
















Sample Location Map: RMV 229-27

39.493356 -107.883063
Section 27, Township 6 South, Range 94 West

 Sample Location  Excavated Area PLSS  Township  Section	Transportation  CO Highways  County Roads  Local Streets  WPX Access	Hydrography  Ditch  Intermittent Stream  Perennial Stream  Waterbody  Watershed
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Author: B. Hall
 Revision: 0
 Date: 11/4/2014



HRI COMPLIANCE SOLUTIONS, INC.
ENVIRONMENTAL CONSULTANTS

Analytical Results

Contaminant of Concern ↓	COGCC standards	Location →	Bottom 24'	Bottom 40'	South Wall	West Wall	East Wall	North Wall
		Date Sampled	4/3/2014	4/11/2014	4/3/2014	4/3/2014	4/5/2014	4/5/2014
Organic Compounds in Soil								
TPH	500	mg/kg	1,340	83	92	ND	9.6	12
DRO		mg/kg	340	43	12	ND	9.6	12
GRO		mg/kg	1,000	40	80	ND	ND	ND
Benzene	0.17	mg/kg	ND		ND	ND	ND	ND
Toluene	85	mg/kg	1.5		ND	ND	ND	ND
Ethylbenzene	100	mg/kg	1.3		ND	ND	ND	ND
Xylenes (Total)	175	mg/kg	34.0		0.77	ND	ND	ND
Acenaphthene	1,000	mg/kg	ND		ND	ND	ND	ND
Anthracene	1,000	mg/kg	ND		ND	ND	ND	ND
Benzo(A)anthracene	0.22	mg/kg	ND		ND	ND	ND	ND
Benzo(B)fluoranthene	0.22	mg/kg	ND		ND	ND	ND	ND
Benzo(K)fluoranthene	2.2	mg/kg	ND		ND	ND	ND	ND
Benzo(A)pyrene	0.022	mg/kg	ND		ND	ND	ND	ND
Chrysene	22	mg/kg	ND		ND	ND	ND	ND
Dibenzo(A,H)anthracene	0.022	mg/kg	ND		ND	ND	ND	ND
Fluoranthene	1,000	mg/kg	ND		ND	ND	ND	ND
Fluorene	1,000	mg/kg	0.031		ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	ND		ND	ND	ND	ND
Naphthalene	23	mg/kg	0.22		ND	ND	ND	ND
Pyrene	1,000	mg/kg	ND		ND	ND	ND	ND
Inorganics in Soil								
EC	<4 or 2 x background	mmhos/cm	4.4		0.63	2.9	3.8	3.2
SAR	<12		42		7.3	8.4	10	53
pH	6-9		9.3		9	8.9	8.9	9.4
Metals in Soil								
Arsenic	0.39	mg/kg	4		5.5	5	4.6	4.5
Barium total	15,000	mg/kg	190		190	170	130	180
Cadmium	70	mg/kg	ND		ND	ND	ND	ND
Chromium (III)	120,000	mg/kg	18		18	20	20	19
Chromium (VI)	23	mg/kg	ND		ND	ND	ND	ND
Copper	3,100	mg/kg	20		16	20	22	18
Lead	400	mg/kg	8.3		9.2	8	8.6	9.4
Mercury	23	mg/kg	0.017		ND	ND	0.084	ND
Nickel	1,600	mg/kg	39		28	37	45	35
Selenium	390	mg/kg	ND		ND	ND	ND	ND
Silver	390	mg/kg	ND		ND	ND	ND	ND
Zinc	23,000	mg/kg	44		42	42	47	43

Analytical Results

Contaminant of Concern ↓	COGCC standards	Location →	RMV 229-27-B-1	RMV 229-27-B-2	RMV 229-27-B-3
		Date Sampled	4/7/2014	4/7/2014	4/7/2014
Organic Compounds in Soil					
TPH	500	mg/kg			
DRO		mg/kg			
GRO		mg/kg			
Benzene	0.17	mg/kg			
Toluene	85	mg/kg			
Ethylbenzene	100	mg/kg			
Xylenes (Total)	175	mg/kg			
Acenaphthene	1,000	mg/kg			
Anthracene	1,000	mg/kg			
Benzo(A)anthracene	0.22	mg/kg			
Benzo(B)fluoranthene	0.22	mg/kg			
Benzo(K)fluoranthene	2.2	mg/kg			
Benzo(A)pyrene	0.022	mg/kg			
Chrysene	22	mg/kg			
Dibenzo(A,H)anthracene	0.022	mg/kg			
Fluoranthene	1,000	mg/kg			
Fluorene	1,000	mg/kg			
Indeno(1,2,3-cd)pyrene	0.22	mg/kg			
Naphthalene	23	mg/kg			
Pyrene	1,000	mg/kg			
Inorganics in Soil					
EC	<4 or 2 x background	mmhos/cm			0.4
SAR	<12				0.031
pH	6-9				7.7
Metals in Soil					
Arsenic	0.39	mg/kg	3.9	4	4
Barium total	15,000	mg/kg			
Cadmium	70	mg/kg			
Chromium (III)	120,000	mg/kg			
Chromium (VI)	23	mg/kg			
Copper	3,100	mg/kg			
Lead	400	mg/kg			
Mercury	23	mg/kg			
Nickel	1,600	mg/kg			
Selenium	390	mg/kg			
Silver	390	mg/kg			
Zinc	23,000	mg/kg			

Analytical Results

Contaminant of Concern ↓	COGCC standards	Location →	Landfarm Batch 1	Landfarm Batch 2	Landfarm Batch 3	Landfarm Batch 4	Landfarm Batch 5	Landfarm Batch 6
		Date Sampled	4/22/2014	5/7/2014	6/18/2014	7/1/2014	8/27/2014	9/19/2014
Organic Compounds in Soil								
TPH	500	mg/kg	320	244	215	46	41	205
DRO		mg/kg	170	160	140	46	41	150
GRO		mg/kg	150	84	75	ND	ND	55
Benzene	0.17	mg/kg	ND	ND	ND	ND	ND	ND
Toluene	85	mg/kg	0.26	ND	ND	ND	ND	ND
Ethylbenzene	100	mg/kg	ND	ND	ND	ND	ND	ND
Xylenes (Total)	175	mg/kg	ND	0.1	ND	ND	ND	ND
Acenaphthene	1,000	mg/kg	ND	ND	ND	ND	ND	ND
Anthracene	1,000	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(A)anthracene	0.22	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	0.22	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	2.2	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(A)pyrene	0.022	mg/kg	ND	ND	ND	ND	ND	ND
Chrysene	22	mg/kg	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	0.022	mg/kg	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	mg/kg	ND	ND	ND	ND	ND	ND
Fluorene	1,000	mg/kg	ND	0.022	ND	ND	ND	0.016
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	ND	ND	ND	ND	ND	ND
Naphthalene	23	mg/kg	ND	ND	ND	ND	ND	ND
Pyrene	1,000	mg/kg	ND	ND	ND	ND	ND	ND
Inorganics in Soil								
EC	<4 or 2 x background	mmhos/cm	5.8	3	5	3.8	4.4	2
SAR	<12		21	29	33	26	29	15
pH	6-9		9.1	9.1	9	8.8	9.3	8.9
Metals in Soil								
Arsenic	0.39	mg/kg	4.5	4.2	5	4.1	4.4	4.8
Barium total	15,000	mg/kg	250	460	280	210	200	200
Cadmium	70	mg/kg	ND	ND	ND	ND	ND	ND
Chromium (III)	120,000	mg/kg	16	20	20	17	16	19
Chromium (VI)	23	mg/kg	ND	ND	ND	ND	ND	ND
Copper	3,100	mg/kg	16	20	19	16	17	19
Lead	400	mg/kg	8.8	12	9.5	8.1	7.9	8.9
Mercury	23	mg/kg	0.026	0.018	0.027	0.026	0.022	0.02
Nickel	1,600	mg/kg	29	37	37	30	34	35
Selenium	390	mg/kg	ND	2.3	ND	ND	ND	3
Silver	390	mg/kg	ND	ND	ND	ND	ND	ND
Zinc	23,000	mg/kg	40	56	45	40	38	43



09-Apr-2014

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

Re: **WPX RMV 229-27 Condensate Leak 4.3.14**

Work Order: **1404247**

Dear Mark,

ALS Environmental received 3 samples on 04-Apr-2014 10:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 27.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental The ALS logo, a small blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Work Order: 1404247

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>
1404247-01	Bottom 24 ft	Soil		4/3/2014 15:30	4/4/2014 10:30	<input type="checkbox"/>
1404247-02	South Wall	Soil		4/3/2014 15:40	4/4/2014 10:30	<input type="checkbox"/>
1404247-03	West Wall	Soil		4/3/2014 10:00	4/4/2014 10:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Work Order: 1404247

Case Narrative

Batch 57232 sample 1404247-01 was run at a dilution for Volatiles due to high concentrations of target and non target analytes.

Batch 57252 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 57259 sample Bottom 24 ft MS/MSD recoveries for Hexavalent Chromium were below the control limit. The corresponding result in the parent sample may be biased low.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

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

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

ALS Group USA, Corp

Date: 09-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Sample ID: Bottom 24 ft
Collection Date: 4/3/2014 03:30 PM

Work Order: 1404247
Lab ID: 1404247-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	340		SW8015M		Prep: SW3541 / 4/4/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	70.2		4.9	mg/Kg-dry	1	4/8/2014 03:25 PM
			39-115	%REC	1	4/8/2014 03:25 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	1,000		SW8015		Prep: SW5035 / 4/4/14	Analyst: IT
<i>Surr: Toluene-d8</i>	113		3.0	mg/Kg-dry	1	4/4/2014 05:27 PM
			50-150	%REC	1	4/4/2014 05:27 PM
MERCURY BY CVAA						
Mercury	0.017	J	SW7471		Prep: SW7471 / 4/4/14	Analyst: LR
			0.017	mg/Kg-dry	1	4/4/2014 07:14 PM
METALS BY ICP-MS						
Arsenic	4.0		SW6020A		Prep: SW3050B / 4/4/14	Analyst: ML
			2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Barium	190		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Cadmium	ND		0.85	mg/Kg-dry	5	4/5/2014 02:09 PM
Chromium	18		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Copper	20		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Lead	8.3		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Nickel	39		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Selenium	ND		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Silver	ND		2.1	mg/Kg-dry	5	4/5/2014 02:09 PM
Zinc	44		4.2	mg/Kg-dry	5	4/5/2014 02:09 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/8/14	Analyst: RH
Calcium	ND		10	mg/L	20	4/8/2014 06:32 PM
Magnesium	12		4.0	mg/L	20	4/8/2014 06:32 PM
Sodium	840		4.0	mg/L	20	4/8/2014 06:32 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/8/14	Analyst: RH
Sodium Adsorption Ratio	42		0.010	none	1	4/8/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/4/14	Analyst: RM
Acenaphthene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Acenaphthylene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Anthracene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Chrysene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM

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

ALS Group USA, Corp

Date: 09-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Sample ID: Bottom 24 ft
Collection Date: 4/3/2014 03:30 PM

Work Order: 1404247
Lab ID: 1404247-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Fluoranthene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Fluorene	31		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Naphthalene	220		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Pyrene	ND		7.8	µg/Kg-dry	1	4/7/2014 08:19 PM
Surr: 2-Fluorobiphenyl	71.7		12-100	%REC	1	4/7/2014 08:19 PM
Surr: 4-Terphenyl-d14	93.7		25-137	%REC	1	4/7/2014 08:19 PM
Surr: Nitrobenzene-d5	98.8		37-107	%REC	1	4/7/2014 08:19 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/4/14		Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	4/4/2014 07:38 PM
Ethylbenzene	1,300		36	µg/Kg-dry	1	4/4/2014 07:38 PM
m,p-Xylene	29,000		360	µg/Kg-dry	5	4/7/2014 06:56 PM
o-Xylene	4,100		36	µg/Kg-dry	1	4/4/2014 07:38 PM
Toluene	1,500		36	µg/Kg-dry	1	4/4/2014 07:38 PM
Xylenes, Total	34,000		540	µg/Kg-dry	5	4/7/2014 06:56 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	5	4/7/2014 06:56 PM
Surr: 1,2-Dichloroethane-d4	93.1		70-130	%REC	1	4/4/2014 07:38 PM
Surr: 4-Bromofluorobenzene	98.0		70-130	%REC	5	4/7/2014 06:56 PM
Surr: 4-Bromofluorobenzene	95.6		70-130	%REC	1	4/4/2014 07:38 PM
Surr: Dibromofluoromethane	95.0		70-130	%REC	1	4/4/2014 07:38 PM
Surr: Dibromofluoromethane	101		70-130	%REC	5	4/7/2014 06:56 PM
Surr: Toluene-d8	123		70-130	%REC	1	4/4/2014 07:38 PM
Surr: Toluene-d8	97.4		70-130	%REC	5	4/7/2014 06:56 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/8/14		Analyst: MELB
Electrical Conductivity @ Saturation	4.4		0.050	mmhos/cm @25	10	4/8/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	18		0.60	mg/Kg-dry	1	4/7/2014 07:00 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/4/14		Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	4/7/2014 04:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	4/4/2014 04:17 PM
PH			SW9045D	Prep: EXTRACT / 4/4/14		Analyst: AT
pH	9.3			s.u.	1	4/4/2014 04:00 PM

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

ALS Group USA, Corp

Date: 09-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Sample ID: South Wall
Collection Date: 4/3/2014 03:40 PM

Work Order: 1404247
Lab ID: 1404247-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/4/14	Analyst: IT
DRO (C10-C28)	12		5.0	mg/Kg-dry	1	4/8/2014 03:54 PM
Surr: 4-Terphenyl-d14	55.2		39-115	%REC	1	4/8/2014 03:54 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 4/4/14	Analyst: IT
GRO (C6-C10)	80		3.0	mg/Kg-dry	1	4/4/2014 05:53 PM
Surr: Toluene-d8	121		50-150	%REC	1	4/4/2014 05:53 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 4/4/14	Analyst: LR
Mercury	ND		0.016	mg/Kg-dry	1	4/4/2014 07:17 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 4/4/14	Analyst: ML
Arsenic	5.5		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Barium	190		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Cadmium	ND		0.83	mg/Kg-dry	5	4/5/2014 02:33 PM
Chromium	19		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Copper	16		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Lead	9.2		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Nickel	28		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Selenium	ND		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Silver	ND		2.1	mg/Kg-dry	5	4/5/2014 02:33 PM
Zinc	42		4.1	mg/Kg-dry	5	4/5/2014 02:33 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/8/14	Analyst: RH
Calcium	ND		10	mg/L	20	4/8/2014 06:55 PM
Magnesium	8.4		4.0	mg/L	20	4/8/2014 06:55 PM
Sodium	120		4.0	mg/L	20	4/8/2014 06:55 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/8/14	Analyst: RH
Sodium Adsorption Ratio	7.3		0.010	none	1	4/8/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/4/14	Analyst: RM
Acenaphthene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Acenaphthylene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Anthracene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Benzo(a)anthracene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Benzo(a)pyrene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Benzo(b)fluoranthene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Benzo(g,h,i)perylene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Benzo(k)fluoranthene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Chrysene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM

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

ALS Group USA, Corp

Date: 09-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Sample ID: South Wall
Collection Date: 4/3/2014 03:40 PM

Work Order: 1404247
Lab ID: 1404247-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Fluoranthene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Fluorene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Indeno(1,2,3-cd)pyrene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Naphthalene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Pyrene	ND		8.0	µg/Kg-dry	1	4/7/2014 08:41 PM
Surr: 2-Fluorobiphenyl	60.6		12-100	%REC	1	4/7/2014 08:41 PM
Surr: 4-Terphenyl-d14	84.5		25-137	%REC	1	4/7/2014 08:41 PM
Surr: Nitrobenzene-d5	73.6		37-107	%REC	1	4/7/2014 08:41 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/4/14		Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	4/7/2014 06:30 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	4/7/2014 06:30 PM
m,p-Xylene	600		72	µg/Kg-dry	1	4/7/2014 06:30 PM
o-Xylene	170		36	µg/Kg-dry	1	4/7/2014 06:30 PM
Toluene	ND		36	µg/Kg-dry	1	4/7/2014 06:30 PM
Xylenes, Total	770		110	µg/Kg-dry	1	4/7/2014 06:30 PM
Surr: 1,2-Dichloroethane-d4	108		70-130	%REC	1	4/7/2014 06:30 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	4/7/2014 06:30 PM
Surr: Dibromofluoromethane	102		70-130	%REC	1	4/7/2014 06:30 PM
Surr: Toluene-d8	95.8		70-130	%REC	1	4/7/2014 06:30 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/8/14		Analyst: MELB
Electrical Conductivity @ Saturation	0.63		0.050	mmhos/cm @25	10	4/8/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	18		0.60	mg/Kg-dry	1	4/7/2014 07:00 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/4/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	4/7/2014 04:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	4/4/2014 04:17 PM
PH			SW9045D	Prep: EXTRACT / 4/4/14		Analyst: AT
pH	9.0			s.u.	1	4/4/2014 04:00 PM

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

ALS Group USA, Corp

Date: 09-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Sample ID: West Wall
Collection Date: 4/3/2014 10:00 AM

Work Order: 1404247
Lab ID: 1404247-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/4/14	Analyst: IT
DRO (C10-C28)	ND		4.8	mg/Kg-dry	1	4/8/2014 04:24 PM
Surr: 4-Terphenyl-d14	55.0		39-115	%REC	1	4/8/2014 04:24 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 4/4/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	4/4/2014 06:18 PM
Surr: Toluene-d8	123		50-150	%REC	1	4/4/2014 06:18 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 4/4/14	Analyst: LR
Mercury	ND		0.016	mg/Kg-dry	1	4/4/2014 07:19 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 4/4/14	Analyst: ML
Arsenic	5.0		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Barium	170		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Cadmium	ND		0.84	mg/Kg-dry	5	4/5/2014 02:39 PM
Chromium	20		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Copper	20		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Lead	8.0		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Nickel	37		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Selenium	ND		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Silver	ND		2.1	mg/Kg-dry	5	4/5/2014 02:39 PM
Zinc	42		4.2	mg/Kg-dry	5	4/5/2014 02:39 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/8/14	Analyst: RH
Calcium	23		10	mg/L	20	4/8/2014 07:01 PM
Magnesium	80		4.0	mg/L	20	4/8/2014 07:01 PM
Sodium	380		4.0	mg/L	20	4/8/2014 07:01 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/8/14	Analyst: RH
Sodium Adsorption Ratio	8.4		0.010	none	1	4/8/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/4/14	Analyst: RM
Acenaphthene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Anthracene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Chrysene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM

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

ALS Group USA, Corp

Date: 09-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.3.14
Sample ID: West Wall
Collection Date: 4/3/2014 10:00 AM

Work Order: 1404247
Lab ID: 1404247-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Fluoranthene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Fluorene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Naphthalene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Pyrene	ND		7.7	µg/Kg-dry	1	4/7/2014 09:02 PM
Surr: 2-Fluorobiphenyl	57.9		12-100	%REC	1	4/7/2014 09:02 PM
Surr: 4-Terphenyl-d14	81.2		25-137	%REC	1	4/7/2014 09:02 PM
Surr: Nitrobenzene-d5	69.1		37-107	%REC	1	4/7/2014 09:02 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/4/14	Analyst: AK	
Benzene	ND		35	µg/Kg-dry	1	4/4/2014 08:27 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	4/4/2014 08:27 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	4/4/2014 08:27 PM
o-Xylene	ND		35	µg/Kg-dry	1	4/4/2014 08:27 PM
Toluene	ND		35	µg/Kg-dry	1	4/4/2014 08:27 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/4/2014 08:27 PM
Surr: 1,2-Dichloroethane-d4	94.2		70-130	%REC	1	4/4/2014 08:27 PM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	4/4/2014 08:27 PM
Surr: Dibromofluoromethane	93.4		70-130	%REC	1	4/4/2014 08:27 PM
Surr: Toluene-d8	98.4		70-130	%REC	1	4/4/2014 08:27 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/8/14	Analyst: MELB	
Electrical Conductivity @ Saturation	2.9		0.050	mmhos/cm @25	10	4/8/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	20		0.58	mg/Kg-dry	1	4/7/2014 07:00 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/4/14	Analyst: MB	
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	4/7/2014 04:00 PM
MOISTURE			A2540 G	Analyst: AT		
Moisture	14		0.050	% of sample	1	4/4/2014 04:17 PM
PH			SW9045D	Prep: EXTRACT / 4/4/14	Analyst: AT	
pH	8.9			s.u.	1	4/4/2014 04:00 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1404247

Project: WPX RMV 229-27 Condensate Leak 4.3.14

Batch ID: 57250

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-57250-57250				Units: mg/Kg		Analysis Date: 4/8/2014 01:25 PM		
Client ID:		Run ID: GC8_140408A				SeqNo: 2703191		Prep Date: 4/4/2014		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								
Surr: 4-Terphenyl-d14	1.18	0	1.667	0	70.8	39-115	0			

LCS		Sample ID: DLCSS1-57250-57250				Units: mg/Kg		Analysis Date: 4/8/2014 01:55 PM		
Client ID:		Run ID: GC8_140408A				SeqNo: 2703192		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	144.7	4.2	166.7	0	86.8	49-124	0			
Surr: 4-Terphenyl-d14	1.254	0	1.667	0	75.3	39-115	0			

