	30	1000	28.5	103	75-125	1098	3.81	30	
m,p-Xylene	2545	60	2000	469.5	104	80-125	2668	4.72	30	
o-Xylene	1114	30	1000	62.5	105	75-125	1143	2.52	30	
Toluene	1083	30	1000	47.5	104	70-125	1130	4.2	30	
Xylenes, Total	3660	90	3000	532	104	75-125	3811	4.06	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	944	0	1000	0	94.4	70-130	956	1.26	30	
<i>Surr: 4-Bromofluorobenzene</i>	1025	0	1000	0	102	70-130	1028	0.244	30	
<i>Surr: Dibromofluoromethane</i>	963	0	1000	0	96.3	70-130	979.5	1.7	30	
<i>Surr: Toluene-d8</i>	967	0	1000	0	96.7	70-130	984	1.74	30	

The following samples were analyzed in this batch: | 1401533-01A 1401533-02A |

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **54976** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-54976-54976				Units: s.u.		Analysis Date: 1/16/2014			
Client ID:		Run ID: WETCHEM_140116E			SeqNo: 2612680		Prep Date: 1/16/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 4 0 4 0 100 90-110 0

DUP		Sample ID: 1401497-01C DUP				Units: s.u.		Analysis Date: 1/16/2014			
Client ID:		Run ID: WETCHEM_140116E			SeqNo: 2612682		Prep Date: 1/16/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 8.04 0 0 0 0 0-0 8.1 0.743 20

DUP		Sample ID: 1401533-01B DUP				Units: s.u.		Analysis Date: 1/16/2014			
Client ID: West Wall		Run ID: WETCHEM_140116E			SeqNo: 2612692		Prep Date: 1/16/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 8.09 0 0 0 0 0-0 8.05 0.496 20

The following samples were analyzed in this batch: 1401533-01B 1401533-02B

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

Client: HRL Compliance Solutions
Work Order: 1401533
Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **54980** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1401533-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 1/21/2014 08:05 AM		
Client ID: West Wall		Run ID: WETCHEM_140121B			SeqNo: 2616286		Prep Date: 1/20/2014		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.59	0.25	0	0	0		2.195	32	50	

The following samples were analyzed in this batch:

1401533-01C	1401533-02C
-------------	-------------

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

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **55100** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-55100-55100				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617963		Prep Date: 1/20/2014		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-55100-55100				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617962		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.988 0.50 2 0 99.4 80-120 0

MS		Sample ID: 1401641-09CMS				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617950		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.636 0.50 2 0 31.8 75-125 0 S

MS		Sample ID: 1401641-09CMSI				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617952		Prep Date: 1/20/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 821.4 50 798.1 0 103 75-125 0

MS		Sample ID: 1401702-03B MS				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617957		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.604 0.51 2.041 0.1687 70.3 75-125 0 S

MS		Sample ID: 1401702-03B MSI				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617959		Prep Date: 1/20/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1129 49 1263 0.1687 89.3 75-125 0

MSD		Sample ID: 1401641-09CMSD				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617951		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4706 0.49 1.961 0 24 75-125 0.636 0 20 JS

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

Client: HRL Compliance Solutions
Work Order: 1401533
Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **55100** Instrument ID **WETCHEM** Method: **SW7196A**

MSD		Sample ID: 1401702-03B MSD				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM			
Client ID:		Run ID: WETCHEM_140121M			SeqNo: 2617958		Prep Date: 1/20/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	1.502	0.49	1.976	0.1687	67.5	75-125	1.604	6.57	20	S	

The following samples were analyzed in this batch:

1401533-01B	1401533-02B
-------------	-------------

Client: HRL Compliance Solutions
 Work Order: 1401533
 Project: WPX GV 41-34 Produced Water Spill 1.15.14

QC BATCH REPORT

Batch ID: **R134144** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R134144				Units: % of sample			Analysis Date: 1/16/2014 04:00 PM		
Client ID:		Run ID: MOIST_140116D				SeqNo: 2613773		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.03	0.050								J	

LCS		Sample ID: LCS-R134144				Units: % of sample			Analysis Date: 1/16/2014 04:00 PM		
Client ID:		Run ID: MOIST_140116D				SeqNo: 2613769		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: 1401533-01B DUP				Units: % of sample			Analysis Date: 1/16/2014 04:00 PM		
Client ID: West Wall		Run ID: MOIST_140116D				SeqNo: 2613749		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	18.27	0.050	0		0	0	0-0	18.14	0.714	20	

DUP		Sample ID: 1401550-07B DUP				Units: % of sample			Analysis Date: 1/16/2014 04:00 PM		
Client ID:		Run ID: MOIST_140116D				SeqNo: 2613765		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	13.71	0.050	0		0	0	0-0	12.03	13.1	20	

The following samples were analyzed in this batch: 1401533-01B 1401533-02B

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 #	1401533
-------------	---------

PROJECT NAME	WPX <i>GV41-34 produced</i>	SAMPLER	Reed Wold	DATE	11/5/14	PAGE	1 of 1
PROJECT No.	<i>Water Spill</i>	SITE ID	<i>GV41-34</i>	TURNAROUND	<i>5 Day</i>	DISPOSAL	<u>By Lab</u> or Return to Client
COMPANY NAME	HRL Compliance	EDD FORMAT		<i>BTEX/GRO DRDPAH/ Metals SAR/EC/PH</i>			
SEND REPORT TO	Mark Mumby	PURCHASE ORDER					
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX				
CITY / STATE / ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney				
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215				
FAX	970-243-3280	CITY / STATE / ZIP	Parachure CO 81635				
E-MAIL	<i>mmumby@hrlcomp.com</i> <i>rwold@hrlcomp.com</i>	PHONE	970-683-2295				
		E-MAIL	<i>Karolina.blaney@wpxenergy.com</i>				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC												
1	<i>West Wall</i>	<i>So</i>	<i>11/5/14</i>	<i>2:00</i>	<i>3</i>	<i>8</i>		<i>X</i>	<i>X</i>	<i>X</i>									
2	<i>South Wall</i>			<i>8:20</i>				<i>X</i>	<i>X</i>	<i>X</i>									

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

For metals or anions, please detail analytes below.

Comments: <div style="text-align: right; font-size: 2em;"> </div>	QC PACKAGE (check below)
	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> 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	<i>Reed Wold</i>	<i>Reed Wold</i>	<i>11/5/14</i>	<i>3:00</i>
RECEIVED BY	<i>W.M.</i>	<i>W.M.</i>	<i>1-5-14</i>	<i>3:16</i>
RELINQUISHED BY	<i>W.M.</i>	<i>W.M.</i>	<i>1-5-14</i>	<i>3:30</i>
RECEIVED BY	<i>D-F Shaw</i>	<i>Diane F. Shaw</i>	<i>1/16/14</i>	<i>0930</i>
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **16-Jan-14 09:30**

Work Order: **1401533**

Received by: **DS**

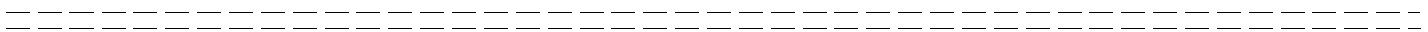
Checklist completed by Diane Shaw 16-Jan-14
eSignature Date

Reviewed by: Ann Preston 16-Jan-14
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):	<input type="text" value="4.4 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="1/16/2014 11:18:01 AM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (970) 424-4749
Lab Hub, LLC
127 E First Street
PARACHUTE, CO 81635

Origin ID: RILA



Ship Date: 15 JAN 14
ActWgt: 76.0 LB
CAD: 103823480/INE

Lab Hub LLC. Custody seal
Date: 1-15-14
Time: 1:30



Ref # 1001-6445142
Invoice #
PO #
Dept #

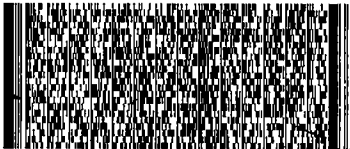
SHIP TO: (616) 399-6070
Sample receiving
ALS Holland
3352 128TH AVE

BILL RECIPIENT

HOLLAND, MI 49424

THU - 16 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 7976 4591 0466
0201



XX GRRR

49424
MI-US
GRR



51AG1DREC1A8E

After printing this label:

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

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

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

Handwritten signature: SIRD
Handwritten initials: CL



27-Jan-2014

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

Re: **WPX GV 41-34 Prod. Water Spill 1.17.14**

Work Order: **1401702**

Dear Mark,

ALS Environmental received 3 samples on 18-Jan-2014 11:00 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 32.

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

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Work Order: 1401702

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>
1401702-01	Excavation Bottom 30ft	Soil		1/17/2014 11:00	1/18/2014 11:00	<input type="checkbox"/>
1401702-02	North Wall	Soil		1/17/2014 12:35	1/18/2014 11:00	<input type="checkbox"/>
1401702-03	East Wall	Soil		1/17/2014 12:45	1/18/2014 11:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Work Order: 1401702

Case Narrative

Batch 55079 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 55100 sample East Wall MS/MSD recoveries for Hexavalent Chromium were below control limits. The corresponding result in the parent sample may be biased low for Hexavalent Chromium.

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
WorkOrder: 1401702

**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 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
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: 27-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Sample ID: Excavation Bottom 30ft
Collection Date: 1/17/2014 11:00 AM

Work Order: 1401702
Lab ID: 1401702-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 1/20/2014	Analyst: IT
DRO (C10-C28)	40		4.9	mg/Kg-dry	1	1/21/2014 05:38 AM
<i>Surr: 4-Terphenyl-d14</i>	49.8		39-115	%REC	1	1/21/2014 05:38 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 1/20/2014	Analyst: IT
GRO (C6-C10)	34		3.0	mg/Kg-dry	1	1/20/2014 07:41 PM
<i>Surr: Toluene-d8</i>	99.9		50-150	%REC	1	1/20/2014 07:41 PM
MERCURY BY CVAA			SW7471		Prep Date: 1/22/2014	Analyst: LR
Mercury	ND		0.023	mg/Kg-dry	1	1/22/2014 04:21 PM
METALS BY ICP-MS			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Arsenic	18		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Barium	290		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Cadmium	ND		0.91	mg/Kg-dry	5	1/20/2014 10:27 PM
Chromium	18		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Copper	19		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Lead	15		2.3	mg/Kg-dry	5	1/21/2014 11:42 AM
Nickel	19		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Selenium	ND		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Silver	ND		2.3	mg/Kg-dry	5	1/20/2014 10:27 PM
Zinc	64		4.5	mg/Kg-dry	5	1/20/2014 10:27 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 1/23/2014	Analyst: ML
Calcium	430		10	mg/L	20	1/24/2014 11:07 AM
Magnesium	130		4.0	mg/L	20	1/24/2014 11:07 AM
Sodium	2,400		4.0	mg/L	20	1/24/2014 11:07 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 1/23/2014	Analyst: RH
Sodium Adsorption Ratio	26		0.010	none	1	1/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 1/20/2014	Analyst: RM
Acenaphthene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Acenaphthylene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Anthracene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Benzo(a)anthracene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Chrysene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Fluoranthene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM

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

ALS Group USA, Corp

Date: 27-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Sample ID: Excavation Bottom 30ft
Collection Date: 1/17/2014 11:00 AM

Work Order: 1401702
Lab ID: 1401702-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Naphthalene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Pyrene	ND		7.9	µg/Kg-dry	1	1/22/2014 06:19 AM
Surr: 2-Fluorobiphenyl	64.3		12-100	%REC	1	1/22/2014 06:19 AM
Surr: 4-Terphenyl-d14	113		25-137	%REC	1	1/22/2014 06:19 AM
Surr: Nitrobenzene-d5	65.2		37-107	%REC	1	1/22/2014 06:19 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 1/20/2014	Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	1/20/2014 09:27 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	1/20/2014 09:27 PM
m,p-Xylene	120		72	µg/Kg-dry	1	1/20/2014 09:27 PM
o-Xylene	ND		36	µg/Kg-dry	1	1/20/2014 09:27 PM
Toluene	ND		36	µg/Kg-dry	1	1/20/2014 09:27 PM
Xylenes, Total	120		110	µg/Kg-dry	1	1/20/2014 09:27 PM
Surr: 1,2-Dichloroethane-d4	93.8		70-130	%REC	1	1/20/2014 09:27 PM
Surr: 4-Bromofluorobenzene	97.0		70-130	%REC	1	1/20/2014 09:27 PM
Surr: Dibromofluoromethane	97.0		70-130	%REC	1	1/20/2014 09:27 PM
Surr: Toluene-d8	92.8		70-130	%REC	1	1/20/2014 09:27 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/23/2014	Analyst: JB
Electrical Conductivity @ Saturation	14		0.050	mmhos/cm @25	10	1/23/2014 01:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	18		0.60	mg/Kg-dry	1	1/21/2014 06:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/20/2014	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	1/21/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	1/20/2014 02:37 PM
PH			SW9045D		Prep Date: 1/21/2014	Analyst: AT
pH	8.1			s.u.	1	1/21/2014 04:00 PM

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

ALS Group USA, Corp

Date: 27-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Sample ID: North Wall
Collection Date: 1/17/2014 12:35 PM

Work Order: 1401702
Lab ID: 1401702-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 1/20/2014	Analyst: IT
DRO (C10-C28)	ND		5.0	mg/Kg-dry	1	1/21/2014 06:08 AM
Surr: 4-Terphenyl-d14	39.7		39-115	%REC	1	1/21/2014 06:08 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 1/20/2014	Analyst: IT
GRO (C6-C10)	37		3.0	mg/Kg-dry	1	1/20/2014 08:29 PM
Surr: Toluene-d8	112		50-150	%REC	1	1/20/2014 08:29 PM
MERCURY BY CVAA			SW7471		Prep Date: 1/22/2014	Analyst: LR
Mercury	ND		0.021	mg/Kg-dry	1	1/22/2014 04:23 PM
METALS BY ICP-MS			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Arsenic	9.8		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Barium	220		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Cadmium	ND		0.82	mg/Kg-dry	5	1/21/2014 12:11 AM
Chromium	13		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Copper	15		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Lead	13		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Nickel	19		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Selenium	ND		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Silver	ND		2.0	mg/Kg-dry	5	1/21/2014 12:11 AM
Zinc	63		4.1	mg/Kg-dry	5	1/21/2014 12:11 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 1/23/2014	Analyst: ML
Calcium	460		10	mg/L	20	1/24/2014 11:13 AM
Magnesium	160		4.0	mg/L	20	1/24/2014 11:13 AM
Sodium	1,200		4.0	mg/L	20	1/24/2014 11:13 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 1/23/2014	Analyst: RH
Sodium Adsorption Ratio	13		0.010	none	1	1/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 1/20/2014	Analyst: RM
Acenaphthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Acenaphthylene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Benzo(a)anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Benzo(a)pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Benzo(b)fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Benzo(g,h,i)perylene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Benzo(k)fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Chrysene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Dibenzo(a,h)anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM

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

ALS Group USA, Corp

Date: 27-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Sample ID: North Wall
Collection Date: 1/17/2014 12:35 PM

Work Order: 1401702
Lab ID: 1401702-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Indeno(1,2,3-cd)pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Naphthalene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:39 AM
Surr: 2-Fluorobiphenyl	44.9		12-100	%REC	1	1/22/2014 06:39 AM
Surr: 4-Terphenyl-d14	69.9		25-137	%REC	1	1/22/2014 06:39 AM
Surr: Nitrobenzene-d5	47.4		37-107	%REC	1	1/22/2014 06:39 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 1/20/2014	Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	1/20/2014 09:52 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	1/20/2014 09:52 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	1/20/2014 09:52 PM
o-Xylene	ND		36	µg/Kg-dry	1	1/20/2014 09:52 PM
Toluene	ND		36	µg/Kg-dry	1	1/20/2014 09:52 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	1/20/2014 09:52 PM
Surr: 1,2-Dichloroethane-d4	90.7		70-130	%REC	1	1/20/2014 09:52 PM
Surr: 4-Bromofluorobenzene	97.0		70-130	%REC	1	1/20/2014 09:52 PM
Surr: Dibromofluoromethane	97.4		70-130	%REC	1	1/20/2014 09:52 PM
Surr: Toluene-d8	94.7		70-130	%REC	1	1/20/2014 09:52 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/23/2014	Analyst: JB
Electrical Conductivity @ Saturation	8.9		0.050	mmhos/cm @25	10	1/23/2014 01:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	13		0.60	mg/Kg-dry	1	1/21/2014 06:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/20/2014	Analyst: MB
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	1/21/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	1/20/2014 02:37 PM
PH			SW9045D		Prep Date: 1/21/2014	Analyst: AT
pH	7.9			s.u.	1	1/21/2014 04:00 PM

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

ALS Group USA, Corp

Date: 27-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Sample ID: East Wall
Collection Date: 1/17/2014 12:45 PM

Work Order: 1401702
Lab ID: 1401702-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 1/20/2014	Analyst: IT
DRO (C10-C28)	28		5.0	mg/Kg-dry	1	1/21/2014 06:38 AM
<i>Surr: 4-Terphenyl-d14</i>	55.3		39-115	%REC	1	1/21/2014 06:38 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 1/20/2014	Analyst: IT
GRO (C6-C10)	15		3.0	mg/Kg-dry	1	1/20/2014 08:53 PM
<i>Surr: Toluene-d8</i>	102		50-150	%REC	1	1/20/2014 08:53 PM
MERCURY BY CVAA			SW7471		Prep Date: 1/22/2014	Analyst: LR
Mercury	ND		0.019	mg/Kg-dry	1	1/22/2014 04:26 PM
METALS BY ICP-MS			SW6020A		Prep Date: 1/20/2014	Analyst: RH
Arsenic	8.6		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Barium	210		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Cadmium	ND		0.84	mg/Kg-dry	5	1/21/2014 12:17 AM
Chromium	11		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Copper	14		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Lead	12		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Nickel	18		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Selenium	ND		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Silver	ND		2.1	mg/Kg-dry	5	1/21/2014 12:17 AM
Zinc	61		4.2	mg/Kg-dry	5	1/21/2014 12:17 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 1/23/2014	Analyst: ML
Calcium	440		10	mg/L	20	1/24/2014 11:26 AM
Magnesium	150		4.0	mg/L	20	1/24/2014 11:26 AM
Sodium	4,400		40	mg/L	200	1/24/2014 03:57 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 1/23/2014	Analyst: RH
Sodium Adsorption Ratio	46		0.010	none	1	1/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 1/20/2014	Analyst: RM
Acenaphthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Acenaphthylene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Benzo(a)anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Benzo(a)pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Benzo(b)fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Benzo(g,h,i)perylene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Benzo(k)fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Chrysene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Dibenzo(a,h)anthracene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Fluoranthene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM

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

ALS Group USA, Corp

Date: 27-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Prod. Water Spill 1.17.14
Sample ID: East Wall
Collection Date: 1/17/2014 12:45 PM

Work Order: 1401702
Lab ID: 1401702-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Indeno(1,2,3-cd)pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Naphthalene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Pyrene	ND		8.0	µg/Kg-dry	1	1/22/2014 06:59 AM
Surr: 2-Fluorobiphenyl	70.2		12-100	%REC	1	1/22/2014 06:59 AM
Surr: 4-Terphenyl-d14	118		25-137	%REC	1	1/22/2014 06:59 AM
Surr: Nitrobenzene-d5	70.7		37-107	%REC	1	1/22/2014 06:59 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 1/20/2014	Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	1/20/2014 10:16 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	1/20/2014 10:16 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	1/20/2014 10:16 PM
o-Xylene	ND		36	µg/Kg-dry	1	1/20/2014 10:16 PM
Toluene	ND		36	µg/Kg-dry	1	1/20/2014 10:16 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	1/20/2014 10:16 PM
Surr: 1,2-Dichloroethane-d4	92.8		70-130	%REC	1	1/20/2014 10:16 PM
Surr: 4-Bromofluorobenzene	95.2		70-130	%REC	1	1/20/2014 10:16 PM
Surr: Dibromofluoromethane	97.0		70-130	%REC	1	1/20/2014 10:16 PM
Surr: Toluene-d8	95.7		70-130	%REC	1	1/20/2014 10:16 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/23/2014	Analyst: JB
Electrical Conductivity @ Saturation	22		0.050	mmhos/cm @25	10	1/23/2014 01:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.60	mg/Kg-dry	1	1/21/2014 06:15 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/20/2014	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	1/21/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	1/21/2014 09:25 AM
PH			SW9045D		Prep Date: 1/21/2014	Analyst: AT
pH	8.1			s.u.	1	1/21/2014 04:00 PM

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55057** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-55057-55057				Units: mg/Kg		Analysis Date: 1/20/2014 09:39 PM		
Client ID:		Run ID: GC8_140120A		SeqNo: 2616790		Prep Date: 1/20/2014		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								
<i>Surr: 4-Terphenyl-d14</i>	1.205	0	2	0	60.3	39-115		0		

LCS		Sample ID: DLCSS1-55057-55057				Units: mg/Kg		Analysis Date: 1/20/2014 10:09 PM		
Client ID:		Run ID: GC8_140120A		SeqNo: 2616791		Prep Date: 1/20/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	200.2	5.0	200	0	100	49-124		0		
<i>Surr: 4-Terphenyl-d14</i>	0.9788	0	2	0	48.9	39-115		0		

The following samples were analyzed in this batch:

1401702-01B	1401702-02B	1401702-03B
-------------	-------------	-------------

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: 55059 Instrument ID GC10 Method: SW8015

MBLK		Sample ID: MBLK-55059-55059				Units: µg/Kg		Analysis Date: 1/20/2014 04:29 PM		
Client ID:		Run ID: GC10_140120B			SeqNo: 2616857		Prep Date: 1/20/2014		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>	5260	0	5000	0	105	50-150	0			

LCS		Sample ID: LCS-55059-55059				Units: µg/Kg		Analysis Date: 1/20/2014 03:17 PM		
Client ID:		Run ID: GC10_140120B			SeqNo: 2616855		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	524000	2,500	500000	0	105	70-130	0			
<i>Surr: Toluene-d8</i>	5315	0	5000	0	106	50-150	0			

MS		Sample ID: 1401694-03A MS				Units: µg/Kg		Analysis Date: 1/20/2014 10:56 PM		
Client ID:		Run ID: GC10_140120B			SeqNo: 2616885		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	437100	2,500	500000	19060	83.6	70-130	0			
<i>Surr: Toluene-d8</i>	5564	0	5000	0	111	50-150	0			

MSD		Sample ID: 1401694-03A MSD				Units: µg/Kg		Analysis Date: 1/20/2014 11:20 PM		
Client ID:		Run ID: GC10_140120B			SeqNo: 2616887		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	424300	2,500	500000	19060	81	70-130	437100	2.98	30	
<i>Surr: Toluene-d8</i>	5559	0	5000	0	111	50-150	5564	0.0899	30	

The following samples were analyzed in this batch: 1401702-01A 1401702-02A 1401702-03A

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55137** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-55137-55137					Units: mg/Kg		Analysis Date: 1/22/2014 11:23 AM		
Client ID:	Run ID: HG1_140122A				SeqNo: 2618905		Prep Date: 1/22/2014		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-55137-55137					Units: mg/Kg		Analysis Date: 1/22/2014 11:26 AM		
Client ID:	Run ID: HG1_140122A				SeqNo: 2618908		Prep Date: 1/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1728 0.020 0.1665 0 104 80-120 0

MS	Sample ID: 1401707-01BMS					Units: mg/Kg		Analysis Date: 1/22/2014 11:31 AM		
Client ID:	Run ID: HG1_140122A				SeqNo: 2618913		Prep Date: 1/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1363 0.014 0.1151 0.01789 103 75-125 0

MSD	Sample ID: 1401707-01BMSD					Units: mg/Kg		Analysis Date: 1/22/2014 11:34 AM		
Client ID:	Run ID: HG1_140122A				SeqNo: 2618916		Prep Date: 1/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1315 0.014 0.1154 0.01789 98.5 75-125 0.1363 3.65 35

The following samples were analyzed in this batch: 1401702-01B 1401702-02B 1401702-03B

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55079** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-55079-55079			Units: mg/Kg		Analysis Date: 1/20/2014 09:33 PM			
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616208		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	ND	0.25								
Arsenic	ND	0.25								
Barium	ND	0.25								
Beryllium	ND	0.10								
Cadmium	ND	0.10								
Calcium	ND	25								
Chromium	ND	0.25								
Cobalt	ND	0.25								
Copper	ND	0.25								
Iron	2.216	4.0								J
Lithium	ND	0.50								
Magnesium	ND	10								
Manganese	ND	0.25								
Molybdenum	ND	0.25								
Nickel	ND	0.25								
Potassium	ND	10								
Selenium	ND	0.25								
Silicon	6.525	10								J
Silver	ND	0.25								
Sodium	ND	10								
Strontium	ND	0.25								
Tin	0.002816	0.10								J
Titanium	0.01028	0.25								J
Vanadium	ND	0.25								
Zinc	0.06275	0.50								J

MBLK		Sample ID: MBLK-55079-55079			Units: mg/Kg		Analysis Date: 1/21/2014 10:03 AM			
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616829		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	ND	0.25								
Thallium	0.00879	0.25								J

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55079** Instrument ID **ICPMS1** Method: **SW6020A**

LCS		Sample ID: LCS-55079-55079				Units: mg/Kg		Analysis Date: 1/20/2014 09:39 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616209		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.862	0.25	5	0	97.2	80-120	0			
Arsenic	4.636	0.25	5	0	92.7	80-120	0			
Barium	4.841	0.25	5	0	96.8	80-120	0			
Beryllium	4.453	0.10	5	0	89.1	80-120	0			
Cadmium	4.76	0.10	5	0	95.2	80-120	0			
Calcium	485.6	25	500	0	97.1	80-120	0			
Chromium	4.76	0.25	5	0	95.2	80-120	0			
Cobalt	4.81	0.25	5	0	96.2	80-120	0			
Copper	4.86	0.25	5	0	97.2	80-120	0			
Iron	490.3	4.0	500	0	98.1	80-120	0			
Lithium	4.384	0.50	5	0	87.7	80-120	0			
Magnesium	472.7	10	500	0	94.5	80-120	0			
Manganese	4.724	0.25	5	0	94.5	80-120	0			
Molybdenum	4.839	0.25	5	0	96.8	80-120	0			
Nickel	4.828	0.25	5	0	96.6	80-120	0			
Potassium	479.4	10	500	0	95.9	80-120	0			
Selenium	4.165	0.25	5	0	83.3	80-120	0			
Silicon	469.8	10	500	0	94	80-120	0			
Silver	4.876	0.25	5	0	97.5	80-120	0			
Sodium	461.8	10	500	0	92.4	80-120	0			
Strontium	4.82	0.25	5	0	96.4	80-120	0			
Tin	4.788	0.10	5	0	95.8	80-120	0			
Titanium	4.87	0.25	5	0	97.4	80-120	0			
Vanadium	4.742	0.25	5	0	94.8	80-120	0			
Zinc	4.708	0.50	5	0	94.2	80-120	0			

LCS		Sample ID: LCS-55079-55079				Units: mg/Kg		Analysis Date: 1/21/2014 10:09 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616831		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4.904	0.25	5	0	98.1	80-120	0			
Thallium	4.686	0.25	5	0	93.7	80-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55079** Instrument ID **ICPMS1** Method: **SW6020A**

MS		Sample ID: 1401674-05BMS				Units: mg/Kg		Analysis Date: 1/20/2014 10:09 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616214		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.497	1.4	6.954	0.0991	77.6	75-125	0			
Arsenic	17.05	1.4	6.954	9.245	112	75-125	0			
Barium	48.96	1.4	6.954	38.4	152	75-125	0			SO
Beryllium	6.209	0.56	6.954	0.2068	86.3	75-125	0			
Cadmium	7.321	0.56	6.954	0.1408	103	75-125	0			
Calcium	28260	140	695.4	28220	6.14	75-125	0			SO
Chromium	16.33	1.4	6.954	7.501	127	75-125	0			S
Cobalt	11.57	1.4	6.954	4.48	102	75-125	0			
Copper	17.42	1.4	6.954	10.49	99.6	75-125	0			
Iron	12990	22	695.4	11770	175	75-125	0			SO
Lithium	10.03	2.8	6.954	4.488	79.7	75-125	0			
Magnesium	8261	56	695.4	7167	157	75-125	0			SO
Manganese	565	1.4	6.954	363	2900	75-125	0			SEO
Molybdenum	8	1.4	6.954	1.32	96.1	75-125	0			
Nickel	17.72	1.4	6.954	11.16	94.2	75-125	0			
Potassium	1375	56	695.4	729	92.8	75-125	0			
Selenium	7.477	1.4	6.954	0.5576	99.5	75-125	0			
Silicon	4782	56	695.4	3240	222	75-125	0			SO
Silver	6.846	1.4	6.954	0.03394	98	75-125	0			
Sodium	748.3	56	695.4	60.73	98.9	75-125	0			
Strontium	38.19	1.4	6.954	26.59	167	75-125	0			S
Tin	7.235	0.56	6.954	0.1691	102	75-125	0			
Titanium	152.3	1.4	6.954	125.5	386	75-125	0			SO
Vanadium	22.81	1.4	6.954	14.09	125	75-125	0			S
Zinc	36.02	2.8	6.954	28.84	103	75-125	0			O

MS		Sample ID: 1401674-05BMS				Units: mg/Kg		Analysis Date: 1/21/2014 11:14 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2617399		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	15.18	1.4	6.954	7.719	107	75-125	0			
Thallium	6.698	1.4	6.954	0.1499	94.2	75-125	0			

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

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: 55079 Instrument ID ICPMS1 Method: SW6020A

MSD		Sample ID: 1401674-05BMSD				Units: mg/Kg		Analysis Date: 1/20/2014 10:15 PM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2616215		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	6.011	1.4	7.062	0.0991	83.7	75-125	5.497	8.95	25	
Arsenic	17.07	1.4	7.062	9.245	111	75-125	17.05	0.0958	25	
Barium	48.42	1.4	7.062	38.4	142	75-125	48.96	1.11	25	SO
Beryllium	6.528	0.56	7.062	0.2068	89.5	75-125	6.209	5.02	25	
Cadmium	7.497	0.56	7.062	0.1408	104	75-125	7.321	2.37	25	
Calcium	31100	140	706.2	28220	408	75-125	28260	9.57	25	SO
Chromium	15.84	1.4	7.062	7.501	118	75-125	16.33	3.02	25	
Cobalt	11.23	1.4	7.062	4.48	95.6	75-125	11.57	2.96	25	
Copper	16.73	1.4	7.062	10.49	88.4	75-125	17.42	4.01	25	
Iron	12170	23	706.2	11770	56.6	75-125	12990	6.5	25	SO
Lithium	10.31	2.8	7.062	4.488	82.4	75-125	10.03	2.73	25	
Magnesium	7438	56	706.2	7167	38.4	75-125	8261	10.5	25	SO
Manganese	349.2	1.4	7.062	363	-196	75-125	565	47.2	25	SRO
Molybdenum	8.198	1.4	7.062	1.32	97.4	75-125	8	2.44	25	
Nickel	17.78	1.4	7.062	11.16	93.7	75-125	17.72	0.373	25	
Potassium	1377	56	706.2	729	91.8	75-125	1375	0.177	25	
Selenium	7.277	1.4	7.062	0.5576	95.1	75-125	7.477	2.71	25	
Silicon	4582	56	706.2	3240	190	75-125	4782	4.27	25	SO
Silver	7.059	1.4	7.062	0.03394	99.5	75-125	6.846	3.07	25	
Sodium	753.4	56	706.2	60.73	98.1	75-125	748.3	0.683	25	
Strontium	39.86	1.4	7.062	26.59	188	75-125	38.19	4.27	25	S
Tin	7.446	0.56	7.062	0.1691	103	75-125	7.235	2.88	25	
Titanium	162.4	1.4	7.062	125.5	523	75-125	152.3	6.42	25	SO
Vanadium	22.54	1.4	7.062	14.09	120	75-125	22.81	1.2	25	
Zinc	36.13	2.8	7.062	28.84	103	75-125	36.02	0.299	25	O

MSD		Sample ID: 1401674-05BMSD				Units: mg/Kg		Analysis Date: 1/21/2014 11:20 AM		
Client ID:		Run ID: ICPMS1_140120A			SeqNo: 2617401		Prep Date: 1/20/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	14.76	1.4	7.062	7.719	99.7	75-125	15.18	2.8	25	
Thallium	6.989	1.4	7.062	0.1499	96.8	75-125	6.698	4.25	25	

The following samples were analyzed in this batch: 1401702-01B 1401702-02B 1401702-03B

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55187** Instrument ID **ICPMS1** Method: **SW6020A**

DUP		Sample ID: 1401702-02CDUP				Units: mg/L		Analysis Date: 1/24/2014 11:20 AM		
Client ID: North Wall		Run ID: ICPMS1_140123A			SeqNo: 2622320		Prep Date: 1/23/2014		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	459.6	10	0	0	0	0-0	463.4	0.823		
Magnesium	165.7	4.0	0	0	0	0-0	159.1	4.04		
Sodium	1315	4.0	0	0	0	0-0	1250	5.07		

The following samples were analyzed in this batch:

 1401702-01C 1401702-02C 1401702-03C

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

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55066** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-55066-55066				Units: µg/Kg		Analysis Date: 1/21/2014 08:10 PM		
Client ID:		Run ID: SVMS8_140121A		SeqNo: 2618937		Prep Date: 1/20/2014		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>	1300	0	1667	0	78	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1611	0	1667	0	96.7	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1389	0	1667	0	83.4	37-107	0			

LCS		Sample ID: SLCSS1-55066-55066				Units: µg/Kg		Analysis Date: 1/21/2014 08:30 PM		
Client ID:		Run ID: SVMS8_140121A		SeqNo: 2618938		Prep Date: 1/20/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	461.3	6.7	666.7	0	69.2	45-110	0			
Acenaphthylene	490.7	6.7	666.7	0	73.6	45-105	0			
Anthracene	618.7	6.7	666.7	0	92.8	55-105	0			
Benzo(a)anthracene	605.3	6.7	666.7	0	90.8	50-110	0			
Benzo(a)pyrene	611	6.7	666.7	0	91.6	50-110	0			
Benzo(b)fluoranthene	653.3	6.7	666.7	0	98	45-115	0			
Benzo(g,h,i)perylene	574	6.7	666.7	0	86.1	40-125	0			
Benzo(k)fluoranthene	659.7	6.7	666.7	0	98.9	45-115	0			
Chrysene	599.3	6.7	666.7	0	89.9	55-110	0			
Dibenzo(a,h)anthracene	588	6.7	666.7	0	88.2	40-125	0			
Fluoranthene	699.7	6.7	666.7	0	105	55-115	0			
Fluorene	534.7	6.7	666.7	0	80.2	50-110	0			
Indeno(1,2,3-cd)pyrene	587	6.7	666.7	0	88	40-120	0			
Naphthalene	547.7	6.7	666.7	0	82.1	40-105	0			
Pyrene	568.3	6.7	666.7	0	85.2	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1117	0	1667	0	67	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1559	0	1667	0	93.5	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1446	0	1667	0	86.8	37-107	0			