MS		Sample ID: 1404247-01B MS				Units: mg/Kg		Analysis Date: 4/8/2014 02:25 PM		
Client ID: Bottom 24 ft		Run ID: GC8_140408A				SeqNo: 2703193		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	524.1	8.1	326	279.2	75.1	49-130	0			
Surr: 4-Terphenyl-d14	2.19	0	3.26	0	67.2	39-115	0			

MSD		Sample ID: 1404247-01B MSD				Units: mg/Kg		Analysis Date: 4/8/2014 02:55 PM		
Client ID: Bottom 24 ft		Run ID: GC8_140408A				SeqNo: 2703194		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	515.9	8.1	322.5	279.2	73.4	49-130	524.1	1.58	30	
Surr: 4-Terphenyl-d14	2.188	0	3.225	0	67.8	39-115	2.19	0.105	30	

The following samples were analyzed in this batch: 1404247-01B 1404247-02B 1404247-03B

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57233** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-57233-57233				Units: µg/Kg		Analysis Date: 4/4/2014 01:40 PM		
Client ID:		Run ID: GC9_140404A				SeqNo: 2700453		Prep Date: 4/4/2014		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>	5390	0	5000	0	108	50-150	0			

LCS		Sample ID: LCS-57233-57233				Units: µg/Kg		Analysis Date: 4/4/2014 12:24 PM		
Client ID:		Run ID: GC9_140404A				SeqNo: 2700450		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	477400	2,500	500000	0	95.5	70-130	0			
<i>Surr: Toluene-d8</i>	4128	0	5000	0	82.6	50-150	0			

MS		Sample ID: 1404247-03A MS				Units: µg/Kg		Analysis Date: 4/4/2014 08:26 PM		
Client ID: West Wall		Run ID: GC9_140404A				SeqNo: 2700464		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	611200	2,500	500000	0	122	70-130	0			
<i>Surr: Toluene-d8</i>	4940	0	5000	0	98.8	50-150	0			

MSD		Sample ID: 1404247-03A MSD				Units: µg/Kg		Analysis Date: 4/4/2014 08:51 PM		
Client ID: West Wall		Run ID: GC9_140404A				SeqNo: 2700465		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	588500	2,500	500000	0	118	70-130	611200	3.78	30	
<i>Surr: Toluene-d8</i>	4452	0	5000	0	89	50-150	4940	10.4	30	

The following samples were analyzed in this batch:

1404247-01A	1404247-02A	1404247-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57255** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-57255-57255				Units: mg/Kg		Analysis Date: 4/4/2014 06:25 PM		
Client ID:		Run ID: HG1_140404A				SeqNo: 2700295		Prep Date: 4/4/2014		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-57255-57255				Units: mg/Kg		Analysis Date: 4/4/2014 06:27 PM		
Client ID:		Run ID: HG1_140404A				SeqNo: 2700296		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1799 0.020 0.1665 0 108 80-120 0

MS		Sample ID: 1404202-01BMS				Units: mg/Kg		Analysis Date: 4/4/2014 06:31 PM		
Client ID:		Run ID: HG1_140404A				SeqNo: 2700298		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1654 0.015 0.1236 0.03233 108 75-125 0

MSD		Sample ID: 1404202-01BMSD				Units: mg/Kg		Analysis Date: 4/4/2014 06:34 PM		
Client ID:		Run ID: HG1_140404A				SeqNo: 2700299		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1627 0.014 0.1173 0.03233 111 75-125 0.1654 1.67 35

The following samples were analyzed in this batch:

1404247-01B	1404247-02B	1404247-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57252** Instrument ID **ICPMS1** Method: **SW6020A**

Sample ID: MBLK-57252-57252				Units: mg/Kg			Analysis Date: 4/5/2014 10:55 AM			
Client ID:		Run ID: ICPMS1_140404A			SeqNo: 2701054		Prep Date: 4/4/2014		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	ND	0.25								
Zinc	ND	0.50								

LCS				Sample ID: LCS-57252-57252				Units: mg/Kg			Analysis Date: 4/5/2014 11:01 AM			
Client ID:				Run ID: ICPMS1_140404A				SeqNo: 2701056			Prep Date: 4/4/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	6.185	0.34	6.868	0	90	80-120	0							
Barium	6.312	0.34	6.868	0	91.9	80-120	0							
Cadmium	6.245	0.14	6.868	0	90.9	80-120	0							
Chromium	6.345	0.34	6.868	0	92.4	80-120	0							
Copper	6.439	0.34	6.868	0	93.8	80-120	0							
Lead	6.338	0.34	6.868	0	92.3	80-120	0							
Nickel	6.319	0.34	6.868	0	92	80-120	0							
Selenium	5.8	0.34	6.868	0	84.4	80-120	0							
Silver	6.081	0.34	6.868	0	88.5	80-120	0							
Zinc	6.211	0.69	6.868	0	90.4	80-120	0							

MS					Sample ID: 1404130-10CMS			Units: mg/Kg		Analysis Date: 4/5/2014 11:55 AM		
Client ID:			Run ID: ICPMS1_140404A			SeqNo: 2701065		Prep Date: 4/4/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	9.296	1.7	6.868	3.86	79.1	75-125	0					
Barium	108.9	1.7	6.868	179.3	-1020	75-125	0			SO		
Cadmium	6.528	0.69	6.868	0.2909	90.8	75-125	0					
Chromium	22.08	1.7	6.868	12.58	138	75-125	0			S		
Copper	18.41	1.7	6.868	12.27	89.4	75-125	0					
Lead	13.91	1.7	6.868	10.06	56	75-125	0			S		
Nickel	22.98	1.7	6.868	17.69	77.1	75-125	0					
Selenium	7.136	1.7	6.868	1.136	87.4	75-125	0					
Silver	6.016	1.7	6.868	0.03976	87	75-125	0					
Zinc	58.34	3.4	6.868	48.22	147	75-125	0			SO		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57252** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1404130-10CMSD				Units: mg/Kg		Analysis Date: 4/5/2014 12:01 PM		
Client ID:		Run ID: ICPMS1_140404A				SeqNo: 2701066		Prep Date: 4/4/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.56	1.8	7.072	3.86	109	75-125	9.296	21.7	25	
Barium	223.8	1.8	7.072	179.3	630	75-125	108.9	69.1	25	SRO
Cadmium	7.73	0.71	7.072	0.2909	105	75-125	6.528	16.9	25	
Chromium	25.55	1.8	7.072	12.58	183	75-125	22.08	14.6	25	S
Copper	21.97	1.8	7.072	12.27	137	75-125	18.41	17.6	25	S
Lead	17.71	1.8	7.072	10.06	108	75-125	13.91	24	25	
Nickel	27.05	1.8	7.072	17.69	132	75-125	22.98	16.3	25	S
Selenium	7.705	1.8	7.072	1.136	92.9	75-125	7.136	7.67	25	
Silver	6.952	1.8	7.072	0.03976	97.7	75-125	6.016	14.4	25	
Zinc	67.79	3.5	7.072	48.22	277	75-125	58.34	15	25	SO

The following samples were analyzed in this batch: 1404247-01B 1404247-02B 1404247-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57304** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1404207-02CDUP				Units: mg/L		Analysis Date: 4/8/2014 06:15 PM		
Client ID:		Run ID: ICPMS2_140408B				SeqNo: 2703292		Prep Date: 4/8/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	309.8	10	0	0	0	0-0	339.6	9.18		
Magnesium	70.42	4.0	0	0	0	0-0	77.56	9.65		
Sodium	208.6	4.0	0	0	0	0-0	221	5.77		

DUP		Sample ID: 1404207-02CDUP				Units: none		Analysis Date: 4/8/2014		
Client ID:		Run ID: SAR_140408A				SeqNo: 2703339		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	2.783	0.010	0	0	0			0		

The following samples were analyzed in this batch: | 1404247-01C 1404247-02C 1404247-03C |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57235** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-57235-57235				Units: µg/Kg		Analysis Date: 4/7/2014 01:42 PM		
Client ID:		Run ID: SVMS8_140407A				SeqNo: 2703004		Prep Date: 4/4/2014		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>	1240	0	1667	0	74.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1719	0	1667	0	103	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1390	0	1667	0	83.4	37-107	0			

LCS		Sample ID: SLCSS1-57235-57235				Units: µg/Kg		Analysis Date: 4/7/2014 02:04 PM		
Client ID:		Run ID: SVMS8_140407A				SeqNo: 2703005		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	472.7	6.7	666.7	0	70.9	45-110	0			
Acenaphthylene	516.7	6.7	666.7	0	77.5	45-105	0			
Anthracene	551.7	6.7	666.7	0	82.7	55-105	0			
Benzo(a)anthracene	516.7	6.7	666.7	0	77.5	50-110	0			
Benzo(a)pyrene	549	6.7	666.7	0	82.3	50-110	0			
Benzo(b)fluoranthene	566	6.7	666.7	0	84.9	45-115	0			
Benzo(g,h,i)perylene	599.7	6.7	666.7	0	89.9	40-125	0			
Benzo(k)fluoranthene	591	6.7	666.7	0	88.6	45-115	0			
Chrysene	580.7	6.7	666.7	0	87.1	55-110	0			
Dibenzo(a,h)anthracene	573.7	6.7	666.7	0	86	40-125	0			
Fluoranthene	513.3	6.7	666.7	0	77	55-115	0			
Fluorene	476.7	6.7	666.7	0	71.5	50-110	0			
Indeno(1,2,3-cd)pyrene	449	6.7	666.7	0	67.3	40-120	0			
Naphthalene	446.3	6.7	666.7	0	66.9	40-105	0			
Pyrene	677.3	6.7	666.7	0	102	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1210	0	1667	0	72.6	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1717	0	1667	0	103	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1432	0	1667	0	85.9	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57235** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 1404202-01B MS			Units: µg/Kg		Analysis Date: 4/7/2014 06:30 PM	
Client ID:		Run ID: SVMS8_140407A			SeqNo: 2703127		Prep Date: 4/4/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	922.6	13	1312	0	70.3	45-110	0			
Acenaphthylene	1076	13	1312	0	81.9	45-105	0			
Anthracene	1154	13	1312	0	87.9	55-105	0			
Benzo(a)anthracene	1190	13	1312	0	90.6	50-110	0			
Benzo(a)pyrene	1208	13	1312	0	92	50-110	0			
Benzo(b)fluoranthene	1180	13	1312	0	89.9	45-115	0			
Benzo(g,h,i)perylene	1361	13	1312	0	104	40-125	0			
Benzo(k)fluoranthene	1124	13	1312	0	85.6	45-115	0			
Chrysene	1123	13	1312	0	85.5	55-110	0			
Dibenzo(a,h)anthracene	1315	13	1312	0	100	40-125	0			
Fluoranthene	1070	13	1312	0	81.5	55-115	0			
Fluorene	1014	13	1312	0	77.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1216	13	1312	0	92.6	40-120	0			
Naphthalene	969.9	13	1312	0	73.9	40-105	0			
Pyrene	1274	13	1312	0	97	45-125	0			
Surr: 2-Fluorobiphenyl	2456	0	3281	0	74.8	12-100	0			
Surr: 4-Terphenyl-d14	3149	0	3281	0	96	25-137	0			
Surr: Nitrobenzene-d5	3042	0	3281	0	92.7	37-107	0			

MSD				Sample ID: 1404202-01B MSD			Units: µg/Kg		Analysis Date: 4/7/2014 06:52 PM	
Client ID:		Run ID: SVMS8_140407A			SeqNo: 2703128		Prep Date: 4/4/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	916.6	13	1312	0	69.8	45-110	922.6	0.655	30	
Acenaphthylene	1078	13	1312	0	82.1	45-105	1076	0.231	30	
Anthracene	1190	13	1312	0	90.7	55-105	1154	3.07	30	
Benzo(a)anthracene	1206	13	1312	0	91.9	50-110	1190	1.36	30	
Benzo(a)pyrene	1223	13	1312	0	93.2	50-110	1208	1.23	30	
Benzo(b)fluoranthene	1256	13	1312	0	95.7	45-115	1180	6.29	30	
Benzo(g,h,i)perylene	1354	13	1312	0	103	40-125	1361	0.496	30	
Benzo(k)fluoranthene	1163	13	1312	0	88.6	45-115	1124	3.43	30	
Chrysene	1178	13	1312	0	89.8	55-110	1123	4.83	30	
Dibenzo(a,h)anthracene	1336	13	1312	0	102	40-125	1315	1.57	30	
Fluoranthene	1172	13	1312	0	89.3	55-115	1070	9.06	30	
Fluorene	1020	13	1312	0	77.7	50-110	1014	0.632	30	
Indeno(1,2,3-cd)pyrene	1208	13	1312	0	92	40-120	1216	0.663	30	
Naphthalene	1007	13	1312	0	76.7	40-105	969.9	3.77	30	
Pyrene	1358	13	1312	0	103	45-125	1274	6.42	30	
Surr: 2-Fluorobiphenyl	2511	0	3281	0	76.5	12-100	2456	2.23	40	
Surr: 4-Terphenyl-d14	3271	0	3281	0	99.7	25-137	3149	3.79	40	
Surr: Nitrobenzene-d5	2968	0	3281	0	90.5	37-107	3042	2.44	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57235** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1404247-01B	1404247-02B	1404247-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57232** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-57232-57232				Units: µg/Kg		Analysis Date: 4/5/2014 01:08 AM		
Client ID:		Run ID: VMS6_140404A				SeqNo: 2701171		Prep Date: 4/4/2014		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>1012</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>968</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>914</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>91.4</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1000</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-57232-57232				Units: µg/Kg		Analysis Date: 4/4/2014 11:48 PM		
Client ID:		Run ID: VMS6_140404A				SeqNo: 2701170		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1168	30	1000	0	117	75-125	0			
Ethylbenzene	1182	30	1000	0	118	75-125	0			
m,p-Xylene	2158	60	2000	0	108	80-125	0			
o-Xylene	1157	30	1000	0	116	75-125	0			
Toluene	1183	30	1000	0	118	70-125	0			
Xylenes, Total	3315	90	3000	0	110	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1002</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1000</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1018</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>988</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>0</i>			

The following samples were analyzed in this batch:

1404247-01A	1404247-02A	1404247-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57251** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-57251-57251					Units: s.u.			Analysis Date: 4/4/2014 04:00 PM				
Client ID:					Run ID: WETCHEM_140404D					SeqNo: 2699708			Prep Date: 4/4/2014			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: 1404207-01B DUP					Units: s.u.			Analysis Date: 4/4/2014 04:00 PM		
Client ID:				Run ID: WETCHEM_140404D				SeqNo: 2699710			Prep Date: 4/4/2014			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		7.82	0	0	0	0	0-0	0							

The following samples were analyzed in this batch:

1404247-01B	1404247-02B	1404247-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57259** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-57259-57259				Units: mg/Kg		Analysis Date: 4/7/2014 04:00 PM		
Client ID:		Run ID: WETCHEM_140407P				SeqNo: 2701797		Prep Date: 4/4/2014		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-57259-57259				Units: mg/Kg		Analysis Date: 4/7/2014 04:00 PM		
Client ID:		Run ID: WETCHEM_140407P				SeqNo: 2701796		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.96 0.50 2 0 98 80-120 0

MS		Sample ID: 1404247-01B MS				Units: mg/Kg		Analysis Date: 4/7/2014 04:00 PM		
Client ID: Bottom 24 ft		Run ID: WETCHEM_140407P				SeqNo: 2701790		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.5976 0.50 1.992 0.01992 29 75-125 0 S

MS		Sample ID: 1404247-01B MSI				Units: mg/Kg		Analysis Date: 4/7/2014 04:00 PM		
Client ID: Bottom 24 ft		Run ID: WETCHEM_140407P				SeqNo: 2701792		Prep Date: 4/4/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 547.6 50 823.7 0.01992 66.5 75-125 0 S

MSD		Sample ID: 1404247-01B MSD				Units: mg/Kg		Analysis Date: 4/7/2014 04:00 PM		
Client ID: Bottom 24 ft		Run ID: WETCHEM_140407P				SeqNo: 2701791		Prep Date: 4/4/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.3543 0.49 1.969 0.01992 17 75-125 0.5976 0 20 JS

The following samples were analyzed in this batch:

1404247-01B	1404247-02B	1404247-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **57304** Instrument ID **WETCHEM** Method: **USDA H60 Method**

MBLK		Sample ID: WBLKW1-140408-57304				Units: mmhos/cm @25°C		Analysis Date: 4/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140408E				SeqNo: 2702926		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Electrical Conductivity @ Saturation ND 0.0050

DUP		Sample ID: 1404207-02C DUP				Units: mmhos/cm @25°C		Analysis Date: 4/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140408E				SeqNo: 2702931		Prep Date: 4/8/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Electrical Conductivity @ Saturation 3.56 0.050 0 0 0 3.78 5.99 50

LCS1		Sample ID: WLCS1W1-140408-57304				Units: mmhos/cm @25°C		Analysis Date: 4/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140408E				SeqNo: 2702927		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Electrical Conductivity @ Saturation 0.01383 0.0050 0.0149 0 92.8 85-107 0

LCS2		Sample ID: WLCS2W1-140408-57304				Units: mmhos/cm @25°C		Analysis Date: 4/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140408E				SeqNo: 2702937		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Electrical Conductivity @ Saturation 0.592 0.0050 0.592 0 100 85-107 0

The following samples were analyzed in this batch:

1404247-01C	1404247-02C	1404247-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404247
Project: WPX RMV 229-27 Condensate Leak 4.3.14

QC BATCH REPORT

Batch ID: **R138474** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R138474				Units: % of sample		Analysis Date: 4/4/2014 04:17 PM		
Client ID:		Run ID: MOIST_140404C				SeqNo: 2701276		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-R138474				Units: % of sample		Analysis Date: 4/4/2014 04:17 PM		
Client ID:		Run ID: MOIST_140404C				SeqNo: 2701275		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: 1404265-01A DUP				Units: % of sample		Analysis Date: 4/4/2014 04:17 PM		
Client ID:		Run ID: MOIST_140404C				SeqNo: 2701260		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.58 0.050 0 0 0 0-0 13.28 9.33 20

DUP		Sample ID: 1404265-07A DUP				Units: % of sample		Analysis Date: 4/4/2014 04:17 PM		
Client ID:		Run ID: MOIST_140404C				SeqNo: 2701271		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.95 0.050 0 0 0 0-0 16.86 6.26 20

The following samples were analyzed in this batch:

1404247-01B	1404247-02B	1404247-03B
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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 #

1404247

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME WPX RMV 229-27

SAMPLER Reed Wold

DATE

4/13/14

SITE ID

RMV 229-27

TURNAROUND

24HR

PROJECT No.

Random Site 1 call

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HCSI

BILL TO COMPANY

WPX

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

Karolina Blaney

ADDRESS

2385 F1/2 Rd

ADDRESS

CITY / STATE / ZIP

Grand Junction CO 81506

CITY / STATE / ZIP

PHONE

970-243-3271

PHONE

FAX

970-243-3280

FAX

E-MAIL

Mmumby@hrlcomp.com
rwold@hrlcomp.com

E-MAIL

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

Bottom 24 Ft

SO

4/13/14

3:30

3

8

2

South Wall

3:40

3

West Wall

10:00

BTX/L20
DRG/PAH/Metals
SAR/EC/PH

*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:

See Attached Table for Analytical Method

24 HR on Hydrocarbons, Please.

4.2°C
JP

QC PACKAGE (check below)

X

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms + raw data)

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

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Reed Wold

Reed Wold

4/13/14

3:30

RECEIVED BY

N. Martin

N. Martin

4-3-14

3:30

RELINQUISHED BY

W. M.

W. M.

4-3-14

7:45

RECEIVED BY

K. L. W. R. E. N. A.

K. L. W. R. E. N. A.

4/4/14

1030

RELINQUISHED BY

RECEIVED BY

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **04-Apr-14 10:30**

Work Order: **1404247**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

04-Apr-14
Date

Reviewed by: Ann Preston
eSignature

07-Apr-14
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>4.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/4/2014 12:45:49 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



11-Apr-2014

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

Re: **WPX RMV 229-27 Condensate Leak 4.5.14**

Work Order: **1404369**

Dear Mark,

ALS Environmental received 2 samples on 08-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 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

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Environmental The ALS logo, a small blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.5.14
Work Order: 1404369

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>
1404369-01	East Wall	Soil		4/5/2014 14:00	4/8/2014 10:00	<input type="checkbox"/>
1404369-02	North Wall	Soil		4/5/2014 14:10	4/8/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.5.14
Work Order: 1404369

Case Narrative

Batch 57334 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 57360 MS/MSD data for Metals 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-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.5.14
Sample ID: East Wall
Collection Date: 4/5/2014 02:00 PM

Work Order: 1404369
Lab ID: 1404369-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/8/14	Analyst: IT
DRO (C10-C28)	9.6		4.8	mg/Kg-dry	1	4/9/2014 02:51 AM
Surr: 4-Terphenyl-d14	68.3		39-115	%REC	1	4/9/2014 02:51 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 4/8/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	4/8/2014 05:29 PM
Surr: Toluene-d8	94.8		50-150	%REC	1	4/8/2014 05:29 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 4/9/14	Analyst: LR
Mercury	0.084		0.016	mg/Kg-dry	1	4/9/2014 03:38 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 4/9/14	Analyst: ML
Arsenic	4.6		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Barium	130		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Cadmium	ND		0.89	mg/Kg-dry	5	4/9/2014 01:25 PM
Chromium	21		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Copper	22		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Lead	8.6		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Nickel	45		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Selenium	ND		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Silver	ND		2.2	mg/Kg-dry	5	4/9/2014 01:25 PM
Zinc	47		4.4	mg/Kg-dry	5	4/9/2014 01:25 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/10/14	Analyst: RH
Calcium	31		10	mg/L	20	4/11/2014 03:06 AM
Magnesium	89		4.0	mg/L	20	4/11/2014 03:06 AM
Sodium	510		4.0	mg/L	20	4/11/2014 03:06 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/10/14	Analyst: RH
Sodium Adsorption Ratio	10		0.010	none	1	4/10/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/8/14	Analyst: HL
Acenaphthene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Anthracene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Chrysene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM

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

ALS Group USA, Corp

Date: 11-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.5.14
Sample ID: East Wall
Collection Date: 4/5/2014 02:00 PM

Work Order: 1404369
Lab ID: 1404369-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Fluorene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Pyrene	ND		7.6	µg/Kg-dry	1	4/9/2014 01:21 PM
Surr: 2-Fluorobiphenyl	67.9		12-100	%REC	1	4/9/2014 01:21 PM
Surr: 4-Terphenyl-d14	91.9		25-137	%REC	1	4/9/2014 01:21 PM
Surr: Nitrobenzene-d5	81.6		37-107	%REC	1	4/9/2014 01:21 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/8/14		Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	4/8/2014 06:07 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	4/8/2014 06:07 PM
m,p-Xylene	110		69	µg/Kg-dry	1	4/8/2014 06:07 PM
o-Xylene	ND		35	µg/Kg-dry	1	4/8/2014 06:07 PM
Toluene	ND		35	µg/Kg-dry	1	4/8/2014 06:07 PM
Xylenes, Total	110		100	µg/Kg-dry	1	4/8/2014 06:07 PM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	1	4/8/2014 06:07 PM
Surr: 4-Bromofluorobenzene	92.7		70-130	%REC	1	4/8/2014 06:07 PM
Surr: Dibromofluoromethane	98.0		70-130	%REC	1	4/8/2014 06:07 PM
Surr: Toluene-d8	99.0		70-130	%REC	1	4/8/2014 06:07 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/10/14		Analyst: JB
Electrical Conductivity @ Saturation	3.8		0.050	mmhos/cm @25	10	4/10/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	20		0.58	mg/Kg-dry	1	4/11/2014 10:22 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/9/14		Analyst: MB
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	4/10/2014 09:00 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	4/8/2014 02:49 PM
PH			SW9045D	Prep: EXTRACT / 4/8/14		Analyst: AT
pH	8.9			s.u.	1	4/8/2014 05:04 PM

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

ALS Group USA, Corp

Date: 11-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.5.14
Sample ID: North Wall
Collection Date: 4/5/2014 02:10 PM

Work Order: 1404369
Lab ID: 1404369-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	12		SW8015M		Prep: SW3541 / 4/8/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>57.4</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	<i>4/9/2014 03:21 AM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 4/8/14	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>121</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	<i>4/8/2014 05:55 PM</i>
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep: SW7471 / 4/9/14	Analyst: LR
METALS BY ICP-MS						
Arsenic	4.5		SW6020A		Prep: SW3050B / 4/9/14	Analyst: ML
Barium	180					
Cadmium	ND					
Chromium	19					
Copper	18					
Lead	9.4					
Nickel	35					
Selenium	ND					
Silver	ND					
Zinc	43					
SOLUBLE CATIONS FOR SAR						
Calcium	ND		SW6020A		Prep: USDA Method 20B / 4/10/14	Analyst: RH
Magnesium	ND					
Sodium	660					
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	53		USDA H60 METHO		Prep: USDA Method 20B / 4/10/14	Analyst: RH
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep: SW3541 / 4/8/14	Analyst: HL
Acenaphthylene	ND					
Anthracene	ND					
Benzo(a)anthracene	ND					
Benzo(a)pyrene	ND					
Benzo(b)fluoranthene	ND					
Benzo(g,h,i)perylene	ND					
Benzo(k)fluoranthene	ND					
Chrysene	ND					

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

ALS Group USA, Corp

Date: 11-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Leak 4.5.14
Sample ID: North Wall
Collection Date: 4/5/2014 02:10 PM

Work Order: 1404369
Lab ID: 1404369-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.3	µg/Kg-dry	1	4/9/2014 01:54 PM
Fluoranthene	ND		7.3	µg/Kg-dry	1	4/9/2014 01:54 PM
Fluorene	ND		7.3	µg/Kg-dry	1	4/9/2014 01:54 PM
Indeno(1,2,3-cd)pyrene	ND		7.3	µg/Kg-dry	1	4/9/2014 01:54 PM
Naphthalene	ND		7.3	µg/Kg-dry	1	4/9/2014 01:54 PM
Pyrene	ND		7.3	µg/Kg-dry	1	4/9/2014 01:54 PM
Surr: 2-Fluorobiphenyl	66.4		12-100	%REC	1	4/9/2014 01:54 PM
Surr: 4-Terphenyl-d14	84.9		25-137	%REC	1	4/9/2014 01:54 PM
Surr: Nitrobenzene-d5	79.3		37-107	%REC	1	4/9/2014 01:54 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/8/14		Analyst: RS
Benzene	ND		33	µg/Kg-dry	1	4/8/2014 06:32 PM
Ethylbenzene	ND		33	µg/Kg-dry	1	4/8/2014 06:32 PM
m,p-Xylene	ND		67	µg/Kg-dry	1	4/8/2014 06:32 PM
o-Xylene	ND		33	µg/Kg-dry	1	4/8/2014 06:32 PM
Toluene	ND		33	µg/Kg-dry	1	4/8/2014 06:32 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/8/2014 06:32 PM
Surr: 1,2-Dichloroethane-d4	106		70-130	%REC	1	4/8/2014 06:32 PM
Surr: 4-Bromofluorobenzene	92.8		70-130	%REC	1	4/8/2014 06:32 PM
Surr: Dibromofluoromethane	98.9		70-130	%REC	1	4/8/2014 06:32 PM
Surr: Toluene-d8	99.6		70-130	%REC	1	4/8/2014 06:32 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/10/14		Analyst: JB
Electrical Conductivity @ Saturation	3.2		0.050	mmhos/cm @25	10	4/10/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	19		0.56	mg/Kg-dry	1	4/11/2014 10:22 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/9/14		Analyst: MB
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	4/10/2014 09:00 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	10		0.050	% of sample	1	4/8/2014 02:49 PM
PH			SW9045D	Prep: EXTRACT / 4/8/14		Analyst: AT
pH	9.4			s.u.	1	4/8/2014 05:04 PM

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

ALS Group USA, Corp

Date: 11-Apr-14

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1404369

Project: WPX RMV 229-27 Condensate Leak 4.5.14

Batch ID: **57334**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-57334-57334				Units: mg/Kg		Analysis Date: 4/9/2014 12:22 PM		
Client ID:		Run ID: GC8_140408A				SeqNo: 2703591		Prep Date: 4/8/2014		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								
Surr: 4-Terphenyl-d14	1.163	0	1.667	0	69.8	39-115	0			

LCS		Sample ID: DLCSS1-57334-57334				Units: mg/Kg		Analysis Date: 4/9/2014 12:52 PM		
Client ID:		Run ID: GC8_140408A				SeqNo: 2703592		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	150.5	4.2	166.7	0	90.3	49-124	0			
Surr: 4-Terphenyl-d14	1.296	0	1.667	0	77.8	39-115	0			

MS		Sample ID: 1404203-01B MS				Units: mg/Kg		Analysis Date: 4/9/2014 01:22 AM		
Client ID:		Run ID: GC8_140408A				SeqNo: 2703581		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	845.9	8.0	321.3	599.3	76.8	49-130	0			
Surr: 4-Terphenyl-d14	8.982	0	3.213	0	280	39-115	0			S

MSD		Sample ID: 1404203-01B MSD				Units: mg/Kg		Analysis Date: 4/9/2014 01:52 AM		
Client ID:		Run ID: GC8_140408A				SeqNo: 2703582		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1077	8.0	319.9	599.3	149	49-130	845.9	24	30	S
Surr: 4-Terphenyl-d14	11.27	0	3.199	0	352	39-115	8.982	22.6	30	S

The following samples were analyzed in this batch:

1404369-01B

1404369-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57349** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-57349-57349				Units: µg/Kg		Analysis Date: 4/8/2014 04:36 PM		
Client ID:		Run ID: GC9_140408A				SeqNo: 2703542		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	<i>4948</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>99</i>	<i>50-150</i>	<i>0</i>			

LCS		Sample ID: LCS-57349-57349				Units: µg/Kg		Analysis Date: 4/8/2014 04:10 PM		
Client ID:		Run ID: GC9_140408A				SeqNo: 2703541		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	530100	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	<i>4818</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>96.4</i>	<i>50-150</i>	<i>0</i>			

MS		Sample ID: 1404252-01A MS				Units: µg/Kg		Analysis Date: 4/8/2014 08:31 PM		
Client ID:		Run ID: GC9_140408A				SeqNo: 2703551		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	541600	2,500	500000	0	108	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5508</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>110</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1404252-01A MSD				Units: µg/Kg		Analysis Date: 4/8/2014 08:57 PM		
Client ID:		Run ID: GC9_140408A				SeqNo: 2703552		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	531200	2,500	500000	0	106	70-130	541600	1.93	30	
<i>Surr: Toluene-d8</i>	<i>4748</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>95</i>	<i>50-150</i>	<i>5508</i>	<i>14.8</i>	<i>30</i>	

The following samples were analyzed in this batch:

1404369-01A	1404369-02A
-------------	-------------

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57363** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-57363-57363				Units: mg/Kg		Analysis Date: 4/9/2014 03:33 PM		
Client ID:		Run ID: HG1_140409A				SeqNo: 2705297		Prep Date: 4/9/2014		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-57363-57363				Units: mg/Kg		Analysis Date: 4/9/2014 04:06 PM		
Client ID:		Run ID: HG1_140409A				SeqNo: 2705310		Prep Date: 4/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1746 0.020 0.1665 0 105 80-120 0

MS		Sample ID: 1404371-04BMS				Units: mg/Kg		Analysis Date: 4/9/2014 03:52 PM		
Client ID:		Run ID: HG1_140409A				SeqNo: 2705305		Prep Date: 4/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1384 0.014 0.1148 0.01134 111 75-125 0

MSD		Sample ID: 1404371-04BMSD				Units: mg/Kg		Analysis Date: 4/9/2014 03:54 PM		
Client ID:		Run ID: HG1_140409A				SeqNo: 2705306		Prep Date: 4/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1493 0.014 0.1201 0.01134 115 75-125 0.1384 7.57 35

The following samples were analyzed in this batch:

1404369-01B 1404369-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57360** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK				Sample ID: MBLK-57360-57360				Units: mg/Kg		Analysis Date: 4/9/2014 12:05 PM		
Client ID:			Run ID: ICPMS1_140408A			SeqNo: 2704593		Prep Date: 4/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	ND	0.25										
Barium	ND	0.25										
Cadmium	ND	0.10										
Chromium	ND	0.25										
Copper	ND	0.25										
Lead	ND	0.25										
Nickel	ND	0.25										
Selenium	ND	0.25										
Silver	ND	0.25										
Zinc	ND	0.50										

LCS				Sample ID: LCS-57360-57360				Units: mg/Kg			Analysis Date: 4/9/2014 12:11 PM			
Client ID:				Run ID: ICPMS1_140408A				SeqNo: 2704594			Prep Date: 4/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	4.404	0.25	5	0	88.1	80-120	0							
Barium	4.638	0.25	5	0	92.8	80-120	0							
Cadmium	4.63	0.10	5	0	92.6	80-120	0							
Chromium	4.554	0.25	5	0	91.1	80-120	0							
Copper	4.596	0.25	5	0	91.9	80-120	0							
Lead	4.663	0.25	5	0	93.3	80-120	0							
Nickel	4.451	0.25	5	0	89	80-120	0							
Selenium	4.329	0.25	5	0	86.6	80-120	0							
Silver	4.502	0.25	5	0	90	80-120	0							
Zinc	4.524	0.50	5	0	90.5	80-120	0							

MS					Sample ID: 1404321-01AMS			Units: mg/Kg		Analysis Date: 4/9/2014 12:43 PM		
Client ID:			Run ID: ICPMS1_140408A			SeqNo: 2704599		Prep Date: 4/9/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	10.86	1.8	7.112	4.782	85.5	75-125	0					
Barium	94.77	1.8	7.112	77.95	237	75-125	0			SO		
Cadmium	7.187	0.71	7.112	0.1449	99	75-125	0					
Chromium	22.62	1.8	7.112	11.86	151	75-125	0			S		
Copper	17.14	1.8	7.112	9.116	113	75-125	0					
Lead	21.42	1.8	7.112	15.23	87	75-125	0					
Nickel	19.95	1.8	7.112	10.42	134	75-125	0			S		
Selenium	8.009	1.8	7.112	0.9607	99.1	75-125	0					
Silver	6.867	1.8	7.112	0.03715	96	75-125	0					
Zinc	44.74	3.6	7.112	32.26	175	75-125	0			SO		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57360** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1404321-01AMSD				Units: mg/Kg		Analysis Date: 4/9/2014 12:49 PM		
Client ID:		Run ID: ICPMS1_140408A				SeqNo: 2704600		Prep Date: 4/9/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.808	1.8	7.236	4.782	69.5	75-125	10.86	10.2	25	S
Barium	80.1	1.8	7.236	77.95	29.8	75-125	94.77	16.8	25	SO
Cadmium	6.122	0.72	7.236	0.1449	82.6	75-125	7.187	16	25	
Chromium	18.46	1.8	7.236	11.86	91.2	75-125	22.62	20.3	25	
Copper	13.76	1.8	7.236	9.116	64.2	75-125	17.14	21.9	25	S
Lead	18.65	1.8	7.236	15.23	47.3	75-125	21.42	13.8	25	S
Nickel	16.02	1.8	7.236	10.42	77.5	75-125	19.95	21.8	25	
Selenium	6.559	1.8	7.236	0.9607	77.4	75-125	8.009	19.9	25	
Silver	5.705	1.8	7.236	0.03715	78.3	75-125	6.867	18.5	25	
Zinc	37.26	3.6	7.236	32.26	69.1	75-125	44.74	18.2	25	SO

The following samples were analyzed in this batch: 1404369-01B 1404369-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57394** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1404371-05CDUP				Units: mg/L		Analysis Date: 4/11/2014 03:46 AM		
Client ID:		Run ID: ICPMS2_140410A				SeqNo: 2707296		Prep Date: 4/10/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	11.69	10	0	0	0	0-0	11.42	2.32		
Magnesium	3.924	4.0	0	0	0	0-0	3.742	0		J
Sodium	569	4.0	0	0	0	0-0	588.6	3.39		

DUP		Sample ID: 1404371-05CDUP				Units: none		Analysis Date: 4/10/2014		
Client ID:		Run ID: SAR_140410A				SeqNo: 2708488		Prep Date: 4/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	36.77	0.010	0	0	0		38.65	4.98	50	

The following samples were analyzed in this batch: | 1404369-01C 1404369-02C |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57354** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKS1-57354-57354				Units: µg/Kg		Analysis Date: 4/9/2014 12:49 PM		
Client ID:		Run ID: SVMS4_140409A				SeqNo: 2704588		Prep Date: 4/8/2014		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>	1187	0	1667	0	71.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1647	0	1667	0	98.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1387	0	1667	0	83.2	37-107	0			

LCS		Sample ID: SLCSS1-57354-57354				Units: µg/Kg		Analysis Date: 4/9/2014 10:39 AM		
Client ID:		Run ID: SVMS4_140409A				SeqNo: 2704584		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	479.7	6.7	666.7	0	71.9	45-110	0			
Acenaphthylene	469.7	6.7	666.7	0	70.4	45-105	0			
Anthracene	543	6.7	666.7	0	81.4	55-105	0			
Benzo(a)anthracene	523.7	6.7	666.7	0	78.5	50-110	0			
Benzo(a)pyrene	574	6.7	666.7	0	86.1	50-110	0			
Benzo(b)fluoranthene	491.3	6.7	666.7	0	73.7	45-115	0			
Benzo(g,h,i)perylene	489.3	6.7	666.7	0	73.4	40-125	0			
Benzo(k)fluoranthene	657.3	6.7	666.7	0	98.6	45-115	0			
Chrysene	538	6.7	666.7	0	80.7	55-110	0			
Dibenzo(a,h)anthracene	514	6.7	666.7	0	77.1	40-125	0			
Fluoranthene	570.7	6.7	666.7	0	85.6	55-115	0			
Fluorene	516.3	6.7	666.7	0	77.4	50-110	0			
Indeno(1,2,3-cd)pyrene	515	6.7	666.7	0	77.2	40-120	0			
Naphthalene	469.7	6.7	666.7	0	70.4	40-105	0			
Pyrene	523.7	6.7	666.7	0	78.5	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1219	0	1667	0	73.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1555	0	1667	0	93.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1448	0	1667	0	86.9	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57354** Instrument ID **SVMS4** Method: **SW8270**

MS				Sample ID: 1404371-05B MS			Units: µg/Kg		Analysis Date: 4/9/2014 11:11 AM	
Client ID:		Run ID: SVMS4_140409A			SeqNo: 2704585		Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	972.1	13	1321	0	73.6	45-110	0			
Acenaphthylene	959.6	13	1321	0	72.6	45-105	0			
Anthracene	1111	13	1321	0	84.1	55-105	0			
Benzo(a)anthracene	1020	13	1321	0	77.2	50-110	0			
Benzo(a)pyrene	1109	13	1321	0	84	50-110	0			
Benzo(b)fluoranthene	1077	13	1321	0	81.5	45-115	0			
Benzo(g,h,i)perylene	913.4	13	1321	0	69.1	40-125	0			
Benzo(k)fluoranthene	1172	13	1321	0	88.7	45-115	0			
Chrysene	1018	13	1321	0	77.1	55-110	0			
Dibenzo(a,h)anthracene	980.1	13	1321	0	74.2	40-125	0			
Fluoranthene	1111	13	1321	0	84.1	55-115	0			
Fluorene	1107	13	1321	9.376	83.1	50-110	0			
Indeno(1,2,3-cd)pyrene	973.5	13	1321	0	73.7	40-120	0			
Naphthalene	1087	13	1321	22.63	80.6	40-105	0			
Pyrene	1041	13	1321	0	78.8	45-125	0			
Surr: 2-Fluorobiphenyl	2528	0	3302	0	76.6	12-100	0			
Surr: 4-Terphenyl-d14	2962	0	3302	0	89.7	25-137	0			
Surr: Nitrobenzene-d5	3232	0	3302	0	97.9	37-107	0			

MSD				Sample ID: 1404371-05B MSD			Units: µg/Kg		Analysis Date: 4/9/2014 11:44 AM	
Client ID:		Run ID: SVMS4_140409A			SeqNo: 2704586		Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	874.3	13	1285	0	68	45-110	972.1	10.6	30	
Acenaphthylene	864.1	13	1285	0	67.2	45-105	959.6	10.5	30	
Anthracene	1001	13	1285	0	77.9	55-105	1111	10.4	30	
Benzo(a)anthracene	939.2	13	1285	0	73.1	50-110	1020	8.21	30	
Benzo(a)pyrene	1008	13	1285	0	78.4	50-110	1109	9.59	30	
Benzo(b)fluoranthene	978.4	13	1285	0	76.1	45-115	1077	9.61	30	
Benzo(g,h,i)perylene	846.7	13	1285	0	65.9	40-125	913.4	7.57	30	
Benzo(k)fluoranthene	1049	13	1285	0	81.6	45-115	1172	11.1	30	
Chrysene	941.2	13	1285	0	73.2	55-110	1018	7.88	30	
Dibenzo(a,h)anthracene	906.5	13	1285	0	70.5	40-125	980.1	7.8	30	
Fluoranthene	1022	13	1285	0	79.5	55-115	1111	8.38	30	
Fluorene	984.2	13	1285	9.376	75.9	50-110	1107	11.7	30	
Indeno(1,2,3-cd)pyrene	902	13	1285	0	70.2	40-120	973.5	7.62	30	
Naphthalene	947.6	13	1285	22.63	72	40-105	1087	13.7	30	
Pyrene	968.1	13	1285	0	75.3	45-125	1041	7.24	30	
Surr: 2-Fluorobiphenyl	2256	0	3212	0	70.2	12-100	2528	11.4	40	
Surr: 4-Terphenyl-d14	2713	0	3212	0	84.5	25-137	2962	8.78	40	
Surr: Nitrobenzene-d5	2817	0	3212	0	87.7	37-107	3232	13.7	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57354** Instrument ID **SVMS4** Method: **SW8270**

The following samples were analyzed in this batch:

1404369-01B	1404369-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57348** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-57348-57348				Units: µg/Kg			Analysis Date: 4/8/2014 02:28 PM		
Client ID:			Run ID: VMS5_140408A				SeqNo: 2703693			Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	ND	30											
Ethylbenzene	ND	30											
m,p-Xylene	ND	60											
o-Xylene	ND	30											
Toluene	ND	30											
Xylenes, Total	ND	90											
Surr: 1,2-Dichloroethane-d4	964.5	0	1000	0	96.4	70-130		0					
Surr: 4-Bromofluorobenzene	957.5	0	1000	0	95.8	70-130		0					
Surr: Dibromofluoromethane	1016	0	1000	0	102	70-130		0					
Surr: Toluene-d8	1020	0	1000	0	102	70-130		0					