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

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: 55066 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 1401674-05B MS			Units: µg/Kg		Analysis Date: 1/21/2014 11:19 PM		
Client ID:		Run ID: SVMS8_140121A			SeqNo: 2618941		Prep Date: 1/20/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1542	19	1919	0	80.3	45-110	0				
Acenaphthylene	1638	19	1919	0	85.3	45-105	0				
Anthracene	1810	19	1919	0	94.3	55-105	0				
Benzo(a)anthracene	1821	19	1919	0	94.9	50-110	0				
Benzo(a)pyrene	1849	19	1919	0	96.3	50-110	0				
Benzo(b)fluoranthene	2016	19	1919	0	105	45-115	0				
Benzo(g,h,i)perylene	1368	19	1919	0	71.2	40-125	0				
Benzo(k)fluoranthene	1969	19	1919	0	103	45-115	0				
Chrysene	1742	19	1919	0	90.7	55-110	0				
Dibenzo(a,h)anthracene	1424	19	1919	0	74.2	40-125	0				
Fluoranthene	2130	19	1919	0	111	55-115	0				
Fluorene	1793	19	1919	0	93.4	50-110	0				
Indeno(1,2,3-cd)pyrene	1429	19	1919	0	74.4	40-120	0				
Naphthalene	1537	19	1919	0	80.1	40-105	0				
Pyrene	1653	19	1919	0	86.1	45-125	0				
Surr: 2-Fluorobiphenyl	3620	0	4799	0	75.4	12-100	0				
Surr: 4-Terphenyl-d14	4425	0	4799	0	92.2	25-137	0				
Surr: Nitrobenzene-d5	4010	0	4799	0	83.6	37-107	0				

MSD				Sample ID: 1401674-05B MSD			Units: µg/Kg		Analysis Date: 1/21/2014 11:39 PM		
Client ID:		Run ID: SVMS8_140121A			SeqNo: 2618942		Prep Date: 1/20/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1535	19	1877	0	81.8	45-110	1542	0.46	30		
Acenaphthylene	1608	19	1877	0	85.7	45-105	1638	1.84	30		
Anthracene	1779	19	1877	0	94.8	55-105	1810	1.72	30		
Benzo(a)anthracene	1770	19	1877	0	94.3	50-110	1821	2.88	30		
Benzo(a)pyrene	1805	19	1877	0	96.2	50-110	1849	2.4	30		
Benzo(b)fluoranthene	1964	19	1877	0	105	45-115	2016	2.63	30		
Benzo(g,h,i)perylene	1336	19	1877	0	71.2	40-125	1368	2.32	30		
Benzo(k)fluoranthene	1970	19	1877	0	105	45-115	1969	0.0156	30		
Chrysene	1719	19	1877	0	91.6	55-110	1742	1.32	30		
Dibenzo(a,h)anthracene	1390	19	1877	0	74	40-125	1424	2.45	30		
Fluoranthene	2071	19	1877	0	110	55-115	2130	2.79	30		
Fluorene	1800	19	1877	0	95.9	50-110	1793	0.392	30		
Indeno(1,2,3-cd)pyrene	1447	19	1877	0	77.1	40-120	1429	1.25	30		
Naphthalene	1500	19	1877	0	79.9	40-105	1537	2.44	30		
Pyrene	1627	19	1877	0	86.7	45-125	1653	1.55	30		
Surr: 2-Fluorobiphenyl	3485	0	4692	0	74.3	12-100	3620	3.8	40		
Surr: 4-Terphenyl-d14	4290	0	4692	0	91.4	25-137	4425	3.1	40		
Surr: Nitrobenzene-d5	3991	0	4692	0	85.1	37-107	4010	0.47	40		

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55066** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1401702-01B	1401702-02B	1401702-03B
-------------	-------------	-------------

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

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55060** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-55060-55060				Units: µg/Kg		Analysis Date: 1/21/2014 01:07 AM		
Client ID:		Run ID: VMS5_140120A			SeqNo: 2617562		Prep Date: 1/20/2014		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	1018	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	971.5	0	1000	0	97.2	70-130	0			
Surr: Dibromofluoromethane	980.5	0	1000	0	98	70-130	0			
Surr: Toluene-d8	999.5	0	1000	0	100	70-130	0			

LCS		Sample ID: LCS-55060-55060				Units: µg/Kg		Analysis Date: 1/20/2014 11:22 PM		
Client ID:		Run ID: VMS5_140120A			SeqNo: 2617561		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	903.5	30	1000	0	90.4	75-125	0			
Ethylbenzene	954	30	1000	0	95.4	75-125	0			
m,p-Xylene	1932	60	2000	0	96.6	80-125	0			
o-Xylene	986.5	30	1000	0	98.6	75-125	0			
Toluene	939.5	30	1000	0	94	70-125	0			
Xylenes, Total	2918	90	3000	0	97.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	1000	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	1038	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1003	0	1000	0	100	70-130	0			
Surr: Toluene-d8	1012	0	1000	0	101	70-130	0			

MS		Sample ID: 1401604-15A MS				Units: µg/Kg		Analysis Date: 1/21/2014 08:33 AM		
Client ID:		Run ID: VMS5_140120A			SeqNo: 2617571		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	940	30	1000	0	94	75-125	0			
Ethylbenzene	978	30	1000	0	97.8	75-125	0			
m,p-Xylene	2005	60	2000	0	100	80-125	0			
o-Xylene	1005	30	1000	0	100	75-125	0			
Toluene	970	30	1000	0	97	70-125	0			
Xylenes, Total	3010	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	1009	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	993.5	0	1000	0	99.4	70-130	0			
Surr: Toluene-d8	1025	0	1000	0	102	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55060** Instrument ID **VMS5** Method: **SW8260B**

MSD		Sample ID: 1401604-15A MSD				Units: µg/Kg		Analysis Date: 1/21/2014 08:59 AM		
Client ID:		Run ID: VMS5_140120A			SeqNo: 2617572		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	905	30	1000	0	90.5	75-125	940	3.79	30	
Ethylbenzene	951.5	30	1000	0	95.2	75-125	978	2.75	30	
m,p-Xylene	1940	60	2000	0	97	80-125	2005	3.32	30	
o-Xylene	983	30	1000	0	98.3	75-125	1005	2.21	30	
Toluene	919.5	30	1000	0	92	70-125	970	5.35	30	
Xylenes, Total	2922	90	3000	0	97.4	75-125	3010	2.95	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1018	0	1000	0	102	70-130	1009	0.888	30	
<i>Surr: 4-Bromofluorobenzene</i>	1009	0	1000	0	101	70-130	1012	0.297	30	
<i>Surr: Dibromofluoromethane</i>	993.5	0	1000	0	99.4	70-130	993.5	0	30	
<i>Surr: Toluene-d8</i>	1007	0	1000	0	101	70-130	1025	1.77	30	

The following samples were analyzed in this batch: | 1401702-01A 1401702-02A 1401702-03A |

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

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55100** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-55100-55100				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617963		Prep Date: 1/20/2014		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-55100-55100				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617962		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.988 0.50 2 0 99.4 80-120 0

MS		Sample ID: 1401641-09CMS				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617950		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.636 0.50 2 0 31.8 75-125 0 S

MS		Sample ID: 1401641-09CMSI				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617952		Prep Date: 1/20/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 821.4 50 798.1 0 103 75-125 0

MS		Sample ID: 1401702-03B MS				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID: East Wall		Run ID: WETCHEM_140121M				SeqNo: 2617957		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.604 0.51 2.041 0.1687 70.3 75-125 0 S

MS		Sample ID: 1401702-03B MSI				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID: East Wall		Run ID: WETCHEM_140121M				SeqNo: 2617959		Prep Date: 1/20/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1129 49 1263 0.1687 89.3 75-125 0

MSD		Sample ID: 1401641-09CMSD				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140121M				SeqNo: 2617951		Prep Date: 1/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4706 0.49 1.961 0 24 75-125 0.636 0 20 JS

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55100** Instrument ID **WETCHEM** Method: **SW7196A**

MSD		Sample ID: 1401702-03B MSD				Units: mg/Kg		Analysis Date: 1/21/2014 03:00 PM			
Client ID: East Wall		Run ID: WETCHEM_140121M				SeqNo: 2617958		Prep Date: 1/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	1.502	0.49	1.976	0.1687	67.5	75-125	1.604	6.57	20	S	

The following samples were analyzed in this batch:

1401702-01B	1401702-02B	1401702-03B
-------------	-------------	-------------

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55119** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-55119-55119		Units: s.u.		Analysis Date: 1/21/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140121K		SeqNo: 2617910		Prep Date: 1/21/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.94 0 4 0 98.5 90-110 0

DUP	Sample ID: 1401540-01A DUP		Units: s.u.		Analysis Date: 1/21/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140121K		SeqNo: 2617912		Prep Date: 1/21/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.87 0 0 0 0 0-0 8.84 0.339 20

The following samples were analyzed in this batch: 1401702-01B 1401702-02B 1401702-03B

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **55187** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1401702-02C DUP				Units: mmhos/cm @25°C		Analysis Date: 1/23/2014 01:30 PM		
Client ID: North Wall		Run ID: WETCHEM_140123H			SeqNo: 2620905		Prep Date: 1/23/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	9.2	0.050	0	0	0		8.88	3.54	50	

The following samples were analyzed in this batch:

1401702-01C	1401702-02C	1401702-03C
-------------	-------------	-------------

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

Client: HRL Compliance Solutions
 Work Order: 1401702
 Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **R134300** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R134300		Units: % of sample				Analysis Date: 1/20/2014 02:37 PM			
Client ID:	Run ID: MOIST_140120B		SeqNo: 2616557		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-R134300		Units: % of sample				Analysis Date: 1/20/2014 02:37 PM			
Client ID:	Run ID: MOIST_140120B		SeqNo: 2616553		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1401497-13B DUP		Units: % of sample				Analysis Date: 1/20/2014 02:37 PM			
Client ID:	Run ID: MOIST_140120B		SeqNo: 2616535		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.14 0.050 0 0 0 0-0 16.48 9.59 20

DUP	Sample ID: 1401674-01B DUP		Units: % of sample				Analysis Date: 1/20/2014 02:37 PM			
Client ID:	Run ID: MOIST_140120B		SeqNo: 2616537		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 21.42 0.050 0 0 0 0-0 21.24 0.844 20

The following samples were analyzed in this batch: 1401702-01B 1401702-02B

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

Client: HRL Compliance Solutions
Work Order: 1401702
Project: WPX GV 41-34 Prod. Water Spill 1.17.14

QC BATCH REPORT

Batch ID: **R134349** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R134349				Units: % of sample		Analysis Date: 1/21/2014 09:25 AM		
Client ID:		Run ID: MOIST_140121A				SeqNo: 2617845		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 0.05 0.050

LCS		Sample ID: LCS-R134349				Units: % of sample		Analysis Date: 1/21/2014 09:25 AM		
Client ID:		Run ID: MOIST_140121A				SeqNo: 2617841		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: 1401702-03B DUP				Units: % of sample		Analysis Date: 1/21/2014 09:25 AM		
Client ID: East Wall		Run ID: MOIST_140121A				SeqNo: 2617837		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 16.8 0.050 0 0 0 0-0 16.92 0.712 20

The following samples were analyzed in this batch: 1401702-03B

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 #	1401702
PAGE	1 of 1

PROJECT NAME	WPX <i>GV41-34 Produced</i>	SAMPLER	Reed Wold	DATE	11/7/14
PROJECT NO.	<i>Water Spill</i>	SITE ID	<i>GV41-34</i>	TURNAROUND	<i>5 Day</i>
COMPANY NAME	HRL Compliance	EDD FORMAT			
SEND REPORT TO	Mark Mumby	PURCHASE ORDER			
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX		
CITY/STATE/ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney		
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215	<i>BTEX/GRO</i> <i>DRO/PAHII</i> <i>SARIFE I PH</i> <i>Altares</i>	
FAX	970-243-3280	CITY/STATE/ZIP	Parachure CO 81635		
E-MAIL	<i>mmumby@hrlcomp.com</i> <i>rwold@hrlcomp.com</i>	PHONE	970-683-2295		
		FAX			
		E-MAIL	<i>Karolina.blaney@wpxenergy.com</i>		

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC												
1	<i>Excavation Bottom 30ft</i>	<i>so</i>	<i>11/7/14</i>	<i>11:00</i>	<i>3</i>	<i>8</i>		X	X	X									
2	<i>North Wall</i>	↓	↓	<i>12:35</i>	<i>3</i>	<i>8</i>		X	X	X									
3	<i>East Wall</i>	↓	↓	<i>12:45</i>	<i>3</i>	<i>8</i>		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 = filler

For metals or anions, please detail analytes below.

Comments: <div style="text-align: right; font-size: 2em;">5.2' </div>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	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	<i>Reed Wold</i>	<i>Reed Wold</i>	<i>11/7/14</i>	<i>2:00</i>
RECEIVED BY	<i>Colby Koerner</i>	<i>Colby Koerner</i>	<i>11/7/14</i>	<i>1400</i>
RELINQUISHED BY	<i>Colby Koerner</i>	<i>Colby Koerner</i>	<i>11/7/14</i>	<i>1500</i>
RECEIVED BY	<i>Fed Ex</i>			
RELINQUISHED BY	<i>Diane F. Shaw</i>	<i>Diane F. Shaw</i>	<i>11/18/14</i>	<i>1100</i>
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **18-Jan-14 11:00**

Work Order: **1401702**

Received by: **DS**

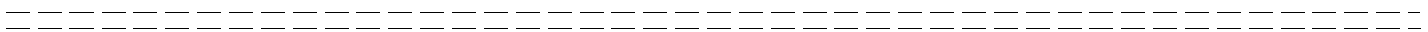
Checklist completed by Diane Shaw 20-Jan-14
eSignature Date

Reviewed by: Ann Preston 21-Jan-14
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 type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" 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):	<input type="text" value="5.2 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="1/20/2014 8:34:20 AM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 17JAN14
ActWgt: 71.0 LB
CAD: 103923490/NET3430

Dims: 25 X 14 X 15 IN

127 E First Street
PARACHUTE, CO 81635



J1201305280326

Delivery Address Bar Code



SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample receiving
ALS Holland
3352 128TH AVE

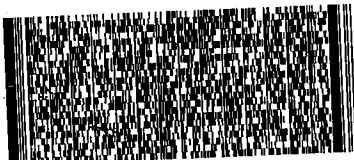
HOLLAND, MI 49424

Ref # 1001-011714-2
Invoice #
PO #
Dept #

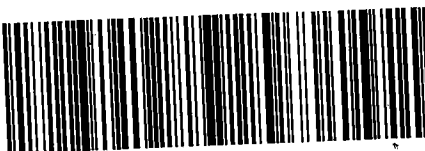
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7976 6671 2597
0201

49424
MI-US
GRR



X0 GRRR



51AG10RECH/ARE

After printing this label:

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

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

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



21-Apr-2014

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

Re: **WPX GV 41-34 Landfarm 4.10.14**

Work Order: **1404600**

Dear Mark,

ALS Environmental received 1 sample on 11-Apr-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 25.

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 ALS Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Landfarm 4.10.14
Work Order: 1404600

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>
1404600-01	Batch 1	Soil		4/10/2014 12:00	4/11/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Landfarm 4.10.14
Work Order: 1404600

Case Narrative

Batch 57755 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: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Landfarm 4.10.14
Sample ID: Batch 1
Collection Date: 4/10/2014 12:00 PM

Work Order: 1404600
Lab ID: 1404600-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 4/14/14	Analyst: IT
DRO (C10-C28)	110		4.8	mg/Kg-dry	1	4/14/2014 08:00 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>94.3</i>		<i>39-115</i>	<i>%REC</i>	1	4/14/2014 08:00 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 4/15/14	Analyst: IT
GRO (C6-C10)	730		2.9	mg/Kg-dry	1	4/15/2014 02:26 PM
<i>Surr: Toluene-d8</i>	<i>112</i>		<i>50-150</i>	<i>%REC</i>	1	4/15/2014 02:26 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 4/16/14	Analyst: LR
Mercury	0.024		0.016	mg/Kg-dry	1	4/16/2014 10:00 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/14/14	Analyst: ML
Arsenic	9.4		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Barium	360		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Cadmium	ND		0.77	mg/Kg-dry	5	4/16/2014 02:21 AM
Chromium	13		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Copper	15		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Lead	12		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Nickel	16		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Selenium	ND		1.9	mg/Kg-dry	5	4/20/2014 09:13 PM
Silver	ND		1.9	mg/Kg-dry	5	4/16/2014 02:21 AM
Zinc	55		3.8	mg/Kg-dry	5	4/16/2014 02:21 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 4/15/14	Analyst: RH
Calcium	12		10	mg/L	20	4/16/2014 09:59 PM
Magnesium	ND		4.0	mg/L	20	4/16/2014 09:59 PM
Sodium	610		4.0	mg/L	20	4/16/2014 09:59 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 4/15/14	Analyst: RH
Sodium Adsorption Ratio	39		0.010	none	1	4/17/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 4/14/14	Analyst: RM
Acenaphthene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Anthracene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Chrysene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM

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

ALS Group USA, Corp

Date: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Landfarm 4.10.14
Sample ID: Batch 1
Collection Date: 4/10/2014 12:00 PM

Work Order: 1404600
Lab ID: 1404600-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Fluoranthene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Fluorene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Naphthalene	150		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Pyrene	ND		7.7	µg/Kg-dry	1	4/16/2014 12:40 AM
Surr: 2-Fluorobiphenyl	65.7		12-100	%REC	1	4/16/2014 12:40 AM
Surr: 4-Terphenyl-d14	84.2		25-137	%REC	1	4/16/2014 12:40 AM
Surr: Nitrobenzene-d5	54.5		37-107	%REC	1	4/16/2014 12:40 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/15/14		Analyst: BG
Benzene	180		140	µg/Kg-dry	4	4/17/2014 02:01 PM
Ethylbenzene	2,800		140	µg/Kg-dry	4	4/17/2014 02:01 PM
m,p-Xylene	40,000		280	µg/Kg-dry	4	4/17/2014 02:01 PM
o-Xylene	4,900		140	µg/Kg-dry	4	4/17/2014 02:01 PM
Toluene	1,900		140	µg/Kg-dry	4	4/17/2014 02:01 PM
Xylenes, Total	45,000		420	µg/Kg-dry	4	4/17/2014 02:01 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	4	4/17/2014 02:01 PM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	4	4/17/2014 02:01 PM
Surr: Dibromofluoromethane	94.0		70-130	%REC	4	4/17/2014 02:01 PM
Surr: Toluene-d8	114		70-130	%REC	4	4/17/2014 02:01 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/15/14		Analyst: JB
Electrical Conductivity @ Saturation	3.9		0.25	mmhos/cm @25	50	4/15/2014 02:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	13		0.58	mg/Kg-dry	1	4/18/2014 03:29 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/17/14		Analyst: AG
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	4/18/2014 11:00 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	14		0.050	% of sample	1	4/11/2014 04:13 PM
PH			SW9045D	Prep: EXTRACT / 4/14/14		Analyst: AT
pH	9.3			s.u.	1	4/14/2014 05:00 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57508** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-57508-57508				Units: mg/Kg		Analysis Date: 4/14/2014 05:31 PM		
Client ID:		Run ID: GC8_140414A		SeqNo: 2712314		Prep Date: 4/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.459	0	1.667	0	87.6	39-115	0			

LCS		Sample ID: DLCSS1-57508-57508				Units: mg/Kg		Analysis Date: 4/14/2014 06:01 PM		
Client ID:		Run ID: GC8_140414A		SeqNo: 2712315		Prep Date: 4/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	153.2	4.2	166.7	0	91.9	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	1.41	0	1.667	0	84.6	39-115	0			

MS		Sample ID: 1404598-01B MS				Units: mg/Kg		Analysis Date: 4/14/2014 06:31 PM		
Client ID:		Run ID: GC8_140414A		SeqNo: 2712316		Prep Date: 4/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	434.8	8.1	322.6	194.4	74.5	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	2.844	0	3.226	0	88.2	39-115	0			

MSD		Sample ID: 1404598-01B MSD				Units: mg/Kg		Analysis Date: 4/14/2014 07:01 PM		
Client ID:		Run ID: GC8_140414A		SeqNo: 2712317		Prep Date: 4/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	415.7	8.1	322.5	194.4	68.6	49-130	434.8	4.49	30	
<i>Surr: 4-Terphenyl-d14</i>	2.657	0	3.225	0	82.4	39-115	2.844	6.8	30	

The following samples were analyzed in this batch: | 1404600-01B |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: 57571 Instrument ID GC9 Method: SW8015

MBLK		Sample ID: MBLK-57571-57571				Units: µg/Kg		Analysis Date: 4/15/2014 02:00 PM			
Client ID:		Run ID: GC9_140415A				SeqNo: 2714623		Prep Date: 4/15/2014		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	4790	0	5000	0	95.8	50-150	0				

LCS		Sample ID: LCS-57571-57571				Units: µg/Kg		Analysis Date: 4/15/2014 12:43 PM			
Client ID:		Run ID: GC9_140415A				SeqNo: 2714622		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	483300	2,500	500000	0	96.7	70-130	0				
Surr: Toluene-d8	4464	0	5000	0	89.3	50-150	0				

MS		Sample ID: 1404731-01A MS				Units: µg/Kg		Analysis Date: 4/15/2014 11:11 PM			
Client ID:		Run ID: GC9_140415A				SeqNo: 2714642		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	713300	2,500	500000	179100	107	70-130	0				
Surr: Toluene-d8	5239	0	5000	0	105	50-150	0				

MSD		Sample ID: 1404731-01A MSD				Units: µg/Kg		Analysis Date: 4/15/2014 11:37 PM			
Client ID:		Run ID: GC9_140415A				SeqNo: 2714643		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	707300	2,500	500000	179100	106	70-130	713300	0.835	30		
Surr: Toluene-d8	4853	0	5000	0	97.1	50-150	5239	7.65	30		

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57635** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-57635-57635				Units: mg/Kg		Analysis Date: 4/16/2014 08:58 PM		
Client ID:		Run ID: HG1_140416A			SeqNo: 2717195		Prep Date: 4/16/2014		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-57635-57635				Units: mg/Kg		Analysis Date: 4/16/2014 09:00 PM		
Client ID:		Run ID: HG1_140416A			SeqNo: 2717196		Prep Date: 4/16/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1678 0.020 0.1665 0 101 80-120 0

MS		Sample ID: 1404478-27AMS				Units: mg/Kg		Analysis Date: 4/16/2014 09:05 PM		
Client ID:		Run ID: HG1_140416A			SeqNo: 2717198		Prep Date: 4/16/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1296 0.014 0.1201 0.002873 106 75-125 0

MSD		Sample ID: 1404478-27AMSD				Units: mg/Kg		Analysis Date: 4/16/2014 09:08 PM		
Client ID:		Run ID: HG1_140416A			SeqNo: 2717199		Prep Date: 4/16/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1269 0.014 0.1188 0.002873 104 75-125 0.1296 2.15 35

The following samples were analyzed in this batch: 1404600-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57495** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1404615-05ADUP				Units: mg/L		Analysis Date: 4/17/2014 12:21 AM		
Client ID:		Run ID: ICPMS2_140416A			SeqNo: 2717451		Prep Date: 4/15/2014		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	34.7	10	0	0	0	0-0	27.94	21.6		
Magnesium	7.066	4.0	0	0	0	0-0	5.788	19.9		
Sodium	11.49	4.0	0	0	0	0-0	12.94	11.9		

DUP		Sample ID: 1404615-05ADUP				Units: none		Analysis Date: 4/17/2014		
Client ID:		Run ID: SAR_140417A			SeqNo: 2719985		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.4646	0.010	0	0	0		0.5818	22.4	50	

The following samples were analyzed in this batch: | 1404600-01C |

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: 57544 Instrument ID ICPMS1 Method: SW6020A

MBLK		Sample ID: MBLK-57544-57544				Units: mg/Kg		Analysis Date: 4/16/2014 01:17 AM		
Client ID:		Run ID: ICPMS1_140415A			SeqNo: 2715066		Prep Date: 4/14/2014		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	0.03881	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.00746	0.25								J
Nickel	ND	0.25								
Selenium	0.0349	0.25								J
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-57544-57544				Units: mg/Kg		Analysis Date: 4/16/2014 01:23 AM		
Client ID:		Run ID: ICPMS1_140415A			SeqNo: 2715067		Prep Date: 4/14/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.294	0.25	5	0	85.9	80-120	0			
Barium	5.02	0.25	5	0	100	80-120	0			
Cadmium	4.763	0.10	5	0	95.3	80-120	0			
Chromium	4.77	0.25	5	0	95.4	80-120	0			
Copper	4.83	0.25	5	0	96.6	80-120	0			
Lead	5.2	0.25	5	0	104	80-120	0			
Nickel	4.806	0.25	5	0	96.1	80-120	0			
Selenium	3.966	0.25	5	0	79.3	80-120	0			S
Silver	4.954	0.25	5	0	99.1	80-120	0			
Zinc	4.524	0.50	5	0	90.5	80-120	0			

MS		Sample ID: 1404595-01AMS				Units: mg/Kg		Analysis Date: 4/16/2014 01:52 AM		
Client ID:		Run ID: ICPMS1_140415A			SeqNo: 2715072		Prep Date: 4/14/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.268	0.39	7.74	0.4156	88.5	75-125	0			
Barium	13.23	0.39	7.74	4.385	114	75-125	0			
Cadmium	7.572	0.15	7.74	0.02854	97.5	75-125	0			
Chromium	9.474	0.39	7.74	1.423	104	75-125	0			
Copper	8.127	0.39	7.74	0.6577	96.5	75-125	0			
Lead	10.37	0.39	7.74	2.082	107	75-125	0			
Nickel	8.808	0.39	7.74	1.198	98.3	75-125	0			
Selenium	6.367	0.39	7.74	0.1817	79.9	75-125	0			
Silver	7.618	0.39	7.74	0.006252	98.3	75-125	0			
Zinc	13.23	0.77	7.74	5.39	101	75-125	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57544** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1404595-01AMSD				Units: mg/Kg		Analysis Date: 4/16/2014 01:58 AM		
Client ID:		Run ID: ICPMS1_140415A			SeqNo: 2715073		Prep Date: 4/14/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.335	0.39	7.812	0.4156	88.6	75-125	7.268	0.922	25	
Barium	12.94	0.39	7.812	4.385	109	75-125	13.23	2.22	25	
Cadmium	7.595	0.16	7.812	0.02854	96.8	75-125	7.572	0.297	25	
Chromium	9.531	0.39	7.812	1.423	104	75-125	9.474	0.606	25	
Copper	8.227	0.39	7.812	0.6577	96.9	75-125	8.127	1.22	25	
Lead	10.74	0.39	7.812	2.082	111	75-125	10.37	3.51	25	
Nickel	8.914	0.39	7.812	1.198	98.8	75-125	8.808	1.2	25	
Selenium	6.501	0.39	7.812	0.1817	80.9	75-125	6.367	2.08	25	
Silver	7.734	0.39	7.812	0.006252	98.9	75-125	7.618	1.51	25	
Zinc	13.59	0.78	7.812	5.39	105	75-125	13.23	2.73	25	

The following samples were analyzed in this batch: | 1404600-01B |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: 57775 Instrument ID ICPMS1 Method: SW6020A

MBLK		Sample ID: MBLK-57775-57775				Units: mg/Kg		Analysis Date: 4/20/2014 08:24 PM		
Client ID:		Run ID: ICPMS1_140420A			SeqNo: 2722091		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium ND 0.25

LCS		Sample ID: LCS-57775-57775				Units: mg/Kg		Analysis Date: 4/20/2014 08:30 PM		
Client ID:		Run ID: ICPMS1_140420A			SeqNo: 2722092		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium 4.39 0.25 5 0 87.8 80-120 0

MS		Sample ID: 1404595-01AMS				Units: mg/Kg		Analysis Date: 4/20/2014 08:42 PM		
Client ID:		Run ID: ICPMS1_140420A			SeqNo: 2722094		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium 6.588 0.39 7.825 0.2102 81.5 75-125 0

MSD		Sample ID: 1404595-01AMSD				Units: mg/Kg		Analysis Date: 4/20/2014 08:49 PM		
Client ID:		Run ID: ICPMS1_140420A			SeqNo: 2722095		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium 6.621 0.38 7.53 0.2102 85.1 75-125 6.588 0.497 25

The following samples were analyzed in this batch: 1404600-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: 57507 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: SBLKS1-57507-57507				Units: µg/Kg		Analysis Date: 4/15/2014 12:01 PM		
Client ID:		Run ID: SVMS8_140415A		SeqNo: 2716226		Prep Date: 4/14/2014		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								
Surr: 2-Fluorobiphenyl	1365	0	1667	0	81.9	12-100	0			
Surr: 4-Terphenyl-d14	1860	0	1667	0	112	25-137	0			
Surr: Nitrobenzene-d5	1408	0	1667	0	84.5	37-107	0			

LCS		Sample ID: SLCSS1-57507-57507				Units: µg/Kg		Analysis Date: 4/15/2014 12:22 PM		
Client ID:		Run ID: SVMS8_140415A		SeqNo: 2716228		Prep Date: 4/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	525	6.7	666.7	0	78.7	45-110	0			
Acenaphthylene	554.3	6.7	666.7	0	83.1	45-105	0			
Anthracene	628.7	6.7	666.7	0	94.3	55-105	0			
Benzo(a)anthracene	632.7	6.7	666.7	0	94.9	50-110	0			
Benzo(a)pyrene	671.3	6.7	666.7	0	101	50-110	0			
Benzo(b)fluoranthene	675.3	6.7	666.7	0	101	45-115	0			
Benzo(g,h,i)perylene	623.3	6.7	666.7	0	93.5	40-125	0			
Benzo(k)fluoranthene	668	6.7	666.7	0	100	45-115	0			
Chrysene	626.7	6.7	666.7	0	94	55-110	0			
Dibenzo(a,h)anthracene	663.7	6.7	666.7	0	99.5	40-125	0			
Fluoranthene	656	6.7	666.7	0	98.4	55-115	0			
Fluorene	537.3	6.7	666.7	0	80.6	50-110	0			
Indeno(1,2,3-cd)pyrene	679	6.7	666.7	0	102	40-120	0			
Naphthalene	503	6.7	666.7	0	75.4	40-105	0			
Pyrene	733.7	6.7	666.7	0	110	45-125	0			
Surr: 2-Fluorobiphenyl	1266	0	1667	0	76	12-100	0			
Surr: 4-Terphenyl-d14	1897	0	1667	0	114	25-137	0			
Surr: Nitrobenzene-d5	1367	0	1667	0	82	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: 57507 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 1404598-01B MS			Units: µg/Kg		Analysis Date: 4/15/2014 03:06 PM		
Client ID:		Run ID: SVMS8_140415A		SeqNo: 2716236		Prep Date: 4/14/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1111	13	1280	0	86.8	45-110	0				
Acenaphthylene	1130	13	1280	0	88.3	45-105	0				
Anthracene	1227	13	1280	0	95.8	55-105	0				
Benzo(a)anthracene	1203	13	1280	0	94	50-110	0				
Benzo(a)pyrene	1284	13	1280	0	100	50-110	0				
Benzo(b)fluoranthene	1207	13	1280	0	94.2	45-115	0				
Benzo(g,h,i)perylene	1322	13	1280	0	103	40-125	0				
Benzo(k)fluoranthene	1225	13	1280	0	95.6	45-115	0				
Chrysene	1164	13	1280	0	90.9	55-110	0				
Dibenzo(a,h)anthracene	1392	13	1280	0	109	40-125	0				
Fluoranthene	1277	13	1280	0	99.7	55-115	0				
Fluorene	1161	13	1280	31.85	88.2	50-110	0				
Indeno(1,2,3-cd)pyrene	1400	13	1280	0	109	40-120	0				
Naphthalene	1137	13	1280	269.1	67.8	40-105	0				
Pyrene	1329	13	1280	0	104	45-125	0				
Surr: 2-Fluorobiphenyl	2502	0	3201	0	78.2	12-100	0				
Surr: 4-Terphenyl-d14	3487	0	3201	0	109	25-137	0				
Surr: Nitrobenzene-d5	2592	0	3201	0	81	37-107	0				

MSD				Sample ID: 1404598-01B MSD			Units: µg/Kg		Analysis Date: 4/15/2014 03:27 PM		
Client ID:		Run ID: SVMS8_140415A		SeqNo: 2716238		Prep Date: 4/14/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1133	13	1330	0	85.2	45-110	1111	1.97	30		
Acenaphthylene	1164	13	1330	0	87.5	45-105	1130	2.92	30		
Anthracene	1266	13	1330	0	95.1	55-105	1227	3.1	30		
Benzo(a)anthracene	1250	13	1330	0	93.9	50-110	1203	3.78	30		
Benzo(a)pyrene	1350	13	1330	0	101	50-110	1284	5.02	30		
Benzo(b)fluoranthene	1256	13	1330	0	94.4	45-115	1207	4.04	30		
Benzo(g,h,i)perylene	1385	13	1330	0	104	40-125	1322	4.6	30		
Benzo(k)fluoranthene	1257	13	1330	0	94.5	45-115	1225	2.62	30		
Chrysene	1222	13	1330	0	91.9	55-110	1164	4.92	30		
Dibenzo(a,h)anthracene	1467	13	1330	0	110	40-125	1392	5.29	30		
Fluoranthene	1320	13	1330	0	99.2	55-115	1277	3.33	30		
Fluorene	1207	13	1330	31.85	88.3	50-110	1161	3.83	30		
Indeno(1,2,3-cd)pyrene	1477	13	1330	0	111	40-120	1400	5.33	30		
Naphthalene	1195	13	1330	269.1	69.6	40-105	1137	4.95	30		
Pyrene	1348	13	1330	0	101	45-125	1329	1.39	30		
Surr: 2-Fluorobiphenyl	2525	0	3326	0	75.9	12-100	2502	0.923	40		
Surr: 4-Terphenyl-d14	3536	0	3326	0	106	25-137	3487	1.4	40		
Surr: Nitrobenzene-d5	2692	0	3326	0	81	37-107	2592	3.78	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57507** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1404600-01B

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57570** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-57570-57570				Units: µg/Kg		Analysis Date: 4/15/2014 01:30 PM		
Client ID:		Run ID: VMS6_140415A			SeqNo: 2714786		Prep Date: 4/15/2014		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	1022	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	961.5	0	1000	0	96.2	70-130	0			
Surr: Dibromofluoromethane	941.5	0	1000	0	94.2	70-130	0			
Surr: Toluene-d8	976	0	1000	0	97.6	70-130	0			

LCS		Sample ID: LCS-57570-57570				Units: µg/Kg		Analysis Date: 4/15/2014 12:12 PM		
Client ID:		Run ID: VMS6_140415A			SeqNo: 2714785		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1129	30	1000	0	113	75-125	0			
Ethylbenzene	1092	30	1000	0	109	75-125	0			
m,p-Xylene	2170	60	2000	0	108	80-125	0			
o-Xylene	1070	30	1000	0	107	75-125	0			
Toluene	1070	30	1000	0	107	70-125	0			
Xylenes, Total	3240	90	3000	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	1020	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	1003	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	1029	0	1000	0	103	70-130	0			
Surr: Toluene-d8	973	0	1000	0	97.3	70-130	0			