LCS				Sample ID: LCS-57348-57348			Units: µg/Kg		Analysis Date: 4/8/2014 01:12 PM		
Client ID:		Run ID: VMS5_140408A			SeqNo: 2703692		Prep Date: 4/8/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	967.5	30	1000	0	96.8	75-125	0				
Ethylbenzene	952	30	1000	0	95.2	75-125	0				
m,p-Xylene	1884	60	2000	0	94.2	80-125	0				
o-Xylene	939	30	1000	0	93.9	75-125	0				
Toluene	948.5	30	1000	0	94.8	70-125	0				
Xylenes, Total	2822	90	3000	0	94.1	75-125	0				
Surr: 1,2-Dichloroethane-d4	960.5	0	1000	0	96	70-130	0				
Surr: 4-Bromofluorobenzene	968.5	0	1000	0	96.8	70-130	0				
Surr: Dibromofluoromethane	1014	0	1000	0	101	70-130	0				
Surr: Toluene-d8	1014	0	1000	0	101	70-130	0				

MS					Sample ID: 1404369-02A MS			Units: µg/Kg		Analysis Date: 4/8/2014 09:47 PM	
Client ID: North Wall			Run ID: VMS9_140408A			SeqNo: 2703652		Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1092	30	1000	0	109	75-125	0				
Ethylbenzene	983.5	30	1000	0	98.4	75-125	0				
m,p-Xylene	1960	60	2000	0	98	80-125	0				
o-Xylene	969	30	1000	0	96.9	75-125	0				
Toluene	1093	30	1000	0	109	70-125	0				
Xylenes, Total	2928	90	3000	0	97.6	75-125	0				
Surr: 1,2-Dichloroethane-d4	1020	0	1000	0	102	70-130	0				
Surr: 4-Bromofluorobenzene	1031	0	1000	0	103	70-130	0				
Surr: Dibromofluoromethane	972.5	0	1000	0	97.2	70-130	0				
Surr: Toluene-d8	1024	0	1000	0	102	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57348** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 1404369-02A MSD			Units: µg/Kg		Analysis Date: 4/8/2014 10:12 PM		
Client ID: North Wall			Run ID: VMS9_140408A		SeqNo: 2703653		Prep Date: 4/8/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1114	30	1000	0	111	75-125	1092	1.99	30		
Ethylbenzene	980	30	1000	0	98	75-125	983.5	0.357	30		
m,p-Xylene	1999	60	2000	0	100	80-125	1960	2	30		
o-Xylene	997.5	30	1000	0	99.8	75-125	969	2.9	30		
Toluene	1092	30	1000	0	109	70-125	1093	0.137	30		
Xylenes, Total	2996	90	3000	0	99.9	75-125	2928	2.3	30		
Surr: 1,2-Dichloroethane-d4	1016	0	1000	0	102	70-130	1020	0.442	30		
Surr: 4-Bromofluorobenzene	1038	0	1000	0	104	70-130	1031	0.677	30		
Surr: Dibromofluoromethane	967.5	0	1000	0	96.8	70-130	972.5	0.515	30		
Surr: Toluene-d8	1026	0	1000	0	103	70-130	1024	0.195	30		

The following samples were analyzed in this batch: 1404369-01A 1404369-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57356** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-57356-57356					Units: s.u.		Analysis Date: 4/8/2014 05:04 PM		
Client ID:			Run ID: WETCHEM_140408I			SeqNo: 2703174		Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 3.88 0 4 0 97 90-110 0

DUP		Sample ID: 1404321-01A DUP					Units: s.u.		Analysis Date: 4/8/2014 05:04 PM		
Client ID:		Run ID: WETCHEM_140408I			SeqNo: 2703176		Prep Date: 4/8/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 7.41 0 0 0 0 0-0 7.38 0.406 20

DUP		Sample ID: 1404371-03B DUP					Units: s.u.		Analysis Date: 4/8/2014 05:04 PM		
Client ID:		Run ID: WETCHEM_140408I			SeqNo: 2703186		Prep Date: 4/8/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 9.13 0 0 0 0 0-0 9.18 0.546 20

The following samples were analyzed in this batch:

1404369-01B 1404369-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57394** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1404371-05C DUP				Units: mmhos/cm @25°C		Analysis Date: 4/10/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140410F				SeqNo: 2706692		Prep Date: 4/10/2014		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.01	0.25	0	0	0		3.005	0.166	50	

The following samples were analyzed in this batch:

1404369-01C	1404369-02C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **57419** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-57419-57419				Units: mg/Kg		Analysis Date: 4/10/2014 09:00 AM		
Client ID:		Run ID: WETCHEM_140410B				SeqNo: 2705935		Prep Date: 4/9/2014		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-57419-57419				Units: mg/Kg		Analysis Date: 4/10/2014 09:00 AM		
Client ID:		Run ID: WETCHEM_140410B				SeqNo: 2705936		Prep Date: 4/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.748 0.50 2 0 87.4 80-120 0

MS		Sample ID: 1404369-01B MS				Units: mg/Kg		Analysis Date: 4/10/2014 09:00 AM		
Client ID: East Wall		Run ID: WETCHEM_140410B				SeqNo: 2705938		Prep Date: 4/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.755 0.50 2.008 0.2143 76.7 75-125 0

MS		Sample ID: 1404369-01B MSI				Units: mg/Kg		Analysis Date: 4/10/2014 09:00 AM		
Client ID: East Wall		Run ID: WETCHEM_140410B				SeqNo: 2705940		Prep Date: 4/9/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 728.9 49 705.9 0.2143 103 75-125 0

MSD		Sample ID: 1404369-01B MSD				Units: mg/Kg		Analysis Date: 4/10/2014 09:00 AM		
Client ID: East Wall		Run ID: WETCHEM_140410B				SeqNo: 2705939		Prep Date: 4/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.762 0.50 2.016 0.2143 76.8 75-125 1.755 0.402 20

The following samples were analyzed in this batch:

1404369-01B 1404369-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404369
Project: WPX RMV 229-27 Condensate Leak 4.5.14

QC BATCH REPORT

Batch ID: **R138586** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R138586				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703867		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-R138586				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703866		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: 1404292-01A DUP				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703847		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.36 0.050 0 0 0 0-0 19.55 6.28 20

DUP		Sample ID: 1404381-03A DUP				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703861		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.82 0.050 0 0 0 0-0 4.02 5.1 20

The following samples were analyzed in this batch:

1404369-01B 1404369-02B

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 #

1404369

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME WTX RMU 229-27 Conf. Site

SAMPLER Reed Wold

DATE

4/7/14

SITE ID

RMU 229-27

TURNAROUND

24 HR

PROJECT No.

1404

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HCSI

BILL TO COMPANY

SEND REPORT TO Mark Mumby

INVOICE ATTN TO

ADDRESS 2385 F1/2 Rd

ADDRESS

CITY / STATE / ZIP Grand Junction CO 81506

CITY / STATE / ZIP

PHONE 970-243-3271

PHONE

FAX 970-243-3280

FAX

E-MAIL Mmumby@hrlcomp.com
rwold@hrlcomp.com

E-MAIL

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

East Wall

SO

4/5/14

2:00

3

8

2

North Wall

2:10

x x x

x o x

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

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

X	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

See attached Table for Sampling Method

4.6°C

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

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Reed Wold

Reed Wold

4/7/14

3:00

RECEIVED BY

Mark Mumby

Mark Mumby

4-7-14

3:00

RELINQUISHED BY

Mark Mumby

Mark Mumby

4-7-14

17:00

RECEIVED BY

Dr. P. Shaw

Dr. P. Shaw

4/8/14

10:00

RELINQUISHED BY

RECEIVED BY

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **08-Apr-14 10:00**

Work Order: **1404369**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

08-Apr-14
Date

Reviewed by: Ann Preston
eSignature

08-Apr-14
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>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/8/2014 11:15:20 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:

From: (816) 399-6070
 Sample Receiving
 ALS Laboratory Group
 3352 128th Avenue
 Holland, MI 49424

Origin ID: GRRR



Ship Date: 07APR14
 ActWgt: 62.0 LB
 CAD: 2264846/NET3490

Dims: 24 X 15 X 15 IN

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

BILL BENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 040714-4
 Invoice #
 PO #
 Dept #

1 of 2

TUE - 08 APR 10:30A
 PRIORITY OVERNIGHT

TRK# 7984 7203 7521

6281

MASTER

49424

68 GRRR

MI-US
 GRR



522517009F20

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.

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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.

064



15-Apr-2014

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

Re: **WPX RMV 229-27 Condensate Spill 4.11.14**

Work Order: **1404652**

Dear Mark,

ALS Environmental received 1 sample on 12-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 10.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Spill 4.11.14
Work Order: 1404652

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>
1404652-01	Bottom 40 ft	Soil		4/11/2014 12:30	4/12/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Spill 4.11.14
WorkOrder: 1404652

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
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp**Date:** 15-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Condensate Spill 4.11.14
Sample ID: Bottom 40 ft
Collection Date: 4/11/2014 12:30 PM

Work Order: 1404652
Lab ID: 1404652-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	43		SW8015M		Prep: SW3541 / 4/14/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>92.0</i>		<i>39-115</i>	<i>mg/Kg-dry</i>	<i>1</i>	4/14/2014 08:30 PM
				<i>%REC</i>	<i>1</i>	4/14/2014 08:30 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	40		SW8015		Prep: SW5035 / 4/14/14	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>92.6</i>		<i>50-150</i>	<i>mg/Kg-dry</i>	<i>1</i>	4/15/2014 12:30 PM
				<i>%REC</i>	<i>1</i>	4/15/2014 12:30 PM
MOISTURE						
Moisture	15		A2540 G			Analyst: AT
			0.050	% of sample	1	4/14/2014 11:06 AM

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

ALS Group USA, Corp

Date: 15-Apr-14

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1404652

Project: WPX RMV 229-27 Condensate Spill 4.11.14

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								
Surr: 4-Terphenyl-d14	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			
Surr: 4-Terphenyl-d14	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			
Surr: 4-Terphenyl-d14	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	
Surr: 4-Terphenyl-d14	2.657	0	3.225	0	82.4	39-115	2.844	6.8	30	

The following samples were analyzed in this batch: | 1404652-01A |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404652
Project: WPX RMV 229-27 Condensate Spill 4.11.14

QC BATCH REPORT

Batch ID: **57523** Instrument ID **GC9** Method: **SW8015C**

MBLK		Sample ID: MBLK-57523-57523				Units: µg/Kg		Analysis Date: 4/14/2014 04:19 PM		
Client ID:		Run ID: GC9_140414A				SeqNo: 2712412		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
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	5112	0	5000	0	102	50-150	0			

LCS		Sample ID: LCS-57523-57523				Units: µg/Kg		Analysis Date: 4/14/2014 03:02 PM		
Client ID:		Run ID: GC9_140414A				SeqNo: 2712411		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
GRO (C6-C10)	632100	2,500	500000	0	126	70-130	0			
Surr: Toluene-d8	4995	0	5000	0	99.9	50-150	0			

MS		Sample ID: 1404652-01A MS				Units: µg/Kg		Analysis Date: 4/15/2014 01:21 AM		
Client ID: Bottom 40 ft		Run ID: GC9_140414A				SeqNo: 2712441		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
GRO (C6-C10)	507000	2,500	500000	33820	94.6	70-130	0			
Surr: Toluene-d8	4306	0	5000	0	86.1	50-150	0			

MSD		Sample ID: 1404652-01A MSD				Units: µg/Kg		Analysis Date: 4/15/2014 01:47 AM		
Client ID: Bottom 40 ft		Run ID: GC9_140414A				SeqNo: 2712442		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
GRO (C6-C10)	577900	2,500	500000	33820	109	70-130	507000	13.1	30	
Surr: Toluene-d8	5595	0	5000	0	112	50-150	4306	26	30	

The following samples were analyzed in this batch:

1404652-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404652
Project: WPX RMV 229-27 Condensate Spill 4.11.14

QC BATCH REPORT

Batch ID: **R138916** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R138916				Units: % of sample		Analysis Date: 4/14/2014 11:06 AM		
Client ID:		Run ID: MOIST_140414A				SeqNo: 2712777		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-R138916				Units: % of sample		Analysis Date: 4/14/2014 11:06 AM		
Client ID:		Run ID: MOIST_140414A				SeqNo: 2712775		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: 1404633-05B DUP				Units: % of sample		Analysis Date: 4/14/2014 11:06 AM		
Client ID:		Run ID: MOIST_140414A				SeqNo: 2712756		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.96 0.050 0 0 0 0-0 7.52 7.73 20

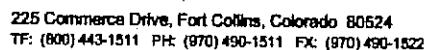
DUP		Sample ID: 1404652-01A DUP				Units: % of sample		Analysis Date: 4/14/2014 11:06 AM		
Client ID: Bottom 40 ft		Run ID: MOIST_140414A				SeqNo: 2712761		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.84 0.050 0 0 0 0-0 14.71 0.88 20

The following samples were analyzed in this batch:

1404652-01A

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



WORKORDER

1404652

Form 2020

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

For metals or anions, please detail analytes below.

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Rand W. D.</i>	<i>Rand W. D.</i>	4/11/14	2:00
RECEIVED BY	<i>N. M. P. K. T. i. n. c.</i>	<i>N. M. P. K. T. i. n. c.</i>	4-11-14	2:00
RELINQUISHED BY	<i>N. M. P. K. T. i. n. c.</i>	<i>N. M. P. K. T. i. n. c.</i>	4-11-14	2:40
RECEIVED BY	<i>10-7-21</i>	<i>Diane F. She</i>	4/12/14	10:00
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 12-Apr-14 10:00

Work Order: 1404652

Received by: DS

Checklist completed by Diane Shaw 12-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):	<u>3.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/12/2014 11:56:04 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:

From: (815) 369-8070
 Sample Receiving
 ALS Laboratory Group
 3352 128th Avenue
 Holland, MI 49424

Origin ID: GRRA



Ship Date: 11APR14
 NetWgt: 45.0 LB
 CAC: 2264840NET3400

Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 041114-1
 Invoice #
 PO #
 Dept #

SHIP TO: (815) 369-8070

BILL SENDER

sample receiving
 ALS Laboratory Group
 3352 128TH AVE

HOLLAND, MI 49424

SATURDAY 12:00P
 PRIORITY OVERNIGHT

TRK# 7985 2968 7203
 GRRA

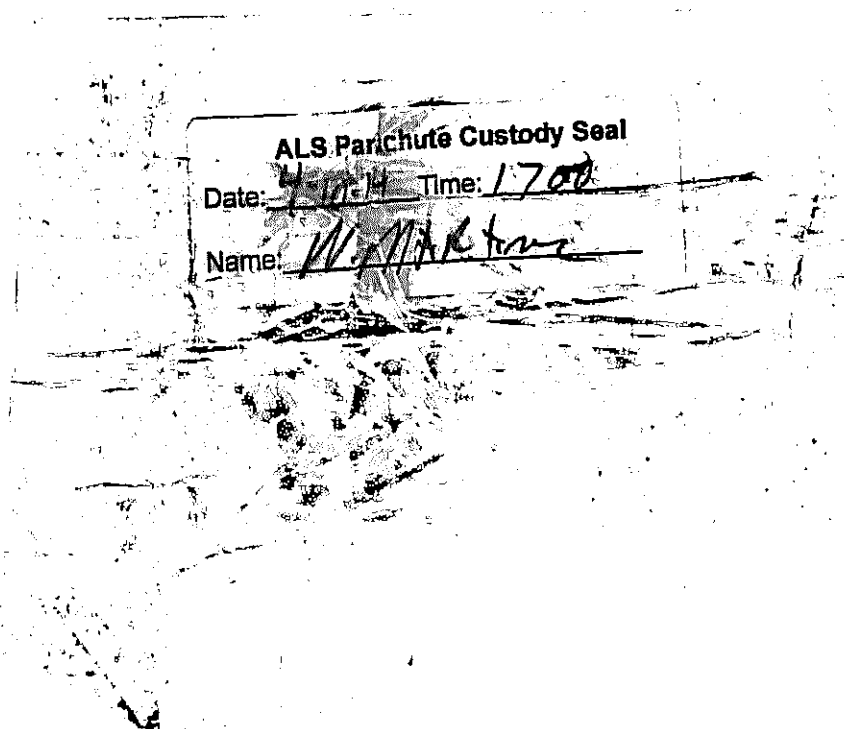
49424
 MI-400
 GRR

68 GRRA



5220 UNDPF220

/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/en/TC_dom.html loading...





15-Apr-2014

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

Re: **WPX RMV 229-27 Backgrounds 4.7.14**

Work Order: **1404379**

Dear Mark,

ALS Environmental received 3 samples on 08-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 14.

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

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Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Backgrounds 4.7.14
Work Order: 1404379

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>
1404379-01	RMV 229-27-B-1	Soil		4/7/2014 10:05	4/8/2014 10:00	<input type="checkbox"/>
1404379-02	RMV 229-27-B-2	Soil		4/7/2014 10:10	4/8/2014 10:00	<input type="checkbox"/>
1404379-03	RMV 229-27-B-3	Soil		4/7/2014 10:15	4/8/2014 10:00	<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

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

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

ALS Group USA, Corp**Date:** 15-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Backgrounds 4.7.14
Sample ID: RMV 229-27-B-1
Collection Date: 4/7/2014 10:05 AM

Work Order: 1404379
Lab ID: 1404379-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/10/14	Analyst: ML
Arsenic	3.9		2.4	mg/Kg-dry	5	4/12/2014 01:33 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	24		0.050	% of sample	1	4/8/2014 02:49 PM

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

ALS Group USA, Corp

Date: 15-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Backgrounds 4.7.14
Sample ID: RMV 229-27-B-2
Collection Date: 4/7/2014 10:10 AM

Work Order: 1404379
Lab ID: 1404379-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/10/14	Analyst: ML
Arsenic	4.0		2.0	mg/Kg-dry	5	4/12/2014 01:39 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	5.6		0.050	% of sample	1	4/8/2014 02:49 PM

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

ALS Group USA, Corp

Date: 15-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Backgrounds 4.7.14
Sample ID: RMV 229-27-B-3
Collection Date: 4/7/2014 10:15 AM

Work Order: 1404379
Lab ID: 1404379-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/10/14	Analyst: ML
Arsenic	4.0		2.0	mg/Kg-dry	5	4/12/2014 01:45 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 4/10/14	Analyst: RH
Calcium	57		10	mg/L	20	4/11/2014 03:51 AM
Magnesium	11		4.0	mg/L	20	4/11/2014 03:51 AM
Sodium	ND		4.0	mg/L	20	4/11/2014 03:51 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 4/10/14	Analyst: RH
Sodium Adsorption Ratio	0.031		0.010	none	1	4/10/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 4/10/14	Analyst: JB
Electrical Conductivity @ Saturation	0.40		0.050	mmhos/cm @25	10	4/10/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	6.0		0.050	% of sample	1	4/8/2014 02:49 PM
PH			SW9045D		Prep: EXTRACT / 4/8/14	Analyst: AT
pH	7.7			s.u.	1	4/8/2014 05:04 PM

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

ALS Group USA, Corp

Date: 15-Apr-14

Client: HRL Compliance Solutions, Inc
Work Order: 1404379
Project: WPX RMV 229-27 Backgrounds 4.7.14

QC BATCH REPORT

Batch ID: **57394** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1404371-05CDUP				Units: mg/L		Analysis Date: 4/11/2014 03:46 AM		
Client ID:		Run ID: ICPMS2_140410A				SeqNo: 2707296		Prep Date: 4/10/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	11.69	10	0	0	0	0-0	11.42	2.32		
Magnesium	3.924	4.0	0	0	0	0-0	3.742	0		J
Sodium	569	4.0	0	0	0	0-0	588.6	3.39		

DUP		Sample ID: 1404371-05CDUP				Units: none		Analysis Date: 4/10/2014		
Client ID:		Run ID: SAR_140410A				SeqNo: 2708488		Prep Date: 4/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	36.77	0.010	0	0	0		38.65	4.98	50	

The following samples were analyzed in this batch:

1404379-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404379
Project: WPX RMV 229-27 Backgrounds 4.7.14

QC BATCH REPORT

Batch ID: **57433** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-57433-57433				Units: mg/Kg		Analysis Date: 4/11/2014 11:00 PM		
Client ID:		Run ID: ICPMS1_140411A				SeqNo: 2709383		Prep Date: 4/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic ND 0.25

LCS		Sample ID: LCS-57433-57433				Units: mg/Kg		Analysis Date: 4/11/2014 11:06 PM		
Client ID:		Run ID: ICPMS1_140411A				SeqNo: 2709384		Prep Date: 4/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 4.427 0.25 5 0 88.5 80-120 0

MS		Sample ID: 1404377-14BMS				Units: mg/Kg		Analysis Date: 4/12/2014 12:58 AM		
Client ID:		Run ID: ICPMS1_140411A				SeqNo: 2709404		Prep Date: 4/10/2014		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 11.14 1.6 7.825 4.635 83.1 75-125 0

MSD		Sample ID: 1404377-14BMSD				Units: mg/Kg		Analysis Date: 4/12/2014 01:04 AM		
Client ID:		Run ID: ICPMS1_140411A				SeqNo: 2709405		Prep Date: 4/10/2014		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 11.71 1.6 8.091 4.635 87.4 75-125 11.14 4.99 25

The following samples were analyzed in this batch:

1404379-01A	1404379-02A	1404379-03A
-------------	-------------	-------------

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404379
Project: WPX RMV 229-27 Backgrounds 4.7.14

QC BATCH REPORT

Batch ID: **57356** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-57356-57356				Units: s.u.		Analysis Date: 4/8/2014 05:04 PM		
Client ID:		Run ID: WETCHEM_140408I				SeqNo: 2703174		Prep Date: 4/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.88 0 4 0 97 90-110 0

DUP				Sample ID: 1404321-01A DUP				Units: s.u.			Analysis Date: 4/8/2014 05:04 PM		
Client ID:				Run ID: WETCHEM_140408I				SeqNo: 2703176		Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 7.41 0 0 0 0 0-0 7.38 0.406 20

DUP		Sample ID: 1404371-03B DUP					Units: s.u.		Analysis Date: 4/8/2014 05:04 PM		
Client ID:			Run ID: WETCHEM_140408I			SeqNo: 2703186		Prep Date: 4/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 9.13 0 0 0 0 0-0 9.18 0.546 20

The following samples were analyzed in this batch: 1404379-03A

Client: HRL Compliance Solutions, Inc
Work Order: 1404379
Project: WPX RMV 229-27 Backgrounds 4.7.14

QC BATCH REPORT

Batch ID: **57394** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1404371-05C DUP				Units: mmhos/cm @25°C		Analysis Date: 4/10/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140410F				SeqNo: 2706692		Prep Date: 4/10/2014		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.01	0.25	0	0	0		3.005	0.166	50	

The following samples were analyzed in this batch:

1404379-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404379
Project: WPX RMV 229-27 Backgrounds 4.7.14

QC BATCH REPORT

Batch ID: **R138586** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R138586				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703867		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-R138586				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703866		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: 1404292-01A DUP				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703847		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.36 0.050 0 0 0 0-0 19.55 6.28 20

DUP		Sample ID: 1404381-03A DUP				Units: % of sample		Analysis Date: 4/8/2014 02:49 PM		
Client ID:		Run ID: MOIST_140408A				SeqNo: 2703861		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.82 0.050 0 0 0 0-0 4.02 5.1 20

The following samples were analyzed in this batch:

1404379-01A	1404379-02A	1404379-03A
-------------	-------------	-------------

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



ALS Laboratory Group

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

Chain-of-Custody

Form 202r6

WORKORDER
#

1404379

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME *WPX RMV 229-27*

SAMPLER Reed Wold

DATE

4/7/14

SITE ID *RMV 229-27*

TURNAROUND

Standard

PROJECT No. *Backgrounds*

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HCSI

BILL TO COMPANY

WPX

SEND REPORT TO Mark Mumby

INVOICE ATTN TO

ADDRESS 2385 F1/2 Rd

ADDRESS

CITY / STATE / ZIP Grand Junction CO 81506

CITY / STATE / ZIP

PHONE 970-243-3271

PHONE

FAX 970-243-3280

FAX

E-MAIL *Mmumby@hrlcomp.com*
rwold@hrlcomp.com

E-MAIL

*Aspen
SAR/ELCPH*

Lab ID

Field ID

Matrix

Sample
Date

Sample
Time

Bottles

Pres.

QC

1 RMV 229-27-B-1
2 RMV 229-27-B-2
3 RMV 229-27-B-3

SO

4/7/14

10:05

1

8

X

10:10

1

8

X

10:15

2

5

X X

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

For metals or anions, please detail analytes below.

Comments:

~~See attached for Analyte Method~~

4.6°C

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

Reed Wold

Reed Wold

4/7/14

3:00

RECEIVED BY

W.A. Arlt

W.A. Arlt

4-7-14

3:30

RELINQUISHED BY

W.A.

W.A.

4-7-14

1450

RECEIVED BY

Diane F. Shaw

Diane F. Shaw

4/8/14

1000

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 08-Apr-14 10:00

Work Order: 1404379

Received by: DS

Checklist completed by Diane Shaw 08-Apr-14
eSignature Date

Reviewed by: Ann Preston 08-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):	<u>4.6 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/8/2014 12:53:27 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

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

Origin ID: GRRA



Ship Date: 07APR14
ActWgt: 74.0 LB
CAD: 2264846/NET3480
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 040714-4
Invoice #
PO #
Dept #

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

BILL SENDER

HOLLAND, MI 49424

2 of 2

TUE -08 APR 10:30A
PRIORITY OVERNIGHT

MP# 7984 7203 7646

Mstr# 7984 7203 7521

49424
MI-US
GRR

68 GRRA



522G178038F220

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.

LR TS 42121



30-Apr-2014

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

Re: **WPX RMV 229-27 Landfarm Batch 1 4.22.14**

Work Order: **14041174**

Dear Mark,

ALS Environmental received 1 sample on 23-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 24.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

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Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14
Work Order: 14041174

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>
14041174-01	Batch 1	Soil		4/22/2014 13:00	4/23/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14
Work Order: 14041174

Case Narrative

Batch 57954 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch 58070 MS/MSD data for Metals 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: 30-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14
Sample ID: Batch 1
Collection Date: 4/22/2014 01:00 PM

Work Order: 14041174
Lab ID: 14041174-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/25/14	Analyst: IT
DRO (C10-C28)	170		4.7	mg/Kg-dry	1	4/28/2014 03:27 PM
Surr: 4-Terphenyl-d14	121		39-133	%REC	1	4/28/2014 03:27 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 4/25/14	Analyst: IT
GRO (C6-C10)	150		2.9	mg/Kg-dry	1	4/25/2014 06:46 PM
Surr: Toluene-d8	116		50-150	%REC	1	4/25/2014 06:46 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 4/29/14	Analyst: LR
Mercury	0.026		0.017	mg/Kg-dry	1	4/29/2014 03:37 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 4/29/14	Analyst: ML
Arsenic	4.5		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Barium	250		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Cadmium	ND		0.92	mg/Kg-dry	5	4/30/2014 01:10 AM
Chromium	17		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Copper	16		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Lead	8.8		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Nickel	29		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Selenium	ND		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Silver	ND		2.3	mg/Kg-dry	5	4/30/2014 01:10 AM
Zinc	40		4.6	mg/Kg-dry	5	4/30/2014 01:10 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/28/14	Analyst: RH
Calcium	26		10	mg/L	20	4/30/2014 07:31 AM
Magnesium	70		4.0	mg/L	20	4/30/2014 07:31 AM
Sodium	890		4.0	mg/L	20	4/30/2014 07:31 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/28/14	Analyst: RH
Sodium Adsorption Ratio	21		0.010	none	1	4/29/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/25/14	Analyst: RM
Acenaphthene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Acenaphthylene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Anthracene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Benzo(a)anthracene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Benzo(a)pyrene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Benzo(b)fluoranthene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Benzo(g,h,i)perylene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Benzo(k)fluoranthene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Chrysene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM

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

ALS Group USA, Corp

Date: 30-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14
Sample ID: Batch 1
Collection Date: 4/22/2014 01:00 PM

Work Order: 14041174
Lab ID: 14041174-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Fluoranthene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Fluorene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Indeno(1,2,3-cd)pyrene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Naphthalene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Pyrene	ND		7.5	µg/Kg-dry	1	4/28/2014 03:45 PM
Surr: 2-Fluorobiphenyl	67.3		12-100	%REC	1	4/28/2014 03:45 PM
Surr: 4-Terphenyl-d14	111		25-137	%REC	1	4/28/2014 03:45 PM
Surr: Nitrobenzene-d5	66.0		37-107	%REC	1	4/28/2014 03:45 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/25/14		Analyst: BG
Benzene	ND		34	µg/Kg-dry	1	4/29/2014 05:47 AM
Ethylbenzene	ND		34	µg/Kg-dry	1	4/29/2014 05:47 AM
m,p-Xylene	160		69	µg/Kg-dry	1	4/29/2014 05:47 AM
o-Xylene	99		34	µg/Kg-dry	1	4/29/2014 05:47 AM
Toluene	ND		34	µg/Kg-dry	1	4/29/2014 05:47 AM
Xylenes, Total	260		100	µg/Kg-dry	1	4/29/2014 05:47 AM
Surr: 1,2-Dichloroethane-d4	93.2		70-130	%REC	1	4/29/2014 05:47 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	4/29/2014 05:47 AM
Surr: Dibromofluoromethane	93.5		70-130	%REC	1	4/29/2014 05:47 AM
Surr: Toluene-d8	102		70-130	%REC	1	4/29/2014 05:47 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/28/14		Analyst: JB
Electrical Conductivity @ Saturation	5.8		0.050	mmhos/cm @25	10	4/29/2014 03:40 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	16		0.57	mg/Kg-dry	1	4/30/2014 04:26 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/25/14		Analyst: JI
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	4/25/2014 12:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	4/23/2014 04:12 PM
PH			SW9045D	Prep: EXTRACT / 4/24/14		Analyst: AT
pH	9.1			s.u.	1	4/24/2014 10:37 AM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14041174

Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

Batch ID: 57977

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-57977-57977				Units: mg/Kg		Analysis Date: 4/28/2014 09:27 AM		
Client ID:		Run ID: GC8_140428A				SeqNo: 2734258		Prep Date: 4/25/2014		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								
Surr: 4-Terphenyl-d14	1.326	0	1.667	0	79.5	39-133	0			

LCS		Sample ID: DLCSS1-57977-57977				Units: mg/Kg		Analysis Date: 4/28/2014 09:57 AM		
Client ID:		Run ID: GC8_140428A				SeqNo: 2734259		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	122.1	4.2	166.7	0	73.3	61-109	0			
Surr: 4-Terphenyl-d14	1.374	0	1.667	0	82.5	39-133	0			

MS		Sample ID: 14041170-01B MS				Units: mg/Kg		Analysis Date: 4/28/2014 10:27 AM		
Client ID:		Run ID: GC8_140428A				SeqNo: 2734261		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	552.2	8.1	324.7	320.4	71.4	48-110	0			
Surr: 4-Terphenyl-d14	2.67	0	3.247	0	82.2	39-133	0			

MSD		Sample ID: 14041170-01B MSD				Units: mg/Kg		Analysis Date: 4/28/2014 10:57 AM		
Client ID:		Run ID: GC8_140428A				SeqNo: 2734263		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	553.8	8.3	331.9	320.4	70.3	48-110	552.2	0.301	30	
Surr: 4-Terphenyl-d14	3.173	0	3.319	0	95.6	39-133	2.67	17.2	30	

The following samples were analyzed in this batch:

14041174-01B

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57976** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-57976-57976				Units: µg/Kg		Analysis Date: 4/25/2014 05:03 PM		
Client ID:		Run ID: GC9_140425A				SeqNo: 2733471		Prep Date: 4/25/2014		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>	4866	0	5000	0	97.3	50-150	0			

LCS		Sample ID: LCS-57976-57976				Units: µg/Kg		Analysis Date: 4/25/2014 03:47 PM		
Client ID:		Run ID: GC9_140425A				SeqNo: 2733470		Prep Date: 4/25/2014		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	0	87.4	70-130	0			
<i>Surr: Toluene-d8</i>	4430	0	5000	0	88.6	50-150	0			

MS		Sample ID: 14041170-01A MS				Units: µg/Kg		Analysis Date: 4/26/2014 12:23 PM		
Client ID:		Run ID: GC9_140425A				SeqNo: 2733486		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	506900	2,500	500000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	4826	0	5000	0	96.5	50-150	0			

MSD		Sample ID: 14041170-01A MSD				Units: µg/Kg		Analysis Date: 4/26/2014 12:49 PM		
Client ID:		Run ID: GC9_140425A				SeqNo: 2733487		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	493100	2,500	500000	0	98.6	70-130	506900	2.76	30	
<i>Surr: Toluene-d8</i>	4780	0	5000	0	95.6	50-150	4826	0.979	30	

The following samples were analyzed in this batch:

14041174-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **58050** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-58050-58050					Units: mg/Kg		Analysis Date: 4/29/2014 02:42 PM		
Client ID:			Run ID: HG1_140429A				SeqNo: 2736814		Prep Date: 4/29/2014		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-58050-58050					Units: mg/Kg		Analysis Date: 4/29/2014 02:44 PM		
Client ID:			Run ID: HG1_140429A			SeqNo: 2736815		Prep Date: 4/29/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1861 0.020 0.1665 0 112 80-120 0

MS		Sample ID: 14041173-01BMS					Units: mg/Kg		Analysis Date: 4/29/2014 03:33 PM		
Client ID:			Run ID: HG1_140429A			SeqNo: 2736841		Prep Date: 4/29/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1353 0.013 0.1097 0.01353 111 75-125 0

MSD		Sample ID: 14041173-01BMSD				Units: mg/Kg		Analysis Date: 4/29/2014 03:35 PM		
Client ID:		Run ID: HG1_140429A			SeqNo: 2736842		Prep Date: 4/29/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1396 0.013 0.1092 0.01353 115 75-125 0.1353 3.11 35

The following samples were analyzed in this batch:

14041174-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57961** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 14041168-01BDUP				Units: mg/L		Analysis Date: 4/30/2014 07:06 AM		
Client ID:		Run ID: ICPMS2_140429A				SeqNo: 2737519		Prep Date: 4/28/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	75.62	10	0	0	0	0-0	77.06	1.89		
Magnesium	5.736	4.0	0	0	0	0-0	6.102	6.18		
Sodium	10.3	4.0	0	0	0	0-0	10.05	2.4		

DUP		Sample ID: 14041168-01BDUP				Units: none		Analysis Date: 4/29/2014		
Client ID:		Run ID: SAR_140429B				SeqNo: 2737880		Prep Date: 4/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.3077	0.010	0	0	0		0.2966	3.68	50	

The following samples were analyzed in this batch:

14041174-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **58070** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-58070-58070				Units: mg/Kg		Analysis Date: 4/29/2014 10:44 PM		
Client ID:		Run ID: ICPMS1_140429A				SeqNo: 2737236		Prep Date: 4/29/2014		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	ND	0.25								
Zinc	0.03112	0.50								J

LCS		Sample ID: LCS-58070-58070				Units: mg/Kg		Analysis Date: 4/29/2014 10:50 PM		
Client ID:		Run ID: ICPMS1_140429A				SeqNo: 2737237		Prep Date: 4/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.471	0.25	5	0	89.4	80-120	0			
Barium	4.77	0.25	5	0	95.4	80-120	0			
Cadmium	4.588	0.10	5	0	91.8	80-120	0			
Chromium	4.666	0.25	5	0	93.3	80-120	0			
Copper	4.572	0.25	5	0	91.4	80-120	0			
Lead	4.83	0.25	5	0	96.6	80-120	0			
Nickel	4.642	0.25	5	0	92.8	80-120	0			
Selenium	4.045	0.25	5	0	80.9	80-120	0			
Silver	4.448	0.25	5	0	89	80-120	0			
Zinc	4.096	0.50	5	0	81.9	80-120	0			

MS		Sample ID: 14041170-01BMS				Units: mg/Kg		Analysis Date: 4/29/2014 11:31 PM		
Client ID:		Run ID: ICPMS1_140429A				SeqNo: 2737245		Prep Date: 4/29/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.17	2.0	8.183	4.179	110	75-125	0			
Barium	336.9	2.0	8.183	346.6	-118	75-125	0			SO
Cadmium	7.958	0.82	8.183	0.1982	94.8	75-125	0			
Chromium	32.82	2.0	8.183	24.07	107	75-125	0			
Copper	18.69	2.0	8.183	10.25	103	75-125	0			
Lead	20.95	2.0	8.183	11.03	121	75-125	0			
Nickel	21.88	2.0	8.183	13.64	101	75-125	0			
Selenium	9.251	2.0	8.183	1.75	91.7	75-125	0			
Silver	6.862	2.0	8.183	0.05732	83.1	75-125	0			
Zinc	49.8	4.1	8.183	39.01	132	75-125	0			SO

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **58070** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14041170-01BMSD				Units: mg/Kg		Analysis Date: 4/29/2014 11:37 PM		
Client ID:		Run ID: ICPMS1_140429A				SeqNo: 2737258		Prep Date: 4/29/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.46	2.1	8.21	4.179	101	75-125	13.17	5.56	25	
Barium	373	2.1	8.21	346.6	322	75-125	336.9	10.2	25	SO
Cadmium	7.976	0.82	8.21	0.1982	94.7	75-125	7.958	0.225	25	
Chromium	32.14	2.1	8.21	24.07	98.2	75-125	32.82	2.09	25	
Copper	17.41	2.1	8.21	10.25	87.2	75-125	18.69	7.07	25	
Lead	19.25	2.1	8.21	11.03	100	75-125	20.95	8.46	25	
Nickel	21.33	2.1	8.21	13.64	93.7	75-125	21.88	2.54	25	
Selenium	8.76	2.1	8.21	1.75	85.4	75-125	9.251	5.45	25	
Silver	6.925	2.1	8.21	0.05732	83.7	75-125	6.862	0.922	25	
Zinc	46.14	4.1	8.21	39.01	86.8	75-125	49.8	7.62	25	O

The following samples were analyzed in this batch:

14041174-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57993** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-57993-57993				Units: µg/Kg		Analysis Date: 4/28/2014 11:10 AM		
Client ID:		Run ID: SVMS8_140428A				SeqNo: 2734528		Prep Date: 4/25/2014		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>	1263	0	1667	0	75.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1919	0	1667	0	115	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1193	0	1667	0	71.6	37-107	0			

LCS		Sample ID: SLCSS1-57993-57993				Units: µg/Kg		Analysis Date: 4/28/2014 11:30 AM		
Client ID:		Run ID: SVMS8_140428A				SeqNo: 2734529		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	464	6.7	666.7	0	69.6	45-110	0			
Acenaphthylene	464	6.7	666.7	0	69.6	45-105	0			
Anthracene	497.3	6.7	666.7	0	74.6	55-105	0			
Benzo(a)anthracene	515.3	6.7	666.7	0	77.3	50-110	0			
Benzo(a)pyrene	511.7	6.7	666.7	0	76.7	50-110	0			
Benzo(b)fluoranthene	536	6.7	666.7	0	80.4	45-115	0			
Benzo(g,h,i)perylene	447	6.7	666.7	0	67	40-125	0			
Benzo(k)fluoranthene	538	6.7	666.7	0	80.7	45-115	0			
Chrysene	554.7	6.7	666.7	0	83.2	55-110	0			
Dibenzo(a,h)anthracene	434	6.7	666.7	0	65.1	40-125	0			
Fluoranthene	518.3	6.7	666.7	0	77.7	55-115	0			
Fluorene	548.3	6.7	666.7	0	82.2	50-110	0			
Indeno(1,2,3-cd)pyrene	432.7	6.7	666.7	0	64.9	40-120	0			
Naphthalene	464	6.7	666.7	0	69.6	40-105	0			
Pyrene	576	6.7	666.7	0	86.4	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1220	0	1667	0	73.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1754	0	1667	0	105	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1211	0	1667	0	72.7	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57993** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 14041288-03B MS				Units: µg/Kg		Analysis Date: 4/28/2014 01:00 PM	
Client ID:			Run ID: SVMS8_140428A			SeqNo: 2734530		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	895.5	13	1269	0	70.6	45-110	0				
Acenaphthylene	903.2	13	1269	0	71.2	45-105	0				
Anthracene	972.9	13	1269	0	76.7	55-105	0				
Benzo(a)anthracene	997	13	1269	0	78.6	50-110	0				
Benzo(a)pyrene	978	13	1269	0	77.1	50-110	0				
Benzo(b)fluoranthene	1043	13	1269	0	82.2	45-115	0				
Benzo(g,h,i)perylene	970.4	13	1269	0	76.5	40-125	0				
Benzo(k)fluoranthene	1029	13	1269	0	81.1	45-115	0				
Chrysene	1095	13	1269	0	86.3	55-110	0				
Dibenzo(a,h)anthracene	904.4	13	1269	0	71.3	40-125	0				
Fluoranthene	986.2	13	1269	0	77.7	55-115	0				
Fluorene	1019	13	1269	0	80.3	50-110	0				
Indeno(1,2,3-cd)pyrene	872.1	13	1269	0	68.7	40-120	0				
Naphthalene	886.7	13	1269	0	69.9	40-105	0				
Pyrene	1162	13	1269	0	91.6	45-125	0				
Surr: 2-Fluorobiphenyl	2294	0	3171	0	72.3	12-100	0				
Surr: 4-Terphenyl-d14	3439	0	3171	0	108	25-137	0				
Surr: Nitrobenzene-d5	2331	0	3171	0	73.5	37-107	0				