MS		Sample ID: 1404633-01A MS				Units: µg/Kg		Analysis Date: 4/17/2014 10:41 AM		
Client ID:		Run ID: VMS9_140416B			SeqNo: 2717758		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1059	30	1000	0	106	75-125	0			
Ethylbenzene	976.5	30	1000	0	97.6	75-125	0			
m,p-Xylene	1978	60	2000	0	98.9	80-125	0			
o-Xylene	966.5	30	1000	0	96.6	75-125	0			
Toluene	1128	30	1000	0	113	70-125	0			
Xylenes, Total	2944	90	3000	0	98.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	996	0	1000	0	99.6	70-130	0			
Surr: 4-Bromofluorobenzene	958	0	1000	0	95.8	70-130	0			
Surr: Dibromofluoromethane	996.5	0	1000	0	99.6	70-130	0			
Surr: Toluene-d8	1070	0	1000	0	107	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57570** Instrument ID **VMS6** Method: **SW8260B**

MSD		Sample ID: 1404633-01A MSD				Units: µg/Kg		Analysis Date: 4/17/2014 11:05 AM		
Client ID:		Run ID: VMS9_140416B			SeqNo: 2717760		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1055	30	1000	0	106	75-125	1059	0.378	30	
Ethylbenzene	1002	30	1000	0	100	75-125	976.5	2.53	30	
m,p-Xylene	2026	60	2000	0	101	80-125	1978	2.4	30	
o-Xylene	999	30	1000	0	99.9	75-125	966.5	3.31	30	
Toluene	1158	30	1000	0	116	70-125	1128	2.54	30	
Xylenes, Total	3025	90	3000	0	101	75-125	2944	2.7	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	972.5	0	1000	0	97.2	70-130	996	2.39	30	
<i>Surr: 4-Bromofluorobenzene</i>	975	0	1000	0	97.5	70-130	958	1.76	30	
<i>Surr: Dibromofluoromethane</i>	976.5	0	1000	0	97.6	70-130	996.5	2.03	30	
<i>Surr: Toluene-d8</i>	1092	0	1000	0	109	70-130	1070	2.04	30	

The following samples were analyzed in this batch: | 1404600-01A |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57495** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 1404615-05A DUP		Units: mmhos/cm @25°C		Analysis Date: 4/15/2014 02:30 PM					
Client ID:	Run ID: WETCHEM_140415J		SeqNo: 2713881		Prep Date: 4/15/2014		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.254	0.050	0	0	0		0.26	2.33	50	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
Work Order: 1404600
Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **57529** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-57529-57529		Units: s.u.		Analysis Date: 4/14/2014 05:00 PM					
Client ID:	Run ID: WETCHEM_140414H		SeqNo: 2712169		Prep Date: 4/14/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.91 0 4 0 97.8 90-110 0

DUP	Sample ID: 1404598-01B DUP		Units: s.u.		Analysis Date: 4/14/2014 05:00 PM					
Client ID:	Run ID: WETCHEM_140414H		SeqNo: 2712172		Prep Date: 4/14/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.32 0 0 0 0 0-0 8.39 0.838 20

DUP	Sample ID: 1404615-01A DUP		Units: s.u.		Analysis Date: 4/14/2014 05:00 PM					
Client ID:	Run ID: WETCHEM_140414H		SeqNo: 2712178		Prep Date: 4/14/2014 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 7.76 0.642 20

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: 57755 Instrument ID WETCHEM Method: SW7196A

MBLK		Sample ID: MBLK-57755-57755				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H		SeqNo: 2720618		Prep Date: 4/17/2014		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-57755-57755				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H		SeqNo: 2720617		Prep Date: 4/17/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.856 0.50 2 0 92.8 80-120 0

MS		Sample ID: 1404598-01B MS				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H		SeqNo: 2720516		Prep Date: 4/17/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.2817 0.50 1.984 0.2795 0.112 75-125 0 JS

MS		Sample ID: 1404598-01B MSI				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H		SeqNo: 2720518		Prep Date: 4/17/2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 527 50 664 0.2795 79.3 75-125 0

MSD		Sample ID: 1404598-01B MSD				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H		SeqNo: 2720517		Prep Date: 4/17/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4343 0.50 1.992 0.2795 7.77 75-125 0.2817 0 20 JS

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1404600
 Project: WPX GV 41-34 Landfarm 4.10.14

QC BATCH REPORT

Batch ID: **R138843** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R138843		Units: % of sample				Analysis Date: 4/11/2014 04:13 PM			
Client ID:	Run ID: MOIST_140411C		SeqNo: 2711114		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-R138843		Units: % of sample				Analysis Date: 4/11/2014 04:13 PM			
Client ID:	Run ID: MOIST_140411C		SeqNo: 2711113		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: 1404598-01B DUP		Units: % of sample				Analysis Date: 4/11/2014 04:13 PM			
Client ID:	Run ID: MOIST_140411C		SeqNo: 2711097		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 9.11 0.050 0 0 0 0-0 9.72 6.48 20

DUP	Sample ID: 1404600-01B DUP		Units: % of sample				Analysis Date: 4/11/2014 04:13 PM			
Client ID: Batch 1	Run ID: MOIST_140411C		SeqNo: 2711099		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.09 0.050 0 0 0 0-0 13.54 3.98 20

The following samples were analyzed in this batch: 1404600-01B

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 2928

WORKORDER #	1404600
-------------	---------

PROJECT NAME		WPX <i>LV 41-34 Lead Cont</i>	SAMPLER		Reed Wold			DATE	9/10/14			PAGE	1 of 1		
PROJECT No.			SITE ID		LV 41-34			TURNAROUND	Standard			DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance	BILL TO COMPANY		WPX			BTAY 1620 DROPPAH/METALS SABLE/PH							
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		Parachure 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	Batch 1	So	9/10/14	12:00	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: <i>3.8' </i>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	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	<i>Reed Wold</i>	Reed Wold	9/10/14	1:00
RECEIVED BY	<i>N.M.</i>	N. M...	9-10-14	1:00
RELINQUISHED BY	<i>N.M.</i>	N. MARTINEZ	4-10-14	1:00
RECEIVED BY	<i>D.F. Shea</i>	Diane F. Shea	4/11/14	10:00
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **11-Apr-14 10:00**

Work Order: **1404600**

Received by: **DS**

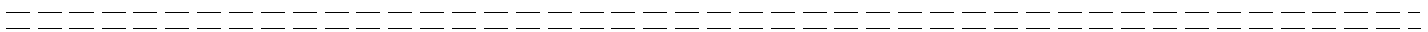
Checklist completed by Diane Shaw 11-Apr-14
eSignature Date

Reviewed by: Ann Preston 14-Apr-14
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):	<input type="text" value="3.8 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="4/11/2014 1:11:03 PM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (616) 399-6070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRR



Ship Date: 10APR14
ActWgt: 51.0 LB
CAD: 2264840/NET3480
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 041014-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL SENDER

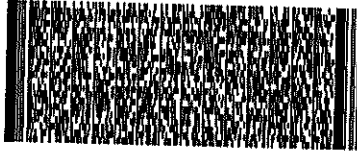
HOLLAND, MI 49424

FRI - 11 APR AA
STANDARD OVERNIGHT

TRK# 7985 1601 9628
6201

68 GRRR

49424
MI-US
GRR



522017806F28

/templates/components/dotcom_label_contents/FoldInstr/en/Folding_Instructions.html loading...
/templates/components/dotcom_label_contents/WarningsOriginalLabel/en/Folding_warning.html loading...
/templates/components/dotcom_label_contents/TnCDom/us/en/TC_dom.html loading...

3.80
A PL. blue
Dlx.
Lote

ALS Parachute Custody Seal

Date: 4/10 Time: 1700
Name: *[Signature]*



23-Jun-2014

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

Re: **WPX GV 41-34 Batch 1 6.17.14**

Work Order: **1406918**

Dear Mark,

ALS Environmental received 1 sample on 18-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 11.

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 ALS Environmental logo icon consisting of a stylized flame and base.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 1 6.17.14
Work Order: 1406918

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>
1406918-01	Batch 1	Soil		6/17/2014 10:55	6/18/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 1 6.17.14
WorkOrder: 1406918

**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 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

ALS Group USA, Corp

Date: 23-Jun-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 1 6.17.14

Sample ID: Batch 1

Collection Date: 6/17/2014 10:55 AM

Work Order: 1406918

Lab ID: 1406918-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 6/19/14	Analyst: IT
DRO (C10-C28)	56		4.9	mg/Kg-dry	1	6/20/2014 03:14 AM
<i>Surr: 4-Terphenyl-d14</i>	76.0		39-133	%REC	1	6/20/2014 03:14 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 6/18/14	Analyst: IT
GRO (C6-C10)	630		3.0	mg/Kg-dry	1	6/20/2014 12:43 PM
<i>Surr: Toluene-d8</i>	102		50-150	%REC	1	6/20/2014 12:43 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 6/18/14	Analyst: BG
Benzene	ND		36	µg/Kg-dry	1	6/19/2014 12:10 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	93.1		70-130	%REC	1	6/19/2014 12:10 PM
<i>Surr: 4-Bromofluorobenzene</i>	103		70-130	%REC	1	6/19/2014 12:10 PM
<i>Surr: Dibromofluoromethane</i>	86.8		70-130	%REC	1	6/19/2014 12:10 PM
<i>Surr: Toluene-d8</i>	113		70-130	%REC	1	6/19/2014 12:10 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	17		0.050	% of sample	1	6/19/2014 12:06 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406918
Project: WPX GV 41-34 Batch 1 6.17.14

QC BATCH REPORT

Batch ID: **59851** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-59851-59851				Units: mg/Kg		Analysis Date: 6/19/2014 09:45 PM			
Client ID:		Run ID: GC8_140619B		SeqNo: 2817163		Prep Date: 6/19/2014		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									
<i>Surr: 4-Terphenyl-d14</i>	2.019	0	2	0	101	39-133		0			

LCS		Sample ID: DLCSS1-59851-59851				Units: mg/Kg		Analysis Date: 6/19/2014 10:14 PM			
Client ID:		Run ID: GC8_140619B		SeqNo: 2817165		Prep Date: 6/19/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	155.2	5.0	200	0	77.6	61-109		0			
<i>Surr: 4-Terphenyl-d14</i>	1.676	0	2	0	83.8	39-133		0			

MS		Sample ID: 1406917-01A MS				Units: mg/Kg		Analysis Date: 6/19/2014 10:44 PM			
Client ID:		Run ID: GC8_140619B		SeqNo: 2817167		Prep Date: 6/19/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	641.6	7.9	316.4	337.1	96.3	48-110		0			
<i>Surr: 4-Terphenyl-d14</i>	2.792	0	3.164	0	88.2	39-133		0			

MSD		Sample ID: 1406917-01A MSD				Units: mg/Kg		Analysis Date: 6/19/2014 11:14 PM			
Client ID:		Run ID: GC8_140619B		SeqNo: 2817169		Prep Date: 6/19/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	583.9	8.0	321.6	337.1	76.7	48-110	641.6	9.42	30		
<i>Surr: 4-Terphenyl-d14</i>	3.167	0	3.216	0	98.5	39-133	2.792	12.6	30		

The following samples were analyzed in this batch: | 1406918-01A |

Client: HRL Compliance Solutions, Inc
 Work Order: 1406918
 Project: WPX GV 41-34 Batch 1 6.17.14

QC BATCH REPORT

Batch ID: **59819** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-59819-59819				Units: µg/Kg		Analysis Date: 6/18/2014 02:21 PM			
Client ID:		Run ID: GC9_140618A				SeqNo: 2815353		Prep Date: 6/18/2014		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>	5030	0	5000		0	101	50-150	0			

LCS		Sample ID: LCS-59819-59819				Units: µg/Kg		Analysis Date: 6/18/2014 01:55 PM			
Client ID:		Run ID: GC9_140618A				SeqNo: 2815352		Prep Date: 6/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	515800	2,500	500000		0	103	70-130	0			
<i>Surr: Toluene-d8</i>	5864	0	5000		0	117	50-150	0			

MS		Sample ID: 1406837-01A MS				Units: µg/Kg		Analysis Date: 6/18/2014 02:47 PM			
Client ID:		Run ID: GC9_140618A				SeqNo: 2815354		Prep Date: 6/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	469200	2,500	500000		0	93.8	70-130	0			
<i>Surr: Toluene-d8</i>	5880	0	5000		0	118	50-150	0			

MSD		Sample ID: 1406837-01A MSD				Units: µg/Kg		Analysis Date: 6/18/2014 03:12 PM			
Client ID:		Run ID: GC9_140618A				SeqNo: 2815355		Prep Date: 6/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	464200	2,500	500000		0	92.8	70-130	469200	1.06	30	
<i>Surr: Toluene-d8</i>	5874	0	5000		0	117	50-150	5880	0.102	30	

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1406918
 Project: WPX GV 41-34 Batch 1 6.17.14

QC BATCH REPORT

Batch ID: **59833** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-59833-59833				Units: µg/Kg		Analysis Date: 6/18/2014 05:14 PM		
Client ID:		Run ID: VMS6_140618A		SeqNo: 2814899		Prep Date: 6/18/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Surr: 1,2-Dichloroethane-d4	957.5	0	1000	0	95.8	70-130	0			
Surr: 4-Bromofluorobenzene	970	0	1000	0	97	70-130	0			
Surr: Dibromofluoromethane	942.5	0	1000	0	94.2	70-130	0			
Surr: Toluene-d8	964.5	0	1000	0	96.4	70-130	0			

LCS		Sample ID: LCS-59833-59833				Units: µg/Kg		Analysis Date: 6/18/2014 03:56 PM		
Client ID:		Run ID: VMS6_140618A		SeqNo: 2814896		Prep Date: 6/18/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1069	30	1000	0	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	933	0	1000	0	93.3	70-130	0			
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1004	0	1000	0	100	70-130	0			
Surr: Toluene-d8	985	0	1000	0	98.5	70-130	0			

MS		Sample ID: 1406831-03A MS				Units: µg/Kg		Analysis Date: 6/20/2014 11:15 AM		
Client ID:		Run ID: VMS9_140619B		SeqNo: 2817912		Prep Date: 6/18/2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	138800	3,000	100000	33850	105	75-125	0			
Surr: 1,2-Dichloroethane-d4	99650	0	100000	0	99.6	70-130	0			
Surr: 4-Bromofluorobenzene	102800	0	100000	0	103	70-130	0			
Surr: Dibromofluoromethane	95250	0	100000	0	95.2	70-130	0			
Surr: Toluene-d8	97400	0	100000	0	97.4	70-130	0			

MSD		Sample ID: 1406831-03A MSD				Units: µg/Kg		Analysis Date: 6/20/2014 11:40 AM		
Client ID:		Run ID: VMS9_140619B		SeqNo: 2817913		Prep Date: 6/18/2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	134500	3,000	100000	33850	101	75-125	138800	3.15	30	
Surr: 1,2-Dichloroethane-d4	98850	0	100000	0	98.8	70-130	99650	0.806	30	
Surr: 4-Bromofluorobenzene	105300	0	100000	0	105	70-130	102800	2.35	30	
Surr: Dibromofluoromethane	92850	0	100000	0	92.8	70-130	95250	2.55	30	
Surr: Toluene-d8	100400	0	100000	0	100	70-130	97400	2.98	30	

The following samples were analyzed in this batch: 1406918-01A

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1406918
 Project: WPX GV 41-34 Batch 1 6.17.14

QC BATCH REPORT

Batch ID: **R143055** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R143055				Units: % of sample			Analysis Date: 6/19/2014 12:06 PM		
Client ID:	Run ID: MOIST_140619C			SeqNo: 2817519		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-R143055				Units: % of sample			Analysis Date: 6/19/2014 12:06 PM		
Client ID:	Run ID: MOIST_140619C			SeqNo: 2817518		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1406822-01A DUP				Units: % of sample			Analysis Date: 6/19/2014 12:06 PM		
Client ID:	Run ID: MOIST_140619C			SeqNo: 2817497		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 80.05 0.050 0 0 0 0-0 81.31 1.56 20

DUP	Sample ID: 1406978-02A DUP				Units: % of sample			Analysis Date: 6/19/2014 12:06 PM		
Client ID:	Run ID: MOIST_140619C			SeqNo: 2817517		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.93 0.050 0 0 0 0-0 6.58 5.18 20

The following samples were analyzed in this batch: 1406918-01A

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 202a

WORKORDER #	1406918
-------------	---------

PROJECT NAME		WPX <i>GV 41-34 Batch 1</i>		SAMPLER		Reed Wold		DATE		6/17/14		PAGE		1 of 1	
PROJECT No.				SITE ID		<i>GV 41-34</i>		TURNAROUND		<i>3 Day</i>		DISPOSAL		By Lab <input checked="" type="checkbox"/> or Return to Client	
COMPANY NAME		HRL Compliance		BILL TO COMPANY		WPX		E-MAIL		<i>DRG/Kfo</i>					
SEND REPORT TO		Mark Mumby		INVOICE ATTN TO		Karolina Blaney		E-MAIL		<i>Reed</i>					
ADDRESS		2385 F 1/2 Rd		ADDRESS		1058 Co Rd 215		E-MAIL							
CITY / STATE / ZIP		Grand Junction, CO 81508		CITY / STATE / ZIP		Parachute CO 81636		E-MAIL							
PHONE		970-243-3271		PHONE		970-883-2295		E-MAIL							
FAX		970-243-3280		FAX				E-MAIL							
E-MAIL		<i>mmumby@hrlcomp.com</i> <i>rwold@hrlcomp.com</i>		E-MAIL		<i>Karolina.blaney@wpxenergy.com</i>		E-MAIL							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
<i>1</i>	<i>Batch 1</i>	<i>SO</i>	<i>6/17/14</i>	<i>6:55</i>	<i>1</i>	<i>8</i>	<i>X</i>								

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

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)

3874

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	<i>Reed Wold</i>	Reed W. Wold	6/17/14	4:00
RECEIVED BY	<i>WMA</i>	WMA	6-17-14	4:07
RELINQUISHED BY	<i>WMA</i>	WMA	6-17-14	4:10
RECEIVED BY	<i>DRG</i>	Diane F She	6/18/14	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **18-Jun-14 10:00**

Work Order: **1406918**

Received by: **DS**

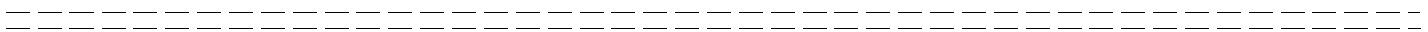
Checklist completed by Diane Shaw 18-Jun-14
eSignature Date

Reviewed by: Ann Preston 18-Jun-14
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):	<input type="text" value="3.8 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="6/18/2014 12:53:46 PM"/>		
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:	<input type="text"/>		

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: 17 JUN 14
Asst Wgt: 47.0 LB
CAD: 2264840/NET3480
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



BHP TO: (616) 399-6870
sample receiving
ALS Laboratory Group
3352 128TH AVE
HOLLAND, MI 49424

BILL SENDER

Ref # 061614-1
Invoice #
PO # Parachute
Dept #

4 of 4

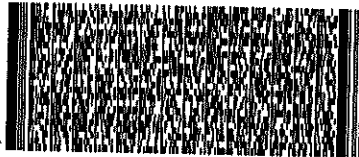
WED - 18 JUN 10:30A
PRIORITY.OVERNIGHT

MPS# 7703 3544 4970

Matr# 7703 3544 4855

49424
MI-US
GRR

XX GRR



5226598C4F220

After printing this label:

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

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

ALS Parachute Custody Seal

DATE 6-17 Time 12:00

Name [Signature]



15-Jul-2014

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

Re: **WPX GV 41-34 Batch 1 7.9.14**

Work Order: **1407548**

Dear Mark,

ALS Environmental received 1 sample on 11-Jul-2014 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 11.

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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 1 7.9.14
Work Order: 1407548

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>
1407548-01	Batch 1	Soil		7/9/2014 11:30	7/11/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 1 7.9.14

Work Order: 1407548

Case Narrative

Batch 60515 sample Batch 1 MS/MSD recoveries for the GRO surrogate were above control limits due to matrix interference. No data requires qualification, as the GRO MS/MSD recoveries met quality control criteria.

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 1 7.9.14
WorkOrder: 1407548

**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 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
LCS D	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

ALS Group USA, Corp

Date: 15-Jul-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 1 7.9.14

Work Order: 1407548

Sample ID: Batch 1

Lab ID: 1407548-01

Collection Date: 7/9/2014 11:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 7/14/14	Analyst: IT
DRO (C10-C28)	39		4.9	mg/Kg-dry	1	7/14/2014 10:09 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>81.6</i>		<i>39-133</i>	<i>%REC</i>	1	7/14/2014 10:09 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 7/11/14	Analyst: IT
GRO (C6-C10)	200		2.9	mg/Kg-dry	1	7/14/2014 02:46 PM
<i>Surr: Toluene-d8</i>	<i>134</i>		<i>50-150</i>	<i>%REC</i>	1	7/14/2014 02:46 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	15		0.050	% of sample	1	7/11/2014 04:14 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407548
Project: WPX GV 41-34 Batch 1 7.9.14

QC BATCH REPORT

Batch ID: **60543** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-60543-60543				Units: mg/Kg		Analysis Date: 7/15/2014 12:33 PM		
Client ID:		Run ID: GC8_140715B		SeqNo: 2849163		Prep Date: 7/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.539	0	1.667	0	92.4	39-133	0			

LCS		Sample ID: DLCSS1-60543-60543				Units: mg/Kg		Analysis Date: 7/15/2014 01:03 PM		
Client ID:		Run ID: GC8_140715B		SeqNo: 2849166		Prep Date: 7/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	128.8	4.2	166.7	0	77.3	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.362	0	1.667	0	81.7	39-133	0			

MS		Sample ID: 1407456-10B MS				Units: mg/Kg		Analysis Date: 7/15/2014 01:33 PM		
Client ID:		Run ID: GC8_140715B		SeqNo: 2849167		Prep Date: 7/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	285.9	7.9	316.5	34.56	79.4	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	3.073	0	3.165	0	97.1	39-133	0			

MSD		Sample ID: 1407456-10B MSD				Units: mg/Kg		Analysis Date: 7/15/2014 02:03 PM		
Client ID:		Run ID: GC8_140715B		SeqNo: 2849169		Prep Date: 7/14/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	275.2	8.1	324.7	34.56	74.1	48-110	285.9	3.81	30	
<i>Surr: 4-Terphenyl-d14</i>	3.034	0	3.247	0	93.4	39-133	3.073	1.29	30	

The following samples were analyzed in this batch: | 1407548-01A |

Client: HRL Compliance Solutions, Inc
 Work Order: 1407548
 Project: WPX GV 41-34 Batch 1 7.9.14

QC BATCH REPORT

Batch ID: **60515** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-60515-60515				Units: µg/Kg		Analysis Date: 7/14/2014 01:30 PM		
Client ID:		Run ID: GC9_140714A				SeqNo: 2847030		Prep Date: 7/11/2014		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								
<i>Surr: Toluene-d8</i>	4435	0	5000	0	88.7	50-150	0			

LCS		Sample ID: LCS-60515-60515				Units: µg/Kg		Analysis Date: 7/14/2014 01:04 PM		
Client ID:		Run ID: GC9_140714A				SeqNo: 2847029		Prep Date: 7/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	552500	2,500	500000	0	111	70-130	0			
<i>Surr: Toluene-d8</i>	4926	0	5000	0	98.5	50-150	0			

MS		Sample ID: 1407548-01A MS				Units: µg/Kg		Analysis Date: 7/14/2014 04:02 PM		
Client ID: Batch 1		Run ID: GC9_140714A				SeqNo: 2847307		Prep Date: 7/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1145000	2,500	1000000	166900	97.8	70-130	0			
<i>Surr: Toluene-d8</i>	49840	0	5000	0	997	50-150	0			S

MSD		Sample ID: 1407548-01A MSD				Units: µg/Kg		Analysis Date: 7/14/2014 04:28 PM		
Client ID: Batch 1		Run ID: GC9_140714A				SeqNo: 2847308		Prep Date: 7/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1269000	2,500	1000000	166900	110	70-130	1145000	10.3	30	
<i>Surr: Toluene-d8</i>	50150	0	5000	0	1000	50-150	49840	0.608	30	S

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1407548
 Project: WPX GV 41-34 Batch 1 7.9.14

QC BATCH REPORT

Batch ID: **R144369** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R144369				Units: % of sample			Analysis Date: 7/11/2014 04:14 PM		
Client ID:	Run ID: MOIST_140711B			SeqNo: 2847236		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-R144369				Units: % of sample			Analysis Date: 7/11/2014 04:14 PM		
Client ID:	Run ID: MOIST_140711B			SeqNo: 2847235		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: 1407489-01A DUP				Units: % of sample			Analysis Date: 7/11/2014 04:14 PM		
Client ID:	Run ID: MOIST_140711B			SeqNo: 2847222		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 7.06 0.050 0 0 0 0-0 7.25 2.66 20

DUP	Sample ID: 1407542-01A DUP				Units: % of sample			Analysis Date: 7/11/2014 04:14 PM		
Client ID:	Run ID: MOIST_140711B			SeqNo: 2847225		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 33.5 0.050 0 0 0 0-0 33.51 0.0298 20

The following samples were analyzed in this batch:

1407548-01A

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **11-Jul-14 09:30**

Work Order: **1407548**

Received by: **DS**

Checklist completed by Diane Shaw 11-Jul-14
eSignature Date

Reviewed by: Ann Preston 14-Jul-14
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):	<input type="text" value="4.8 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="7/11/2014 10:40:15 AM"/>		
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:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (870) 285-5783
Nick Martinez
ALS Environmental
127 E. 1st Street

Origin ID: RLA



Ship Date: 09.JUL.14
Act/Wgt: 64.0 LB
CAD: 2264840VNET3480

Dim: 24 X 15 X 15 IN

PARACHUTE, CO 81635

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

BILL SENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 070914-1
Invoice #
PO # Parachute
Dept #

THU - 10 JUL 10:30A
PRIORITY OVERNIGHT

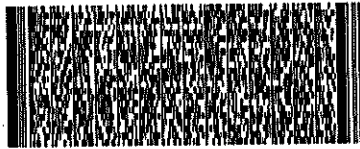
TRK# 7705 6058 7490
0281

49424
MI-US
GRR

XX GRRR



022102ED4F F220



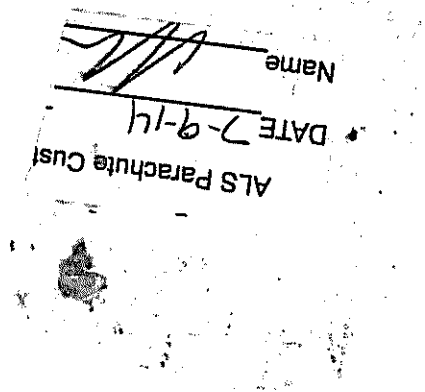
After printing this label:

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

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

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

4.8c





26-Sep-2014

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

Re: **WPX GV 41-34 Batch 2 9.22.14**

Work Order: **14091098**

Dear Mark,

ALS Environmental received 1 sample on 23-Sep-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 26.

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 ALS Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 2 9.22.14
Work Order: 14091098

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>
14091098-01	Batch 2	Soil		9/22/2014 13:20	9/23/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 2 9.22.14
Work Order: 14091098

Case Narrative

Batch 63087 LCS recovery for Mercury was above the upper control limit. The result for Mercury for sample Batch 2 may be biased slightly high for Mercury.

Batch 63099 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 63233 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification. Hexavalent Chromium.

<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: 26-Sep-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 2 9.22.14

Work Order: 14091098

Sample ID: Batch 2

Lab ID: 14091098-01

Collection Date: 9/22/2014 01:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 9/23/14	Analyst: IT
DRO (C10-C28)	37		4.6	mg/Kg-dry	1	9/23/2014 07:53 PM
<i>Surr: 4-Terphenyl-d14</i>	69.9		39-133	%REC	1	9/23/2014 07:53 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 9/23/14	Analyst: IT
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	9/24/2014 12:11 PM
<i>Surr: Toluene-d8</i>	106		50-150	%REC	1	9/24/2014 12:11 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 9/25/14	Analyst: LR
Mercury	0.030		0.014	mg/Kg-dry	1	9/25/2014 05:03 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 9/25/14	Analyst: JEC
Calcium	480		50	mg/L	100	9/25/2014 06:50 PM
Magnesium	110		20	mg/L	100	9/25/2014 06:50 PM
Sodium	2,200		20	mg/L	100	9/25/2014 06:50 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/23/14	Analyst: ML
Arsenic	12		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Barium	340		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Cadmium	ND		0.82	mg/Kg-dry	5	9/23/2014 10:21 PM
Chromium	11		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Copper	13		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Lead	13		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Nickel	15		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Selenium	ND		2.1	mg/Kg-dry	5	9/24/2014 03:14 PM
Silver	ND		2.1	mg/Kg-dry	5	9/23/2014 10:21 PM
Zinc	49		4.1	mg/Kg-dry	5	9/23/2014 10:21 PM
SODIUM ADSORPTION RATIO			USDA H60 METHOD		Prep: USDA Method 20B / 9/25/14	Analyst: JEC
Sodium Adsorption Ratio	23		0.010	none	1	9/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 9/23/14	Analyst: RM
Acenaphthene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Acenaphthylene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Anthracene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Benzo(a)anthracene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Benzo(a)pyrene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Benzo(b)fluoranthene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Benzo(g,h,i)perylene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Benzo(k)fluoranthene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Chrysene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM

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

ALS Group USA, Corp

Date: 26-Sep-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 2 9.22.14

Sample ID: Batch 2

Collection Date: 9/22/2014 01:20 PM

Work Order: 14091098

Lab ID: 14091098-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Fluoranthene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Fluorene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Indeno(1,2,3-cd)pyrene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Naphthalene	41		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Pyrene	ND		7.4	µg/Kg-dry	1	9/24/2014 01:54 AM
Surr: 2-Fluorobiphenyl	52.9		12-100	%REC	1	9/24/2014 01:54 AM
Surr: 4-Terphenyl-d14	64.6		25-137	%REC	1	9/24/2014 01:54 AM
Surr: Nitrobenzene-d5	52.9		37-107	%REC	1	9/24/2014 01:54 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 9/23/14		Analyst: BG
Benzene	ND		34	µg/Kg-dry	1	9/24/2014 07:20 PM
Ethylbenzene	83		34	µg/Kg-dry	1	9/24/2014 07:20 PM
m,p-Xylene	1,000		68	µg/Kg-dry	1	9/24/2014 07:20 PM
o-Xylene	ND		34	µg/Kg-dry	1	9/24/2014 07:20 PM
Toluene	ND		34	µg/Kg-dry	1	9/24/2014 07:20 PM
Xylenes, Total	1,000		100	µg/Kg-dry	1	9/24/2014 07:20 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	9/24/2014 07:20 PM
Surr: 4-Bromofluorobenzene	96.0		70-130	%REC	1	9/24/2014 07:20 PM
Surr: Dibromofluoromethane	99.0		70-130	%REC	1	9/24/2014 07:20 PM
Surr: Toluene-d8	98.4		70-130	%REC	1	9/24/2014 07:20 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/25/14		Analyst: JB
Electrical Conductivity @ Saturation	14		0.050	mmhos/cm @25	10	9/25/2014 03:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: ED
Chromium, Trivalent	11		0.57	mg/Kg-dry	1	9/25/2014 05:30 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/24/14		Analyst: MB
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	9/25/2014 03:30 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	12		0.050	% of sample	1	9/24/2014 05:45 PM
PH			SW9045D	Prep: EXTRACT / 9/23/14		Analyst: STP
pH	8.4			s.u.	1	9/23/2014 04:00 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63072** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-63072-63072				Units: mg/Kg		Analysis Date: 9/23/2014 04:40 PM		
Client ID:		Run ID: GC8_140923A		SeqNo: 2949730		Prep Date: 9/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.379	0	1.667	0	82.7	39-133	0			

LCS		Sample ID: DLCSS1-63072-63072				Units: mg/Kg		Analysis Date: 9/23/2014 05:08 PM		
Client ID:		Run ID: GC8_140923A		SeqNo: 2949732		Prep Date: 9/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	165.9	4.2	166.7	0	99.5	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.276	0	1.667	0	76.5	39-133	0			

MS		Sample ID: 14091048-01B MS				Units: mg/Kg		Analysis Date: 9/23/2014 05:35 PM		
Client ID:		Run ID: GC8_140923A		SeqNo: 2949734		Prep Date: 9/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	318.3	8.2	327.5	11.3	93.7	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.187	0	3.275	0	66.8	39-133	0			

MSD		Sample ID: 14091048-01B MSD				Units: mg/Kg		Analysis Date: 9/23/2014 06:03 PM		
Client ID:		Run ID: GC8_140923A		SeqNo: 2949736		Prep Date: 9/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	330.5	8.0	321.2	11.3	99.4	48-110	318.3	3.77	30	
<i>Surr: 4-Terphenyl-d14</i>	2.491	0	3.212	0	77.5	39-133	2.187	13	30	

The following samples were analyzed in this batch: | 14091098-01B |

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63096** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-63096-63096				Units: µg/Kg		Analysis Date: 9/23/2014 05:55 PM		
Client ID:		Run ID: GC9_140923A				SeqNo: 2949510		Prep Date: 9/23/2014		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>	5202	0	5000	0	104	50-150	0			

LCS		Sample ID: LCS-63096-63096				Units: µg/Kg		Analysis Date: 9/23/2014 05:29 PM		
Client ID:		Run ID: GC9_140923A				SeqNo: 2949509		Prep Date: 9/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	484400	2,500	500000	0	96.9	70-130	0			
<i>Surr: Toluene-d8</i>	5678	0	5000	0	114	50-150	0			

MS		Sample ID: 1409966-01A MS				Units: µg/Kg		Analysis Date: 9/23/2014 06:46 PM		
Client ID:		Run ID: GC9_140923A				SeqNo: 2949512		Prep Date: 9/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	563500	2,500	500000	0	113	70-130	0			
<i>Surr: Toluene-d8</i>	4738	0	5000	0	94.8	50-150	0			

MSD		Sample ID: 1409966-01A MSD				Units: µg/Kg		Analysis Date: 9/23/2014 07:11 PM		
Client ID:		Run ID: GC9_140923A				SeqNo: 2949513		Prep Date: 9/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	540700	2,500	500000	0	108	70-130	563500	4.13	30	
<i>Surr: Toluene-d8</i>	4674	0	5000	0	93.5	50-150	4738	1.36	30	

The following samples were analyzed in this batch: 14091098-01A

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63087** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-63087-63087				Units: mg/Kg		Analysis Date: 9/23/2014 06:36 PM			
Client ID:		Run ID: HG1_140923A				SeqNo: 2949434		Prep Date: 9/23/2014		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-63087-63087				Units: mg/Kg		Analysis Date: 9/23/2014 06:38 PM			
Client ID:		Run ID: HG1_140923A				SeqNo: 2949435		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.2088 0.020 0.1665 0 125 80-120 0 S

MS		Sample ID: 1409903-13BMS				Units: mg/Kg		Analysis Date: 9/23/2014 06:57 PM			
Client ID:		Run ID: HG1_140923A				SeqNo: 2949455		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1157 0.012 0.1019 0.002352 111 75-125 0

MSD		Sample ID: 1409903-13BMSD				Units: mg/Kg		Analysis Date: 9/23/2014 06:59 PM			
Client ID:		Run ID: HG1_140923A				SeqNo: 2949457		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1147 0.012 0.1035 0.002352 108 75-125 0.1157 0.912 35

The following samples were analyzed in this batch:

14091098-01B

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63144** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-63144-63144				Units: mg/Kg		Analysis Date: 9/25/2014 04:27 PM		
Client ID:		Run ID: HG1_140925A				SeqNo: 2953199		Prep Date: 9/25/2014		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-63144-63144				Units: mg/Kg		Analysis Date: 9/25/2014 04:32 PM		
Client ID:		Run ID: HG1_140925A				SeqNo: 2953200		Prep Date: 9/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1983 0.020 0.1665 0 119 80-120 0

MS		Sample ID: 1409903-13BMS				Units: mg/Kg		Analysis Date: 9/25/2014 04:39 PM		
Client ID:		Run ID: HG1_140925A				SeqNo: 2953203		Prep Date: 9/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1216 0.013 0.1047 0.0001571 116 75-125 0

MSD		Sample ID: 1409903-13BMSD				Units: mg/Kg		Analysis Date: 9/25/2014 04:41 PM		
Client ID:		Run ID: HG1_140925A				SeqNo: 2953204		Prep Date: 9/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1132 0.012 0.1025 0.0001571 110 75-125 0.1216 7.21 35

The following samples were analyzed in this batch: 14091098-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63099** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-63099-63099				Units: mg/Kg		Analysis Date: 9/23/2014 08:25 PM		
Client ID:		Run ID: ICPMS1_140923A			SeqNo: 2949712		Prep Date: 9/23/2014		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	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	0.00144	0.25								J
Zinc	0.09125	0.50								J

LCS		Sample ID: LCS-63099-63099				Units: mg/Kg		Analysis Date: 9/23/2014 08:31 PM		
Client ID:		Run ID: ICPMS1_140923A			SeqNo: 2949713		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.563	0.25	5	0	91.3	80-120	0			
Barium	4.81	0.25	5	0	96.2	80-120	0			
Cadmium	4.895	0.10	5	0	97.9	80-120	0			
Chromium	5	0.25	5	0	100	80-120	0			
Copper	4.695	0.25	5	0	93.9	80-120	0			
Lead	4.858	0.25	5	0	97.2	80-120	0			
Nickel	4.838	0.25	5	0	96.8	80-120	0			
Selenium	4.577	0.25	5	0	91.5	80-120	0			
Silver	4.688	0.25	5	0	93.8	80-120	0			
Zinc	4.686	0.50	5	0	93.7	80-120	0			

MS		Sample ID: 14091038-06BMS				Units: mg/Kg		Analysis Date: 9/23/2014 09:08 PM		
Client ID:		Run ID: ICPMS1_140923A			SeqNo: 2949719		Prep Date: 9/23/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.04	1.6	7.886	9.94	64.7	75-125	0			S
Barium	114.7	1.6	7.886	93.81	265	75-125	0			SO
Cadmium	8.372	0.63	7.886	0.1749	104	75-125	0			
Chromium	33.72	1.6	7.886	22.79	139	75-125	0			S
Copper	28.35	1.6	7.886	28.06	3.63	75-125	0			S
Lead	24	1.6	7.886	14.2	124	75-125	0			
Nickel	42.3	1.6	7.886	38.25	51.3	75-125	0			SO
Silver	7.473	1.6	7.886	0.04108	94.2	75-125	0			
Zinc	59.81	3.2	7.886	52.25	95.8	75-125	0			O

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63099** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 14091038-06BMS			Units: mg/Kg		Analysis Date: 9/24/2014 02:09 PM		
Client ID:		Run ID: ICPMS1_140924A			SeqNo: 2951117		Prep Date: 9/23/2014		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Selenium	6.082	1.6	7.886	-0.3768	81.9	75-125		0			

MSD				Sample ID: 14091038-06BMSD			Units: mg/Kg		Analysis Date: 9/23/2014 09:14 PM		
Client ID:		Run ID: ICPMS1_140923A			SeqNo: 2949720		Prep Date: 9/23/2014		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	17.74	1.6	7.886	9.94	99	75-125	15.04	16.5	25		
Barium	116.3	1.6	7.886	93.81	286	75-125	114.7	1.42	25	SO	
Cadmium	8.681	0.63	7.886	0.1749	108	75-125	8.372	3.63	25		
Chromium	35.14	1.6	7.886	22.79	157	75-125	33.72	4.12	25	S	
Copper	32.33	1.6	7.886	28.06	54.2	75-125	28.35	13.1	25	S	
Lead	23.72	1.6	7.886	14.2	121	75-125	24	1.16	25		
Nickel	48.52	1.6	7.886	38.25	130	75-125	42.3	13.7	25	SO	
Silver	7.625	1.6	7.886	0.04108	96.2	75-125	7.473	2.01	25		
Zinc	62.74	3.2	7.886	52.25	133	75-125	59.81	4.79	25	SO	

MSD				Sample ID: 14091038-06BMSD			Units: mg/Kg		Analysis Date: 9/24/2014 02:15 PM		
Client ID:		Run ID: ICPMS1_140924A			SeqNo: 2951119		Prep Date: 9/23/2014		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Selenium	6.11	1.6	7.886	-0.3768	82.3	75-125	6.082	0.466	25		

The following samples were analyzed in this batch: 14091098-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63152** Instrument ID **SAR** Method: **USDA H60 Method**

DUP	Sample ID: 14091098-01CDUP					Units: none	Analysis Date: 9/25/2014			
Client ID: Batch 2	Run ID: SAR_140925A			SeqNo: 2953985		Prep Date: 9/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	22.82	0.010	0	0	0		23.25	1.85	50	

The following samples were analyzed in this batch:

14091098-01C

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: 63071 Instrument ID SVMS4 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-63071-63071				Units: µg/Kg		Analysis Date: 9/23/2014 09:18 PM		
Client ID:		Run ID: SVMS4_140923A			SeqNo: 2951173		Prep Date: 9/23/2014		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								
Surr: 2-Fluorobiphenyl	1384	0	1667	0	83.1	12-100	0			
Surr: 4-Terphenyl-d14	1708	0	1667	0	102	25-137	0			
Surr: Nitrobenzene-d5	1307	0	1667	0	78.4	37-107	0			

LCS		Sample ID: SLCSS1-63071-63071				Units: µg/Kg		Analysis Date: 9/23/2014 09:44 PM		
Client ID:		Run ID: SVMS4_140923A			SeqNo: 2951174		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	563.7	6.7	666.7	0	84.5	45-110	0			
Acenaphthylene	609.7	6.7	666.7	0	91.4	45-105	0			
Anthracene	662.3	6.7	666.7	0	99.3	55-105	0			
Benzo(a)anthracene	635	6.7	666.7	0	95.2	50-110	0			
Benzo(a)pyrene	657	6.7	666.7	0	98.5	50-110	0			
Benzo(b)fluoranthene	654.7	6.7	666.7	0	98.2	45-115	0			
Benzo(g,h,i)perylene	778.7	6.7	666.7	0	117	40-125	0			
Benzo(k)fluoranthene	693	6.7	666.7	0	104	45-115	0			
Chrysene	680.7	6.7	666.7	0	102	55-110	0			
Dibenzo(a,h)anthracene	685.7	6.7	666.7	0	103	40-125	0			
Fluoranthene	641.7	6.7	666.7	0	96.2	55-115	0			
Fluorene	590.3	6.7	666.7	0	88.5	50-110	0			
Indeno(1,2,3-cd)pyrene	666.7	6.7	666.7	0	100	40-120	0			
Naphthalene	564	6.7	666.7	0	84.6	40-105	0			
Pyrene	721.7	6.7	666.7	0	108	45-125	0			
Surr: 2-Fluorobiphenyl	1395	0	1667	0	83.7	12-100	0			
Surr: 4-Terphenyl-d14	1792	0	1667	0	108	25-137	0			
Surr: Nitrobenzene-d5	1362	0	1667	0	81.7	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: 63071 Instrument ID SVMS4 Method: SW846 8270D

MS				Sample ID: 1409959-01A MS			Units: µg/Kg		Analysis Date: 9/23/2014 10:10 PM		
Client ID:		Run ID: SVMS4_140923A		SeqNo: 2951175		Prep Date: 9/23/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1587	20	1973	0	80.4	45-110	0				
Acenaphthylene	1707	20	1973	0	86.5	45-105	0				
Anthracene	1933	20	1973	0	97.9	55-105	0				
Benzo(a)anthracene	1854	20	1973	42.16	91.8	50-110	0				
Benzo(a)pyrene	1985	20	1973	0	101	50-110	0				
Benzo(b)fluoranthene	2068	20	1973	0	105	45-115	0				
Benzo(g,h,i)perylene	2191	20	1973	0	111	40-125	0				
Benzo(k)fluoranthene	2145	20	1973	0	109	45-115	0				
Chrysene	1956	20	1973	0	99.1	55-110	0				
Dibenzo(a,h)anthracene	1931	20	1973	56.82	95	40-125	0				
Fluoranthene	1946	20	1973	0	98.6	55-115	0				
Fluorene	1699	20	1973	0	86.1	50-110	0				
Indeno(1,2,3-cd)pyrene	1992	20	1973	111.8	95.3	40-120	0				
Naphthalene	1552	20	1973	0	78.6	40-105	0				
Pyrene	1974	20	1973	0	100	45-125	0				
Surr: 2-Fluorobiphenyl	3790	0	4933	0	76.8	12-100	0				
Surr: 4-Terphenyl-d14	4781	0	4933	0	96.9	25-137	0				
Surr: Nitrobenzene-d5	3650	0	4933	0	74	37-107	0				

MSD				Sample ID: 1409959-01A MSD			Units: µg/Kg		Analysis Date: 9/23/2014 10:36 PM		
Client ID:		Run ID: SVMS4_140923A		SeqNo: 2951176		Prep Date: 9/23/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1540	19	1891	0	81.4	45-110	1587	3.01	30		
Acenaphthylene	1639	19	1891	0	86.7	45-105	1707	4.02	30		
Anthracene	1898	19	1891	0	100	55-105	1933	1.78	30		
Benzo(a)anthracene	1807	19	1891	42.16	93.3	50-110	1854	2.56	30		
Benzo(a)pyrene	1863	19	1891	0	98.5	50-110	1985	6.31	30		
Benzo(b)fluoranthene	1993	19	1891	0	105	45-115	2068	3.68	30		
Benzo(g,h,i)perylene	2006	19	1891	0	106	40-125	2191	8.8	30		
Benzo(k)fluoranthene	1983	19	1891	0	105	45-115	2145	7.85	30		
Chrysene	1855	19	1891	0	98.1	55-110	1956	5.31	30		
Dibenzo(a,h)anthracene	1822	19	1891	56.82	93.3	40-125	1931	5.79	30		
Fluoranthene	1870	19	1891	0	98.9	55-115	1946	4	30		
Fluorene	1636	19	1891	0	86.5	50-110	1699	3.79	30		
Indeno(1,2,3-cd)pyrene	1829	19	1891	111.8	90.8	40-120	1992	8.49	30		
Naphthalene	1513	19	1891	0	80	40-105	1552	2.55	30		
Pyrene	1933	19	1891	0	102	45-125	1974	2.07	30		
Surr: 2-Fluorobiphenyl	3552	0	4727	0	75.1	12-100	3790	6.48	40		
Surr: 4-Terphenyl-d14	4558	0	4727	0	96.4	25-137	4781	4.77	40		
Surr: Nitrobenzene-d5	3540	0	4727	0	74.9	37-107	3650	3.07	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63071** Instrument ID **SVMS4** Method: **SW846 8270D**

The following samples were analyzed in this batch:

14091098-01B

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63095** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-63095-63095			Units: µg/Kg			Analysis Date: 9/24/2014 02:51 AM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950151		Prep Date: 9/23/2014		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								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>978</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>990.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>990.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>			

MBLK		Sample ID: MBLK-63095-63095			Units: µg/Kg			Analysis Date: 9/24/2014 02:51 AM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950185		Prep Date: 9/23/2014		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								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>978</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>990.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>990.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-63095-63095			Units: µg/Kg			Analysis Date: 9/23/2014 11:59 PM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950146		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1054	30	1000	0	105	75-125	0			
Ethylbenzene	1017	30	1000	0	102	75-125	0			
m,p-Xylene	2037	60	2000	0	102	80-125	0			
o-Xylene	1008	30	1000	0	101	75-125	0			
Toluene	1064	30	1000	0	106	70-125	0			
Xylenes, Total	3044	90	3000	0	101	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1024</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>985</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.5</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1042</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>997.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63095** Instrument ID **VMS8** Method: **SW8260B**

LCS		Sample ID: LCS-63095-63095			Units: µg/Kg			Analysis Date: 9/23/2014 11:59 PM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950178		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1054	30	1000	0	105	75-125	0			
Ethylbenzene	1017	30	1000	0	102	75-125	0			
m,p-Xylene	2037	60	2000	0	102	80-125	0			
o-Xylene	1008	30	1000	0	101	75-125	0			
Toluene	1064	30	1000	0	106	70-125	0			
Xylenes, Total	3044	90	3000	0	101	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1024	0	1000	0	102	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	985	0	1000	0	98.5	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1042	0	1000	0	104	70-130	0			
<i>Surr: Toluene-d8</i>	997.5	0	1000	0	99.8	70-130	0			

LCSD		Sample ID: LCSD-63095-63095			Units: µg/Kg			Analysis Date: 9/24/2014 12:24 PM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950191		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	974.5	30	1000	0	97.4	75-125	1054	7.84	25	
Ethylbenzene	983	30	1000	0	98.3	75-125	1017	3.4	25	
m,p-Xylene	1953	60	2000	0	97.6	80-125	2037	4.21	25	
o-Xylene	975	30	1000	0	97.5	75-125	1008	3.28	25	
Toluene	1035	30	1000	0	104	70-125	1064	2.81	25	
Xylenes, Total	2928	90	3000	0	97.6	75-125	3044	3.9	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	997.5	0	1000	0	99.8	70-130	1024	2.57	0	
<i>Surr: 4-Bromofluorobenzene</i>	1003	0	1000	0	100	70-130	985	1.81	0	
<i>Surr: Dibromofluoromethane</i>	1015	0	1000	0	102	70-130	1042	2.58	0	
<i>Surr: Toluene-d8</i>	998.5	0	1000	0	99.8	70-130	997.5	0.1	0	

MS		Sample ID: 14091088-01A MS			Units: µg/Kg			Analysis Date: 9/24/2014 08:57 AM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950158		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	962.5	30	1000	22	94	75-125	0			
Ethylbenzene	918.5	30	1000	0	91.8	75-125	0			
m,p-Xylene	1843	60	2000	0	92.2	80-125	0			
o-Xylene	940.5	30	1000	0	94	75-125	0			
Toluene	946	30	1000	35	91.1	70-125	0			
Xylenes, Total	2784	90	3000	0	92.8	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1011	0	1000	0	101	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1025	0	1000	0	102	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1024	0	1000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	933	0	1000	0	93.3	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63095** Instrument ID **VMS8** Method: **SW8260B**

MSD		Sample ID: 14091088-01A MSD				Units: µg/Kg		Analysis Date: 9/24/2014 09:22 AM		
Client ID:		Run ID: VMS8_140923A			SeqNo: 2950165		Prep Date: 9/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	936.5	30	1000	22	91.4	75-125	962.5	2.74	30	
Ethylbenzene	911.5	30	1000	0	91.2	75-125	918.5	0.765	30	
m,p-Xylene	1839	60	2000	0	92	80-125	1843	0.217	30	
o-Xylene	933	30	1000	0	93.3	75-125	940.5	0.801	30	
Toluene	930.5	30	1000	35	89.6	70-125	946	1.65	30	
Xylenes, Total	2772	90	3000	0	92.4	75-125	2784	0.414	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	983	0	1000	0	98.3	70-130	1011	2.81	30	
<i>Surr: 4-Bromofluorobenzene</i>	1001	0	1000	0	100	70-130	1025	2.37	30	
<i>Surr: Dibromofluoromethane</i>	948	0	1000	0	94.8	70-130	1024	7.76	30	
<i>Surr: Toluene-d8</i>	949	0	1000	0	94.9	70-130	933	1.7	30	

The following samples were analyzed in this batch: | 14091098-01A |

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63106** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-63106-63106		Units: s.u.		Analysis Date: 9/23/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140923N		SeqNo: 2948794		Prep Date: 9/23/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.01 0 4 0 100 90-110 0

DUP	Sample ID: 1409932-01C DUP		Units: s.u.		Analysis Date: 9/23/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140923N		SeqNo: 2948799		Prep Date: 9/23/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.21 0 0 0 0 0-0 8.34 1.57 20

DUP	Sample ID: 1409967-03A DUP		Units: s.u.		Analysis Date: 9/23/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140923N		SeqNo: 2948807		Prep Date: 9/23/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8 0 0 0 0 0-0 8 0 20

The following samples were analyzed in this batch: 14091098-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63152** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 14091098-01C DUP		Units: mmhos/cm @25°C		Analysis Date: 9/25/2014 03:15 PM					
Client ID: Batch 2	Run ID: WETCHEM_140925N		SeqNo: 2952727		Prep Date: 9/25/2014		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	13.84	0.050	0	0	0		14.32	3.41	50	

The following samples were analyzed in this batch:

14091098-01C

Client: HRL Compliance Solutions, Inc
 Work Order: 14091098
 Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **63233** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-63233-63233		Units: mg/Kg		Analysis Date: 9/25/2014 03:30 PM					
Client ID:	Run ID: WETCHEM_140925Y		SeqNo: 2953126		Prep Date: 9/24/2014 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-63233-63233		Units: mg/Kg		Analysis Date: 9/25/2014 03:30 PM					
Client ID:	Run ID: WETCHEM_140925Y		SeqNo: 2953125		Prep Date: 9/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.672 0.50 2 0 83.6 80-120 0

MS	Sample ID: 14091096-01B MS		Units: mg/Kg		Analysis Date: 9/25/2014 03:30 PM					
Client ID:	Run ID: WETCHEM_140925Y		SeqNo: 2953119		Prep Date: 9/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.566 0.50 1.992 0.2134 67.9 75-125 0 S

MS	Sample ID: 14091096-01B MSI		Units: mg/Kg		Analysis Date: 9/25/2014 03:30 PM					
Client ID:	Run ID: WETCHEM_140925Y		SeqNo: 2953121		Prep Date: 9/24/2014 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1137 49 1071 0.2134 106 75-125 0

MSD	Sample ID: 14091096-01B MSD		Units: mg/Kg		Analysis Date: 9/25/2014 03:30 PM					
Client ID:	Run ID: WETCHEM_140925Y		SeqNo: 2953120		Prep Date: 9/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.949 0.49 1.976 0.2134 87.8 75-125 1.566 21.8 20 R

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091098
Project: WPX GV 41-34 Batch 2 9.22.14

QC BATCH REPORT

Batch ID: **R148877** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R148877		Units: % of sample				Analysis Date: 9/24/2014 05:45 PM			
Client ID:	Run ID: MOIST_140924D		SeqNo: 2951623		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-R148877		Units: % of sample				Analysis Date: 9/24/2014 05:45 PM			
Client ID:	Run ID: MOIST_140924D		SeqNo: 2951621		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: 1409969-11A DUP		Units: % of sample				Analysis Date: 9/24/2014 05:45 PM			
Client ID:	Run ID: MOIST_140924D		SeqNo: 2951596		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 1.15 0.050 0 0 0 0-0 1.15 0 20

DUP	Sample ID: 1409981-08A DUP		Units: % of sample				Analysis Date: 9/24/2014 05:45 PM			
Client ID:	Run ID: MOIST_140924D		SeqNo: 2951617		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.83 0.050 0 0 0 0-0 4.88 1.03 20

The following samples were analyzed in this batch: 14091098-01B

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

WORKORDER #	14091098
-------------	----------

Form 2028

PROJECT NAME	WPX <i>LV 41-34</i>	SAMPLER	Read Wold				DATE	<i>9/22/14</i>				PAGE	1 of 1	
PROJECT No.	<i>Batch 2</i>	SITE ID	<i>LV 41-34</i>				TURNAROUND	<i>3 Day</i>				DISPOSAL	By Lab or Return to Client	
COMPANY NAME	HRL Compliance	EDD FORMAT					<i>BTEX/LRO DR O/P/H/Metals SAR/EC/PH</i>							
BEND REPORT TO	Mark Mumby	PURCHASE ORDER												
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX											
CITY/STATE/ZIP	Grand Junction, CO 81508	INVOICE ATTN TO	Karolina Blaney											
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215											
FAX	970-243-3280	CITY/STATE/ZIP	Parachure CO 81635											
E-MAIL	<i>mmumby@hrlcomp.com</i> <i>rwold@hrlcomp.com</i>	PHONE	970-683-2295											
E-MAIL		E-MAIL	<i>Karolina.blaney@wpxenergy.com</i>											
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC							
<i>1</i>	<i>Batch 2</i>	<i>SO</i>	<i>9/22/14</i>	<i>1:20</i>	<i>3</i>	<i>8</i>	<i>X X X</i>							

*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: *4.2% [Signature]*

QC PACKAGE (check below)

<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
<input type="checkbox"/>	LEVEL III (Std QC + forms)
<input type="checkbox"/>	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	<i>[Signature]</i>	<i>Read Wold</i>	<i>9/22/14</i>	<i>2:00</i>
RECEIVED BY	<i>[Signature]</i>	<i>[Signature]</i>	<i>9/22/14</i>	<i>2:00</i>
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	<i>9/22/14</i>	<i>2:00</i>
RECEIVED BY	<i>[Signature]</i>	<i>Diane F. Shaw</i>	<i>9/23/14</i>	<i>1000</i>
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **23-Sep-14 10:00**

Work Order: **14091098**

Received by: **DS**

Checklist completed by Diane Shaw 23-Sep-14
eSignature Date

Reviewed by: Ann Preston 23-Sep-14
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):	<input type="text" value="4.2 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="9/23/2014 11:17:06 AM"/>		
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:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (810) 399-6070
Mail Method:
ALS Environmental
127 E. 1st Street

Origin ID: RLA



115214580030

PARACHUTE, CO 81635

Ship Date: 22SEP14
Auth: 082214-1
CAD: 22040404NET3558
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



SHIP TO: (810) 399-6070
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL BENDER

Ref # 082214-1
Invoice #
PO # Parachute
Dept #

HOLLAND, MI 49424

1 of 2

TUE - 23 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7712 4110 4770

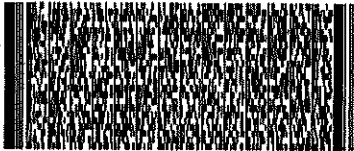
082214

MASTER

49424

XX HLMA

HLMA
GRR



02200049424

After printing this label:

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

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

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



ALS Environmental

3352 128th Avenue
Holland, Michigan 49424
Tel: +1 616 399 6070
Fax: +1 616 399 6158

CUSTODY SEAL

Date: 9/22/14
Name: [Signature]
Company: [Signature]

Seal Broken By:

Date:



04-Nov-2014

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

Re: **WPX GV 41-34 Batch 3 10.28.14**

Work Order: **14101771**

Dear Mark,

ALS Environmental received 1 sample on 30-Oct-2014 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 24.

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

Sincerely,

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 ALS Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 3 10.28.14
Work Order: 14101771

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>
14101771-01	GV 41-34 Batch 3	Soil		10/28/2014 09:50	10/30/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 3 10.28.14
Work Order: 14101771

Case Narrative

Batch 64547 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 64560 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: 04-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 3 10.28.14
Sample ID: GV 41-34 Batch 3
Collection Date: 10/28/2014 09:50 AM

Work Order: 14101771
Lab ID: 14101771-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 10/31/14	Analyst: IT
DRO (C10-C28)	31		4.5	mg/Kg-dry	1	10/31/2014 08:50 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>62.0</i>		<i>39-133</i>	<i>%REC</i>	1	10/31/2014 08:50 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 10/31/14	Analyst: IT
GRO (C6-C10)	78		2.7	mg/Kg-dry	1	11/1/2014 11:07 AM
<i>Surr: Toluene-d8</i>	<i>127</i>		<i>50-150</i>	<i>%REC</i>	1	11/1/2014 11:07 AM
MERCURY BY CVA			SW7471		Prep: SW7471 / 10/31/14	Analyst: LR
Mercury	0.023		0.016	mg/Kg-dry	1	10/31/2014 02:21 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 10/31/14	Analyst: JEC
Arsenic	13		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Barium	330		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Cadmium	ND		0.31	mg/Kg-dry	1	10/31/2014 06:27 PM
Chromium	11		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Copper	15		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Lead	20		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Nickel	13		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Selenium	0.62		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Silver	ND		0.39	mg/Kg-dry	1	10/31/2014 06:27 PM
Zinc	63		0.79	mg/Kg-dry	1	10/31/2014 06:27 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 11/1/14	Analyst: JEC
Calcium	490		5.0	mg/L	10	11/3/2014 03:27 PM
Magnesium	150		2.0	mg/L	10	11/3/2014 03:27 PM
Sodium	2,700		20	mg/L	100	11/3/2014 04:37 PM
SODIUM ADSORPTION RATIO			USDA H60 METHOD		Prep: USDA Method 20B / 11/1/14	Analyst: JEC
Sodium Adsorption Ratio	28		0.010	none	1	11/3/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 10/31/14	Analyst: RM
Acenaphthene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Acenaphthylene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Anthracene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Benzo(a)anthracene	9.7		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Benzo(a)pyrene	16		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Benzo(b)fluoranthene	10		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Benzo(g,h,i)perylene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Benzo(k)fluoranthene	8.6		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Chrysene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM

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

ALS Group USA, Corp

Date: 04-Nov-14

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 3 10.28.14
Sample ID: GV 41-34 Batch 3
Collection Date: 10/28/2014 09:50 AM

Work Order: 14101771
Lab ID: 14101771-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Fluoranthene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Fluorene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Indeno(1,2,3-cd)pyrene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Naphthalene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Pyrene	ND		7.2	µg/Kg-dry	1	11/3/2014 01:46 PM
Surr: 2-Fluorobiphenyl	66.6		12-100	%REC	1	11/3/2014 01:46 PM
Surr: 4-Terphenyl-d14	92.1		25-137	%REC	1	11/3/2014 01:46 PM
Surr: Nitrobenzene-d5	56.6		37-107	%REC	1	11/3/2014 01:46 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/31/14		Analyst: RS
Benzene	ND		33	µg/Kg-dry	1	11/1/2014 03:39 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	11/1/2014 03:39 AM
m,p-Xylene	84		65	µg/Kg-dry	1	11/1/2014 03:39 AM
o-Xylene	ND		33	µg/Kg-dry	1	11/1/2014 03:39 AM
Toluene	ND		33	µg/Kg-dry	1	11/1/2014 03:39 AM
Xylenes, Total	ND		98	µg/Kg-dry	1	11/1/2014 03:39 AM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	11/1/2014 03:39 AM
Surr: 4-Bromofluorobenzene	108		70-130	%REC	1	11/1/2014 03:39 AM
Surr: Dibromofluoromethane	93.5		70-130	%REC	1	11/1/2014 03:39 AM
Surr: Toluene-d8	103		70-130	%REC	1	11/1/2014 03:39 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 11/1/14		Analyst: JB
Electrical Conductivity @ Saturation	16		0.050	mmhos/cm @25	10	11/3/2014 02:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.54	mg/Kg-dry	1	11/3/2014 05:30 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/30/14		Analyst: MB
Chromium, Hexavalent	ND		0.53	mg/Kg-dry	1	10/31/2014 04:00 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	8.2		0.050	% of sample	1	10/30/2014 09:00 PM
PH			SW9045D	Prep: EXTRACT / 10/31/14		Analyst: JB
pH	8.0			s.u.	1	10/31/2014 02:30 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64524** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-64524-64524				Units: mg/Kg		Analysis Date: 10/31/2014 05:10 PM		
Client ID:		Run ID: GC8_141031A		SeqNo: 3013968		Prep Date: 10/31/2014		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								
<i>Surr: 4-Terphenyl-d14</i>	1.106	0	2	0	55.3	39-133	0			

LCS		Sample ID: DLCSS1-64524-64524				Units: mg/Kg		Analysis Date: 10/31/2014 05:37 PM		
Client ID:		Run ID: GC8_141031A		SeqNo: 3013969		Prep Date: 10/31/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	157.4	5.0	200	0	78.7	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	0.7984	0	2	0	39.9	39-133	0			

MS		Sample ID: 14101675-01A MS				Units: mg/Kg		Analysis Date: 10/31/2014 06:05 PM		
Client ID:		Run ID: GC8_141031A		SeqNo: 3013970		Prep Date: 10/31/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	332	7.9	315.7	32.31	94.9	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.621	0	3.157	0	51.3	39-133	0			

MSD		Sample ID: 14101675-01A MSD				Units: mg/Kg		Analysis Date: 10/31/2014 06:32 PM		
Client ID:		Run ID: GC8_141031A		SeqNo: 3013971		Prep Date: 10/31/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	296.1	7.9	316.6	32.31	83.3	48-110	332	11.4	30	
<i>Surr: 4-Terphenyl-d14</i>	1.796	0	3.166	0	56.7	39-133	1.621	10.2	30	

The following samples were analyzed in this batch: | 14101771-01B |

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64541** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-64541-64541				Units: µg/Kg		Analysis Date: 11/1/2014 03:36 AM			
Client ID:		Run ID: GC9_141031A				SeqNo: 3013773		Prep Date: 10/31/2014		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>	4925	0	5000	0	98.5	50-150	0				

LCS		Sample ID: LCS-64541-64541				Units: µg/Kg		Analysis Date: 11/1/2014 03:11 AM			
Client ID:		Run ID: GC9_141031A				SeqNo: 3013772		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	563600	2,500	500000	0	113	70-130	0				
<i>Surr: Toluene-d8</i>	4400	0	5000	0	88	50-150	0				

MS		Sample ID: 14101776-01B MS				Units: µg/Kg		Analysis Date: 11/1/2014 04:26 AM			
Client ID:		Run ID: GC9_141031A				SeqNo: 3013775		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	584900	2,500	500000	0	117	70-130	0				
<i>Surr: Toluene-d8</i>	4868	0	5000	0	97.4	50-150	0				

MSD		Sample ID: 14101776-01B MSD				Units: µg/Kg		Analysis Date: 11/1/2014 04:52 AM			
Client ID:		Run ID: GC9_141031A				SeqNo: 3013776		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
GRO (C6-C10)	571300	2,500	500000	0	114	70-130	584900	2.36	30		
<i>Surr: Toluene-d8</i>	4797	0	5000	0	95.9	50-150	4868	1.46	30		

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64488** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-64488-64488				Units: mg/Kg		Analysis Date: 10/31/2014 01:31 PM		
Client ID:		Run ID: HG1_141031A			SeqNo: 3011644		Prep Date: 10/31/2014		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-64488-64488				Units: mg/Kg		Analysis Date: 10/31/2014 01:34 PM		
Client ID:		Run ID: HG1_141031A			SeqNo: 3011645		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1772 0.020 0.1665 0 106 80-120 0

MS		Sample ID: 14101776-02AMS				Units: mg/Kg		Analysis Date: 10/31/2014 01:38 PM		
Client ID:		Run ID: HG1_141031A			SeqNo: 3011647		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1177 0.011 0.09259 0.003715 123 75-125 0

MSD		Sample ID: 14101776-02AMSD				Units: mg/Kg		Analysis Date: 10/31/2014 01:42 PM		
Client ID:		Run ID: HG1_141031A			SeqNo: 3011648		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1153 0.011 0.09302 0.003715 120 75-125 0.1177 2.05 35

The following samples were analyzed in this batch: 14101771-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64512** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 14101732-01C DUP				Units: mg/L		Analysis Date: 11/3/2014 03:08 PM		
Client ID:		Run ID: ICP2_141103A			SeqNo: 3014890		Prep Date: 11/1/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	311.1	5.0	0	0	0	0-0	317	1.88		
Magnesium	54.58	2.0	0	0	0	0-0	56.04	2.64		
Sodium	495.1	2.0	0	0	0	0-0	502.5	1.49		

DUP		Sample ID: 14101732-01C DUP				Units: none		Analysis Date: 11/3/2014		
Client ID:		Run ID: SAR_141103A			SeqNo: 3014935		Prep Date: 11/1/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	6.807	0.010	0	0	0		6.839	0.468	50	

The following samples were analyzed in this batch:

14101771-01C

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64547** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-64547-64547				Units: mg/Kg		Analysis Date: 10/31/2014 05:59 PM		
Client ID:		Run ID: ICP2_141031B			SeqNo: 3013182		Prep Date: 10/31/2014		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	ND	0.50								
Chromium	ND	0.25								
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.1616	0.50								J

LCS		Sample ID: LCS-64547-64547				Units: mg/Kg		Analysis Date: 10/31/2014 06:04 PM		
Client ID:		Run ID: ICP2_141031B			SeqNo: 3013183		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.698	0.25	5	0	94	80-120	0			
Barium	4.693	0.25	5	0	93.9	80-120	0			
Cadmium	4.521	0.50	5	0	90.4	80-120	0			
Chromium	4.838	0.25	5	0	96.8	80-120	0			
Copper	4.869	0.50	5	0	97.4	80-120	0			
Lead	4.768	0.25	5	0	95.4	80-120	0			
Nickel	4.749	0.25	5	0	95	80-120	0			
Selenium	4.747	0.50	5	0	94.9	80-120	0			
Silver	4.927	0.25	5	0	98.5	80-120	0			
Zinc	5.021	0.50	5	0	100	80-120	0			

MS		Sample ID: 14101823-03AMS				Units: mg/Kg		Analysis Date: 10/31/2014 07:24 PM		
Client ID:		Run ID: ICP2_141031B			SeqNo: 3013197		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.46	0.38	7.508	7.58	105	75-125	0			
Barium	242.1	0.38	7.508	266	-318	75-125	0			SO
Cadmium	7.121	0.75	7.508	0.1906	92.3	75-125	0			
Chromium	18.31	0.38	7.508	10.66	102	75-125	0			
Copper	19.91	0.75	7.508	13.2	89.3	75-125	0			
Lead	26.37	0.38	7.508	19.95	85.5	75-125	0			
Nickel	20.94	0.38	7.508	13.89	93.9	75-125	0			
Selenium	7.369	0.75	7.508	0.3791	93.1	75-125	0			
Silver	8.355	0.38	7.508	-0.03233	112	75-125	0			
Zinc	76.58	0.75	7.508	67.38	123	75-125	0			O