MSD				Sample ID: 14041288-03B MSD			Units: µg/Kg		Analysis Date: 4/28/2014 01:21 PM		
Client ID:			Run ID: SVMS8_140428A			SeqNo: 2734531		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	925.2	13	1324	0	69.9	45-110	895.5	3.25	30		
Acenaphthylene	948.3	13	1324	0	71.6	45-105	903.2	4.88	30		
Anthracene	1017	13	1324	0	76.8	55-105	972.9	4.44	30		
Benzo(a)anthracene	1048	13	1324	0	79.1	50-110	997	4.95	30		
Benzo(a)pyrene	1036	13	1324	0	78.3	50-110	978	5.79	30		
Benzo(b)fluoranthene	1047	13	1324	0	79.1	45-115	1043	0.405	30		
Benzo(g,h,i)perylene	1008	13	1324	0	76.1	40-125	970.4	3.79	30		
Benzo(k)fluoranthene	1079	13	1324	0	81.5	45-115	1029	4.8	30		
Chrysene	1123	13	1324	0	84.8	55-110	1095	2.5	30		
Dibenzo(a,h)anthracene	939.1	13	1324	0	70.9	40-125	904.4	3.76	30		
Fluoranthene	1028	13	1324	0	77.6	55-115	986.2	4.12	30		
Fluorene	1069	13	1324	0	80.8	50-110	1019	4.87	30		
Indeno(1,2,3-cd)pyrene	979.4	13	1324	0	74	40-120	872.1	11.6	30		
Naphthalene	949.6	13	1324	0	71.7	40-105	886.7	6.86	30		
Pyrene	1196	13	1324	0	90.3	45-125	1162	2.88	30		
Surr: 2-Fluorobiphenyl	2453	0	3309	0	74.1	12-100	2294	6.7	40		
Surr: 4-Terphenyl-d14	3499	0	3309	0	106	25-137	3439	1.75	40		
Surr: Nitrobenzene-d5	2564	0	3309	0	77.5	37-107	2331	9.54	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57993** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

14041174- 01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57975** Instrument ID **VMS6** Method: **SW8260B**

MBLK				Sample ID: MBLK-57975-57975				Units: µg/Kg			Analysis Date: 4/25/2014 03:04 PM		
Client ID:			Run ID: VMS6_140425A				SeqNo: 2732082			Prep Date: 4/25/2014		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	1008	0	1000	0	101	70-130		0					
Surr: 4-Bromofluorobenzene	989.5	0	1000	0	99	70-130		0					
Surr: Dibromofluoromethane	895	0	1000	0	89.5	70-130		0					
Surr: Toluene-d8	955.5	0	1000	0	95.6	70-130		0					

LCS				Sample ID: LCS-57975-57975			Units: µg/Kg		Analysis Date: 4/25/2014 01:21 PM		
Client ID:		Run ID: VMS6_140425A			SeqNo: 2732081		Prep Date: 4/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	927.5	30	1000	0	92.8	75-125	0				
Ethylbenzene	910.5	30	1000	0	91	75-125	0				
m,p-Xylene	1856	60	2000	0	92.8	80-125	0				
o-Xylene	931.5	30	1000	0	93.2	75-125	0				
Toluene	891.5	30	1000	0	89.2	70-125	0				
Xylenes, Total	2788	90	3000	0	92.9	75-125	0				
Surr: 1,2-Dichloroethane-d4	977.5	0	1000	0	97.8	70-130	0				
Surr: 4-Bromofluorobenzene	983.5	0	1000	0	98.4	70-130	0				
Surr: Dibromofluoromethane	1024	0	1000	0	102	70-130	0				
Surr: Toluene-d8	972	0	1000	0	97.2	70-130	0				

MS				Sample ID: 14041189-01A MS				Units: µg/Kg		Analysis Date: 4/29/2014 09:20 AM	
Client ID:			Run ID: VMS8_140428B			SeqNo: 2736140		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	910.5	30	1000	0	91	75-125	0				
Ethylbenzene	906	30	1000	0	90.6	75-125	0				
m,p-Xylene	1770	60	2000	0	88.5	80-125	0				
o-Xylene	901	30	1000	0	90.1	75-125	0				
Toluene	907	30	1000	0	90.7	70-125	0				
Xylenes, Total	2671	90	3000	0	89	75-125	0				
Surr: 1,2-Dichloroethane-d4	997	0	1000	0	99.7	70-130	0				
Surr: 4-Bromofluorobenzene	992	0	1000	0	99.2	70-130	0				
Surr: Dibromofluoromethane	1005	0	1000	0	100	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: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57975** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 14041189-01A MSD				Units: µg/Kg		Analysis Date: 4/29/2014 09:44 AM	
Client ID:			Run ID: VMS8_140428B			SeqNo: 2736141		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	890	30	1000	0	89	75-125	910.5	2.28	30		
Ethylbenzene	899.5	30	1000	0	90	75-125	906	0.72	30		
m,p-Xylene	1777	60	2000	0	88.8	80-125	1770	0.395	30		
o-Xylene	892.5	30	1000	0	89.2	75-125	901	0.948	30		
Toluene	893.5	30	1000	0	89.4	70-125	907	1.5	30		
Xylenes, Total	2670	90	3000	0	89	75-125	2671	0.0562	30		
Surr: 1,2-Dichloroethane-d4	988.5	0	1000	0	98.8	70-130	997	0.856	30		
Surr: 4-Bromofluorobenzene	1000	0	1000	0	100	70-130	992	0.803	30		
Surr: Dibromofluoromethane	981.5	0	1000	0	98.2	70-130	1005	2.37	30		
Surr: Toluene-d8	1005	0	1000	0	100	70-130	1005	0	30		

The following samples were analyzed in this batch:

14041174-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57924** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-57924-57924					Units: s.u.			Analysis Date: 4/24/2014 10:37 AM				
Client ID:					Run ID: WETCHEM_140424B					SeqNo: 2728570			Prep Date: 4/24/2014			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: 14041143-01B DUP					Units: s.u.		Analysis Date: 4/24/2014 10:37 AM		
Client ID:				Run ID: WETCHEM_140424B				SeqNo: 2728572		Prep Date: 4/24/2014		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		7.89	0	0	0	0	0-0	7.8	1.15	20				

DUP					Sample ID: 14041145-05B DUP					Units: s.u.		Analysis Date: 4/24/2014 10:37 AM		
Client ID:			Run ID: WETCHEM_140424B			SeqNo: 2728582			Prep Date: 4/24/2014			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	7.93	0	0	0	0	0-0	7.86	0.887	20					

The following samples were analyzed in this batch:

14041174-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57954** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-57954-57954				Units: mg/Kg		Analysis Date: 4/25/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140425G				SeqNo: 2730505		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.51

LCS		Sample ID: LCS-57954-57954				Units: mg/Kg		Analysis Date: 4/25/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140425G				SeqNo: 2730506		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.98 0.49 1.969 0 101 80-120 0

MS		Sample ID: 14041170-01BMS				Units: mg/Kg		Analysis Date: 4/25/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140425G				SeqNo: 2730519		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.9633 0.51 2.041 0 47.2 75-125 0 S

MS		Sample ID: 14041170-01BMSI				Units: mg/Kg		Analysis Date: 4/25/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140425G				SeqNo: 2730521		Prep Date: 4/25/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 500.8 50 1229 0 40.7 75-125 0 S

MSD		Sample ID: 14041170-01BMSD				Units: mg/Kg		Analysis Date: 4/25/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140425G				SeqNo: 2730520		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.9516 0.50 2.016 0 47.2 75-125 0.9633 1.22 20 S

The following samples were analyzed in this batch:

14041174-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **57961** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14041168-01B DUP				Units: mmhos/cm @25°C		Analysis Date: 4/29/2014 03:40 PM		
Client ID:		Run ID: WETCHEM_140429M				SeqNo: 2736506		Prep Date: 4/28/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.423	0.050	0	0	0		0.465	9.46	50	

The following samples were analyzed in this batch:

14041174-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041174
Project: WPX RMV 229-27 Landfarm Batch 1 4.22.14

QC BATCH REPORT

Batch ID: **R139500** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R139500				Units: % of sample		Analysis Date: 4/23/2014 04:12 PM		
Client ID:		Run ID: MOIST_140423B				SeqNo: 2728516		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-R139500				Units: % of sample		Analysis Date: 4/23/2014 04:12 PM		
Client ID:		Run ID: MOIST_140423B				SeqNo: 2728515		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: 14041140-09A DUP				Units: % of sample		Analysis Date: 4/23/2014 04:12 PM		
Client ID:		Run ID: MOIST_140423B				SeqNo: 2728501		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 22 0.050 0 0 0 0-0 22.37 1.67 20

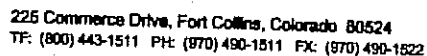
DUP		Sample ID: 14041168-03A DUP				Units: % of sample		Analysis Date: 4/23/2014 04:12 PM		
Client ID:		Run ID: MOIST_140423B				SeqNo: 2728509		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.12 0.050 0 0 0 0-0 12.86 2 20

The following samples were analyzed in this batch:

14041174-01B

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




Form 202-8

[illegible]

*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: center;">  5.0% </div>	QC PACKAGE (check below)	
	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	4/22/14	2:15
RECEIVED BY	<i>[Signature]</i>	N. M. Martin	4-22	2:15
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	4-23	1600
RECEIVED BY	<i>[Signature]</i>	Diane F. Shaw	4/23/14	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 23-Apr-14 10:00

Work Order: 14041174

Received by: DS

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

Reviewed by: Ann Preston 24-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):	<u>5.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/23/2014 4:09:52 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (814) 390-0870
Sample Receiving
ALS Laboratory Group
3352 128th Avenue

Holland, MI 48424

Origin ID: GRRR



Ship Date: 22APR14
Actual: 74.0 LB
CAD: 2264446464NET3400

Dim: 14 X 28 X 15 IN

Delivery Address Bar Code



Ref # 042214-3
Invoice #
PO # Parachute
Dept #

SHIP TO: (814) 390-0870

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 48424

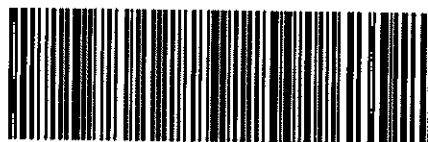
BILL SENDER

WED - 23 APR AA
STANDARD OVERNIGHT

TRK# 7986 2571 6393
SER#

68 GRRR

49424
MI US
GRR



2204100422

After printing this label:

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16-May-2014

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

Re: **WPX RMV 229-27 5.7.14**

Work Order: **1405436**

Dear Mark,

ALS Environmental received 1 sample on 08-May-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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 5.7.14
Work Order: 1405436

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>
1405436-01	Batch 2	Soil		5/7/2014 12:08	5/8/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc**Project:** WPX RMV 229-27 5.7.14**Work Order:** 1405436**Case Narrative**

Batch 58506 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 58523 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch R140517 duplicate data for pH 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: 16-May-14

Client: HRL Compliance Solutions, Inc

Project: WPX RMV 229-27 5.7.14

Sample ID: Batch 2

Collection Date: 5/7/2014 12:08 PM

Work Order: 1405436

Lab ID: 1405436-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	160		SW8015M		Prep: SW3541 / 5/9/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	73.8		4.8	mg/Kg-dry	1	5/12/2014 05:04 PM
			39-133	%REC	1	5/12/2014 05:04 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	84		SW8015		Prep: SW5035 / 5/9/14	Analyst: IT
<i>Surr: Toluene-d8</i>	99.8		2.9	mg/Kg-dry	1	5/12/2014 05:14 PM
			50-150	%REC	1	5/12/2014 05:14 PM
MERCURY BY CVAA						
Mercury	0.018		SW7471		Prep: SW7471 / 5/14/14	Analyst: LR
			0.018	mg/Kg-dry	1	5/15/2014 02:57 PM
METALS BY ICP-MS						
Arsenic	4.2		SW6020A		Prep: SW3050B / 5/12/14	Analyst: ML
Barium	460		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Cadmium	ND		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Chromium	20		0.90	mg/Kg-dry	5	5/13/2014 04:04 PM
Copper	20		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Lead	12		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Nickel	37		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Selenium	2.3		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Silver	ND		2.3	mg/Kg-dry	5	5/13/2014 04:04 PM
Zinc	56		4.5	mg/Kg-dry	5	5/13/2014 04:04 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 5/11/14	Analyst: RH
Calcium	ND		10	mg/L	20	5/12/2014 05:30 PM
Magnesium	12		4.0	mg/L	20	5/12/2014 05:30 PM
Sodium	570		4.0	mg/L	20	5/12/2014 05:30 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 5/11/14	Analyst: RH
Sodium Adsorption Ratio	29		0.010	none	1	5/12/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 5/9/14	Analyst: RM
Acenaphthene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Anthracene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Chrysene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM

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

ALS Group USA, Corp

Date: 16-May-14

Client: HRL Compliance Solutions, Inc

Project: WPX RMV 229-27 5.7.14

Sample ID: Batch 2

Collection Date: 5/7/2014 12:08 PM

Work Order: 1405436

Lab ID: 1405436-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Fluorene	22		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Naphthalene	17		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Pyrene	ND		7.6	µg/Kg-dry	1	5/14/2014 10:03 PM
Surr: 2-Fluorobiphenyl	63.7		12-100	%REC	1	5/14/2014 10:03 PM
Surr: 4-Terphenyl-d14	94.7		25-137	%REC	1	5/14/2014 10:03 PM
Surr: Nitrobenzene-d5	67.2		37-107	%REC	1	5/14/2014 10:03 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 5/9/14		Analyst: RS
Benzene	ND		34	µg/Kg-dry	1	5/13/2014 09:13 AM
Ethylbenzene	ND		34	µg/Kg-dry	1	5/13/2014 09:13 AM
m,p-Xylene	ND		69	µg/Kg-dry	1	5/13/2014 09:13 AM
o-Xylene	56		34	µg/Kg-dry	1	5/13/2014 09:13 AM
Toluene	ND		34	µg/Kg-dry	1	5/13/2014 09:13 AM
Xylenes, Total	100		100	µg/Kg-dry	1	5/13/2014 09:13 AM
Surr: 1,2-Dichloroethane-d4	97.8		70-130	%REC	1	5/13/2014 09:13 AM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	5/13/2014 09:13 AM
Surr: Dibromofluoromethane	96.6		70-130	%REC	1	5/13/2014 09:13 AM
Surr: Toluene-d8	98.2		70-130	%REC	1	5/13/2014 09:13 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 5/11/14		Analyst: JB
Electrical Conductivity @ Saturation	3.0		0.050	mmhos/cm @25	10	5/12/2014 09:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	20		0.57	mg/Kg-dry	1	5/15/2014 08:35 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 5/13/14		Analyst: JI
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	5/13/2014 03:30 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	5/9/2014 01:48 PM
PH			SW9045D	Prep: EXTRACT / 5/9/14		Analyst: AT
pH	9.1			s.u.	1	5/9/2014 04:00 PM

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

ALS Group USA, Corp

Date: 16-May-14

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58446** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-58446-58446				Units: mg/Kg		Analysis Date: 5/12/2014 03:04 PM		
Client ID:		Run ID: GC8_140512B				SeqNo: 2757211		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.446	0	1.667	0	86.8	39-133	0			

LCS		Sample ID: DLCSS1-58446-58446				Units: mg/Kg		Analysis Date: 5/12/2014 03:34 PM		
Client ID:		Run ID: GC8_140512B				SeqNo: 2757212		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	125.3	4.2	166.7	0	75.2	61-109	0			
Surr: 4-Terphenyl-d14	1.274	0	1.667	0	76.4	39-133	0			

MS		Sample ID: 1405436-01B MS				Units: mg/Kg		Analysis Date: 5/12/2014 04:04 PM		
Client ID: Batch 2		Run ID: GC8_140512B				SeqNo: 2757213		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	425.3	8.3	330.2	137.5	87.2	48-110	0			
Surr: 4-Terphenyl-d14	2.698	0	3.302	0	81.7	39-133	0			

MSD		Sample ID: 1405436-01B MSD				Units: mg/Kg		Analysis Date: 5/12/2014 04:34 PM		
Client ID: Batch 2		Run ID: GC8_140512B				SeqNo: 2757214		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	386.9	8.0	321.2	137.5	77.6	48-110	425.3	9.46	30	
Surr: 4-Terphenyl-d14	2.719	0	3.212	0	84.6	39-133	2.698	0.769	30	

The following samples were analyzed in this batch: | 1405436-01B |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58442** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-58442-58442				Units: µg/Kg		Analysis Date: 5/12/2014 03:58 PM		
Client ID:		Run ID: GC9_140512A				SeqNo: 2757219		Prep Date: 5/9/2014		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								
Surr: Toluene-d8	4978	0	5000	0	99.6	50-150	0			

LCS		Sample ID: LCS-58442-58442				Units: µg/Kg		Analysis Date: 5/12/2014 03:32 PM		
Client ID:		Run ID: GC9_140512A				SeqNo: 2757218		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	477000	2,500	500000	0	95.4	70-130	0			
Surr: Toluene-d8	4667	0	5000	0	93.3	50-150	0			

MS		Sample ID: 1405435-01A MS				Units: µg/Kg		Analysis Date: 5/12/2014 05:41 PM		
Client ID:		Run ID: GC9_140512A				SeqNo: 2757223		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	491000	2,500	500000	52180	87.8	70-130	0			
Surr: Toluene-d8	4630	0	5000	0	92.6	50-150	0			

MSD		Sample ID: 1405435-01A MSD				Units: µg/Kg		Analysis Date: 5/12/2014 06:07 PM		
Client ID:		Run ID: GC9_140512A				SeqNo: 2757224		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	494300	2,500	500000	52180	88.4	70-130	491000	0.674	30	
Surr: Toluene-d8	4809	0	5000	0	96.2	50-150	4630	3.78	30	

The following samples were analyzed in this batch:

1405436-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58623** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-58623-58623				Units: mg/Kg		Analysis Date: 5/15/2014 01:41 PM		
Client ID:		Run ID: HG1_140515A				SeqNo: 2763432		Prep Date: 5/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001583	0.020								J

LCS		Sample ID: LCS-58623-58623				Units: mg/Kg		Analysis Date: 5/15/2014 01:43 PM		
Client ID:		Run ID: HG1_140515A				SeqNo: 2763433		Prep Date: 5/14/2014		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: 1405435-01BMS				Units: mg/Kg		Analysis Date: 5/15/2014 02:53 PM		
Client ID:		Run ID: HG1_140515A				SeqNo: 2763473		Prep Date: 5/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1431	0.014	0.1152	0.01498	111	75-125	0			

MSD		Sample ID: 1405435-01BMSD				Units: mg/Kg		Analysis Date: 5/15/2014 02:55 PM		
Client ID:		Run ID: HG1_140515A				SeqNo: 2763474		Prep Date: 5/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1406	0.014	0.1142	0.01498	110	75-125	0.1431	1.81	35	

The following samples were analyzed in this batch:

1405436-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58428** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1405436-01CDUP				Units: mg/L		Analysis Date: 5/12/2014 05:36 PM		
Client ID: Batch 2		Run ID: ICPMS2_140512A				SeqNo: 2756829		Prep Date: 5/11/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	8.558	10	0	0	0	0-0	9.802	0		J
Magnesium	11.67	4.0	0	0	0	0-0	12	2.82		
Sodium	575.6	4.0	0	0	0	0-0	570.4	0.908		

DUP		Sample ID: 1405436-01CDUP				Units: none		Analysis Date: 5/12/2014		
Client ID: Batch 2		Run ID: SAR_140512A				SeqNo: 2757592		Prep Date: 5/11/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	30.06	0.010	0	0	0		28.87	4.03	50	

The following samples were analyzed in this batch: | 1405436-01C |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58506** Instrument ID **ICPMS1** Method: **SW6020A**

Sample ID: MBLK-58506-58506				Units: mg/Kg			Analysis Date: 5/13/2014 12:22 PM			
Client ID:		Run ID: ICPMS1_140513A			SeqNo: 2759492		Prep Date: 5/12/2014		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	0.02722	0.25								J
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	ND	0.25								
Zinc	ND	0.50								

LCS				Sample ID: LCS-58506-58506				Units: mg/Kg			Analysis Date: 5/13/2014 12:28 PM			
Client ID:				Run ID: ICPMS1_140513A				SeqNo: 2759493			Prep Date: 5/12/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	4.402	0.25	5	0	88	80-120	0							
Barium	4.798	0.25	5	0	96	80-120	0							
Cadmium	4.588	0.10	5	0	91.8	80-120	0							
Chromium	5.125	0.25	5	0	102	80-120	0							
Copper	4.86	0.25	5	0	97.2	80-120	0							
Lead	4.779	0.25	5	0	95.6	80-120	0							
Nickel	5.07	0.25	5	0	101	80-120	0							
Selenium	4.275	0.25	5	0	85.5	80-120	0							
Silver	4.752	0.25	5	0	95	80-120	0							
Zinc	4.474	0.50	5	0	89.5	80-120	0							

MS				Sample ID: 1405359-05AMS			Units: mg/Kg		Analysis Date: 5/13/2014 01:27 PM		
Client ID:			Run ID: ICPMS1_140513A			SeqNo: 2759503		Prep Date: 5/12/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	10.66	1.9	7.776	3.353	93.9	75-125		0			
Barium	36.62	1.9	7.776	30.28	81.5	75-125		0			
Cadmium	7.621	0.78	7.776	0.09543	96.8	75-125		0			
Chromium	21.08	1.9	7.776	11.9	118	75-125		0			
Copper	15.43	1.9	7.776	8.132	93.8	75-125		0			
Lead	184.6	1.9	7.776	7.628	2280	75-125		0		S	
Nickel	18.31	1.9	7.776	11.34	89.7	75-125		0			
Selenium	7.947	1.9	7.776	1.446	83.6	75-125		0			
Silver	7.224	1.9	7.776	0.01683	92.7	75-125		0			
Zinc	166.9	3.9	7.776	28.29	1780	75-125		0		S	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58506** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1405359-05AMSD				Units: mg/Kg		Analysis Date: 5/13/2014 01:32 PM		
Client ID:		Run ID: ICPMS1_140513A				SeqNo: 2759504		Prep Date: 5/12/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.87	1.9	7.634	3.353	98.4	75-125	10.66	1.95	25	
Barium	42.98	1.9	7.634	30.28	166	75-125	36.62	16	25	S
Cadmium	7.573	0.76	7.634	0.09543	97.9	75-125	7.621	0.632	25	
Chromium	21.8	1.9	7.634	11.9	130	75-125	21.08	3.36	25	S
Copper	16.81	1.9	7.634	8.132	114	75-125	15.43	8.55	25	
Lead	24.56	1.9	7.634	7.628	222	75-125	184.6	153	25	SR
Nickel	20.17	1.9	7.634	11.34	116	75-125	18.31	9.66	25	
Selenium	8.13	1.9	7.634	1.446	87.6	75-125	7.947	2.27	25	
Silver	7.233	1.9	7.634	0.01683	94.5	75-125	7.224	0.123	25	
Zinc	53.47	3.8	7.634	28.29	330	75-125	166.9	103	25	SR