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

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64547** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 14101823-03AMSD				Units: mg/Kg		Analysis Date: 10/31/2014 07:29 PM			
Client ID:		Run ID: ICP2_141031B			SeqNo: 3013198		Prep Date: 10/31/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	14.57	0.37	7.496	7.58	93.2	75-125	15.46	5.94	20		
Barium	268.5	0.37	7.496	266	33.6	75-125	242.1	10.3	20	SO	
Cadmium	7.08	0.75	7.496	0.1906	91.9	75-125	7.121	0.577	20		
Chromium	17.9	0.37	7.496	10.66	96.5	75-125	18.31	2.25	20		
Copper	19.51	0.75	7.496	13.2	84	75-125	19.91	2.04	20		
Lead	25.67	0.37	7.496	19.95	76.3	75-125	26.37	2.7	20		
Nickel	20.24	0.37	7.496	13.89	84.8	75-125	20.94	3.38	20		
Selenium	7.556	0.75	7.496	0.3791	95.7	75-125	7.369	2.5	20		
Silver	8.241	0.37	7.496	-0.03233	110	75-125	8.355	1.38	20		
Zinc	74.71	0.75	7.496	67.38	97.9	75-125	76.58	2.47	20	O	

The following samples were analyzed in this batch: | 14101771-01B |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64523** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-64523-64523				Units: µg/Kg		Analysis Date: 11/3/2014 10:23 AM		
Client ID:		Run ID: SVMS8_141103A				SeqNo: 3014423		Prep Date: 10/31/2014		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>	1311	0	1667	0	78.7	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1758	0	1667	0	105	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1172	0	1667	0	70.3	37-107	0			

LCS		Sample ID: SLCSS1-64523-64523				Units: µg/Kg		Analysis Date: 11/3/2014 10:43 AM		
Client ID:		Run ID: SVMS8_141103A				SeqNo: 3014431		Prep Date: 10/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	536.7	6.7	666.7	0	80.5	45-110	0			
Acenaphthylene	533	6.7	666.7	0	79.9	45-105	0			
Anthracene	625.3	6.7	666.7	0	93.8	55-105	0			
Benzo(a)anthracene	633.3	6.7	666.7	0	95	50-110	0			
Benzo(a)pyrene	713.7	6.7	666.7	0	107	50-110	0			
Benzo(b)fluoranthene	700.7	6.7	666.7	0	105	45-115	0			
Benzo(g,h,i)perylene	641.3	6.7	666.7	0	96.2	40-125	0			
Benzo(k)fluoranthene	688	6.7	666.7	0	103	45-115	0			
Chrysene	664	6.7	666.7	0	99.6	55-110	0			
Dibenzo(a,h)anthracene	691	6.7	666.7	0	104	40-125	0			
Fluoranthene	635	6.7	666.7	0	95.2	55-115	0			
Fluorene	545.3	6.7	666.7	0	81.8	50-110	0			
Indeno(1,2,3-cd)pyrene	699.7	6.7	666.7	0	105	40-120	0			
Naphthalene	523	6.7	666.7	0	78.4	40-105	0			
Pyrene	660	6.7	666.7	0	99	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1219	0	1667	0	73.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1567	0	1667	0	94	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1147	0	1667	0	68.8	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64523** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: 14101675-01A MS			Units: µg/Kg		Analysis Date: 11/3/2014 11:03 AM		
Client ID:		Run ID: SVMS8_141103A			SeqNo: 3014432		Prep Date: 10/31/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	987.6	13	1313	0	75.2	45-110	0				
Acenaphthylene	1011	13	1313	0	77	45-105	0				
Anthracene	1150	13	1313	0	87.5	55-105	0				
Benzo(a)anthracene	1134	13	1313	0	86.3	50-110	0				
Benzo(a)pyrene	1309	13	1313	0	99.6	50-110	0				
Benzo(b)fluoranthene	1264	13	1313	0	96.2	45-115	0				
Benzo(g,h,i)perylene	1254	13	1313	0	95.4	40-125	0				
Benzo(k)fluoranthene	1265	13	1313	0	96.3	45-115	0				
Chrysene	1184	13	1313	0	90.1	55-110	0				
Dibenzo(a,h)anthracene	1323	13	1313	0	101	40-125	0				
Fluoranthene	1085	13	1313	0	82.6	55-115	0				
Fluorene	1039	13	1313	0	79.1	50-110	0				
Indeno(1,2,3-cd)pyrene	1329	13	1313	0	101	40-120	0				
Naphthalene	943.6	13	1313	0	71.8	40-105	0				
Pyrene	1284	13	1313	4.249	97.5	45-125	0				
<i>Surr: 2-Fluorobiphenyl</i>	2242	0	3283	0	68.3	12-100	0				
<i>Surr: 4-Terphenyl-d14</i>	2906	0	3283	0	88.5	25-137	0				
<i>Surr: Nitrobenzene-d5</i>	1991	0	3283	0	60.6	37-107	0				

MSD				Sample ID: 14101675-01A MSD			Units: µg/Kg		Analysis Date: 11/3/2014 11:24 AM		
Client ID:		Run ID: SVMS8_141103A			SeqNo: 3014433		Prep Date: 10/31/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	957.2	13	1325	0	72.2	45-110	987.6	3.12	30		
Acenaphthylene	1017	13	1325	0	76.7	45-105	1011	0.552	30		
Anthracene	1096	13	1325	0	82.7	55-105	1150	4.76	30		
Benzo(a)anthracene	1146	13	1325	0	86.5	50-110	1134	1.05	30		
Benzo(a)pyrene	1365	13	1325	0	103	50-110	1309	4.18	30		
Benzo(b)fluoranthene	1235	13	1325	0	93.2	45-115	1264	2.29	30		
Benzo(g,h,i)perylene	1209	13	1325	0	91.2	40-125	1254	3.62	30		
Benzo(k)fluoranthene	1252	13	1325	0	94.5	45-115	1265	1.06	30		
Chrysene	1192	13	1325	0	90	55-110	1184	0.711	30		
Dibenzo(a,h)anthracene	1262	13	1325	0	95.2	40-125	1323	4.74	30		
Fluoranthene	1113	13	1325	0	84	55-115	1085	2.56	30		
Fluorene	960.5	13	1325	0	72.5	50-110	1039	7.89	30		
Indeno(1,2,3-cd)pyrene	1282	13	1325	0	96.7	40-120	1329	3.62	30		
Naphthalene	1017	13	1325	0	76.7	40-105	943.6	7.47	30		
Pyrene	1166	13	1325	4.249	87.7	45-125	1284	9.67	30		
<i>Surr: 2-Fluorobiphenyl</i>	2199	0	3312	0	66.4	12-100	2242	1.91	40		
<i>Surr: 4-Terphenyl-d14</i>	2663	0	3312	0	80.4	25-137	2906	8.72	40		
<i>Surr: Nitrobenzene-d5</i>	2050	0	3312	0	61.9	37-107	1991	2.93	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64523** Instrument ID **SVMS8** Method: **SW846 8270D**

The following samples were analyzed in this batch:

14101771-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64543** Instrument ID **VMS9** Method: **SW8260B**

MBLK		Sample ID: MBLK-64543-64543				Units: µg/Kg		Analysis Date: 10/31/2014 04:10 PM		
Client ID:		Run ID: VMS9_141031A			SeqNo: 3012585		Prep Date: 10/31/2014		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								
<i>Surr: 1,2-Dichloroethane-d4</i>	984	0	1000	0	98.4	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	948	0	1000	0	94.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	948.5	0	1000	0	94.8	70-130	0			
<i>Surr: Toluene-d8</i>	987	0	1000	0	98.7	70-130	0			

LCS		Sample ID: LCS-64543-64543				Units: µg/Kg		Analysis Date: 10/31/2014 01:22 PM		
Client ID:		Run ID: VMS9_141031A			SeqNo: 3012584		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1072	30	1000	0	107	75-125	0			
Ethylbenzene	1046	30	1000	0	105	75-125	0			
m,p-Xylene	2064	60	2000	0	103	80-125	0			
o-Xylene	1021	30	1000	0	102	75-125	0			
Toluene	1030	30	1000	0	103	70-125	0			
Xylenes, Total	3086	90	3000	0	103	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	989.5	0	1000	0	99	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1029	0	1000	0	103	70-130	0			
<i>Surr: Dibromofluoromethane</i>	971.5	0	1000	0	97.2	70-130	0			
<i>Surr: Toluene-d8</i>	999.5	0	1000	0	100	70-130	0			

MS		Sample ID: 14101776-03B MS				Units: µg/Kg		Analysis Date: 11/1/2014 01:19 PM		
Client ID:		Run ID: VMS7_141031C			SeqNo: 3012881		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1097	30	1000	0	110	75-125	0			
Ethylbenzene	1062	30	1000	0	106	75-125	0			
m,p-Xylene	2094	60	2000	0	105	80-125	0			
o-Xylene	1032	30	1000	0	103	75-125	0			
Toluene	1040	30	1000	0	104	70-125	0			
Xylenes, Total	3126	90	3000	0	104	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	935.5	0	1000	0	93.6	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1034	0	1000	0	103	70-130	0			
<i>Surr: Dibromofluoromethane</i>	967.5	0	1000	0	96.8	70-130	0			
<i>Surr: Toluene-d8</i>	961	0	1000	0	96.1	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64543** Instrument ID **VMS9** Method: **SW8260B**

MSD		Sample ID: 14101776-03B MSD				Units: µg/Kg		Analysis Date: 11/1/2014 01:44 PM		
Client ID:		Run ID: VMS7_141031C			SeqNo: 3012882		Prep Date: 10/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1137	30	1000	0	114	75-125	1097	3.58	30	
Ethylbenzene	1092	30	1000	0	109	75-125	1062	2.79	30	
m,p-Xylene	2187	60	2000	0	109	80-125	2094	4.32	30	
o-Xylene	1080	30	1000	0	108	75-125	1032	4.59	30	
Toluene	1090	30	1000	0	109	70-125	1040	4.69	30	
Xylenes, Total	3268	90	3000	0	109	75-125	3126	4.41	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	925.5	0	1000	0	92.6	70-130	935.5	1.07	30	
<i>Surr: 4-Bromofluorobenzene</i>	1028	0	1000	0	103	70-130	1034	0.631	30	
<i>Surr: Dibromofluoromethane</i>	976.5	0	1000	0	97.6	70-130	967.5	0.926	30	
<i>Surr: Toluene-d8</i>	962	0	1000	0	96.2	70-130	961	0.104	30	

The following samples were analyzed in this batch: | 14101771-01A |

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

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64512** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 14101732-01C DUP		Units: mmhos/cm @25°C		Analysis Date: 11/3/2014 02:00 PM					
Client ID:	Run ID: WETCHEM_141103C		SeqNo: 3014032		Prep Date: 11/1/2014 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.38	0.050	0	0	0		4.52	3.15	50	

The following samples were analyzed in this batch:

14101771-01C

Client: HRL Compliance Solutions, Inc
Work Order: 14101771
Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64548** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-64548-64548				Units: s.u.		Analysis Date: 10/31/2014 02:30 PM			
Client ID:		Run ID: WETCHEM_141031I		SeqNo: 3011817		Prep Date: 10/31/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.95	0	4	0	98.8	90-110	0				

DUP		Sample ID: 14101769-01B DUP				Units: s.u.		Analysis Date: 10/31/2014 02:30 PM			
Client ID:		Run ID: WETCHEM_141031I		SeqNo: 3011820		Prep Date: 10/31/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.54	0	0	0	0	0-0	8.67	1.51	20		

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **64560** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-64560-64560				Units: mg/Kg			Analysis Date: 10/31/2014 04:00 PM		
Client ID:	Run ID: WETCHEM_141031K			SeqNo: 3011912		Prep Date: 10/30/2014		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-64560-64560				Units: mg/Kg			Analysis Date: 10/31/2014 04:00 PM		
Client ID:	Run ID: WETCHEM_141031K			SeqNo: 3011911		Prep Date: 10/30/2014		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: 14101675-01A MS				Units: mg/Kg			Analysis Date: 10/31/2014 04:00 PM		
Client ID:	Run ID: WETCHEM_141031K			SeqNo: 3011897		Prep Date: 10/30/2014		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 1.992 0 0 75-125 0 S

MS	Sample ID: 14101675-01A MSI				Units: mg/Kg			Analysis Date: 10/31/2014 04:00 PM		
Client ID:	Run ID: WETCHEM_141031K			SeqNo: 3011899		Prep Date: 10/30/2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 502.4 49 699.6 0 71.8 75-125 0 S

MSD	Sample ID: 14101675-01A MSD				Units: mg/Kg			Analysis Date: 10/31/2014 04:00 PM		
Client ID:	Run ID: WETCHEM_141031K			SeqNo: 3011898		Prep Date: 10/30/2014		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 1.992 0 0 75-125 0 0 20 S

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14101771
 Project: WPX GV 41-34 Batch 3 10.28.14

QC BATCH REPORT

Batch ID: **R151570** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R151570				Units: % of sample			Analysis Date: 10/30/2014 09:00 PM		
Client ID:	Run ID: MOIST_141030C			SeqNo: 3011991		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-R151570				Units: % of sample			Analysis Date: 10/30/2014 09:00 PM		
Client ID:	Run ID: MOIST_141030C			SeqNo: 3011990		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: 14101731-01ADUP				Units: % of sample			Analysis Date: 10/30/2014 09:00 PM		
Client ID:	Run ID: MOIST_141030C			SeqNo: 3011969		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 12.25 0.050 0 0 0 0-0 14.05 13.7 20

DUP	Sample ID: 14101763-01ADUP				Units: % of sample			Analysis Date: 10/30/2014 09:00 PM		
Client ID:	Run ID: MOIST_141030C			SeqNo: 3011977		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.52 0.050 0 0 0 0-0 20.92 12.2 20

The following samples were analyzed in this batch: 14101771-01B

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



ALS Environmental

3352 128th Avenue Holland, MI 49424
 PH: (616) 399-8070

Chain-of-Custody

WORKORDER # **14101771**

PROJECT NAME GV 41-34 Batch 3		SAMPLER Mike Lobato		DATE 10/28/14		Form 202a		PAGE 1 of 1	
PROJECT No.		SITE ID GV 41-34		TURNAROUND 3 Day		DISPOSAL By Lab or Return to Client			
COMPANY NAME HRL Compliance Solutions, Inc.		BILL TO COMPANY WPX Energy		COGCC Table 910-1					
SEND REPORT TO Mark Mumby		INVOICE ATTN TO Karolina Blaney							
ADDRESS 2385 F 1/2 Road		ADDRESS 1058 Co. Rd. 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							
E-MAIL mmumby@hrlcomp.com; mlobato@hrlcomp.com		E-MAIL Karolina.blaney@wpxenergy.com							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
1	GV 41-34 Batch 3	Soil	10/28/14	0150	3	8	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: **Complete COGCC Table 910-1.**

QC PACKAGE (check below)

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	<i>Mike Lobato</i>	Mike Lobato	10/28/14	1540
RECEIVED BY	<i>MM</i>	<i>MM</i>	10/28	1540
RELINQUISHED BY	<i>DF</i>	<i>DF</i>	10/24	1600
RECEIVED BY	<i>Diane F. Shaw</i>	Diane F. Shaw	10/30/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **30-Oct-14 09:30**

Work Order: **14101771**

Received by: **DS**

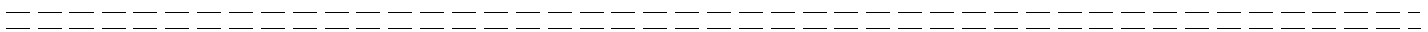
Checklist completed by Diane Shaw 30-Oct-14
eSignature Date

Reviewed by: Ann Preston 30-Oct-14
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):	<input type="text" value="4.2 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="10/30/2014 3:25:03 PM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (818) 399-6870
Nick Martin
ALS Environmental
127 E. 1st Street
Paradise, CO 81835

Origin ID: RLA



Ship Date: 29OCT14
Actual: 58.0 LB
CAT: 2264846NET3550
Dim: 14 X 28 X 15 IN

Delivery Address Bar Code



SHIP TO: (818) 399-6870
sample receiving
ALS Laboratory Group
3352 129TH AVE
HOLLAND, MI 49424

BILL REMOVAL

Ref # 102814-2
Invoice #
PO # Parachute
Dept #

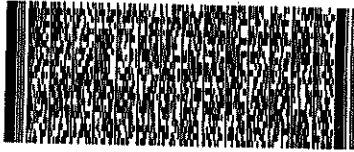
4 of 4

WED - 29 OCT 10:30A
PRIORITY OVERNIGHT

MP# 7716 6054 8684

Metr# 7716 6054 8550

49424
GRR



XX HLMA



02010F68403

ALS Parachute Custody Seal
DATE 10/29/14
Time 10:30
Name

After printing this label:

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

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

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



11-Dec-2014

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

Re: **WPX GV 41-34 Batch 4 12.5.14**

Work Order: **1412383**

Dear Mark,

ALS Environmental received 1 sample on 06-Dec-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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 4 12.5.14
Work Order: 1412383

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>
1412383-01	GV 41-34 Batch 4	Soil		12/5/2014 11:00	12/6/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 41-34 Batch 4 12.5.14
Work Order: 1412383

Case Narrative

Batch 65731 sample 1412383-01 reporting limit for Selenium was elevated due to dilution for high concentrations of non-target analytes. The MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 65748 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch 65761 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 65769 MS/MSD data for BTEX 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: 11-Dec-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 4 12.5.14

Work Order: 1412383

Sample ID: GV 41-34 Batch 4

Lab ID: 1412383-01

Collection Date: 12/5/2014 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 12/9/14	Analyst: IT
DRO (C10-C28)	52		5.1	mg/Kg-dry	1	12/10/2014 12:48 PM
<i>Surr: 4-Terphenyl-d14</i>	70.4		39-133	%REC	1	12/10/2014 12:48 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 12/9/14	Analyst: IT
GRO (C6-C10)	19		3.1	mg/Kg-dry	1	12/9/2014 07:36 PM
<i>Surr: Toluene-d8</i>	118		50-150	%REC	1	12/9/2014 07:36 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 12/8/14	Analyst: LR
Mercury	0.026		0.016	mg/Kg-dry	1	12/10/2014 03:54 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 12/8/14	Analyst: JEC
Arsenic	12		0.39	mg/Kg-dry	1	12/8/2014 10:26 PM
Barium	300		0.39	mg/Kg-dry	1	12/8/2014 10:26 PM
Cadmium	ND		0.32	mg/Kg-dry	1	12/8/2014 10:26 PM
Chromium	13		0.39	mg/Kg-dry	1	12/8/2014 10:26 PM
Copper	17		0.39	mg/Kg-dry	1	12/8/2014 10:26 PM
Lead	14		0.39	mg/Kg-dry	1	12/8/2014 10:26 PM
Nickel	16		0.39	mg/Kg-dry	1	12/8/2014 10:26 PM
Selenium	0.61		0.39	mg/Kg-dry	1	12/9/2014 04:52 PM
Silver	ND		0.39	mg/Kg-dry	1	12/9/2014 04:52 PM
Zinc	64		0.79	mg/Kg-dry	1	12/8/2014 10:26 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 12/10/14	Analyst: JEC
Calcium	470		5.0	mg/L	10	12/10/2014 05:12 PM
Magnesium	110		2.0	mg/L	10	12/10/2014 05:12 PM
Sodium	1,200		2.0	mg/L	10	12/10/2014 05:12 PM
SODIUM ADSORPTION RATIO			USDA H60 METHOD		Prep: USDA Method 20B / 12/10/14	Analyst: JEC
Sodium Adsorption Ratio	13		0.010	none	1	12/10/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 12/9/14	Analyst: RM
Acenaphthene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Acenaphthylene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Anthracene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Benzo(a)anthracene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Benzo(a)pyrene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Benzo(b)fluoranthene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Benzo(g,h,i)perylene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Benzo(k)fluoranthene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Chrysene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM

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

ALS Group USA, Corp

Date: 11-Dec-14

Client: HRL Compliance Solutions, Inc

Project: WPX GV 41-34 Batch 4 12.5.14

Work Order: 1412383

Sample ID: GV 41-34 Batch 4

Lab ID: 1412383-01

Collection Date: 12/5/2014 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Fluoranthene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Fluorene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Indeno(1,2,3-cd)pyrene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Naphthalene	43		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Pyrene	ND		8.2	µg/Kg-dry	1	12/9/2014 08:01 PM
Surr: 2-Fluorobiphenyl	71.4		12-100	%REC	1	12/9/2014 08:01 PM
Surr: 4-Terphenyl-d14	84.2		25-137	%REC	1	12/9/2014 08:01 PM
Surr: Nitrobenzene-d5	78.1		37-107	%REC	1	12/9/2014 08:01 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 12/9/14	Analyst: JDW
Benzene	ND		37	µg/Kg-dry	1	12/9/2014 07:40 PM
Ethylbenzene	84		37	µg/Kg-dry	1	12/9/2014 07:40 PM
m,p-Xylene	560		74	µg/Kg-dry	1	12/9/2014 07:40 PM
o-Xylene	ND		37	µg/Kg-dry	1	12/9/2014 07:40 PM
Toluene	ND		37	µg/Kg-dry	1	12/9/2014 07:40 PM
Xylenes, Total	560		110	µg/Kg-dry	1	12/9/2014 07:40 PM
Surr: 1,2-Dichloroethane-d4	91.6		70-130	%REC	1	12/9/2014 07:40 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	12/9/2014 07:40 PM
Surr: Dibromofluoromethane	88.6		70-130	%REC	1	12/9/2014 07:40 PM
Surr: Toluene-d8	98.8		70-130	%REC	1	12/9/2014 07:40 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD		Prep: USDA Method 20B / 12/10/14	Analyst: JB
Electrical Conductivity @ Saturation	9.8		0.050	mmhos/cm @25	10	12/10/2014 04:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	13		0.62	mg/Kg-dry	1	12/10/2014 09:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 12/8/14	Analyst: DAH
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	12/9/2014 02:30 PM
MOISTURE			A2540 G			Analyst: EVB
Moisture	19		0.050	% of sample	1	12/9/2014 03:00 PM
PH			SW9045D		Prep: EXTRACT / 12/9/14	Analyst: AXL
pH	7.8			s.u.	1	12/9/2014 02:30 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412383
Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65761** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-65761-65761				Units: mg/Kg		Analysis Date: 12/10/2014 09:08 AM			
Client ID:		Run ID: GC8_141210A				SeqNo: 3069288		Prep Date: 12/9/2014		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									
<i>Surr: 4-Terphenyl-d14</i>	1.774	0	2	0	88.7	39-133		0			

LCS		Sample ID: DLCSS1-65761-65761				Units: mg/Kg		Analysis Date: 12/10/2014 09:36 AM			
Client ID:		Run ID: GC8_141210A				SeqNo: 3069289		Prep Date: 12/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	161.9	5.0	200	0	80.9	61-109		0			
<i>Surr: 4-Terphenyl-d14</i>	1.445	0	2	0	72.2	39-133		0			

MS		Sample ID: 1412273-01B MS				Units: mg/Kg		Analysis Date: 12/10/2014 10:03 AM			
Client ID:		Run ID: GC8_141210A				SeqNo: 3069291		Prep Date: 12/9/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	5039	83	331.3	5738	-211	48-110		0		SO	
<i>Surr: 4-Terphenyl-d14</i>	3.79	0	3.313	0	114	39-133		0			

MSD		Sample ID: 1412273-01B MSD				Units: mg/Kg		Analysis Date: 12/10/2014 10:31 AM			
Client ID:		Run ID: GC8_141210A				SeqNo: 3069292		Prep Date: 12/9/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	5427	80	318.7	5738	-97.4	48-110	5039	7.43	30	SO	
<i>Surr: 4-Terphenyl-d14</i>	3.774	0	3.187	0	118	39-133	3.79	0.417	30		

The following samples were analyzed in this batch: | 1412383-01B |

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65768** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-65768-65768				Units: µg/Kg		Analysis Date: 12/9/2014 06:22 PM		
Client ID:		Run ID: GC9_141209A				SeqNo: 3068713		Prep Date: 12/9/2014		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>	6148	0	5000	0	123	50-150	0			

LCS		Sample ID: LCS-65768-65768				Units: µg/Kg		Analysis Date: 12/9/2014 05:57 PM		
Client ID:		Run ID: GC9_141209A				SeqNo: 3068712		Prep Date: 12/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	507300	2,500	500000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	4714	0	5000	0	94.3	50-150	0			

MS		Sample ID: 1412381-01A MS				Units: µg/Kg		Analysis Date: 12/9/2014 08:01 PM		
Client ID:		Run ID: GC9_141209A				SeqNo: 3068717		Prep Date: 12/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	644700	2,500	500000	64330	116	70-130	0			
<i>Surr: Toluene-d8</i>	5331	0	5000	0	107	50-150	0			

MSD		Sample ID: 1412381-01A MSD				Units: µg/Kg		Analysis Date: 12/9/2014 08:26 PM		
Client ID:		Run ID: GC9_141209A				SeqNo: 3068718		Prep Date: 12/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	649300	2,500	500000	64330	117	70-130	644700	0.714	30	
<i>Surr: Toluene-d8</i>	5593	0	5000	0	112	50-150	5331	4.8	30	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65750** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-65750-65750				Units: mg/Kg		Analysis Date: 12/8/2014 09:59 PM		
Client ID:		Run ID: HG1_141208A				SeqNo: 3066044		Prep Date: 12/8/2014		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-65750-65750				Units: mg/Kg		Analysis Date: 12/8/2014 10:02 PM		
Client ID:		Run ID: HG1_141208A				SeqNo: 3066045		Prep Date: 12/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1639 0.020 0.1665 0 98.4 80-120 0

MS		Sample ID: 1412290-01BMS				Units: mg/Kg		Analysis Date: 12/8/2014 10:17 PM		
Client ID:		Run ID: HG1_141208A				SeqNo: 3066501		Prep Date: 12/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1298 0.015 0.1243 0 104 75-125 0

MSD		Sample ID: 1412290-01BMSD				Units: mg/Kg		Analysis Date: 12/8/2014 10:19 PM		
Client ID:		Run ID: HG1_141208A				SeqNo: 3066502		Prep Date: 12/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1229 0.015 0.1208 0 102 75-125 0.1298 5.44 35

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: 65731 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-65731-65731				Units: mg/Kg		Analysis Date: 12/8/2014 08:25 PM		
Client ID:		Run ID: ICP2_141208A			SeqNo: 3066229		Prep Date: 12/8/2014		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	ND	0.50								
Chromium	ND	0.25								
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.13	0.50								J

MBLK		Sample ID: MBLK-65731-65731				Units: mg/Kg		Analysis Date: 12/9/2014 02:54 PM		
Client ID:		Run ID: ICP2_141209A			SeqNo: 3068056		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	ND	0.25								

LCS		Sample ID: LCS-65731-65731				Units: mg/Kg		Analysis Date: 12/8/2014 08:31 PM		
Client ID:		Run ID: ICP2_141208A			SeqNo: 3066230		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.484	0.25	5	0	89.7	80-120	0			
Barium	4.637	0.25	5	0	92.7	80-120	0			
Cadmium	4.437	0.50	5	0	88.7	80-120	0			
Chromium	4.817	0.25	5	0	96.3	80-120	0			
Copper	4.795	0.50	5	0	95.9	80-120	0			
Lead	4.825	0.25	5	0	96.5	80-120	0			
Nickel	4.691	0.25	5	0	93.8	80-120	0			
Selenium	4.43	0.50	5	0	88.6	80-120	0			
Silver	4.22	0.25	5	0	84.4	80-120	0			
Zinc	4.695	0.50	5	0	93.9	80-120	0			

LCS		Sample ID: LCS-65731-65731				Units: mg/Kg		Analysis Date: 12/9/2014 03:00 PM		
Client ID:		Run ID: ICP2_141209A			SeqNo: 3068060		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	4.372	0.25	5	0	87.4	80-120	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: 65731 Instrument ID ICP2 Method: SW846 6010C

MS		Sample ID: 1412279-01BMS				Units: mg/Kg		Analysis Date: 12/8/2014 09:42 PM		
Client ID:		Run ID: ICP2_141208A			SeqNo: 3066247		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.66	0.37	7.331	7.603	110	75-125	0			
Barium	125.1	0.37	7.331	101.6	321	75-125	0			SO
Cadmium	7.141	0.73	7.331	0.001281	97.4	75-125	0			
Chromium	20.78	0.37	7.331	9.978	147	75-125	0			S
Copper	22.19	0.73	7.331	13.89	113	75-125	0			
Lead	28.79	0.37	7.331	14.82	191	75-125	0			S
Nickel	22.92	0.37	7.331	16.3	90.2	75-125	0			
Selenium	8.461	0.73	7.331	1.332	97.2	75-125	0			
Zinc	494.5	0.73	7.331	81.25	5640	75-125	0			SO

MS		Sample ID: 1412279-01BMS				Units: mg/Kg		Analysis Date: 12/9/2014 04:14 PM		
Client ID:		Run ID: ICP2_141209A			SeqNo: 3068322		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	7.333	0.37	7.331	-0.09234	101	75-125	0			

MSD		Sample ID: 1412279-01BMSD				Units: mg/Kg		Analysis Date: 12/8/2014 09:47 PM		
Client ID:		Run ID: ICP2_141208A			SeqNo: 3066248		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.72	0.37	7.353	7.603	110	75-125	15.66	0.344	20	
Barium	128.7	0.37	7.353	101.6	368	75-125	125.1	2.82	20	SO
Cadmium	6.735	0.74	7.353	0.001281	91.6	75-125	7.141	5.85	20	
Chromium	20.54	0.37	7.353	9.978	144	75-125	20.78	1.15	20	S
Copper	21.39	0.74	7.353	13.89	102	75-125	22.19	3.67	20	
Lead	22.48	0.37	7.353	14.82	104	75-125	28.79	24.6	20	R
Nickel	23.7	0.37	7.353	16.3	101	75-125	22.92	3.34	20	
Selenium	8.539	0.74	7.353	1.332	98	75-125	8.461	0.925	20	
Zinc	89.85	0.74	7.353	81.25	117	75-125	494.5	138	20	RO

MSD		Sample ID: 1412279-01BMSD				Units: mg/Kg		Analysis Date: 12/9/2014 04:19 PM		
Client ID:		Run ID: ICP2_141209A			SeqNo: 3068323		Prep Date: 12/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	7.385	0.37	7.353	-0.09234	102	75-125	7.333	0.702	20	

The following samples were analyzed in this batch: 1412383-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412383
Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65781** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1412255-01CDUP				Units: mg/L		Analysis Date: 12/10/2014 05:17 PM		
Client ID:		Run ID: ICP2_141210A			SeqNo: 3070221		Prep Date: 12/10/2014		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	55.64	5.0	0	0	0	0-0	59.15	6.11		
Magnesium	41.13	2.0	0	0	0	0-0	44.65	8.21		
Sodium	384	2.0	0	0	0	0-0	406.3	5.62		

DUP		Sample ID: 1412255-01CDUP				Units: none		Analysis Date: 12/10/2014		
Client ID:		Run ID: SAR_141210A			SeqNo: 3070226		Prep Date: 12/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	9.518	0.010	0	0	0		9.709	1.99	50	

The following samples were analyzed in this batch: | 1412383-01C |

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65760** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-65760-65760				Units: µg/Kg		Analysis Date: 12/9/2014 03:24 PM		
Client ID:		Run ID: SVMS5_141209A				SeqNo: 3068751		Prep Date: 12/9/2014		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>	1466	0	1667	0	88	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1738	0	1667	0	104	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1408	0	1667	0	84.5	37-107	0			

LCS		Sample ID: SLCSS1-65760-65760				Units: µg/Kg		Analysis Date: 12/9/2014 03:47 PM		
Client ID:		Run ID: SVMS5_141209A				SeqNo: 3068752		Prep Date: 12/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	616.7	6.7	666.7	0	92.5	45-110	0			
Acenaphthylene	635	6.7	666.7	0	95.2	45-105	0			
Anthracene	692.3	6.7	666.7	0	104	55-105	0			
Benzo(a)anthracene	696	6.7	666.7	0	104	50-110	0			
Benzo(a)pyrene	685.3	6.7	666.7	0	103	50-110	0			
Benzo(b)fluoranthene	697.7	6.7	666.7	0	105	45-115	0			
Benzo(g,h,i)perylene	701.3	6.7	666.7	0	105	40-125	0			
Benzo(k)fluoranthene	706	6.7	666.7	0	106	45-115	0			
Chrysene	718.7	6.7	666.7	0	108	55-110	0			
Dibenzo(a,h)anthracene	688.7	6.7	666.7	0	103	40-125	0			
Fluoranthene	697	6.7	666.7	0	105	55-115	0			
Fluorene	644.3	6.7	666.7	0	96.6	50-110	0			
Indeno(1,2,3-cd)pyrene	649.3	6.7	666.7	0	97.4	40-120	0			
Naphthalene	606.7	6.7	666.7	0	91	40-105	0			
Pyrene	787.7	6.7	666.7	0	118	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1425	0	1667	0	85.5	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1727	0	1667	0	104	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1350	0	1667	0	81	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: 65760 Instrument ID SVMS5 Method: SW846 8270D

MS				Sample ID: 1412361-03B MS			Units: µg/Kg		Analysis Date: 12/9/2014 04:34 PM		
Client ID:		Run ID: SVMS5_141209A			SeqNo: 3068755		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1181	13	1284	0	92	45-110	0				
Acenaphthylene	1228	13	1284	0	95.6	45-105	0				
Anthracene	1261	13	1284	0	98.2	55-105	0				
Benzo(a)anthracene	1171	13	1284	0	91.2	50-110	0				
Benzo(a)pyrene	1154	13	1284	0	89.9	50-110	0				
Benzo(b)fluoranthene	1197	13	1284	0	93.2	45-115	0				
Benzo(g,h,i)perylene	1192	13	1284	0	92.8	40-125	0				
Benzo(k)fluoranthene	1199	13	1284	0	93.3	45-115	0				
Chrysene	1219	13	1284	0	94.9	55-110	0				
Dibenzo(a,h)anthracene	1142	13	1284	0	88.9	40-125	0				
Fluoranthene	1233	13	1284	0	96	55-115	0				
Fluorene	1249	13	1284	0	97.2	50-110	0				
Indeno(1,2,3-cd)pyrene	1156	13	1284	0	90	40-120	0				
Naphthalene	1160	13	1284	0	90.3	40-105	0				
Pyrene	1361	13	1284	0	106	45-125	0				
<i>Surr: 2-Fluorobiphenyl</i>	2689	0	3210	0	83.8	12-100	0				
<i>Surr: 4-Terphenyl-d14</i>	3050	0	3210	0	95	25-137	0				
<i>Surr: Nitrobenzene-d5</i>	2687	0	3210	0	83.7	37-107	0				

MSD				Sample ID: 1412361-03B MSD			Units: µg/Kg		Analysis Date: 12/9/2014 04:57 PM		
Client ID:		Run ID: SVMS5_141209A			SeqNo: 3068756		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1109	13	1254	0	88.4	45-110	1181	6.29	30		
Acenaphthylene	1185	13	1254	0	94.4	45-105	1228	3.62	30		
Anthracene	1246	13	1254	0	99.3	55-105	1261	1.19	30		
Benzo(a)anthracene	1163	13	1254	0	92.7	50-110	1171	0.723	30		
Benzo(a)pyrene	1138	13	1254	0	90.7	50-110	1154	1.41	30		
Benzo(b)fluoranthene	1171	13	1254	0	93.4	45-115	1197	2.14	30		
Benzo(g,h,i)perylene	1215	13	1254	0	96.8	40-125	1192	1.92	30		
Benzo(k)fluoranthene	1178	13	1254	0	93.9	45-115	1199	1.77	30		
Chrysene	1208	13	1254	0	96.3	55-110	1219	0.838	30		
Dibenzo(a,h)anthracene	1188	13	1254	0	94.7	40-125	1142	3.91	30		
Fluoranthene	1185	13	1254	0	94.4	55-115	1233	4.03	30		
Fluorene	1212	13	1254	0	96.6	50-110	1249	2.97	30		
Indeno(1,2,3-cd)pyrene	1161	13	1254	0	92.6	40-120	1156	0.438	30		
Naphthalene	1136	13	1254	0	90.5	40-105	1160	2.13	30		
Pyrene	1344	13	1254	0	107	45-125	1361	1.27	30		
<i>Surr: 2-Fluorobiphenyl</i>	2491	0	3135	0	79.4	12-100	2689	7.67	40		
<i>Surr: 4-Terphenyl-d14</i>	2786	0	3135	0	88.9	25-137	3050	9.03	40		
<i>Surr: Nitrobenzene-d5</i>	2581	0	3135	0	82.3	37-107	2687	4.04	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412383
Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65760** Instrument ID **SVMS5** Method: **SW846 8270D**

The following samples were analyzed in this batch:

1412383-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65769** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-65769-65769				Units: µg/Kg		Analysis Date: 12/9/2014 08:39 PM		
Client ID:		Run ID: VMS5_141209A			SeqNo: 3068596		Prep Date: 12/9/2014		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	1115	0	1000	0	112	70-130	0			
Surr: 4-Bromofluorobenzene	1026	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	994.5	0	1000	0	99.4	70-130	0			
Surr: Toluene-d8	1066	0	1000	0	107	70-130	0			

LCS		Sample ID: LCS-65769-65769				Units: µg/Kg		Analysis Date: 12/9/2014 06:56 PM		
Client ID:		Run ID: VMS5_141209A			SeqNo: 3068595		Prep Date: 12/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1056	30	1000	0	106	75-125	0			
Ethylbenzene	1041	30	1000	0	104	75-125	0			
m,p-Xylene	1989	60	2000	0	99.4	80-125	0			
o-Xylene	999	30	1000	0	99.9	75-125	0			
Toluene	1024	30	1000	0	102	70-125	0			
Xylenes, Total	2988	90	3000	0	99.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	1052	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	1067	0	1000	0	107	70-130	0			
Surr: Dibromofluoromethane	1060	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1000	0	1000	0	100	70-130	0			

MS		Sample ID: 1412383-01A MS				Units: µg/Kg		Analysis Date: 12/9/2014 08:58 PM		
Client ID: GV 41-34 Batch 4		Run ID: VMS6_141209A			SeqNo: 3068454		Prep Date: 12/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1076	30	1000	0	108	75-125	0			
Ethylbenzene	1126	30	1000	67.5	106	75-125	0			
m,p-Xylene	2544	60	2000	454.5	104	80-125	0			
o-Xylene	1071	30	1000	0	107	75-125	0			
Toluene	1018	30	1000	0	102	70-125	0			
Xylenes, Total	3616	90	3000	450	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	888.5	0	1000	0	88.8	70-130	0			
Surr: 4-Bromofluorobenzene	1019	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	959.5	0	1000	0	96	70-130	0			
Surr: Toluene-d8	1005	0	1000	0	100	70-130	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65769** Instrument ID **VMS5** Method: **SW8260B**

MS				Sample ID: 1412421-01A MS			Units: µg/Kg		Analysis Date: 12/10/2014 10:26 AM		
Client ID:		Run ID: VMS6_141209B			SeqNo: 3069097		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1176	30	1000	0	118	75-125	0				
Ethylbenzene	1093	30	1000	0	109	75-125	0				
m,p-Xylene	2140	60	2000	0	107	80-125	0				
o-Xylene	1092	30	1000	0	109	75-125	0				
Toluene	1070	30	1000	0	107	70-125	0				
Xylenes, Total	3232	90	3000	0	108	75-125	0				
Surr: 1,2-Dichloroethane-d4	887.5	0	1000	0	88.8	70-130	0				
Surr: 4-Bromofluorobenzene	1006	0	1000	0	101	70-130	0				
Surr: Dibromofluoromethane	964.5	0	1000	0	96.4	70-130	0				
Surr: Toluene-d8	925	0	1000	0	92.5	70-130	0				

MSD				Sample ID: 1412383-01A MSD			Units: µg/Kg		Analysis Date: 12/9/2014 09:24 PM		
Client ID: GV 41-34 Batch 4		Run ID: VMS6_141209A			SeqNo: 3068456		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1050	30	1000	0	105	75-125	1076	2.49	30		
Ethylbenzene	1090	30	1000	67.5	102	75-125	1126	3.34	30		
m,p-Xylene	2496	60	2000	454.5	102	80-125	2544	1.92	30		
o-Xylene	1042	30	1000	0	104	75-125	1071	2.7	30		
Toluene	1002	30	1000	0	100	70-125	1018	1.58	30		
Xylenes, Total	3538	90	3000	450	103	75-125	3616	2.15	30		
Surr: 1,2-Dichloroethane-d4	883.5	0	1000	0	88.4	70-130	888.5	0.564	30		
Surr: 4-Bromofluorobenzene	1044	0	1000	0	104	70-130	1019	2.38	30		
Surr: Dibromofluoromethane	957.5	0	1000	0	95.8	70-130	959.5	0.209	30		
Surr: Toluene-d8	1008	0	1000	0	101	70-130	1005	0.248	30		

MSD				Sample ID: 1412421-01A MSD			Units: µg/Kg		Analysis Date: 12/10/2014 10:51 AM		
Client ID:		Run ID: VMS6_141209B			SeqNo: 3069098		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1316	30	1000	0	132	75-125	1176	11.3	30	S	
Ethylbenzene	1274	30	1000	0	127	75-125	1093	15.3	30	S	
m,p-Xylene	2534	60	2000	0	127	80-125	2140	16.8	30	S	
o-Xylene	1298	30	1000	0	130	75-125	1092	17.2	30	S	
Toluene	1213	30	1000	0	121	70-125	1070	12.5	30		
Xylenes, Total	3831	90	3000	0	128	75-125	3232	17	30	S	
Surr: 1,2-Dichloroethane-d4	870.5	0	1000	0	87	70-130	887.5	1.93	30		
Surr: 4-Bromofluorobenzene	1026	0	1000	0	103	70-130	1006	1.92	30		
Surr: Dibromofluoromethane	974.5	0	1000	0	97.4	70-130	964.5	1.03	30		
Surr: Toluene-d8	944	0	1000	0	94.4	70-130	925	2.03	30		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412383
Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65769** Instrument ID **VMS5** Method: **SW8260B**

The following samples were analyzed in this batch:

1412383-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65748** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-65748-65748		Units: mg/Kg		Analysis Date: 12/9/2014 02:30 PM					
Client ID:	Run ID: WETCHEM_141209L		SeqNo: 3067968		Prep Date: 12/8/2014 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-65748-65748		Units: mg/Kg		Analysis Date: 12/9/2014 02:30 PM					
Client ID:	Run ID: WETCHEM_141209L		SeqNo: 3067969		Prep Date: 12/8/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.772 0.50 2 0 88.6 80-120 0

MS	Sample ID: 1412255-01B MS		Units: mg/Kg		Analysis Date: 12/9/2014 02:30 PM					
Client ID:	Run ID: WETCHEM_141209L		SeqNo: 3067971		Prep Date: 12/8/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.508 0.50 1.984 0.368 57.5 75-125 0 S

MS	Sample ID: 1412255-01B MSI		Units: mg/Kg		Analysis Date: 12/9/2014 02:30 PM					
Client ID:	Run ID: WETCHEM_141209L		SeqNo: 3067973		Prep Date: 12/8/2014 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 656.2 50 692.3 0.368 94.7 75-125 0

MSD	Sample ID: 1412255-01B MSD		Units: mg/Kg		Analysis Date: 12/9/2014 02:30 PM					
Client ID:	Run ID: WETCHEM_141209L		SeqNo: 3067972		Prep Date: 12/8/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.62 0.50 2 0.368 62.6 75-125 1.508 7.17 20 S

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
Work Order: 1412383
Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65781** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 1412255-01C DUP		Units: mmhos/cm @25°C		Analysis Date: 12/10/2014 04:15 PM					
Client ID:	Run ID: WETCHEM_141210Q		SeqNo: 3070020		Prep Date: 12/10/2014		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	2.79	0.050	0	0	0		2.96	5.91	50	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
Work Order: 1412383
Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **65787** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-65787-65787				Units: s.u.		Analysis Date: 12/9/2014 02:30 PM			
Client ID:	Run ID: WETCHEM_141209F			SeqNo: 3067581		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.03 0 4 0 101 90-110 0

DUP	Sample ID: 1412390-03B dup				Units: s.u.		Analysis Date: 12/9/2014 02:30 PM			
Client ID:	Run ID: WETCHEM_141209F			SeqNo: 3067587		Prep Date: 12/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.85 0 0 0 0 0-0 7.55 3.9 20

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1412383
 Project: WPX GV 41-34 Batch 4 12.5.14

QC BATCH REPORT

Batch ID: **R154001** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R154001				Units: % of sample			Analysis Date: 12/9/2014 03:00 PM		
Client ID:	Run ID: MOIST_141209B			SeqNo: 3069655		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-R154001				Units: % of sample			Analysis Date: 12/9/2014 03:00 PM		
Client ID:	Run ID: MOIST_141209B			SeqNo: 3069654		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: 1412361-05B DUP				Units: % of sample			Analysis Date: 12/9/2014 03:00 PM		
Client ID:	Run ID: MOIST_141209B			SeqNo: 3069640		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.19 0.050 0 0 0 0-0 4.18 0.239 20

DUP	Sample ID: 1412381-01A DUP				Units: % of sample			Analysis Date: 12/9/2014 03:00 PM		
Client ID:	Run ID: MOIST_141209B			SeqNo: 3069651		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.46 0.050 0 0 0 0-0 13.43 0.223 20

The following samples were analyzed in this batch:

1412383-01B



ALS Environmental

3352 128th Avenue Holland, MI 49424
PH: (616) 399-6070

Chain-of-Custody

Form 2026

WORKORDER #	1412383
PAGE	1 of 1

PROJECT NAME	GV 41-34 Batch 4	SAMPLER	Matt Fought	DATE	12/5/14	TURNAROUND	3 DAY TAT	DISPOSAL	By Lab or Return to Client
PROJECT No.		SITE ID	GV 41-34						
		EDD FORMAT							
		PURCHASE ORDER							
COMPANY NAME	HRL Compliance Solutions, Inc.	BILL TO COMPANY	WPX Energy						
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney						
ADDRESS	2385 F 1/2 Road	ADDRESS	1058 Co. Rd. 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							
E-MAIL	mmumby@hrlcomp.com; mfought@hrlcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com						
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
1	GV 41-34 Batch 4	S	12/5/14	11:00	3	8	P		

COGCC TABLE 910.1

*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: *complete organics and inorganics FOR COGCC TABLE 910.1 ANALYSIS*

QC PACKAGE (check below)	
LEVEL II (Standard QC)	<input checked="" type="checkbox"/>
LEVEL III (Std QC + forms)	<input type="checkbox"/>
LEVEL IV (Std QC + forms + raw data)	<input type="checkbox"/>

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Matt Fought</i>	Matt Fought	12/5/14	11:30
RECEIVED BY	<i>MM</i>	MM	12-5-14	12:15
RELINQUISHED BY	<i>Keith Wierenga</i>	Keith Wierenga	12/6/14	1000
RECEIVED BY				

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **06-Dec-14 10:00**

Work Order: **1412383**

Received by: **KRW**

Checklist completed by Keith Warena 08-Dec-14
eSignature Date

Reviewed by: Ann Preston 08-Dec-14
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>2.8 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/8/2014 9:44:33 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:



03-Feb-2015

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

Re: **GV 41-34 Batch 5 1.26.15**

Work Order: **15011078**

Dear Karolina,

ALS Environmental received 1 sample on 28-Jan-2015 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 23.

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: WPX Energy Rocky Mountain, LLC
Project: GV 41-34 Batch 5 1.26.15
Work Order: 15011078

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>
15011078-01	GV 41-34 batch 5	Soil		1/26/2015 13:00	1/28/2015	<input type="checkbox"/>

Client: WPX Energy Rocky Mountain, LLC
Project: GV 41-34 Batch 5 1.26.15
Work Order: 15011078

Case Narrative

Batch 67254 MS/MSD data for PAHs 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	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 03-Feb-15

Client: WPX Energy Rocky Mountain, LLC

Project: GV 41-34 Batch 5 1.26.15

Work Order: 15011078

Sample ID: GV 41-34 batch 5

Lab ID: 15011078-01

Collection Date: 1/26/2015 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 1/29/15	Analyst: IT
DRO (C10-C28)	49		4.9	mg/Kg-dry	1	1/29/2015 08:14 PM
<i>Surr: 4-Terphenyl-d14</i>	66.2		39-133	%REC	1	1/29/2015 08:14 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 1/29/15	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	1/29/2015 07:37 PM
<i>Surr: Toluene-d8</i>	118		50-150	%REC	1	1/29/2015 07:37 PM
MERCURY BY CVA			SW7471		Prep: SW7471 / 1/28/15	Analyst: LR
Mercury	0.024		0.018	mg/Kg-dry	1	1/28/2015 07:59 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 1/30/15	Analyst: JEC
Arsenic	13		0.42	mg/Kg-dry	1	1/30/2015 11:25 PM
Barium	700		0.42	mg/Kg-dry	1	2/2/2015 02:09 PM
Cadmium	ND		0.83	mg/Kg-dry	1	1/30/2015 11:25 PM
Chromium	11		0.42	mg/Kg-dry	1	1/30/2015 11:25 PM
Copper	16		0.83	mg/Kg-dry	1	1/30/2015 11:25 PM
Lead	12		0.42	mg/Kg-dry	1	1/30/2015 11:25 PM
Nickel	13		0.42	mg/Kg-dry	1	1/30/2015 11:25 PM
Selenium	ND		0.83	mg/Kg-dry	1	2/2/2015 02:09 PM
Silver	ND		0.42	mg/Kg-dry	1	1/30/2015 11:25 PM
Zinc	57		0.83	mg/Kg-dry	1	1/30/2015 11:25 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 1/30/15	Analyst: JEC
Calcium	430		5.0	mg/Kg	10	1/30/2015 10:03 PM
Magnesium	85		2.0	mg/Kg	10	1/30/2015 10:03 PM
Sodium	2,200		2.0	mg/Kg	10	1/30/2015 10:03 PM
SODIUM ADSORPTION RATIO			USDA H60 METHOD		Prep: USDA Method 20B / 1/30/15	Analyst: JEC
Sodium Adsorption Ratio	26		0.010	none	1	1/30/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 1/29/15	Analyst: RM
Acenaphthene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Anthracene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Benzo(a)anthracene	13		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Chrysene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM

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

ALS Group USA, Corp

Date: 03-Feb-15

Client: WPX Energy Rocky Mountain, LLC

Project: GV 41-34 Batch 5 1.26.15

Work Order: 15011078

Sample ID: GV 41-34 batch 5

Lab ID: 15011078-01

Collection Date: 1/26/2015 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	19		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Fluorene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Naphthalene	ND		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Pyrene	19		7.9	µg/Kg-dry	1	1/30/2015 02:12 AM
Surr: 2,4,6-Tribromophenol	72.0		34-140	%REC	1	1/30/2015 02:12 AM
Surr: 2-Fluorobiphenyl	52.5		12-100	%REC	1	1/30/2015 02:12 AM
Surr: 2-Fluorophenol	53.8		33-117	%REC	1	1/30/2015 02:12 AM
Surr: 4-Terphenyl-d14	94.0		25-137	%REC	1	1/30/2015 02:12 AM
Surr: Nitrobenzene-d5	47.8		37-107	%REC	1	1/30/2015 02:12 AM
Surr: Phenol-d6	56.5		40-106	%REC	1	1/30/2015 02:12 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 1/29/15	Analyst: BG
Benzene	ND		37	µg/Kg-dry	1	1/29/2015 08:14 PM
Ethylbenzene	ND		37	µg/Kg-dry	1	1/29/2015 08:14 PM
m,p-Xylene	ND		73	µg/Kg-dry	1	1/29/2015 08:14 PM
o-Xylene	ND		37	µg/Kg-dry	1	1/29/2015 08:14 PM
Toluene	ND		37	µg/Kg-dry	1	1/29/2015 08:14 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	1/29/2015 08:14 PM
Surr: 1,2-Dichloroethane-d4	99.6		70-130	%REC	1	1/29/2015 08:14 PM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	1/29/2015 08:14 PM
Surr: Dibromofluoromethane	99.0		70-130	%REC	1	1/29/2015 08:14 PM
Surr: Toluene-d8	103		70-130	%REC	1	1/29/2015 08:14 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD		Prep: USDA Method 20B / 1/30/15	Analyst: JB
Electrical Conductivity @ Saturation	16		0.050	mmhos/cm @25	10	1/30/2015 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.61	mg/Kg-dry	1	2/2/2015 11:50 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 1/29/15	Analyst: DAH
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	1/30/2015 12:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	18		0.050	% of sample	1	1/30/2015 10:45 AM
PH			SW9045D		Prep: EXTRACT / 1/30/15	Analyst: JB
pH	8.0			s.u.	1	1/30/2015 02:00 PM

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67255** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-67255-67255				Units: mg/Kg		Analysis Date: 1/29/2015 05:15 PM		
Client ID:		Run ID: GC8_150129A		SeqNo: 3128565		Prep Date: 1/29/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.495	0	2	0	74.7	39-133	0			

LCS		Sample ID: DLCSS1-67255-67255				Units: mg/Kg		Analysis Date: 1/29/2015 05:45 PM		
Client ID:		Run ID: GC8_150129A		SeqNo: 3128566		Prep Date: 1/29/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	167.1	5.0	200	0	83.6	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.349	0	2	0	67.5	39-133	0			

MS		Sample ID: 15011079-01A MS				Units: mg/Kg		Analysis Date: 1/29/2015 06:15 PM		
Client ID:		Run ID: GC8_150129A		SeqNo: 3128568		Prep Date: 1/29/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	421.9	8.0	319.9	144.5	86.7	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.497	0	3.199	0	78.1	39-133	0			

MSD		Sample ID: 15011079-01A MSD				Units: mg/Kg		Analysis Date: 1/29/2015 06:45 PM		
Client ID:		Run ID: GC8_150129A		SeqNo: 3128570		Prep Date: 1/29/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	415.5	7.9	314.7	144.5	86.1	48-110	421.9	1.54	30	
<i>Surr: 4-Terphenyl-d14</i>	2.569	0	3.147	0	81.6	39-133	2.497	2.82	30	

The following samples were analyzed in this batch: | 15011078-01A |

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67258** Instrument ID **GC10** Method: **SW8015**

MS		Sample ID: 15011079-01A MS				Units: µg/Kg		Analysis Date: 1/29/2015 08:27 PM		
Client ID:		Run ID: GC10_150129A			SeqNo: 3128659		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	503500	2,500	500000	23440	96	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5313</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>106</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 15011079-01A MSD				Units: µg/Kg		Analysis Date: 1/29/2015 08:50 PM		
Client ID:		Run ID: GC10_150129A			SeqNo: 3128660		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	495300	2,500	500000	23440	94.4	70-130	503500	1.64	30	
<i>Surr: Toluene-d8</i>	<i>5826</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>117</i>	<i>50-150</i>	<i>5313</i>	<i>9.22</i>	<i>30</i>	

The following samples were analyzed in this batch: | 15011078-01A |

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67201** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-67201-67201				Units: mg/Kg			Analysis Date: 1/28/2015 04:39 PM		
Client ID:	Run ID: HG1_150128A				SeqNo: 3126280		Prep Date: 1/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS	Sample ID: LCS-67201-67201				Units: mg/Kg			Analysis Date: 1/28/2015 04:41 PM		
Client ID:	Run ID: HG1_150128A				SeqNo: 3126281		Prep Date: 1/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1693 0.020 0.1665 0 102 80-120 0

MS	Sample ID: 1501918-25AMS				Units: mg/Kg			Analysis Date: 1/28/2015 04:46 PM		
Client ID:	Run ID: HG1_150128A				SeqNo: 3126283		Prep Date: 1/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1178 0.013 0.1065 0.01261 98.7 75-125 0

MSD	Sample ID: 1501918-25AMSD				Units: mg/Kg			Analysis Date: 1/28/2015 04:48 PM		
Client ID:	Run ID: HG1_150128A				SeqNo: 3126284		Prep Date: 1/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1285 0.013 0.1114 0.01261 104 75-125 0.1178 8.72 35

The following samples were analyzed in this batch: 15011078-01A

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67273** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 15011079-01ADUP				Units: mg/L		Analysis Date: 1/30/2015 10:37 PM		
Client ID:		Run ID: ICP2_150130A			SeqNo: 3129919		Prep Date: 1/30/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	287	5.0	0	0	0	0-0	0			
Magnesium	48.8	2.0	0	0	0	0-0	0			
Sodium	471	2.0	0	0	0	0-0	0			

DUP		Sample ID: 15011079-01ADUP				Units: none		Analysis Date: 1/30/2015		
Client ID:		Run ID: SAR_150130A			SeqNo: 3130513		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	6.766	0.010	0	0	0		6.312	6.94	50	

The following samples were analyzed in this batch: | 15011078-01A |

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 15011078
 Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67313** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-67313-67313				Units: mg/L		Analysis Date: 2/2/2015 01:41 PM		
Client ID:		Run ID: ICP2_150202A			SeqNo: 3131172		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.1537	0.25								J
Lead	ND	0.25								
Selenium	ND	0.50								

LCS		Sample ID: LCS-67313-67313				Units: mg/L		Analysis Date: 2/2/2015 01:46 PM		
Client ID:		Run ID: ICP2_150202A			SeqNo: 3131173		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	4.832	0.25	5	0	96.6	80-120	0			
Lead	5.047	0.25	5	0	101	80-120	0			
Selenium	4.712	0.50	5	0	94.2	80-120	0			

MS		Sample ID: 1501995-01AMS				Units: mg/Kg		Analysis Date: 2/2/2015 02:58 PM		
Client ID:		Run ID: ICP2_150202A			SeqNo: 3131201		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.835	0.33	6.545	-0.1107	106	75-125	0			
Barium	6.495	0.33	6.545	0.2939	94.7	75-125	0			
Cadmium	5.87	0.65	6.545	-0.1145	91.4	75-125	0			
Chromium	6.968	0.33	6.545	-0.003369	107	75-125	0			
Copper	6.558	0.65	6.545	-0.02144	101	75-125	0			
Lead	6.569	0.33	6.545	-0.03012	101	75-125	0			
Nickel	6.429	0.33	6.545	0.07622	97.1	75-125	0			
Selenium	9.611	0.65	6.545	1.708	121	75-125	0			
Silver	7.106	0.33	6.545	-0.004499	109	75-125	0			
Zinc	7.094	0.65	6.545	0.1809	106	75-125	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67313** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 1501995-01AMSD				Units: mg/Kg		Analysis Date: 2/2/2015 03:03 PM		
Client ID:		Run ID: ICP2_150202A			SeqNo: 3131202		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.879	0.33	6.596	-0.1107	106	75-125	6.835	0.641	20	
Barium	6.53	0.33	6.596	0.2939	94.5	75-125	6.495	0.535	20	
Cadmium	5.834	0.66	6.596	-0.1145	90.2	75-125	5.87	0.617	20	
Chromium	7.013	0.33	6.596	-0.003369	106	75-125	6.968	0.655	20	
Copper	6.534	0.66	6.596	-0.02144	99.4	75-125	6.558	0.366	20	
Lead	6.539	0.33	6.596	-0.03012	99.6	75-125	6.569	0.456	20	
Nickel	6.399	0.33	6.596	0.07622	95.9	75-125	6.429	0.465	20	
Selenium	9.644	0.66	6.596	1.708	120	75-125	9.611	0.334	20	
Silver	7.119	0.33	6.596	-0.004499	108	75-125	7.106	0.179	20	
Zinc	6.725	0.66	6.596	0.1809	99.2	75-125	7.094	5.33	20	

The following samples were analyzed in this batch: | 15011078-01A |

Client: WPX Energy Rocky Mountain, LLC

QC BATCH REPORT

Work Order: 15011078

Project: GV 41-34 Batch 5 1.26.15

Batch ID: 67254

Instrument ID SVMS8

Method: SW846 8270D

MBLK		Sample ID: SBLKS1-67254-67254				Units: µg/Kg		Analysis Date: 1/29/2015 02:02 PM		
Client ID:		Run ID: SVMS8_150129A			SeqNo: 3128038		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1026	0	1667	0	61.5	12-100	0			
Surr: 4-Terphenyl-d14	1953	0	1667	0	117	25-137	0			
Surr: Nitrobenzene-d5	1048	0	1667	0	62.9	37-107	0			

LCS		Sample ID: SLCSS1-67254-67254				Units: µg/Kg		Analysis Date: 1/29/2015 02:22 PM		
Client ID:		Run ID: SVMS8_150129A			SeqNo: 3128039		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	439.7	6.7	666.7	0	65.9	45-110	0			
Anthracene	483	6.7	666.7	0	72.4	55-105	0			
Benzo(a)anthracene	526.7	6.7	666.7	0	79	50-110	0			
Benzo(a)pyrene	633	6.7	666.7	0	94.9	50-110	0			
Benzo(b)fluoranthene	664.7	6.7	666.7	0	99.7	45-115	0			
Benzo(g,h,i)perylene	513.3	6.7	666.7	0	77	40-125	0			
Benzo(k)fluoranthene	660.7	6.7	666.7	0	99.1	45-115	0			
Chrysene	535.7	6.7	666.7	0	80.3	55-110	0			
Dibenzo(a,h)anthracene	509	6.7	666.7	0	76.3	40-125	0			
Fluoranthene	484	6.7	666.7	0	72.6	55-115	0			
Fluorene	466.3	6.7	666.7	0	69.9	50-110	0			
Indeno(1,2,3-cd)pyrene	538.3	6.7	666.7	0	80.7	40-120	0			
Naphthalene	463.7	6.7	666.7	0	69.5	40-105	0			
Pyrene	574.3	6.7	666.7	0	86.1	45-125	0			
Surr: 2-Fluorobiphenyl	1090	0	1667	0	65.4	12-100	0			
Surr: 4-Terphenyl-d14	1763	0	1667	0	106	25-137	0			
Surr: Nitrobenzene-d5	1151	0	1667	0	69.1	37-107	0			

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

Client: WPX Energy Rocky Mountain, LLC

QC BATCH REPORT

Work Order: 15011078

Project: GV 41-34 Batch 5 1.26.15

Batch ID: 67254

Instrument ID SVMS8

Method: SW846 8270D

MS				Sample ID: 15011115-01A MS			Units: µg/Kg		Analysis Date: 1/29/2015 08:46 PM		
Client ID:		Run ID: SVMS8_150129A			SeqNo: 3128040		Prep Date: 1/29/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	785	13	1268	0	61.9	45-110	0				
Anthracene	956.8	13	1268	6.313	74.9	55-105	0				
Benzo(a)anthracene	1264	13	1268	14.29	98.5	50-110	0				
Benzo(a)pyrene	1430	13	1268	37.54	110	50-110	0				
Benzo(b)fluoranthene	1480	13	1268	35.88	114	45-115	0				
Benzo(g,h,i)perylene	1356	13	1268	34.22	104	40-125	0				
Benzo(k)fluoranthene	1269	13	1268	31.56	97.6	45-115	0				
Chrysene	1269	13	1268	11.3	99.2	55-110	0				
Dibenzo(a,h)anthracene	1087	13	1268	0	85.7	40-125	0				
Fluoranthene	1467	13	1268	14.95	115	55-115	0				
Fluorene	823	13	1268	0	64.9	50-110	0				
Indeno(1,2,3-cd)pyrene	1370	13	1268	43.19	105	40-120	0				
Naphthalene	664.5	13	1268	0	52.4	40-105	0				
Pyrene	1772	13	1268	18.61	138	45-125	0			S	
Surr: 2-Fluorobiphenyl	1740	0	3170	0	54.9	12-100	0				
Surr: 4-Terphenyl-d14	2895	0	3170	0	91.3	25-137	0				
Surr: Nitrobenzene-d5	1614	0	3170	0	50.9	37-107	0				

MSD				Sample ID: 15011115-01A MSD			Units: µg/Kg		Analysis Date: 1/29/2015 09:07 PM		
Client ID:		Run ID: SVMS8_150129A			SeqNo: 3128041		Prep Date: 1/29/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	723.3	13	1284	0	56.3	45-110	785	8.18	30		
Anthracene	868.3	13	1284	6.313	67.2	55-105	956.8	9.7	30		
Benzo(a)anthracene	960.7	13	1284	14.29	73.7	50-110	1264	27.2	30		
Benzo(a)pyrene	1135	13	1284	37.54	85.5	50-110	1430	23	30		
Benzo(b)fluoranthene	1157	13	1284	35.88	87.4	45-115	1480	24.5	30		
Benzo(g,h,i)perylene	1108	13	1284	34.22	83.6	40-125	1356	20.2	30		
Benzo(k)fluoranthene	1038	13	1284	31.56	78.4	45-115	1269	20	30		
Chrysene	969.7	13	1284	11.3	74.7	55-110	1269	26.8	30		
Dibenzo(a,h)anthracene	1047	13	1284	0	81.6	40-125	1087	3.75	30		
Fluoranthene	886.3	13	1284	14.95	67.9	55-115	1467	49.4	30	R	
Fluorene	793.9	13	1284	0	61.8	50-110	823	3.61	30		
Indeno(1,2,3-cd)pyrene	1125	13	1284	43.19	84.3	40-120	1370	19.6	30		
Naphthalene	677.7	13	1284	0	52.8	40-105	664.5	1.97	30		
Pyrene	1097	13	1284	18.61	84	45-125	1772	47	30	R	
Surr: 2-Fluorobiphenyl	1796	0	3209	0	56	12-100	1740	3.19	40		
Surr: 4-Terphenyl-d14	2855	0	3209	0	89	25-137	2895	1.39	40		
Surr: Nitrobenzene-d5	1747	0	3209	0	54.4	37-107	1614	7.93	40		

The following samples were analyzed in this batch: | 15011078-01A |

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

Client: WPX Energy Rocky Mountain, LLC

QC BATCH REPORT

Work Order: 15011078

Project: GV 41-34 Batch 5 1.26.15

Batch ID: 67282

Instrument ID VMS5

Method: SW8260B

MBLK		Sample ID: MBLK-67282-67282				Units: µg/Kg		Analysis Date: 1/30/2015 01:50 PM		
Client ID:		Run ID: VMS5_150130A			SeqNo: 3129793		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	993	0	1000	0	99.3	70-130	0			
Surr: 4-Bromofluorobenzene	938	0	1000	0	93.8	70-130	0			
Surr: Dibromofluoromethane	1026	0	1000	0	103	70-130	0			
Surr: Toluene-d8	983.5	0	1000	0	98.4	70-130	0			

LCS		Sample ID: LCS-67282-67282				Units: µg/Kg		Analysis Date: 1/30/2015 12:33 PM		
Client ID:		Run ID: VMS5_150130A			SeqNo: 3129788		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1061	30	1000	0	106	75-125	0			
Ethylbenzene	1070	30	1000	0	107	75-125	0			
m,p-Xylene	2144	60	2000	0	107	80-125	0			
o-Xylene	1079	30	1000	0	108	75-125	0			
Toluene	1034	30	1000	0	103	70-125	0			
Xylenes, Total	3224	90	3000	0	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	1016	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	991.5	0	1000	0	99.2	70-130	0			
Surr: Dibromofluoromethane	1078	0	1000	0	108	70-130	0			
Surr: Toluene-d8	970	0	1000	0	97	70-130	0			

MS		Sample ID: 15011145-04A MS				Units: µg/Kg		Analysis Date: 1/31/2015 01:24 AM		
Client ID:		Run ID: VMS7_150130A			SeqNo: 3130379		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	996.5	30	1000	0	99.6	75-125	0			
Ethylbenzene	984	30	1000	0	98.4	75-125	0			
m,p-Xylene	1984	60	2000	0	99.2	80-125	0			
o-Xylene	995.5	30	1000	0	99.6	75-125	0			
Toluene	995	30	1000	0	99.5	70-125	0			
Xylenes, Total	2980	90	3000	0	99.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	981	0	1000	0	98.1	70-130	0			
Surr: 4-Bromofluorobenzene	999	0	1000	0	99.9	70-130	0			
Surr: Dibromofluoromethane	972.5	0	1000	0	97.2	70-130	0			
Surr: Toluene-d8	948.5	0	1000	0	94.8	70-130	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67282** Instrument ID **VMS5** Method: **SW8260B**

MSD		Sample ID: 15011145-04A MSD				Units: µg/Kg		Analysis Date: 1/31/2015 01:50 AM		
Client ID:		Run ID: VMS7_150130A			SeqNo: 3130380		Prep Date: 1/29/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	902.5	30	1000	0	90.2	75-125	996.5	9.9	30	
Ethylbenzene	900	30	1000	0	90	75-125	984	8.92	30	
m,p-Xylene	1827	60	2000	0	91.4	80-125	1984	8.26	30	
o-Xylene	907.5	30	1000	0	90.8	75-125	995.5	9.25	30	
Toluene	911.5	30	1000	0	91.2	70-125	995	8.76	30	
Xylenes, Total	2734	90	3000	0	91.2	75-125	2980	8.59	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	963.5	0	1000	0	96.4	70-130	981	1.8	30	
<i>Surr: 4-Bromofluorobenzene</i>	976	0	1000	0	97.6	70-130	999	2.33	30	
<i>Surr: Dibromofluoromethane</i>	952.5	0	1000	0	95.2	70-130	972.5	2.08	30	
<i>Surr: Toluene-d8</i>	944.5	0	1000	0	94.4	70-130	948.5	0.423	30	

The following samples were analyzed in this batch: | 15011078-01A |

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67273** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 15011079-01A DUP					Units: mmhos/cm @25°C	Analysis Date: 1/30/2015 03:00 PM			
Client ID:	Run ID: WETCHEM_150130G			SeqNo: 3129115	Prep Date: 1/30/2015	DF: 10				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.95	0.050	0	0	0		4.97	0.403	50	

The following samples were analyzed in this batch:

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67314** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-67314-67314				Units: s.u.		Analysis Date: 1/30/2015 02:00 PM		
Client ID:		Run ID: WETCHEM_150130H			SeqNo: 3129118		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.97 0 4 0 99.2 90-110 0

DUP		Sample ID: 15011027-01A DUP				Units: s.u.		Analysis Date: 1/30/2015 02:00 PM		
Client ID:		Run ID: WETCHEM_150130H			SeqNo: 3129122		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.76 0 0 0 0 0-0 8.74 0.229 20

DUP		Sample ID: 15011027-06A DUP				Units: s.u.		Analysis Date: 1/30/2015 02:00 PM		
Client ID:		Run ID: WETCHEM_150130H			SeqNo: 3129128		Prep Date: 1/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.77 0 0 0 0 0-0 8.7 0.801 20

The following samples were analyzed in this batch:

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 15011078
 Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **67315** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-67315-67315		Units: mg/Kg		Analysis Date: 1/30/2015 12:00 PM					
Client ID:	Run ID: WETCHEM_150130B		SeqNo: 3128523		Prep Date: 1/29/2015 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-67315-67315		Units: mg/Kg		Analysis Date: 1/30/2015 12:00 PM					
Client ID:	Run ID: WETCHEM_150130B		SeqNo: 3128522		Prep Date: 1/29/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.808 0.50 2 0 90.4 80-120 0

MS	Sample ID: 15011027-01A MS		Units: mg/Kg		Analysis Date: 1/30/2015 12:00 PM					
Client ID:	Run ID: WETCHEM_150130B		SeqNo: 3128509		Prep Date: 1/29/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.728 0.49 1.969 0.1514 80.1 75-125 0

MS	Sample ID: 15011027-01A MSI		Units: mg/Kg		Analysis Date: 1/30/2015 12:00 PM					
Client ID:	Run ID: WETCHEM_150130B		SeqNo: 3128511		Prep Date: 1/29/2015 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 729.6 50 862.4 0.1514 84.6 75-125 0

MSD	Sample ID: 15011027-01A MSD		Units: mg/Kg		Analysis Date: 1/30/2015 12:00 PM					
Client ID:	Run ID: WETCHEM_150130B		SeqNo: 3128510		Prep Date: 1/29/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.889 0.49 1.976 0.1514 87.9 75-125 1.728 8.9 20

The following samples were analyzed in this batch:

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 15011078
Project: GV 41-34 Batch 5 1.26.15

QC BATCH REPORT

Batch ID: **R156865** Instrument ID **MOIST** Method: **E160.3M**

MBLK	Sample ID: WBLKS-R156865				Units: % of sample			Analysis Date: 1/30/2015 10:45 AM		
Client ID:	Run ID: MOIST_150130A			SeqNo: 3131015		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-R156865				Units: % of sample			Analysis Date: 1/30/2015 10:45 AM		
Client ID:	Run ID: MOIST_150130A			SeqNo: 3131014		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: 1501821-08A DUP				Units: % of sample			Analysis Date: 1/30/2015 10:45 AM		
Client ID:	Run ID: MOIST_150130A			SeqNo: 3130987		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 20.93 0.050 0 0 0 20.67 1.25 20

DUP	Sample ID: 1501821-56A DUP				Units: % of sample			Analysis Date: 1/30/2015 10:45 AM		
Client ID:	Run ID: MOIST_150130A			SeqNo: 3131008		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.88 0.050 0 0 0 17.73 0.842 20

The following samples were analyzed in this batch: 15011078-01A

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

Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **28-Jan-15 10:00**

Work Order: **15011078**

Received by: **SAW**

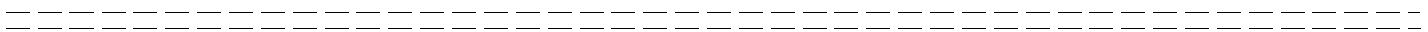
Checklist completed by Samantha Wilson 28-Jan-15
eSignature Date

Reviewed by: Ann Preston 28-Jan-15
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>4.6 C</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>1/28/2015 12:16:58 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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u></u>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (818) 298-1033
Nick Martinez
ALS Environmental
127 E. 1st Street
PARACHUTE, CO 81635

Origin ID: FLA



210105011402w

Ship Date: 26 JAN 15
Net Wgt: 64.0 LB
Cart: 2284846MET3010
Dim: 14 X 20 X 15 IN

Delivery Address Bar Code



SHIP TO: (818) 399-4878
sample receiving
ALS Laboratory Group
3352 128TH AVE
HOLLAND, MI 49424

BILL SENDER

Ref # 012915-1
Invoice #
PO # Parachute
Dept #

4 of 4

TUE - 27 JAN 10:30A
PRIORITY OVERNIGHT

MP# 7727 1754 0114

ESR1

Master# 7727 1754 0272

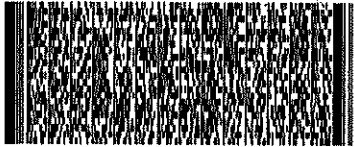
ESR1

49424

M-118

GRR

XX HLMA



ESR1 MP# 1542C-00

After printing this label:

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

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

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

Project

DATE 1-26-15
Time 1:00pm
Parachute Custody Seal



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ms. Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

Report Summary

Monday February 23, 2015

Report Number: L748900

Samples Received: 02/13/15

Client Project: GV 41-34 BATCH 6

Description: GV 41-34 Batch 6

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 23, 2015

Ms. Karolina Blaney
 WPX Energy
 1058 County Road 215
 Parachute, CO 81635

Date Received : February 13, 2015
 Description : GV 41-34 Batch 6
 Sample ID : GV 41-34 BATCH 6
 Collected By :
 Collection Date : 02/12/15 12:00

ESC Sample # : L748900-01
 Site ID : GV 41-34 BATCH 6
 Project # : GV 41-34 BATCH 6

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	02/16/15	1
Chromium,Trivalent	15.	2.0	mg/kg	Calc.	02/19/15	1
ORP	220		mV	2580 B-2011	02/20/15	1
pH	7.9	0.10	su	9045D	02/16/15	1
Sodium Adsorption Ratio	16.			Calc.	02/22/15	1
Specific Conductance	2600		umhos/cm	9050AMod	02/17/15	1
Mercury	BDL	0.020	mg/kg	7471A	02/18/15	1
Arsenic	12.	2.0	mg/kg	6010B	02/18/15	1
Barium	340	0.50	mg/kg	6010B	02/18/15	1
Cadmium	BDL	0.50	mg/kg	6010B	02/18/15	1
Chromium	15.	1.0	mg/kg	6010B	02/18/15	1
Copper	14.	2.0	mg/kg	6010B	02/18/15	1
Lead	12.	0.50	mg/kg	6010B	02/18/15	1
Nickel	15.	2.0	mg/kg	6010B	02/18/15	1
Selenium	BDL	2.0	mg/kg	6010B	02/18/15	1
Silver	BDL	1.0	mg/kg	6010B	02/18/15	1
Zinc	52.	5.0	mg/kg	6010B	02/18/15	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/23/15 08:31 Printed: 02/23/15 08:32
 L748900-01 (PH) - 7.9@21.7c



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Karolina Blaney
 WPX Energy
 1058 County Road 215
 Parachute, CO 81635

February 23, 2015

Date Received : February 13, 2015
 Description : GV 41-34 Batch 6
 Sample ID : GV 41-34 BATCH 6
 Collected By :
 Collection Date : 02/12/15 12:00

ESC Sample # : L748900-02

Site ID : GV 41-34 BATCH 6

Project # : GV 41-34 BATCH 6

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021	02/18/15	5
Toluene	BDL	0.025	mg/kg	8021	02/18/15	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	02/18/15	5
Total Xylene	BDL	0.0075	mg/kg	8021	02/18/15	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	02/18/15	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8015	02/18/15	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021	02/18/15	1
TPH (GC/FID) High Fraction	54.	4.0	mg/kg	3546/DRO	02/18/15	1
Surrogate recovery(%)						
o-Terphenyl	70.4		% Rec.	3546/DRO	02/18/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	02/19/15	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	02/19/15	1
Surrogate Recovery						
Nitrobenzene-d5	111.		% Rec.	8270C-SIM	02/19/15	1
2-Fluorobiphenyl	79.9		% Rec.	8270C-SIM	02/19/15	1
p-Terphenyl-d14	75.3		% Rec.	8270C-SIM	02/19/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/23/15 08:31 Printed: 02/23/15 08:32



YOUR LAB OF CHOICE

WPX Energy
Ms. Karolina Blaney
1058 County Road 215

Parachute, CO 81635

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

February 23, 2015

L748900

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium,Hexavalent	< 2	mg/kg			WG770428	02/16/15 05:08
Specific Conductance	1.58	umhos/cm			WG770581	02/17/15 15:48
TPH (GC/FID) High Fraction	< 4	mg/kg			WG770396	02/17/15 21:53
o-Terphenyl		% Rec.	75.30	50-150	WG770396	02/17/15 21:53
Benzene	< .0005	mg/kg			WG770847	02/18/15 10:50
Ethylbenzene	< .0005	mg/kg			WG770847	02/18/15 10:50
Toluene	< .005	mg/kg			WG770847	02/18/15 10:50
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG770847	02/18/15 10:50
Total Xylene	< .0015	mg/kg			WG770847	02/18/15 10:50
a,a,a-Trifluorotoluene(FID)		% Rec.	104.0	59-128	WG770847	02/18/15 10:50
a,a,a-Trifluorotoluene(PID)		% Rec.	102.0	54-144	WG770847	02/18/15 10:50
Arsenic	< 2	mg/kg			WG770627	02/18/15 14:38
Barium	< .5	mg/kg			WG770627	02/18/15 14:38
Cadmium	< .5	mg/kg			WG770627	02/18/15 14:38
Chromium	< 1	mg/kg			WG770627	02/18/15 14:38
Copper	< 2	mg/kg			WG770627	02/18/15 14:38
Lead	< .5	mg/kg			WG770627	02/18/15 14:38
Nickel	< 2	mg/kg			WG770627	02/18/15 14:38
Selenium	< 2	mg/kg			WG770627	02/18/15 14:38
Silver	< 1	mg/kg			WG770627	02/18/15 14:38
Zinc	< 5	mg/kg			WG770627	02/18/15 14:38
Mercury	< .02	mg/kg			WG770434	02/18/15 16:20
Acenaphthene	< .006	mg/kg			WG770962	02/19/15 05:03
Anthracene	< .006	mg/kg			WG770962	02/19/15 05:03
Benzo(a)anthracene	< .006	mg/kg			WG770962	02/19/15 05:03
Benzo(a)pyrene	< .006	mg/kg			WG770962	02/19/15 05:03
Benzo(b)fluoranthene	< .006	mg/kg			WG770962	02/19/15 05:03
Benzo(k)fluoranthene	< .006	mg/kg			WG770962	02/19/15 05:03
Chrysene	< .006	mg/kg			WG770962	02/19/15 05:03
Dibenz(a,h)anthracene	< .006	mg/kg			WG770962	02/19/15 05:03
Fluoranthene	< .006	mg/kg			WG770962	02/19/15 05:03
Fluorene	< .006	mg/kg			WG770962	02/19/15 05:03
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG770962	02/19/15 05:03
Naphthalene	< .02	mg/kg			WG770962	02/19/15 05:03
Pyrene	< .006	mg/kg			WG770962	02/19/15 05:03
2-Fluorobiphenyl		% Rec.	83.40	38.2-135	WG770962	02/19/15 05:03
Nitrobenzene-d5		% Rec.	101.0	28.4-151	WG770962	02/19/15 05:03
p-Terphenyl-d14		% Rec.	76.20	34.2-141	WG770962	02/19/15 05:03

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Chromium,Hexavalent	mg/kg	0.0	0.0	0.0	0.0	20	L748857-01	WG770428
pH	su	7.50	7.60	0.793	1		L748857-03	WG770430
pH	su	6.60	6.60	0.755	1		L748978-08	WG770430

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

WPX Energy
Ms. Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L748900

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 23, 2015

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Specific Conductance	umhos/cm	140.	140.	2.12	20	L748857-01	WG770581
Specific Conductance	umhos/cm	820.	820.	0.365	20	L749077-02	WG770581
ORP	mV	62.0	61.0	1.63	20	L748817-01	WG770899
ORP	mV	160.	170.	2.99	20	L749077-02	WG770899

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chromium,Hexavalent	mg/kg	146	119.	81.5	80-120	WG770428
pH	su	5.9	5.90	100.	98.3-101.7	WG770430
Specific Conductance	umhos/cm	759	778.	103.	85-115	WG770581
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	60	45.7	76.2 69.50	50-150 50-150	WG770396 WG770396
Benzene	mg/kg	.05	0.0416	83.2	70-130	WG770847
Ethylbenzene	mg/kg	.05	0.0463	92.7	70-130	WG770847
Toluene	mg/kg	.05	0.0455	91.0	70-130	WG770847
Total Xylene	mg/kg	.15	0.148	99.0	70-130	WG770847
a,a,a-Trifluorotoluene(PID)				102.0	54-144	WG770847
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.23	95.1	63.5-137	WG770847
a,a,a-Trifluorotoluene(FID)				101.0	59-128	WG770847
Arsenic	mg/kg	100	102.	102.	80-120	WG770627
Barium	mg/kg	100	106.	106.	80-120	WG770627
Cadmium	mg/kg	100	103.	103.	80-120	WG770627
Chromium	mg/kg	100	99.9	100.	80-120	WG770627
Copper	mg/kg	100	101.	101.	80-120	WG770627
Lead	mg/kg	100	103.	103.	80-120	WG770627
Nickel	mg/kg	100	101.	101.	80-120	WG770627
Selenium	mg/kg	100	104.	104.	80-120	WG770627
Silver	mg/kg	100	99.9	100.	80-120	WG770627
Zinc	mg/kg	100	100.	100.	80-120	WG770627
Mercury	mg/kg	.458	0.440	96.0	80-120	WG770434
Acenaphthene	mg/kg	.08	0.0617	77.1	48.7-127	WG770962
Anthracene	mg/kg	.08	0.0636	79.5	51.3-136	WG770962
Benzo(a)anthracene	mg/kg	.08	0.0619	77.3	55-126	WG770962
Benzo(a)pyrene	mg/kg	.08	0.0472	59.0	51.9-127	WG770962
Benzo(b)fluoranthene	mg/kg	.08	0.0592	74.0	54-125	WG770962
Benzo(k)fluoranthene	mg/kg	.08	0.0674	84.3	53.9-132	WG770962
Chrysene	mg/kg	.08	0.0679	84.9	55.7-133	WG770962
Dibenz(a,h)anthracene	mg/kg	.08	0.0663	82.9	52.6-137	WG770962
Fluoranthene	mg/kg	.08	0.0601	75.2	54-132	WG770962
Fluorene	mg/kg	.08	0.0604	75.5	48.7-127	WG770962
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0665	83.2	53.8-138	WG770962
Naphthalene	mg/kg	.08	0.0701	87.6	42-127	WG770962

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

WPX Energy
Ms. Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L748900

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 23, 2015

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch		
		Known Val	Result					
Pyrene	mg/kg	.08	0.0692	86.5	54-129	WG770962		
2-Fluorobiphenyl				82.50	38.2-135	WG770962		
Nitrobenzene-d5				103.0	28.4-151	WG770962		
p-Terphenyl-d14				74.20	34.2-141	WG770962		
ORP	mV	100	109.	109.	90-110	WG770899		
Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chromium, Hexavalent	mg/kg	120.	119.	82.0	80-120	0.837	20	WG770428
pH	su	5.90	5.90	100.	98.3-101.7	0.0	20	WG770430
Specific Conductance	umhos/	777.	778.	102.	85-115	0.129	20	WG770581
TPH (GC/FID) High Fraction	mg/kg	41.6	45.7	69.0	50-150	9.43	20	WG770396
o-Terphenyl				62.00	50-150			WG770396
Benzene	mg/kg	0.0425	0.0416	85.0	70-130	2.04	20	WG770847
Ethylbenzene	mg/kg	0.0471	0.0463	94.0	70-130	1.65	20	WG770847
Toluene	mg/kg	0.0462	0.0455	92.0	70-130	1.45	20	WG770847
Total Xylene	mg/kg	0.151	0.148	101.	70-130	1.78	20	WG770847
a,a,a-Trifluorotoluene(PID)				102.0	54-144			WG770847
TPH (GC/FID) Low Fraction	mg/kg	5.41	5.23	98.0	63.5-137	3.28	20	WG770847
a,a,a-Trifluorotoluene(FID)				102.0	59-128			WG770847
Arsenic	mg/kg	102.	102.	102.	80-120	0.0	20	WG770627
Barium	mg/kg	106.	106.	106.	80-120	0.0	20	WG770627
Cadmium	mg/kg	103.	103.	102.	80-120	0.0	20	WG770627
Chromium	mg/kg	101.	99.9	101.	80-120	1.00	20	WG770627
Copper	mg/kg	102.	101.	102.	80-120	1.00	20	WG770627
Lead	mg/kg	103.	103.	103.	80-120	0.0	20	WG770627
Nickel	mg/kg	101.	101.	101.	80-120	0.0	20	WG770627
Selenium	mg/kg	104.	104.	104.	80-120	0.0	20	WG770627
Silver	mg/kg	101.	99.9	101.	80-120	1.00	20	WG770627
Zinc	mg/kg	99.9	100.	100.	80-120	0.0	20	WG770627
Mercury	mg/kg	0.451	0.440	98.0	80-120	2.00	20	WG770434
Acenaphthene	mg/kg	0.0588	0.0617	74.0	48.7-127	4.67	20	WG770962
Anthracene	mg/kg	0.0611	0.0636	76.0	51.3-136	3.92	20	WG770962
Benzo(a)anthracene	mg/kg	0.0582	0.0619	73.0	55-126	6.14	20	WG770962
Benzo(a)pyrene	mg/kg	0.0479	0.0472	60.0	51.9-127	1.43	20	WG770962
Benzo(b)fluoranthene	mg/kg	0.0564	0.0592	70.0	54-125	4.83	20	WG770962
Benzo(k)fluoranthene	mg/kg	0.0627	0.0674	78.0	53.9-132	7.19	20	WG770962
Chrysene	mg/kg	0.0642	0.0679	80.0	55.7-133	5.70	20	WG770962
Dibenz(a,h)anthracene	mg/kg	0.0621	0.0663	78.0	52.6-137	6.52	20	WG770962
Fluoranthene	mg/kg	0.0567	0.0601	71.0	54-132	5.93	20	WG770962
Fluorene	mg/kg	0.0572	0.0604	71.0	48.7-127	5.43	20	WG770962
Indeno(1,2,3-cd)pyrene	mg/kg	0.0626	0.0665	78.0	53.8-138	6.10	20	WG770962

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

WPX Energy
Ms. Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L748900

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tag I.D. 62-0814289

Est. 1970

February 23, 2015

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Naphthalene	mg/kg	0.0668	0.0701	84.0	42-127	4.84	20	WG770962
Pyrene	mg/kg	0.0655	0.0692	82.0	54-129	5.54	20	WG770962
2-Fluorobiphenyl				77.40	38.2-135			WG770962
Nitrobenzene-d5				98.90	28.4-151			WG770962
p-Terphenyl-d14				68.90	34.2-141			WG770962
ORP	mV	108.	109.	108.	90-110	0.922	20	WG770899

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Chromium,Hexavalent	mg/kg	19.3	0.0	20	96.0	75-125	L748857-01	WG770428
TPH (GC/FID) High Fraction	mg/kg	406.	341.	60	110.	50-150	L748905-01	WG770396
o-Terphenyl					68.90	50-150		WG770396
Benzene	mg/kg	0.181	0.000444	.05	72.0	49.7-127	L748857-02	WG770847
Ethylbenzene	mg/kg	0.189	0.000212	.05	76.0	40.8-141	L748857-02	WG770847
Toluene	mg/kg	0.191	0.000394	.05	76.0	49.8-132	L748857-02	WG770847
Total Xylene	mg/kg	0.601	0.00116	.15	80.0	41.2-140	L748857-02	WG770847
a,a,a-Trifluorotoluene(PID)					101.0	54-144		WG770847
TPH (GC/FID) Low Fraction	mg/kg	20.2	0.0	5.5	73.0	28.5-138	L748857-02	WG770847
a,a,a-Trifluorotoluene(FID)					98.30	59-128		WG770847
Lead	mg/kg	224.	87.5	100	140.*	75-125	L748838-03	WG770627
Mercury	mg/kg	0.425	0.00429	.458	92.0	75-125	L748506-41	WG770434
Acenaphthene	mg/kg	0.0668	0.00462	.08	78.0	39.4-132	L749279-02	WG770962
Anthracene	mg/kg	0.0835	0.0120	.08	89.0	36.7-144	L749279-02	WG770962
Benzo(a)anthracene	mg/kg	0.112	0.0397	.08	91.0	28-144	L749279-02	WG770962
Benzo(a)pyrene	mg/kg	0.105	0.0387	.08	83.0	23.8-147	L749279-02	WG770962
Benzo(b)fluoranthene	mg/kg	0.114	0.0487	.08	81.0	18.2-147	L749279-02	WG770962
Benzo(k)fluoranthene	mg/kg	0.0733	0.0171	.08	70.0	26.5-143	L749279-02	WG770962
Chrysene	mg/kg	0.111	0.0393	.08	90.0	27.4-150	L749279-02	WG770962
Dibenz(a,h)anthracene	mg/kg	0.0661	0.0	.08	83.0	13.8-150	L749279-02	WG770962
Fluoranthene	mg/kg	0.215	0.101	.08	140.	23.2-158	L749279-02	WG770962
Fluorene	mg/kg	0.0705	0.00669	.08	80.0	30.8-139	L749279-02	WG770962
Indeno(1,2,3-cd)pyrene	mg/kg	0.0875	0.00108	.08	110.	10.7-155	L749279-02	WG770962
Naphthalene	mg/kg	0.0658	0.00545	.08	75.0	34.9-133	L749279-02	WG770962
Pyrene	mg/kg	0.164	0.0709	.08	120.	22.6-151	L749279-02	WG770962
2-Fluorobiphenyl					87.20	38.2-135		WG770962
Nitrobenzene-d5					108.0	28.4-151		WG770962
p-Terphenyl-d14					75.10	34.2-141		WG770962

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Chromium,Hexavalent	mg/kg	19.3	19.3	96.5	75-125	0.0	20	L748857-01	WG770428
TPH (GC/FID) High Fraction	mg/kg	367.	406.	42.4*	50-150	10.2	20	L748905-01	WG770396
o-Terphenyl				70.40	50-150				WG770396

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

WPX Energy
Ms. Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L748900

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 23, 2015

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.203	0.181	81.2	49.7-127	11.9	23.5	L748857-02	WG770847
Ethylbenzene	mg/kg	0.215	0.189	85.8	40.8-141	12.5	23.8	L748857-02	WG770847
Toluene	mg/kg	0.218	0.191	87.0	49.8-132	13.3	23.5	L748857-02	WG770847
Total Xylene	mg/kg	0.677	0.601	90.1	41.2-140	11.9	23.7	L748857-02	WG770847
a, a, a-Trifluorotoluene(PID)				101.0	54-144				WG770847
TPH (GC/FID) Low Fraction	mg/kg	20.8	20.2	75.7	28.5-138	3.13	23.6	L748857-02	WG770847
a, a, a-Trifluorotoluene(FID)				96.70	59-128				WG770847
Lead	mg/kg	398.	224.	310.*	75-125	56.0*	20	L748838-03	WG770627
Mercury	mg/kg	0.424	0.425	91.6	75-125	0.0	20	L748506-41	WG770434
Acenaphthene	mg/kg	0.0619	0.0668	71.6	39.4-132	7.61	20	L749279-02	WG770962
Anthracene	mg/kg	0.0775	0.0835	81.8	36.7-144	7.48	20.7	L749279-02	WG770962
Benzo(a)anthracene	mg/kg	0.103	0.112	78.6	28-144	9.00	24.7	L749279-02	WG770962
Benzo(a)pyrene	mg/kg	0.101	0.105	77.7	23.8-147	4.39	25.3	L749279-02	WG770962
Benzo(b)fluoranthene	mg/kg	0.104	0.114	69.7	18.2-147	8.48	29.5	L749279-02	WG770962
Benzo(k)fluoranthene	mg/kg	0.0644	0.0733	59.1	26.5-143	12.9	26.1	L749279-02	WG770962
Chrysene	mg/kg	0.105	0.111	82.7	27.4-150	5.14	25.7	L749279-02	WG770962
Dibenz(a,h)anthracene	mg/kg	0.0616	0.0661	77.0	13.8-150	7.09	25.8	L749279-02	WG770962
Fluoranthene	mg/kg	0.187	0.215	107.	23.2-158	13.9	26	L749279-02	WG770962
Fluorene	mg/kg	0.0637	0.0705	71.2	30.8-139	10.1	20	L749279-02	WG770962
Indeno(1,2,3-cd)pyrene	mg/kg	0.0843	0.0875	104.	10.7-155	3.82	26.9	L749279-02	WG770962
Naphthalene	mg/kg	0.0623	0.0658	71.1	34.9-133	5.41	20.4	L749279-02	WG770962
Pyrene	mg/kg	0.145	0.164	92.5	22.6-151	12.5	25.1	L749279-02	WG770962
2-Fluorobiphenyl				84.40	38.2-135				WG770962
Nitrobenzene-d5				103.0	28.4-151				WG770962
p-Terphenyl-d14				76.10	34.2-141				WG770962

Post Spike

Serial Dilution

Batch number /Run number / Sample number cross reference

WG770428: R3020046: L748900-01
 WG770430: R3020077: L748900-01
 WG770581: R3020235: L748900-01
 WG770396: R3020278 R3020478: L748900-02
 WG770847: R3020388: L748900-02
 WG770627: R3020455 R3020592: L748900-01
 WG770434: R3020503: L748900-01
 WG770962: R3020623 R3020627 R3020742: L748900-02
 WG770899: R3020912: L748900-01
 WG771000: R3021074: L748900-01

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

WPX Energy
Ms. Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L748900

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 23, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



18-Mar-2015

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

Re: **GV 41-34 Batch 7**

Work Order: **1503595**

Dear Karolina,

ALS Environmental received 1 sample on 11-Mar-2015 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 25.

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

Sincerely,

A handwritten signature in black ink that reads "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS Environmental logo icon consisting of a small blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: WPX Energy Rocky Mountain, LLC
Project: GV 41-34 Batch 7
Work Order: 1503595

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>
1503595-01	GV 41-34 Batch 7	Soil		3/10/2015 10:45	3/11/2015 09:30	<input type="checkbox"/>

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

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

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

ALS Group USA, Corp

Date: 18-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Project: GV 41-34 Batch 7
Sample ID: GV 41-34 Batch 7
Collection Date: 3/10/2015 10:45 AM

Work Order: 1503595
Lab ID: 1503595-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 3/16/15	Analyst: IT
DRO (C10-C28)	47		4.8	mg/Kg-dry	1	3/16/2015 11:02 PM
<i>Surr: 4-Terphenyl-d14</i>	56.9		39-133	%REC	1	3/16/2015 11:02 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 3/11/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	3/13/2015 05:57 AM
<i>Surr: Toluene-d8</i>	115		50-150	%REC	1	3/13/2015 05:57 AM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 3/13/15	Analyst: LR
Mercury	0.028		0.014	mg/Kg-dry	1	3/13/2015 08:45 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 3/12/15	Analyst: JEC
Arsenic	15		0.37	mg/Kg-dry	1	3/13/2015 04:58 PM
Barium	290		0.37	mg/Kg-dry	1	3/13/2015 04:58 PM
Cadmium	ND		0.74	mg/Kg-dry	1	3/13/2015 04:58 PM
Chromium	12		0.37	mg/Kg-dry	1	3/13/2015 04:58 PM
Copper	15		0.74	mg/Kg-dry	1	3/13/2015 04:58 PM
Lead	12		0.37	mg/Kg-dry	1	3/13/2015 04:58 PM
Nickel	15		0.37	mg/Kg-dry	1	3/13/2015 04:58 PM
Selenium	ND		0.74	mg/Kg-dry	1	3/13/2015 04:58 PM
Silver	ND		0.37	mg/Kg-dry	1	3/13/2015 04:58 PM
Zinc	62		0.74	mg/Kg-dry	1	3/13/2015 04:58 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 3/17/15	Analyst: JEC
Calcium	460		5.0	mg/L	10	3/17/2015 01:24 PM
Magnesium	120		2.0	mg/L	10	3/17/2015 01:24 PM
Sodium	1,300		2.0	mg/L	10	3/17/2015 01:24 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 3/17/15	Analyst: JEC
Sodium Adsorption Ratio	14		0.010	none	1	3/17/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 3/16/15	Analyst: RM
Acenaphthene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Anthracene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Chrysene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM

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

ALS Group USA, Corp

Date: 18-Mar-15

Client: WPX Energy Rocky Mountain, LLC
Project: GV 41-34 Batch 7
Sample ID: GV 41-34 Batch 7
Collection Date: 3/10/2015 10:45 AM

Work Order: 1503595
Lab ID: 1503595-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Fluorene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Naphthalene	32		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Pyrene	ND		7.7	µg/Kg-dry	1	3/16/2015 07:08 PM
Surr: 2,4,6-Tribromophenol	69.9		34-140	%REC	1	3/16/2015 07:08 PM
Surr: 2-Fluorobiphenyl	63.2		12-100	%REC	1	3/16/2015 07:08 PM
Surr: 2-Fluorophenol	64.0		33-117	%REC	1	3/16/2015 07:08 PM
Surr: 4-Terphenyl-d14	90.0		25-137	%REC	1	3/16/2015 07:08 PM
Surr: Nitrobenzene-d5	44.0		37-107	%REC	1	3/16/2015 07:08 PM
Surr: Phenol-d6	75.4		40-106	%REC	1	3/16/2015 07:08 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 3/11/15	Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	3/12/2015 07:23 AM
Ethylbenzene	47		35	µg/Kg-dry	1	3/12/2015 07:23 AM
m,p-Xylene	150		69	µg/Kg-dry	1	3/12/2015 07:23 AM
o-Xylene	ND		35	µg/Kg-dry	1	3/12/2015 07:23 AM
Toluene	ND		35	µg/Kg-dry	1	3/12/2015 07:23 AM
Xylenes, Total	150		100	µg/Kg-dry	1	3/12/2015 07:23 AM
Surr: 1,2-Dichloroethane-d4	97.8		70-130	%REC	1	3/12/2015 07:23 AM
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	1	3/12/2015 07:23 AM
Surr: Dibromofluoromethane	98.7		70-130	%REC	1	3/12/2015 07:23 AM
Surr: Toluene-d8	114		70-130	%REC	1	3/12/2015 07:23 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 3/17/15	Analyst: JB
Electrical Conductivity @ Saturation	10		0.050	mmhos/cm @2	10	3/17/2015 11:45 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.58	mg/Kg-dry	1	3/18/2015 08:30 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 3/16/15	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	3/17/2015 02:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	14		0.050	% of sample	1	3/13/2015 12:35 PM
PH			SW9045D		Prep: EXTRACT / 3/12/15	Analyst: JRF
pH	7.8			s.u.	1	3/12/2015 01:20 PM

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68624** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-68624-68624				Units: mg/Kg		Analysis Date: 3/16/2015 05:03 PM		
Client ID:		Run ID: GC8_150316A		SeqNo: 3180178		Prep Date: 3/16/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.237	0	2	0	61.8	39-133	0			

LCS		Sample ID: DLCSS1-68624-68624				Units: mg/Kg		Analysis Date: 3/16/2015 05:33 PM		
Client ID:		Run ID: GC8_150316A		SeqNo: 3180179		Prep Date: 3/16/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	173.3	5.0	200	0	86.6	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.148	0	2	0	57.4	39-133	0			

MS		Sample ID: 1503588-02A MS				Units: mg/Kg		Analysis Date: 3/16/2015 06:03 PM		
Client ID:		Run ID: GC8_150316A		SeqNo: 3180181		Prep Date: 3/16/2015		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	921.9	81	322.9	685.4	73.3	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.247	0	3.229	0	69.6	39-133	0			

MSD		Sample ID: 1503588-02A MSD				Units: mg/Kg		Analysis Date: 3/16/2015 06:33 PM		
Client ID:		Run ID: GC8_150316A		SeqNo: 3180183		Prep Date: 3/16/2015		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	937.7	78	313.3	685.4	80.5	48-110	921.9	1.7	30	
<i>Surr: 4-Terphenyl-d14</i>	1.899	0	3.133	0	60.6	39-133	2.247	16.8	30	

The following samples were analyzed in this batch:

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 1503595
 Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68523** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-68523-68523				Units: µg/Kg		Analysis Date: 3/13/2015 03:54 AM		
Client ID:		Run ID: GC9_150312A		SeqNo: 3176256		Prep Date: 3/11/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	5102	0	5000	0	102	50-150	0			

LCS		Sample ID: LCS-68523-68523				Units: µg/Kg		Analysis Date: 3/13/2015 03:29 AM		
Client ID:		Run ID: GC9_150312A		SeqNo: 3176255		Prep Date: 3/11/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	488700	2,500	500000	0	97.7	70-130	0			
<i>Surr: Toluene-d8</i>	4533	0	5000	0	90.7	50-150	0			

MS		Sample ID: 1503588-01A MS				Units: µg/Kg		Analysis Date: 3/13/2015 07:39 AM		
Client ID:		Run ID: GC9_150312A		SeqNo: 3176263		Prep Date: 3/11/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	451500	2,500	500000	0	90.3	70-130	0			
<i>Surr: Toluene-d8</i>	4848	0	5000	0	97	50-150	0			

MSD		Sample ID: 1503588-01A MSD				Units: µg/Kg		Analysis Date: 3/13/2015 08:04 AM		
Client ID:		Run ID: GC9_150312A		SeqNo: 3176264		Prep Date: 3/11/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	445700	2,500	500000	0	89.1	70-130	451500	1.3	30	
<i>Surr: Toluene-d8</i>	4528	0	5000	0	90.6	50-150	4848	6.85	30	

The following samples were analyzed in this batch:

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 1503595
 Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68556** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-68556-68556				Units: mg/Kg		Analysis Date: 3/13/2015 08:26 PM		
Client ID:		Run ID: HG1_150313A		SeqNo: 3178004		Prep Date: 3/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-68556-68556				Units: mg/Kg		Analysis Date: 3/13/2015 08:36 PM		
Client ID:		Run ID: HG1_150313A		SeqNo: 3178008		Prep Date: 3/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1895 0.020 0.1665 0 114 80-120 0

MS		Sample ID: 1503595-01AMS				Units: mg/Kg		Analysis Date: 3/13/2015 08:47 PM		
Client ID: GV 41-34 Batch 7		Run ID: HG1_150313A		SeqNo: 3178013		Prep Date: 3/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1438 0.013 0.1044 0.02387 115 75-125 0

MSD		Sample ID: 1503595-01AMSD				Units: mg/Kg		Analysis Date: 3/13/2015 08:50 PM		
Client ID: GV 41-34 Batch 7		Run ID: HG1_150313A		SeqNo: 3178014		Prep Date: 3/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1403 0.012 0.1037 0.02387 112 75-125 0.1438 2.42 35