The following samples were analyzed in this batch: 1405436-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58445** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKS1-58445-58445				Units: µg/Kg		Analysis Date: 5/12/2014 04:46 PM		
Client ID:		Run ID: SVMS7_140512A				SeqNo: 2761086		Prep Date: 5/9/2014		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>	1291	0	1667	0	77.5	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2078	0	1667	0	125	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1030	0	1667	0	61.8	37-107	0			

LCS		Sample ID: SLCSS1-58445-58445				Units: µg/Kg		Analysis Date: 5/12/2014 03:16 PM		
Client ID:		Run ID: SVMS7_140512A				SeqNo: 2761079		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	424.3	6.7	666.7	0	63.6	45-110	0			
Acenaphthylene	478.7	6.7	666.7	0	71.8	45-105	0			
Anthracene	498	6.7	666.7	0	74.7	55-105	0			
Benzo(a)anthracene	608.7	6.7	666.7	0	91.3	50-110	0			
Benzo(a)pyrene	622.7	6.7	666.7	0	93.4	50-110	0			
Benzo(b)fluoranthene	611.3	6.7	666.7	0	91.7	45-115	0			
Benzo(g,h,i)perylene	566.3	6.7	666.7	0	84.9	40-125	0			
Benzo(k)fluoranthene	610	6.7	666.7	0	91.5	45-115	0			
Chrysene	577	6.7	666.7	0	86.5	55-110	0			
Dibenzo(a,h)anthracene	534	6.7	666.7	0	80.1	40-125	0			
Fluoranthene	537.3	6.7	666.7	0	80.6	55-115	0			
Fluorene	464.7	6.7	666.7	0	69.7	50-110	0			
Indeno(1,2,3-cd)pyrene	574.3	6.7	666.7	0	86.1	40-120	0			
Naphthalene	434.7	6.7	666.7	0	65.2	40-105	0			
Pyrene	641	6.7	666.7	0	96.1	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1324	0	1667	0	79.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1994	0	1667	0	120	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1153	0	1667	0	69.2	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58445** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 1405359-01A MS			Units: µg/Kg		Analysis Date: 5/12/2014 03:39 PM	
Client ID:				Run ID: SVMS7_140512A			SeqNo: 2761081		Prep Date: 5/9/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	813.2	13	1283	0	63.4	45-110	0			
Acenaphthylene	868.4	13	1283	0	67.7	45-105	0			
Anthracene	941.5	13	1283	0	73.4	55-105	0			
Benzo(a)anthracene	1102	13	1283	31.03	83.5	50-110	0			
Benzo(a)pyrene	1029	13	1283	22.54	78.4	50-110	0			
Benzo(b)fluoranthene	1082	13	1283	56.5	79.9	45-115	0			
Benzo(g,h,i)perylene	1102	13	1283	22.86	84.1	40-125	0			
Benzo(k)fluoranthene	1129	13	1283	0	88	45-115	0			
Chrysene	1193	13	1283	34.62	90.3	55-110	0			
Dibenzo(a,h)anthracene	1047	13	1283	0	81.6	40-125	0			
Fluoranthene	918.4	13	1283	45.4	68.1	55-115	0			
Fluorene	869	13	1283	0	67.7	50-110	0			
Indeno(1,2,3-cd)pyrene	1181	13	1283	28.74	89.8	40-120	0			
Naphthalene	732.4	13	1283	0	57.1	40-105	0			
Pyrene	1274	13	1283	57.48	94.8	45-125	0			
Surr: 2-Fluorobiphenyl	2469	0	3207	0	77	12-100	0			
Surr: 4-Terphenyl-d14	3865	0	3207	0	121	25-137	0			
Surr: Nitrobenzene-d5	1866	0	3207	0	58.2	37-107	0			

MSD				Sample ID: 1405359-01A MSD			Units: µg/Kg		Analysis Date: 5/12/2014 04:01 PM	
Client ID:				Run ID: SVMS7_140512A			SeqNo: 2761083		Prep Date: 5/9/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	872.5	13	1328	0	65.7	45-110	813.2	7.03	30	
Acenaphthylene	987.3	13	1328	0	74.3	45-105	868.4	12.8	30	
Anthracene	988.6	13	1328	0	74.4	55-105	941.5	4.88	30	
Benzo(a)anthracene	1268	13	1328	31.03	93.2	50-110	1102	14	30	
Benzo(a)pyrene	1215	13	1328	22.54	89.8	50-110	1029	16.6	30	
Benzo(b)fluoranthene	1219	13	1328	56.5	87.5	45-115	1082	11.9	30	
Benzo(g,h,i)perylene	1227	13	1328	22.86	90.7	40-125	1102	10.7	30	
Benzo(k)fluoranthene	1232	13	1328	0	92.7	45-115	1129	8.66	30	
Chrysene	1275	13	1328	34.62	93.4	55-110	1193	6.64	30	
Dibenzo(a,h)anthracene	1206	13	1328	0	90.8	40-125	1047	14.1	30	
Fluoranthene	992.6	13	1328	45.4	71.3	55-115	918.4	7.77	30	
Fluorene	981.3	13	1328	0	73.9	50-110	869	12.1	30	
Indeno(1,2,3-cd)pyrene	1409	13	1328	28.74	104	40-120	1181	17.6	30	
Naphthalene	817.3	13	1328	0	61.5	40-105	732.4	11	30	
Pyrene	1410	13	1328	57.48	102	45-125	1274	10.1	30	
Surr: 2-Fluorobiphenyl	2825	0	3320	0	85.1	12-100	2469	13.4	40	
Surr: 4-Terphenyl-d14	4507	0	3320	0	136	25-137	3865	15.3	40	
Surr: Nitrobenzene-d5	2048	0	3320	0	61.7	37-107	1866	9.3	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58445** Instrument ID **SVMS7** Method: **SW8270**

The following samples were analyzed in this batch:

1405436-01B

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58440** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-58440-58440				Units: µg/Kg			Analysis Date: 5/9/2014 12:49 PM		
Client ID:			Run ID: VMS5_140509A				SeqNo: 2753449			Prep Date: 5/9/2014		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	1044	0	1000	0	104	70-130		0					
Surr: 4-Bromofluorobenzene	971.5	0	1000	0	97.2	70-130		0					
Surr: Dibromofluoromethane	1024	0	1000	0	102	70-130		0					
Surr: Toluene-d8	1002	0	1000	0	100	70-130		0					

LCS				Sample ID: LCS-58440-58440			Units: µg/Kg		Analysis Date: 5/9/2014 11:32 AM		
Client ID:		Run ID: VMS5_140509A			SeqNo: 2753448		Prep Date: 5/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1035	30	1000	0	104	75-125	0				
Ethylbenzene	1026	30	1000	0	103	75-125	0				
m,p-Xylene	2037	60	2000	0	102	80-125	0				
o-Xylene	1030	30	1000	0	103	75-125	0				
Toluene	1002	30	1000	0	100	70-125	0				
Xylenes, Total	3067	90	3000	0	102	75-125	0				
Surr: 1,2-Dichloroethane-d4	1050	0	1000	0	105	70-130	0				
Surr: 4-Bromofluorobenzene	977	0	1000	0	97.7	70-130	0				
Surr: Dibromofluoromethane	1024	0	1000	0	102	70-130	0				
Surr: Toluene-d8	999	0	1000	0	99.9	70-130	0				

MS				Sample ID: 1405359-06B MS				Units: µg/Kg		Analysis Date: 5/12/2014 09:06 PM	
Client ID:			Run ID: VMS6_140512A			SeqNo: 2757446		Prep Date: 5/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1002	30	1000	0	100	75-125	0				
Ethylbenzene	988.5	30	1000	0	98.8	75-125	0				
m,p-Xylene	1980	60	2000	0	99	80-125	0				
o-Xylene	1011	30	1000	0	101	75-125	0				
Toluene	981.5	30	1000	0	98.2	70-125	0				
Xylenes, Total	2991	90	3000	0	99.7	75-125	0				
Surr: 1,2-Dichloroethane-d4	988.5	0	1000	0	98.8	70-130	0				
Surr: 4-Bromofluorobenzene	995	0	1000	0	99.5	70-130	0				
Surr: Dibromofluoromethane	1006	0	1000	0	101	70-130	0				
Surr: Toluene-d8	984.5	0	1000	0	98.4	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58440** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 1405359-06B MSD				Units: µg/Kg			Analysis Date: 5/12/2014 09:32 PM			
Client ID:				Run ID: VMS6_140512A				SeqNo: 2757447			Prep Date: 5/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	967	30	1000	0	96.7	75-125	1002	3.6	30					
Ethylbenzene	956.5	30	1000	0	95.6	75-125	988.5	3.29	30					
m,p-Xylene	1940	60	2000	0	97	80-125	1980	2.07	30					
o-Xylene	989.5	30	1000	0	99	75-125	1011	2.15	30					
Toluene	955.5	30	1000	0	95.6	70-125	981.5	2.68	30					
Xylenes, Total	2929	90	3000	0	97.6	75-125	2991	2.09	30					
Surr: 1,2-Dichloroethane-d4	987	0	1000	0	98.7	70-130	988.5	0.152	30					
Surr: 4-Bromofluorobenzene	1016	0	1000	0	102	70-130	995	2.04	30					
Surr: Dibromofluoromethane	1012	0	1000	0	101	70-130	1006	0.594	30					
Surr: Toluene-d8	992.5	0	1000	0	99.2	70-130	984.5	0.809	30					

The following samples were analyzed in this batch: 1405436-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58428** Instrument ID **WETCHEM** Method: **USDA H60 Method**

Dup		Sample ID: 1405436-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 5/12/2014 09:00 AM		
Client ID: Batch 2		Run ID: WETCHEM_140512B				SeqNo: 2754793		Prep Date: 5/11/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.23	0.050	0	0	0		3.02	6.72	50	

The following samples were analyzed in this batch:

1405436-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58460** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-58460-58460					Units: s.u.		Analysis Date: 5/9/2014 04:00 PM		
Client ID:			Run ID: WETCHEM_140509G			SeqNo: 2753474		Prep Date: 5/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	4.08	0	4	0	102	90-110	0			
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DUP		Sample ID: 1405320-01A DUP					Units: s.u.		Analysis Date: 5/9/2014 04:00 PM		
Client ID:		Run ID: WETCHEM_140509G					SeqNo: 2753476		Prep Date: 5/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	5.39	0	0	0	0	0-0	5.36	0.558	20	
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DUP		Sample ID: 1405433-01B DUP					Units: s.u.		Analysis Date: 5/9/2014 04:00 PM		
Client ID:			Run ID: WETCHEM_140509G			SeqNo: 2753493		Prep Date: 5/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	8.64	0	0	0	0	0-0	8.59	0.58	20	
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The following samples were analyzed in this batch:

1405436-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405436
Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **58523** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-58523-58523				Units: mg/Kg		Analysis Date: 5/13/2014 03:30 PM		
Client ID:		Run ID: WETCHEM_140513M				SeqNo: 2758707		Prep Date: 5/13/2014		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-58523-58523				Units: mg/Kg		Analysis Date: 5/13/2014 03:30 PM		
Client ID:		Run ID: WETCHEM_140513M				SeqNo: 2758708		Prep Date: 5/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.816 0.49 1.953 0 93 80-120 0

MS		Sample ID: 1405433-01BMS				Units: mg/Kg		Analysis Date: 5/13/2014 03:30 PM		
Client ID:		Run ID: WETCHEM_140513M				SeqNo: 2758710		Prep Date: 5/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.763 0.50 2.008 0.8924 43.4 75-125 0 S

MS		Sample ID: 1405433-01BMSI				Units: mg/Kg		Analysis Date: 5/13/2014 03:30 PM		
Client ID:		Run ID: WETCHEM_140513M				SeqNo: 2758712		Prep Date: 5/13/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1048 49 1552 0.8924 67.5 75-125 0 S

MSD		Sample ID: 1405433-01BMSD				Units: mg/Kg		Analysis Date: 5/13/2014 03:30 PM		
Client ID:		Run ID: WETCHEM_140513M				SeqNo: 2758711		Prep Date: 5/13/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.649 0.50 1.992 0.8924 38 75-125 1.763 6.66 20 S

The following samples were analyzed in this batch:

1405436-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405436
 Project: WPX RMV 229-27 5.7.14

QC BATCH REPORT

Batch ID: **R140517** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R140517				Units: % of sample		Analysis Date: 5/9/2014 01:48 PM		
Client ID:		Run ID: MOIST_140509A				SeqNo: 2754835		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-R140517				Units: % of sample		Analysis Date: 5/9/2014 01:48 PM		
Client ID:		Run ID: MOIST_140509A				SeqNo: 2754834		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: 1405402-02A DUP				Units: % of sample		Analysis Date: 5/9/2014 01:48 PM		
Client ID:		Run ID: MOIST_140509A				SeqNo: 2754812		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.94 0.050 0 0 0 0-0 6.42 7.78 20 H

DUP		Sample ID: 1405436-01B DUP				Units: % of sample		Analysis Date: 5/9/2014 01:48 PM		
Client ID: Batch 2		Run ID: MOIST_140509A				SeqNo: 2754833		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.29 0.050 0 0 0 0-0 12.95 2.59 20

The following samples were analyzed in this batch:

1405436-01B

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

WORKORDER
#

1405436

PAGE

1 of 1


DISPOSAL

By Lab for Return to Client

[illegible]

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

For metals or anions, please detail analytes below.

Comments: <div style="text-align: center;"> <p>3.6°L</p>  </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)						
	<input type="checkbox"/>							
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>[Signature]</i>	5/7/14	2:00
RECEIVED BY	<i>[Signature]</i>	<i>[Signature]</i>	5-7-14	2:01
RELINQUISHED BY	<i>[Signature]</i>	N. chm.	5-7-14	2:10
RECEIVED BY	<i>[Signature]</i>	K. chm.	5/8/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **08-May-14 09:30**

Work Order: **1405436**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

08-May-14
Date

Reviewed by: Ann Preston
eSignature

09-May-14
Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.6 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>5/8/2014 4:53:14 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

FedEx NEW Package
Express US Airbill

FedEx
Tracking
Number

8022 0273 1928

0200

1 From

Date 5/7/14

Sender's Name Mike Likato

Phone 970 361-2216

Company HRL Compliance Solutions, Inc.

Address 2385 F 1/2 Rd.

City Grand Junction State CO ZIP 81507

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving

Phone 616 399-6070

Company ALS Environmental

Address 3352 128th Ave

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for combination of your shipping address.

City Holland

State MI ZIP 49424

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

☐

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

☐

4 Express Package Service

* To meet locations.

NOTE: Service order has changed. Please select carefully.

Next Business Day

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

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

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

2 or 3 Business Days

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

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

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

5 Packaging

* Declared value limit \$500.

☐ FedEx Envelope*

☐ FedEx Pak*

☐ FedEx Box

☐ FedEx Tube

☒ Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery

NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

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

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

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

Does this shipment contain dangerous goods?

One box must be checked.

☒ No

☐ Yes

As per attached
Shipper's Declaration.

☐ Yes

Shipper's Declaration
not required.

☐ Dry Ice

Dry Ice, 9, UN 1845

☐ Cargo Aircraft Only

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

7 Payment

BILL TO:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recpt.
Acct. No.

☐ Sender
Acct. No. is location
I will be billed.

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

Total Packages

Total Weight

Credit Card Auth.

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

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8022 0273 1928

Signature: *Mike Likato*

Date: 5/7/14

6601-San Leandro St. Oakland, CA 94608-8825

CUSTODY SEAL



30-Jun-2014

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

Re: **WPX RMV 229-27 Batch 3 6.18.14**

Work Order: **14061024**

Dear Mark,

ALS Environmental received 1 sample on 19-Jun-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 27.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 3 6.18.14
Work Order: 14061024

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>
14061024-01	Batch 3	Soil		6/18/2014 11:30	6/19/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 3 6.18.14
Work Order: 14061024

Case Narrative

Batch 59920 sample 14061024-01 reporting limits were elevated due to dilution for high concentrations of non-target analytes. Sample Batch 3 MS/MSD recoveries and RPD for Copper were outside control limits. The corresponding result in the parent sample may be biased low for Copper. The MS/MSD recoveries for Barium, and MSD recoveries for Nickel and Zinc were outside control limits. The results in the parent sample were greater than 4x the spiked amount. No qualification is required for Barium, Nickel and Zinc. The MS recoveries for Arsenic and Lead were below control limits. Both the MSD recoveries and RPDs met quality control criteria. No data requires qualification for Arsenic and Lead.

Batch 59932 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: 30-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 3 6.18.14
Sample ID: Batch 3
Collection Date: 6/18/2014 11:30 AM

Work Order: 14061024
Lab ID: 14061024-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	140		SW8015M		Prep: SW3541 / 6/20/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	73.1		4.8	mg/Kg-dry	1	6/23/2014 01:28 PM
			39-133	%REC	1	6/23/2014 01:28 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	75		SW8015		Prep: SW5035 / 6/20/14	Analyst: IT
<i>Surr: Toluene-d8</i>	116		2.9	mg/Kg-dry	1	6/20/2014 10:31 PM
			50-150	%REC	1	6/20/2014 10:31 PM
MERCURY BY CVAA						
Mercury	0.027		SW7471		Prep: SW7471 / 6/20/14	Analyst: LR
			0.018	mg/Kg-dry	1	6/23/2014 03:57 PM
METALS BY ICP-MS						
Arsenic	5.0		SW6020A		Prep: SW3050B / 6/20/14	Analyst: ML
Barium	280		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Cadmium	ND		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Chromium	20		0.81	mg/Kg-dry	5	6/24/2014 06:41 AM
Copper	19		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Lead	9.5		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Nickel	37		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Selenium	ND		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Silver	ND		2.0	mg/Kg-dry	5	6/24/2014 06:41 AM
Zinc	45		4.0	mg/Kg-dry	5	6/24/2014 06:41 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 6/23/14	Analyst: RH
Calcium	13		10	mg/L	20	6/24/2014 10:11 PM
Magnesium	23		4.0	mg/L	20	6/24/2014 10:11 PM
Sodium	870		4.0	mg/L	20	6/24/2014 10:11 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 6/23/14	Analyst: RH
Sodium Adsorption Ratio	33		0.010	none	1	6/23/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 6/20/14	Analyst: RM
Acenaphthene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Anthracene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Chrysene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 3 6.18.14
Sample ID: Batch 3
Collection Date: 6/18/2014 11:30 AM

Work Order: 14061024
Lab ID: 14061024-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Fluoranthene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Fluorene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Naphthalene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Pyrene	ND		7.6	µg/Kg-dry	1	6/23/2014 10:57 AM
Surr: 2-Fluorobiphenyl	66.7		12-100	%REC	1	6/23/2014 10:57 AM
Surr: 4-Terphenyl-d14	86.6		25-137	%REC	1	6/23/2014 10:57 AM
Surr: Nitrobenzene-d5	54.4		37-107	%REC	1	6/23/2014 10:57 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 6/20/14		Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	6/20/2014 04:53 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	6/20/2014 04:53 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	6/20/2014 04:53 PM
o-Xylene	ND		35	µg/Kg-dry	1	6/20/2014 04:53 PM
Toluene	ND		35	µg/Kg-dry	1	6/20/2014 04:53 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	6/20/2014 04:53 PM
Surr: 1,2-Dichloroethane-d4	95.8		70-130	%REC	1	6/20/2014 04:53 PM
Surr: 4-Bromofluorobenzene	91.7		70-130	%REC	1	6/20/2014 04:53 PM
Surr: Dibromofluoromethane	96.5		70-130	%REC	1	6/20/2014 04:53 PM
Surr: Toluene-d8	102		70-130	%REC	1	6/20/2014 04:53 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 6/23/14		Analyst: JB
Electrical Conductivity @ Saturation	5.0		0.050	mmhos/cm @25	10	6/23/2014 04:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	20		0.58	mg/Kg-dry	1	6/24/2014 02:54 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 6/21/14		Analyst: JI
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	6/21/2014 01:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	14		0.050	% of sample	1	6/20/2014 09:51 AM
PH			SW9045D	Prep: EXTRACT / 6/20/14		Analyst: AT
pH	9.0			s.u.	1	6/20/2014 04:30 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59896** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-59896-59896				Units: mg/Kg		Analysis Date: 6/23/2014 11:28 AM		
Client ID:		Run ID: GC8_140623A				SeqNo: 2820702		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.126	0	1.667	0	67.5	39-133	0			

LCS		Sample ID: DLCSS1-59896-59896				Units: mg/Kg		Analysis Date: 6/23/2014 11:58 AM		
Client ID:		Run ID: GC8_140623A				SeqNo: 2820703		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	125.9	4.2	166.7	0	75.5	61-109	0			
Surr: 4-Terphenyl-d14	1.168	0	1.667	0	70.1	39-133	0			

MS		Sample ID: 14061024-01B MS				Units: mg/Kg		Analysis Date: 6/23/2014 12:28 PM		
Client ID: Batch 3		Run ID: GC8_140623A				SeqNo: 2820704		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	379.4	8.3	332.1	123.6	77	48-110	0			
Surr: 4-Terphenyl-d14	2.609	0	3.321	0	78.6	39-133	0			

MSD		Sample ID: 14061024-01B MSD				Units: mg/Kg		Analysis Date: 6/23/2014 12:58 PM		
Client ID: Batch 3		Run ID: GC8_140623A				SeqNo: 2820705		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	342.9	8.0	318.2	123.6	68.9	48-110	379.4	10.1	30	
Surr: 4-Terphenyl-d14	2.302	0	3.182	0	72.3	39-133	2.609	12.5	30	

The following samples were analyzed in this batch:

14061024-01B

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59906** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-59906-59906				Units: µg/Kg		Analysis Date: 6/20/2014 05:47 PM		
Client ID:		Run ID: GC9_140620A				SeqNo: 2819476		Prep Date: 6/20/2014		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>	5288	0	5000	0	106	50-150	0			

LCS		Sample ID: LCS-59906-59906				Units: µg/Kg		Analysis Date: 6/20/2014 05:22 PM		
Client ID:		Run ID: GC9_140620A				SeqNo: 2819475		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	536500	2,500	500000	0	107	70-130	0			
<i>Surr: Toluene-d8</i>	5372	0	5000	0	107	50-150	0			

MS		Sample ID: 14061051-01B MS				Units: µg/Kg		Analysis Date: 6/20/2014 06:39 PM		
Client ID:		Run ID: GC9_140620A				SeqNo: 2819478		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	496700	2,500	500000	30740	93.2	70-130	0			
<i>Surr: Toluene-d8</i>	5993	0	5000	0	120	50-150	0			

MSD		Sample ID: 14061051-01B MSD				Units: µg/Kg		Analysis Date: 6/20/2014 07:05 PM		
Client ID:		Run ID: GC9_140620A				SeqNo: 2819479		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	493900	2,500	500000	30740	92.6	70-130	496700	0.57	30	
<i>Surr: Toluene-d8</i>	5968	0	5000	0	119	50-150	5993	0.426	30	

The following samples were analyzed in this batch:

14061024-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59916** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-59916-59916					Units: mg/Kg		Analysis Date: 6/23/2014 03:25 PM		
Client ID:			Run ID: HG1_140623A				SeqNo: 2820398		Prep Date: 6/20/2014		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-59916-59916					Units: mg/Kg		Analysis Date: 6/23/2014 03:27 PM		
Client ID:			Run ID: HG1_140623A			SeqNo: 2820399		Prep Date: 6/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1732 0.020 0.1665 0 104 80-120 0

MS		Sample ID: 14061060-02BMS					Units: mg/Kg		Analysis Date: 6/23/2014 03:39 PM		
Client ID:			Run ID: HG1_140623A			SeqNo: 2820404		Prep Date: 6/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1525 0.014 0.1162 0.01941 115 75-125 0

MSD		Sample ID: 14061060-02BMSD					Units: mg/Kg		Analysis Date: 6/23/2014 03:41 PM		
Client ID:			Run ID: HG1_140623A			SeqNo: 2820405		Prep Date: 6/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1364 0.014 0.1168 0.01941 100 75-125 0.1525 11.2 35

The following samples were analyzed in this batch:

14061024-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59849** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1406920-01CDUP				Units: mg/L		Analysis Date: 6/24/2014 10:56 PM		
Client ID:		Run ID: ICPMS2_140623A				SeqNo: 2822870		Prep Date: 6/23/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	527.8	10	0	0	0	0-0	543.6	2.95		
Magnesium	242	4.0	0	0	0	0-0	253.6	4.68		
Sodium	1961	4.0	0	0	0	0-0	2062	5.01		

DUP		Sample ID: 1406920-01CDUP				Units: none		Analysis Date: 6/23/2014		
Client ID:		Run ID: SAR_140623A				SeqNo: 2823154		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	17.74	0.010	0	0	0		18.31	3.16	50	

The following samples were analyzed in this batch:

14061024-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59920** Instrument ID **ICPMS1** Method: **SW6020A**

Sample ID: MBLK-59920-59920				Units: mg/Kg			Analysis Date: 6/24/2014 06:22 AM			
Client ID:		Run ID: ICPMS1_140623A			SeqNo: 2821342		Prep Date: 6/20/2014		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								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	0.04133	0.25								J
Silver	ND	0.25								
Zinc	ND	0.50								

LCS					Sample ID: LCS-59920-59920			Units: mg/Kg		Analysis Date: 6/24/2014 06:28 AM		
Client ID:			Run ID: ICPMS1_140623A			SeqNo: 2821343		Prep Date: 6/20/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	4.774	0.25	5	0	95.5	80-120	0					
Barium	4.782	0.25	5	0	95.6	80-120	0					
Cadmium	4.778	0.10	5	0	95.6	80-120	0					
Chromium	4.898	0.25	5	0	98	80-120	0					
Copper	4.884	0.25	5	0	97.7	80-120	0					
Lead	4.702	0.25	5	0	94	80-120	0					
Nickel	4.946	0.25	5	0	98.9	80-120	0					
Selenium	4.571	0.25	5	0	91.4	80-120	0					
Silver	4.683	0.25	5	0	93.7	80-120	0					
Zinc	4.883	0.50	5	0	97.7	80-120	0					

MS				Sample ID: 14061024-01BMS			Units: mg/Kg		Analysis Date: 6/24/2014 06:47 AM		
Client ID: Batch 3			Run ID: ICPMS1_140623A			SeqNo: 2821346		Prep Date: 6/20/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.18	1.7	6.831	4.278	71.8	75-125	0			S	
Barium	206.7	1.7	6.831	243.5	-538	75-125	0			SO	
Cadmium	6.387	0.68	6.831	0.2233	90.2	75-125	0				
Chromium	23.92	1.7	6.831	17.49	94.1	75-125	0				
Copper	21.53	1.7	6.831	16.78	69.5	75-125	0			S	
Lead	12.95	1.7	6.831	8.212	69.4	75-125	0			S	
Nickel	40.03	1.7	6.831	32.18	115	75-125	0			O	
Selenium	7.172	1.7	6.831	1.412	84.3	75-125	0				
Silver	5.693	1.7	6.831	0.06566	82.4	75-125	0				
Zinc	44.4	3.4	6.831	38.33	88.8	75-125	0			O	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59920** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14061024-01BMSD				Units: mg/Kg		Analysis Date: 6/24/2014 06:53 AM		
Client ID: Batch 3		Run ID: ICPMS1_140623A				SeqNo: 2821347		Prep Date: 6/20/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.47	1.7	6.983	4.278	88.7	75-125	9.18	13.1	25	
Barium	256.8	1.7	6.983	243.5	191	75-125	206.7	21.6	25	SO
Cadmium	7.074	0.70	6.983	0.2233	98.1	75-125	6.387	10.2	25	
Chromium	27.29	1.7	6.983	17.49	140	75-125	23.92	13.2	25	S
Copper	27.95	1.7	6.983	16.78	160	75-125	21.53	25.9	25	SR
Lead	14.27	1.7	6.983	8.212	86.7	75-125	12.95	9.64	25	
Nickel	42.42	1.7	6.983	32.18	147	75-125	40.03	5.81	25	SO
Selenium	7.483	1.7	6.983	1.412	86.9	75-125	7.172	4.24	25	
Silver	6.243	1.7	6.983	0.06566	88.5	75-125	5.693	9.21	25	
Zinc	51.5	3.5	6.983	38.33	189	75-125	44.4	14.8	25	SO

The following samples were analyzed in this batch:

14061024-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59894** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-59894-59894				Units: µg/Kg		Analysis Date: 6/23/2014 08:03 AM		
Client ID:		Run ID: SVMS6_140623A				SeqNo: 2820447		Prep Date: 6/20/2014		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>	1197	0	1667	0	71.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1497	0	1667	0	89.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1011	0	1667	0	60.6	37-107	0			

LCS		Sample ID: SLCSS1-59894-59894				Units: µg/Kg		Analysis Date: 6/23/2014 08:24 AM		
Client ID:		Run ID: SVMS6_140623A				SeqNo: 2820448		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	554.3	6.7	666.7	0	83.1	45-110	0			
Acenaphthylene	573.7	6.7	666.7	0	86	45-105	0			
Anthracene	643.3	6.7	666.7	0	96.5	55-105	0			
Benzo(a)anthracene	608.3	6.7	666.7	0	91.2	50-110	0			
Benzo(a)pyrene	612.7	6.7	666.7	0	91.9	50-110	0			
Benzo(b)fluoranthene	622	6.7	666.7	0	93.3	45-115	0			
Benzo(g,h,i)perylene	660	6.7	666.7	0	99	40-125	0			
Benzo(k)fluoranthene	600	6.7	666.7	0	90	45-115	0			
Chrysene	617	6.7	666.7	0	92.5	55-110	0			
Dibenzo(a,h)anthracene	631	6.7	666.7	0	94.6	40-125	0			
Fluoranthene	754.7	6.7	666.7	0	113	55-115	0			
Fluorene	607	6.7	666.7	0	91	50-110	0			
Indeno(1,2,3-cd)pyrene	652	6.7	666.7	0	97.8	40-120	0			
Naphthalene	563.3	6.7	666.7	0	84.5	40-105	0			
Pyrene	578	6.7	666.7	0	86.7	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1279	0	1667	0	76.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1547	0	1667	0	92.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1174	0	1667	0	70.5	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59894** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 14061024-01B MS			Units: µg/Kg		Analysis Date: 6/23/2014 10:16 AM	
Client ID: Batch 3				Run ID: SVMS6_140623A			SeqNo: 2820452		Prep Date: 6/20/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1041	13	1323	0	78.6	45-110	0			
Acenaphthylene	1096	13	1323	0	82.8	45-105	0			
Anthracene	1260	13	1323	0	95.2	55-105	0			
Benzo(a)anthracene	1225	13	1323	0	92.5	50-110	0			
Benzo(a)pyrene	1231	13	1323	0	93	50-110	0			
Benzo(b)fluoranthene	1253	13	1323	0	94.7	45-115	0			
Benzo(g,h,i)perylene	1053	13	1323	0	79.5	40-125	0			
Benzo(k)fluoranthene	1198	13	1323	0	90.5	45-115	0			
Chrysene	1176	13	1323	0	88.9	55-110	0			
Dibenzo(a,h)anthracene	1077	13	1323	0	81.3	40-125	0			
Fluoranthene	1427	13	1323	4.266	107	55-115	0			
Fluorene	1167	13	1323	0	88.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1139	13	1323	0	86.1	40-120	0			
Naphthalene	926.4	13	1323	0	70	40-105	0			
Pyrene	1198	13	1323	3.938	90.2	45-125	0			
Surr: 2-Fluorobiphenyl	2379	0	3308	0	71.9	12-100	0			
Surr: 4-Terphenyl-d14	3187	0	3308	0	96.3	25-137	0			
Surr: Nitrobenzene-d5	2062	0	3308	0	62.3	37-107	0			

MSD				Sample ID: 14061024-01B MSD			Units: µg/Kg		Analysis Date: 6/23/2014 10:36 AM	
Client ID: Batch 3				Run ID: SVMS6_140623A			SeqNo: 2820453		Prep Date: 6/20/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1013	13	1298	0	78	45-110	1041	2.69	30	
Acenaphthylene	1070	13	1298	0	82.4	45-105	1096	2.4	30	
Anthracene	1232	13	1298	0	94.9	55-105	1260	2.24	30	
Benzo(a)anthracene	1194	13	1298	0	92	50-110	1225	2.52	30	
Benzo(a)pyrene	1192	13	1298	0	91.8	50-110	1231	3.22	30	
Benzo(b)fluoranthene	1196	13	1298	0	92.1	45-115	1253	4.65	30	
Benzo(g,h,i)perylene	1166	13	1298	0	89.8	40-125	1053	10.2	30	
Benzo(k)fluoranthene	1190	13	1298	0	91.6	45-115	1198	0.713	30	
Chrysene	1158	13	1298	0	89.2	55-110	1176	1.58	30	
Dibenzo(a,h)anthracene	1131	13	1298	0	87.1	40-125	1077	4.91	30	
Fluoranthene	1291	13	1298	4.266	99.1	55-115	1427	9.97	30	
Fluorene	1102	13	1298	0	84.8	50-110	1167	5.79	30	
Indeno(1,2,3-cd)pyrene	1186	13	1298	0	91.3	40-120	1139	4	30	
Naphthalene	915.9	13	1298	0	70.5	40-105	926.4	1.14	30	
Pyrene	1303	13	1298	3.938	100	45-125	1198	8.46	30	
Surr: 2-Fluorobiphenyl	2419	0	3246	0	74.5	12-100	2379	1.69	40	
Surr: 4-Terphenyl-d14	3421	0	3246	0	105	25-137	3187	7.08	40	
Surr: Nitrobenzene-d5	2053	0	3246	0	63.3	37-107	2062	0.455	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59894** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch:

14061024- 01B

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59894A** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-59894-59894A				Units: µg/Kg		Analysis Date: 6/24/2014 01:43 PM		
Client ID:		Run ID: SVMS8_140624A				SeqNo: 2823975		Prep Date: 6/20/2014		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>	1221	0	1667	0	73.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1767	0	1667	0	106	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1067	0	1667	0	64	37-107	0			

LCS		Sample ID: SLCSS1-59894-59894A				Units: µg/Kg		Analysis Date: 6/24/2014 02:03 PM		
Client ID:		Run ID: SVMS8_140624A				SeqNo: 2823976		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	584	6.7	666.7	0	87.6	45-110	0			
Acenaphthylene	614.3	6.7	666.7	0	92.1	45-105	0			
Anthracene	673	6.7	666.7	0	101	55-105	0			
Benzo(a)anthracene	606	6.7	666.7	0	90.9	50-110	0			
Benzo(a)pyrene	686.7	6.7	666.7	0	103	50-110	0			
Benzo(b)fluoranthene	675.3	6.7	666.7	0	101	45-115	0			
Benzo(g,h,i)perylene	565	6.7	666.7	0	84.7	40-125	0			
Benzo(k)fluoranthene	667.3	6.7	666.7	0	100	45-115	0			
Chrysene	631	6.7	666.7	0	94.6	55-110	0			
Dibenzo(a,h)anthracene	571	6.7	666.7	0	85.6	40-125	0			
Fluoranthene	636.7	6.7	666.7	0	95.5	55-115	0			
Fluorene	596	6.7	666.7	0	89.4	50-110	0			
Indeno(1,2,3-cd)pyrene	593.3	6.7	666.7	0	89	40-120	0			
Naphthalene	550	6.7	666.7	0	82.5	40-105	0			
Pyrene	723.3	6.7	666.7	0	108	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1667	0	79.7	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1781	0	1667	0	107	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1229	0	1667	0	73.7	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59894A** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 14061024-01B MS			Units: µg/Kg		Analysis Date: 6/24/2014 04:28 PM	
Client ID: Batch 3				Run ID: SVMS8_140624A			SeqNo: 2823983		Prep Date: 6/20/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1101	13	1323	0	83.2	45-110	0			
Acenaphthylene	1182	13	1323	0	89.3	45-105	0			
Anthracene	1358	13	1323	0	103	55-105	0			
Benzo(a)anthracene	1260	13	1323	26.91	93.2	50-110	0			
Benzo(a)pyrene	1421	13	1323	27.89	105	50-110	0			
Benzo(b)fluoranthene	1294	13	1323	23.63	96	45-115	0			
Benzo(g,h,i)perylene	1321	13	1323	20.67	98.2	40-125	0			
Benzo(k)fluoranthene	1235	13	1323	16.74	92.1	45-115	0			
Chrysene	1198	13	1323	0	90.5	55-110	0			
Dibenzo(a,h)anthracene	1352	13	1323	18.7	101	40-125	0			
Fluoranthene	1278	13	1323	18.05	95.2	55-115	0			
Fluorene	1173	13	1323	0	88.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1549	13	1323	26.25	115	40-120	0			
Naphthalene	941.6	13	1323	0	71.1	40-105	0			
Pyrene	1387	13	1323	5.25	104	45-125	0			
Surr: 2-Fluorobiphenyl	2405	0	3308	0	72.7	12-100	0			
Surr: 4-Terphenyl-d14	3318	0	3308	0	100	25-137	0			
Surr: Nitrobenzene-d5	2080	0	3308	0	62.9	37-107	0			

MSD				Sample ID: 14061024-01B MSD			Units: µg/Kg		Analysis Date: 6/24/2014 04:49 PM	
Client ID: Batch 3				Run ID: SVMS8_140624A			SeqNo: 2823984		Prep Date: 6/20/2014	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1083	13	1298	0	83.4	45-110	1101	1.68	30	
Acenaphthylene	1157	13	1298	0	89.1	45-105	1182	2.14	30	
Anthracene	1322	13	1298	0	102	55-105	1358	2.75	30	
Benzo(a)anthracene	1211	13	1298	26.91	91.2	50-110	1260	3.94	30	
Benzo(a)pyrene	1405	13	1298	27.89	106	50-110	1421	1.13	30	
Benzo(b)fluoranthene	1263	13	1298	23.63	95.5	45-115	1294	2.43	30	
Benzo(g,h,i)perylene	1311	13	1298	20.67	99.4	40-125	1321	0.774	30	
Benzo(k)fluoranthene	1207	13	1298	16.74	91.7	45-115	1235	2.3	30	
Chrysene	1168	13	1298	0	89.9	55-110	1198	2.53	30	
Dibenzo(a,h)anthracene	1331	13	1298	18.7	101	40-125	1352	1.58	30	
Fluoranthene	1254	13	1298	18.05	95.2	55-115	1278	1.92	30	
Fluorene	1147	13	1298	0	88.3	50-110	1173	2.26	30	
Indeno(1,2,3-cd)pyrene	1523	13	1298	26.25	115	40-120	1549	1.71	30	
Naphthalene	929.5	13	1298	0	71.6	40-105	941.6	1.29	30	
Pyrene	1324	13	1298	5.25	102	45-125	1387	4.63	30	
Surr: 2-Fluorobiphenyl	2352	0	3246	0	72.5	12-100	2405	2.22	40	
Surr: 4-Terphenyl-d14	3208	0	3246	0	98.8	25-137	3318	3.37	40	
Surr: Nitrobenzene-d5	2029	0	3246	0	62.5	37-107	2080	2.46	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59894A** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

14061024- 01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59904** Instrument ID **VMS6** Method: **SW8260B**

MBLK				Sample ID: MBLK-59904-59904				Units: µg/Kg			Analysis Date: 6/20/2014 07:47 PM		
Client ID:			Run ID: VMS6_140620A				SeqNo: 2819353			Prep Date: 6/20/2014		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	934.5	0	1000	0	93.4	70-130		0					
Surr: 4-Bromofluorobenzene	991.5	0	1000	0	99.2	70-130		0					
Surr: Dibromofluoromethane	901	0	1000	0	90.1	70-130		0					
Surr: Toluene-d8	957	0	1000	0	95.7	70-130		0					

LCS				Sample ID: LCS-59904-59904				Units: µg/Kg			Analysis Date: 6/20/2014 06:29 PM		
Client ID:			Run ID: VMS6_140620A				SeqNo: 2819351			Prep Date: 6/20/2014		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	1027	30	1000	0	103	75-125	0						
m,p-Xylene	2061	60	2000	0	103	80-125	0						
o-Xylene	1020	30	1000	0	102	75-125	0						
Toluene	1007	30	1000	0	101	70-125	0						
Xylenes, Total	3080	90	3000	0	103	75-125	0						
Surr: 1,2-Dichloroethane-d4	943.5	0	1000	0	94.4	70-130	0						
Surr: 4-Bromofluorobenzene	1015	0	1000	0	102	70-130	0						
Surr: Dibromofluoromethane	989.5	0	1000	0	99	70-130	0						
Surr: Toluene-d8	952	0	1000	0	95.2	70-130	0						

MS					Sample ID: 14061032-01A MS			Units: µg/Kg		Analysis Date: 6/24/2014 11:31 AM	
Client ID:			Run ID: VMS7_140623B			SeqNo: 2822065		Prep Date: 6/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	904	30	1000	23.5	88	75-125	0				
Ethylbenzene	887.5	30	1000	0	88.8	75-125	0				
m,p-Xylene	1790	60	2000	55	86.7	80-125	0				
o-Xylene	904.5	30	1000	0	90.4	75-125	0				
Toluene	868.5	30	1000	56.5	81.2	70-125	0				
Xylenes, Total	2694	90	3000	55	88	75-125	0				
Surr: 1,2-Dichloroethane-d4	969.5	0	1000	0	97	70-130	0				
Surr: 4-Bromofluorobenzene	1026	0	1000	0	103	70-130	0				
Surr: Dibromofluoromethane	974.5	0	1000	0	97.4	70-130	0				
Surr: Toluene-d8	974.5	0	1000	0	97.4	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59904** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 14061032-01A MSD				Units: µg/Kg		Analysis Date: 6/24/2014 11:56 AM	
Client ID:			Run ID: VMS7_140623B			SeqNo: 2822066		