The following samples were analyzed in this batch: 1503595-01A

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 1503595
 Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68545** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-68545-68545				Units: mg/Kg		Analysis Date: 3/13/2015 04:14 PM		
Client ID:		Run ID: ICP2_150313A			SeqNo: 3177445		Prep Date: 3/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.01016	0.25								J
Copper	ND	0.50								
Lead	0.03105	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-68545-68545				Units: mg/Kg		Analysis Date: 3/13/2015 04:20 PM		
Client ID:		Run ID: ICP2_150313A			SeqNo: 3177446		Prep Date: 3/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.812	0.25	5	0	96.2	80-120	0			
Barium	5.059	0.25	5	0	101	80-120	0			
Cadmium	4.99	0.50	5	0	99.8	80-120	0			
Chromium	5.233	0.25	5	0	105	80-120	0			
Copper	5.365	0.50	5	0	107	80-120	0			
Lead	5.269	0.25	5	0	105	80-120	0			
Nickel	5.218	0.25	5	0	104	80-120	0			
Selenium	4.917	0.50	5	0	98.3	80-120	0			
Silver	5.439	0.25	5	0	109	80-120	0			
Zinc	5.195	0.50	5	0	104	80-120	0			

MS		Sample ID: 1503596-03AMS				Units: mg/Kg		Analysis Date: 3/13/2015 05:42 PM		
Client ID:		Run ID: ICP2_150313A			SeqNo: 3177462		Prep Date: 3/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	19.7	0.39	7.825	10.46	118	75-125	0			
Barium	238.7	0.39	7.825	201.8	472	75-125	0			SO
Cadmium	8.629	0.78	7.825	0.4412	105	75-125	0			
Chromium	19.05	0.39	7.825	7.483	148	75-125	0			S
Copper	20.73	0.78	7.825	12.05	111	75-125	0			
Lead	22.21	0.39	7.825	14.02	105	75-125	0			
Nickel	20.68	0.39	7.825	13.16	96	75-125	0			
Selenium	7.573	0.78	7.825	-0.4337	102	75-125	0			
Silver	9.564	0.39	7.825	-0.145	124	75-125	0			
Zinc	67.45	0.78	7.825	56.87	135	75-125	0			SO

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

Client: WPX Energy Rocky Mountain, LLC

QC BATCH REPORT

Work Order: 1503595

Project: GV 41-34 Batch 7

Batch ID: 68545

Instrument ID ICP2

Method: SW846 6010C

MS		Sample ID: 1503596-03AMS				Units: mg/Kg		Analysis Date: 3/16/2015 05:06 PM		
Client ID:		Run ID: ICP2_150316B			SeqNo: 3179842		Prep Date: 3/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	20.83	0.39	7.825	11.51	119	75-125	0			
Barium	256.4	0.39	7.825	205.7	648	75-125	0			SO
Cadmium	8.505	0.78	7.825	0.3991	104	75-125	0			
Chromium	19.67	0.39	7.825	8.379	144	75-125	0			S
Copper	21.01	0.78	7.825	12.4	110	75-125	0			
Lead	23.28	0.39	7.825	14.8	108	75-125	0			
Nickel	20.86	0.39	7.825	13.64	92.3	75-125	0			
Selenium	8.967	0.78	7.825	0.208	112	75-125	0			
Silver	10.58	0.39	7.825	-0.2068	138	75-125	0			S
Zinc	68.78	0.78	7.825	59.17	123	75-125	0			O

MSD		Sample ID: 1503596-03AMSD				Units: mg/Kg		Analysis Date: 3/13/2015 05:48 PM		
Client ID:		Run ID: ICP2_150313A			SeqNo: 3177463		Prep Date: 3/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	19.33	0.39	7.812	10.46	114	75-125	19.7	1.88	20	
Barium	213.1	0.39	7.812	201.8	145	75-125	238.7	11.3	20	SO
Cadmium	8.616	0.78	7.812	0.4412	105	75-125	8.629	0.156	20	
Chromium	19.19	0.39	7.812	7.483	150	75-125	19.05	0.757	20	S
Copper	20.89	0.78	7.812	12.05	113	75-125	20.73	0.79	20	
Lead	22.47	0.39	7.812	14.02	108	75-125	22.21	1.19	20	
Nickel	20.64	0.39	7.812	13.16	95.7	75-125	20.68	0.183	20	
Selenium	8.108	0.78	7.812	-0.4337	109	75-125	7.573	6.82	20	
Silver	9.479	0.39	7.812	-0.145	123	75-125	9.564	0.895	20	
Zinc	69.37	0.78	7.812	56.87	160	75-125	67.45	2.8	20	SO

MSD		Sample ID: 1503596-03AMSD				Units: mg/Kg		Analysis Date: 3/16/2015 05:11 PM		
Client ID:		Run ID: ICP2_150316B			SeqNo: 3179843		Prep Date: 3/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	20.91	0.39	7.812	11.51	120	75-125	20.83	0.386	20	
Barium	217.4	0.39	7.812	205.7	150	75-125	256.4	16.5	20	SO
Cadmium	8.63	0.78	7.812	0.3991	105	75-125	8.505	1.45	20	
Chromium	20.14	0.39	7.812	8.379	151	75-125	19.67	2.35	20	S
Copper	21.41	0.78	7.812	12.4	115	75-125	21.01	1.88	20	
Lead	23.8	0.39	7.812	14.8	115	75-125	23.28	2.19	20	
Nickel	21.06	0.39	7.812	13.64	95	75-125	20.86	0.953	20	
Selenium	9.146	0.78	7.812	0.208	114	75-125	8.967	1.97	20	
Silver	10.55	0.39	7.812	-0.2068	138	75-125	10.58	0.222	20	S
Zinc	71.25	0.78	7.812	59.17	155	75-125	68.78	3.53	20	SO

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

Client: WPX Energy Rocky Mountain, LLC

Work Order: 1503595

Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68545**

Instrument ID **ICP2**

Method: **SW846 6010C**

The following samples were analyzed in this batch:

1503595-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68575** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1503594-01ADUP				Units: mg/L		Analysis Date: 3/17/2015 01:19 PM		
Client ID:		Run ID: ICP2_150317A			SeqNo: 3180998		Prep Date: 3/17/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	334.6	5.0	0	0	0	0-0	307	8.58		
Magnesium	60.7	2.0	0	0	0	0-0	57.55	5.34		
Sodium	462.6	2.0	0	0	0	0-0	443.4	4.23		

DUP		Sample ID: 1503594-01ADUP				Units: none		Analysis Date: 3/17/2015		
Client ID:		Run ID: SAR_150317A			SeqNo: 3181110		Prep Date: 3/17/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	6.11	0.010	0	0	0		6.09	0.32	50	

The following samples were analyzed in this batch: | 1503595-01A |

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68623** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-68623-68623			Units: µg/Kg		Analysis Date: 3/16/2015 06:00 PM			
Client ID:		Run ID: SVMS4_150316A			SeqNo: 3180314		Prep Date: 3/16/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1181</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>70.9</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1057</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>63.4</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>1154</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>69.3</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1446</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.7</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1029</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>61.7</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>1124</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>67.4</i>	<i>40-106</i>	<i>0</i>			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68623** Instrument ID **SVMS4** Method: **SW846 8270D**

LCS		Sample ID: SLCSS1-68623-68623				Units: µg/Kg		Analysis Date: 3/16/2015 06:28 PM		
Client ID:		Run ID: SVMS4_150316A			SeqNo: 3180316		Prep Date: 3/16/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	537.7	6.7	666.7	0	80.6	45-110	0			
Anthracene	578.7	6.7	666.7	0	86.8	55-105	0			
Benzo(a)anthracene	545.7	6.7	666.7	0	81.8	50-110	0			
Benzo(a)pyrene	583.3	6.7	666.7	0	87.5	50-110	0			
Benzo(b)fluoranthene	593.7	6.7	666.7	0	89	45-115	0			
Benzo(g,h,i)perylene	609	6.7	666.7	0	91.3	40-125	0			
Benzo(k)fluoranthene	588.7	6.7	666.7	0	88.3	45-115	0			
Chrysene	576.3	6.7	666.7	0	86.4	55-110	0			
Dibenzo(a,h)anthracene	611.3	6.7	666.7	0	91.7	40-125	0			
Fluoranthene	602.7	6.7	666.7	0	90.4	55-115	0			
Fluorene	553.7	6.7	666.7	0	83	50-110	0			
Indeno(1,2,3-cd)pyrene	583	6.7	666.7	0	87.4	40-120	0			
Naphthalene	505.3	6.7	666.7	0	75.8	40-105	0			
Pyrene	563.3	6.7	666.7	0	84.5	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	1486	0	1667	0	89.1	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1382	0	1667	0	82.9	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1437	0	1667	0	86.2	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1420	0	1667	0	85.2	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1356	0	1667	0	81.4	37-107	0			
<i>Surr: Phenol-d6</i>	1415	0	1667	0	84.9	40-106	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68623** Instrument ID **SVMS4** Method: **SW846 8270D**

MS		Sample ID: 1503673-01A MS				Units: µg/Kg		Analysis Date: 3/16/2015 10:18 PM		
Client ID:		Run ID: SVMS4_150316A		SeqNo: 3180318		Prep Date: 3/16/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1005	13	1279	0	0	45-110	0			
Anthracene	1077	13	1279	0	0	55-105	0			
Benzo(a)anthracene	1072	13	1279	0	0	50-110	0			
Benzo(a)pyrene	1056	13	1279	0	0	50-110	0			
Benzo(b)fluoranthene	1108	13	1279	0	0	45-115	0			
Benzo(g,h,i)perylene	1138	13	1279	0	0	40-125	0			
Benzo(k)fluoranthene	1038	13	1279	0	0	45-115	0			
Chrysene	1131	13	1279	0	0	55-110	0			
Dibenzo(a,h)anthracene	1104	13	1279	0	0	40-125	0			
Fluoranthene	1150	13	1279	0	0	55-115	0			
Fluorene	1047	13	1279	0	0	50-110	0			
Indeno(1,2,3-cd)pyrene	1131	13	1279	0	0	40-120	0			
Naphthalene	954.8	13	1279	0	0	40-105	0			
Pyrene	1098	13	1279	0	0	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2689</i>	<i>0</i>	<i>3198</i>	<i>0</i>	<i>84.1</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>2556</i>	<i>0</i>	<i>3198</i>	<i>0</i>	<i>79.9</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>2678</i>	<i>0</i>	<i>3198</i>	<i>0</i>	<i>83.7</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>2804</i>	<i>0</i>	<i>3198</i>	<i>0</i>	<i>87.7</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>2594</i>	<i>0</i>	<i>3198</i>	<i>0</i>	<i>81.1</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>2623</i>	<i>0</i>	<i>3198</i>	<i>0</i>	<i>82</i>	<i>40-106</i>	<i>0</i>			

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 1503595
 Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68623** Instrument ID **SVMS4** Method: **SW846 8270D**

MSD		Sample ID: 1503673-01A MSD				Units: µg/Kg		Analysis Date: 3/16/2015 10:44 PM		
Client ID:		Run ID: SVMS4_150316A		SeqNo: 3180319		Prep Date: 3/16/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1025	13	1280	0	0	45-110	1005	2.03	30	
Anthracene	1112	13	1280	0	0	55-105	1077	3.18	30	
Benzo(a)anthracene	1101	13	1280	0	0	50-110	1072	2.61	30	
Benzo(a)pyrene	1087	13	1280	0	0	50-110	1056	2.88	30	
Benzo(b)fluoranthene	1124	13	1280	0	0	45-115	1108	1.45	30	
Benzo(g,h,i)perylene	1206	13	1280	0	0	40-125	1138	5.81	30	
Benzo(k)fluoranthene	1098	13	1280	0	0	45-115	1038	5.65	30	
Chrysene	1201	13	1280	0	0	55-110	1131	6.06	30	
Dibenzo(a,h)anthracene	1164	13	1280	0	0	40-125	1104	5.32	30	
Fluoranthene	1157	13	1280	0	0	55-115	1150	0.631	30	
Fluorene	1071	13	1280	0	0	50-110	1047	2.31	30	
Indeno(1,2,3-cd)pyrene	1167	13	1280	0	0	40-120	1131	3.14	30	
Naphthalene	974.1	13	1280	0	0	40-105	954.8	2	30	
Pyrene	1134	13	1280	0	0	45-125	1098	3.23	30	
Surr: 2,4,6-Tribromophenol	2761	0	3200	0	86.3	34-140	2689	2.64	40	
Surr: 2-Fluorobiphenyl	2674	0	3200	0	83.6	12-100	2556	4.5	40	
Surr: 2-Fluorophenol	2665	0	3200	0	83.3	33-117	2678	0.474	40	
Surr: 4-Terphenyl-d14	2936	0	3200	0	91.8	25-137	2804	4.62	40	
Surr: Nitrobenzene-d5	2594	0	3200	0	81.1	37-107	2594	0.00278	40	
Surr: Phenol-d6	2568	0	3200	0	80.3	40-106	2623	2.12	40	

The following samples were analyzed in this batch: | 1503595-01A |

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

Client: WPX Energy Rocky Mountain, LLC

QC BATCH REPORT

Work Order: 1503595

Project: GV 41-34 Batch 7

Batch ID: 68509

Instrument ID VMS6

Method: SW8260B

MBLK		Sample ID: MBLK-68509-68509				Units: µg/Kg		Analysis Date: 3/11/2015 04:13 PM		
Client ID:		Run ID: VMS6_150311A			SeqNo: 3174629		Prep Date: 3/11/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1118	0	1000	0	112	70-130	0			
Surr: 4-Bromofluorobenzene	945.5	0	1000	0	94.6	70-130	0			
Surr: Dibromofluoromethane	944.5	0	1000	0	94.4	70-130	0			
Surr: Toluene-d8	1034	0	1000	0	103	70-130	0			

LCS		Sample ID: LCS-68509-68509				Units: µg/Kg		Analysis Date: 3/11/2015 02:55 PM		
Client ID:		Run ID: VMS6_150311A			SeqNo: 3173106		Prep Date: 3/11/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1027	30	1000	0	103	75-125	0			
Ethylbenzene	999.5	30	1000	0	100	75-125	0			
m,p-Xylene	1996	60	2000	0	99.8	80-125	0			
o-Xylene	1006	30	1000	0	101	75-125	0			
Toluene	1039	30	1000	0	104	70-125	0			
Xylenes, Total	3002	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	1114	0	1000	0	111	70-130	0			
Surr: 4-Bromofluorobenzene	980.5	0	1000	0	98	70-130	0			
Surr: Dibromofluoromethane	1062	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1018	0	1000	0	102	70-130	0			

MS		Sample ID: 1503592-01A MS				Units: µg/Kg		Analysis Date: 3/12/2015 09:31 AM		
Client ID:		Run ID: VMS5_150311B			SeqNo: 3174564		Prep Date: 3/11/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1100	30	1000	0	110	75-125	0			
Ethylbenzene	1046	30	1000	0	105	75-125	0			
m,p-Xylene	2172	60	2000	116.5	103	80-125	0			
o-Xylene	1063	30	1000	32.5	103	75-125	0			
Toluene	1037	30	1000	0	104	70-125	0			
Xylenes, Total	3234	90	3000	152	103	75-125	0			
Surr: 1,2-Dichloroethane-d4	1028	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	993	0	1000	0	99.3	70-130	0			
Surr: Dibromofluoromethane	1014	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1002	0	1000	0	100	70-130	0			

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68509** Instrument ID **VMS6** Method: **SW8260B**

MSD		Sample ID: 1503592-01A MSD				Units: µg/Kg		Analysis Date: 3/12/2015 09:57 AM		
Client ID:		Run ID: VMS5_150311B			SeqNo: 3174565		Prep Date: 3/11/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1116	30	1000	0	112	75-125	1100	1.44	30	
Ethylbenzene	1110	30	1000	0	111	75-125	1046	5.94	30	
m,p-Xylene	2348	60	2000	116.5	112	80-125	2172	7.83	30	
o-Xylene	1266	30	1000	32.5	123	75-125	1063	17.4	30	
Toluene	1057	30	1000	0	106	70-125	1037	1.91	30	
Xylenes, Total	3614	90	3000	152	115	75-125	3234	11.1	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1132	0	1000	0	113	70-130	1028	9.63	30	
<i>Surr: 4-Bromofluorobenzene</i>	1106	0	1000	0	111	70-130	993	10.8	30	
<i>Surr: Dibromofluoromethane</i>	952.5	0	1000	0	95.2	70-130	1014	6.25	30	
<i>Surr: Toluene-d8</i>	1020	0	1000	0	102	70-130	1002	1.73	30	

The following samples were analyzed in this batch: 1503595-01A

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68559** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-68559-68559				Units: s.u.		Analysis Date: 3/12/2015 01:20 PM			
Client ID:		Run ID: WETCHEM_150312F		SeqNo: 3174644		Prep Date: 3/12/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.97	0	4	0	99.2	90-110	0				

DUP		Sample ID: 1503588-02A DUP				Units: s.u.		Analysis Date: 3/12/2015 01:20 PM			
Client ID:		Run ID: WETCHEM_150312F		SeqNo: 3174648		Prep Date: 3/12/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	9.05	0	0	0	0	0-0	9.01	0.443	20		

The following samples were analyzed in this batch:

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

Client: WPX Energy Rocky Mountain, LLC
Work Order: 1503595
Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68575** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 1503594-01A DUP		Units: mmhos/cm @25°		Analysis Date: 3/17/2015 11:45 AM					
Client ID:	Run ID: WETCHEM_150317C		SeqNo: 3180630		Prep Date: 3/17/2015		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.89	0.050	0	0	0		5.02	2.62	50	

The following samples were analyzed in this batch:

1503595-01A

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 1503595
 Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **68734** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-68734-68734		Units: mg/Kg		Analysis Date: 3/17/2015 02:00 PM					
Client ID:	Run ID: WETCHEM_150317K		SeqNo: 3181588		Prep Date: 3/16/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS	Sample ID: LCS-68734-68734		Units: mg/Kg		Analysis Date: 3/17/2015 02:00 PM					
Client ID:	Run ID: WETCHEM_150317K		SeqNo: 3181587		Prep Date: 3/16/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.39 1.0 5 0 87.8 80-120 0

MS	Sample ID: 1503588-01A MS		Units: mg/Kg		Analysis Date: 3/17/2015 02:00 PM					
Client ID:	Run ID: WETCHEM_150317K		SeqNo: 3181578		Prep Date: 3/16/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.347 0.99 4.95 0.1212 85.4 75-125 0

MS	Sample ID: 1503588-01A MSI		Units: mg/Kg		Analysis Date: 3/17/2015 02:00 PM					
Client ID:	Run ID: WETCHEM_150317K		SeqNo: 3181580		Prep Date: 3/16/2015 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2393 100 2848 0.1212 84 75-125 0

MSD	Sample ID: 1503588-01A MSD		Units: mg/Kg		Analysis Date: 3/17/2015 02:00 PM					
Client ID:	Run ID: WETCHEM_150317K		SeqNo: 3181579		Prep Date: 3/16/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.057 0.95 4.762 0.1212 82.7 75-125 4.347 6.89 20

The following samples were analyzed in this batch:

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

Client: WPX Energy Rocky Mountain, LLC
 Work Order: 1503595
 Project: GV 41-34 Batch 7

QC BATCH REPORT

Batch ID: **R159209** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R159209				Units: % of sample			Analysis Date: 3/13/2015 12:35 PM		
Client ID:		Run ID: MOIST_150313A				SeqNo: 3178660		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.03	0.050								J	

LCS		Sample ID: LCS-R159209				Units: % of sample			Analysis Date: 3/13/2015 12:35 PM		
Client ID:		Run ID: MOIST_150313A				SeqNo: 3178659		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: 1503592-01A DUP				Units: % of sample			Analysis Date: 3/13/2015 12:35 PM		
Client ID:		Run ID: MOIST_150313A				SeqNo: 3178643		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	9.02	0.050	0		0	0		8.99	0.333	20	

DUP		Sample ID: 1503596-05A DUP				Units: % of sample			Analysis Date: 3/13/2015 12:35 PM		
Client ID:		Run ID: MOIST_150313A				SeqNo: 3178652		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	10.71	0.050	0		0	0		10.49	2.08	20	

The following samples were analyzed in this batch:

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



ALS Laboratory Group

HOLLAND, Michigan 49424

Chain-of-Custody

Form 2026

WORKORDER #	1503595
-------------	---------

PROJECT NAME		GV 41-34 Batch 7		SAMPLER				DATE				PAGE		1 of 1	
PROJECT No.				SITE ID		GV 41-34 Batch 7		TURNAROUND		5 day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		WPX Energy		EDD FORMAT											
SEND REPORT TO		Blaney		PURCHASE ORDER											
ADDRESS				BILL TO COMPANY		WPX Energy									
CITY / STATE / ZIP				INVOICE ATTN TO		Karolina Blaney; Leo Braun									
PHONE				ADDRESS		1058 Co Rd 215									
FAX				CITY / STATE / ZIP		Parachute CO 81835									
E-MAIL		Karolina.blaney@wpxenergy.com		PHONE		870-883-2295									
				FAX											
				E-MAIL		Karolina.blaney@wpxenergy.com; leo.braun@wpxenergy.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
	GV 41-34 Batch 7	S	3/10/2015	10:45	1	8	x x								

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

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)

4.0°C

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Karolina Blaney	karolina blaney	3/10/2015	18:00
RECEIVED BY	[Signature]	WV	3-10	17:00
RELINQUISHED BY	[Signature]		3-10	17:00
RECEIVED BY	[Signature]	Biane F. Shaw	3/11/15	0930
RELINQUISHED BY				
RECEIVED BY				

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

From: (818) 298-1033
Nick Martinez
ALS Environmental
127 E. 1st Street

Origin ID: RILA



J151215022303uv

Ship Date: 10MAR15
ActWgt: 72.0 LB
CAD: 2264840/NET3810

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 0301015-3
Invoice #
PO # Parachute
Dept #

SHIP TO: (816) 399-6870

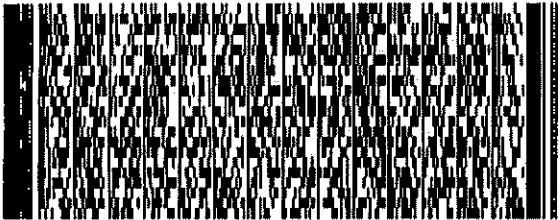
BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

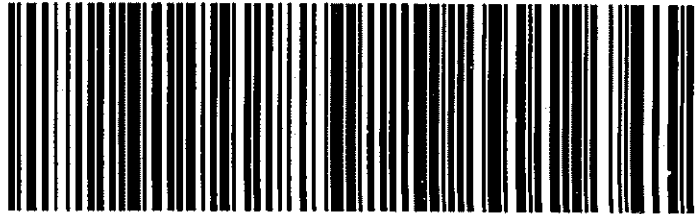
WED - 11 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 7730 9554 2370
8281



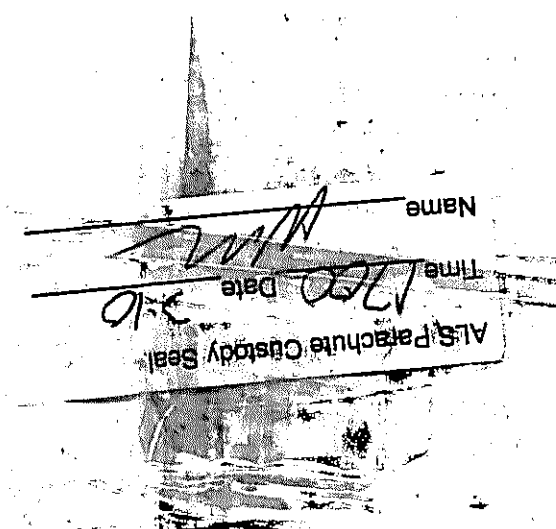
XX HLMA

49424
MI-US
GRR



537J187DAEE4B

/templates/components/dotcom_label_contents/FoldInstr/en/Folding_instructions.html loading...
/templates/components/dotcom_label_contents/WarningsOriginalLabel/en/Folding_warning.html loading...
/templates/components/dotcom_label_contents/TnCDom/us/en/TC_dom.html loading..



Sample Receipt Checklist

Client Name: **WPX**

Date/Time Received: **11-Mar-15 09:30**

Work Order: **1503595**

Received by: **DS**

Checklist completed by Diane Shaw 11-Mar-15
eSignature Date

Reviewed by: Chad Whelton 11-Mar-15
eSignature Date

Matrices: Soil
 Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

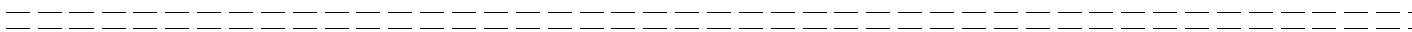
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



31-Jan-2014

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

Re: **WPX GV 41-34 Backgrounds 1.23.14**

Work Order: **1401965**

Dear Mark,

ALS Environmental received 3 samples on 24-Jan-2014 12:15 PM for the analyses presented in the following report.

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

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

The total number of pages in this report is 15.

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

Sincerely,

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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Backgrounds 1.23.14
Work Order: 1401965

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>
1401965-01	GV 41-34-B-1	Soil		1/23/2014 14:30	1/24/2014 12:15	<input type="checkbox"/>
1401965-02	GV 41-34-B-2	Soil		1/23/2014 14:35	1/24/2014 12:15	<input type="checkbox"/>
1401965-03	GV 41-34-B-3	Soil		1/23/2014 14:40	1/24/2014 12:15	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Backgrounds 1.23.14
Work Order: 1401965

Case Narrative

Batch 55264 MS/MSD data for Arsenic is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Backgrounds 1.23.14
WorkOrder: 1401965

**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 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
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

ALS Group USA, Corp

Date: 31-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Backgrounds 1.23.14
Sample ID: GV 41-34-B-1
Collection Date: 1/23/2014 02:30 PM

Work Order: 1401965
Lab ID: 1401965-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 1/27/2014	Analyst: RH
Arsenic	8.5		2.1	mg/Kg-dry	5	1/27/2014 10:05 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	23		0.050	% of sample	1	1/27/2014 09:20 AM

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

ALS Group USA, Corp

Date: 31-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Backgrounds 1.23.14
Sample ID: GV 41-34-B-2
Collection Date: 1/23/2014 02:35 PM

Work Order: 1401965
Lab ID: 1401965-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 1/27/2014	Analyst: RH
Arsenic	7.1		2.1	mg/Kg-dry	5	1/27/2014 10:10 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	8.9		0.050	% of sample	1	1/27/2014 09:20 AM

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

ALS Group USA, Corp

Date: 31-Jan-14

Client: HRL Compliance Solutions
Project: WPX GV 41-34 Backgrounds 1.23.14
Sample ID: GV 41-34-B-3
Collection Date: 1/23/2014 02:40 PM

Work Order: 1401965
Lab ID: 1401965-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS						
Arsenic	8.7		SW6020A 2.2	mg/Kg-dry	Prep Date: 1/27/2014 5	Analyst: RH 1/27/2014 10:16 PM
SOLUBLE CATIONS FOR SAR						
Calcium	35		SW6020A 10	mg/L	Prep Date: 1/29/2014 20	Analyst: ML 1/30/2014 12:33 PM
Magnesium	7.4		4.0	mg/L	20	1/30/2014 12:33 PM
Sodium	1,400		4.0	mg/L	20	1/30/2014 12:33 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	57		USDA H60 METHO 0.010	none	Prep Date: 1/29/2014 1	Analyst: RH 1/30/2014
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	6.8		USDA H60 METHO 0.050	mmhos/cm @25	Prep Date: 1/29/2014 10	Analyst: JB 1/30/2014 10:15 AM
MOISTURE						
Moisture	15		A2540 G 0.050	% of sample	1	Analyst: AT 1/27/2014 09:20 AM
PH						
pH	9.2		SW9045D	s.u.	Prep Date: 1/27/2014 1	Analyst: AT 1/27/2014 02:56 PM

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

Client: HRL Compliance Solutions
Work Order: 1401965
Project: WPX GV 41-34 Backgrounds 1.23.14

QC BATCH REPORT

Batch ID: **55264** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-55264-55264				Units: mg/Kg		Analysis Date: 1/27/2014 08:16 PM			
Client ID:		Run ID: ICPMS2_140127A				SeqNo: 2624988		Prep Date: 1/27/2014		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-55264-55264				Units: mg/Kg		Analysis Date: 1/27/2014 08:22 PM			
Client ID:		Run ID: ICPMS2_140127A				SeqNo: 2624993		Prep Date: 1/27/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.581	0.25	5	0	91.6	80-120	0				

MS		Sample ID: 1401931-01BMS				Units: mg/Kg		Analysis Date: 1/27/2014 09:42 PM			
Client ID:		Run ID: ICPMS2_140127A				SeqNo: 2625007		Prep Date: 1/27/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	20.92	1.5	7.485	13.37	101	75-125	0				

MSD		Sample ID: 1401931-01BMSD				Units: mg/Kg		Analysis Date: 1/27/2014 09:48 PM			
Client ID:		Run ID: ICPMS2_140127A				SeqNo: 2625008		Prep Date: 1/27/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	23.13	1.5	7.418	13.37	132	75-125	20.92	10.1	25	S	

The following samples were analyzed in this batch: 1401965-01A 1401965-02A 1401965-03A

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

Client: HRL Compliance Solutions
Work Order: 1401965
Project: WPX GV 41-34 Backgrounds 1.23.14

QC BATCH REPORT

Batch ID: **55335** Instrument ID **SAR** Method: **USDA H60 Method**

DUP	Sample ID: 1401965-03BDUP		Units: none		Analysis Date: 1/30/2014					
Client ID: GV 41-34-B-3	Run ID: SAR_140130A		SeqNo: 2628336		Prep Date: 1/29/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	52.95	0.010	0	0	0		57	7.37	50	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions
Work Order: 1401965
Project: WPX GV 41-34 Backgrounds 1.23.14

QC BATCH REPORT

Batch ID: **55335** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 1401965-03B DUP		Units: mmhos/cm @25°C		Analysis Date: 1/30/2014 10:15 AM					
Client ID: GV 41-34-B-3	Run ID: WETCHEM_140130C		SeqNo: 2627977		Prep Date: 1/29/2014		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	6.31	0.050	0	0	0		6.79	7.33	50	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions
 Work Order: 1401965
 Project: WPX GV 41-34 Backgrounds 1.23.14

QC BATCH REPORT

Batch ID: **R134670** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R134670				Units: % of sample			Analysis Date: 1/27/2014 09:20 AM		
Client ID:	Run ID: MOIST_140127A			SeqNo: 2625193		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-R134670				Units: % of sample			Analysis Date: 1/27/2014 09:20 AM		
Client ID:	Run ID: MOIST_140127A			SeqNo: 2625192		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: 14011012-01C DUP				Units: % of sample			Analysis Date: 1/27/2014 09:20 AM		
Client ID:	Run ID: MOIST_140127A			SeqNo: 2625174		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.4 0.050 0 0 0 0-0 5.32 1.49 20

DUP	Sample ID: 14011012-02C DUP				Units: % of sample			Analysis Date: 1/27/2014 09:20 AM		
Client ID:	Run ID: MOIST_140127A			SeqNo: 2625176		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.43 0.050 0 0 0 0-0 7.69 9.18 20

The following samples were analyzed in this batch: 1401965-01A 1401965-02A 1401965-03A

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

WORKORDER #

1401965

Form 202r8

PROJECT NAME		WPX <i>LV 41-34 Backgrounds</i>		SAMPLER		Reed Wold		DATE		1/23/14		PAGE		1 of 1			
PROJECT No.				SITE ID		<i>LV 41-34</i>		TURNAROUND		<i>Standard</i>		DISPOSAL		<i>By Lab</i> or Return to Client			
COMPANY NAME		HRL Compliance		BILL TO COMPANY		WPX		<i>As Sealed SAR/ELPH</i>									
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		Parachure CO 81635											
PHONE		970-243-3271		PHONE		970-683-2295											
FAX		970-243-3280		FAX													
E-MAIL		<i>mmumby@hrlcomp.com rwold@hrlcomp.com</i>		E-MAIL		<i>Karolina.blaney@wpxenergy.com</i>											
Lab ID		Field ID		Matrix		Sample Date				Sample Time		# Bottles		Pres.		QC	
<i>1</i>		<i>LV 41-34-B-1</i>		<i>SO</i>		<i>1/23/14</i>		<i>2:30</i>		<i>1</i>		<i>8</i>		<i>X</i>			
<i>2</i>		<i>LV 41-34-B-2</i>		<i>↓</i>		<i>↓</i>		<i>2:35</i>		<i>1</i>		<i>8</i>		<i>X</i>			
<i>3</i>		<i>LV 41-34-B-3</i>		<i>↓</i>		<i>↓</i>		<i>2:40</i>		<i>2</i>		<i>8</i>		<i>X X</i>			

*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: <i>2.4°C</i>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	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	<i>Reed Wold</i>	<i>Reed Wold</i>	<i>1/23/14</i>	<i>3:00</i>
RECEIVED BY	<i>W.M.</i>	<i>W.M.</i>	<i>1-23-14</i>	<i>3:00</i>
RELINQUISHED BY	<i>W.M.</i>	<i>W.M.</i>	<i>1-23-14</i>	<i>3:30</i>
RECEIVED BY	<i>Diane F Shaw</i>	<i>Diane F Shaw</i>	<i>1/24/14</i>	<i>12:15</i>
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **24-Jan-14 12:15**

Work Order: **1401965**

Received by: **DS**

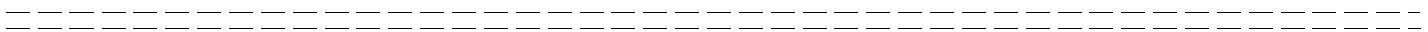
Checklist completed by Diane Shaw 24-Jan-14
eSignature Date

Reviewed by: Ann Preston 24-Jan-14
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):	<input type="text" value="2.4 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="1/24/2014 1:37:54 PM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (970) 424-4749
Lab Hub, LLC
127 E First Street
PARACHUTE, CO 81635

Origin ID: RILA



Ship Date: 23JAN14
ActWgt: 36.0 LB
CAD: 103923490/NET3490
Dims: 25 X 14 X 15 IN

Delivery Address Bar Code



Ref # 1001-012314-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070
Sample receiving
ALS Holland
3352 128TH AVE

BILL RECIPIENT

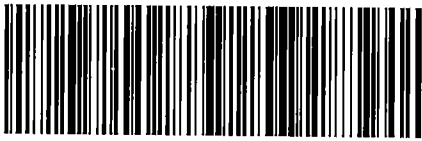
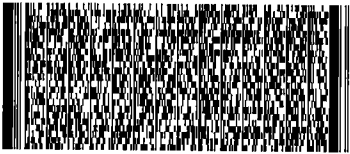
HOLLAND, MI 49424

FRI - 24 JAN AA
STANDARD OVERNIGHT

TRK# 7977 1309 3557
0201

49424
MI-US
GRR

XX GRRR



522G1/D6EC/F220

After printing this label:

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

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

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

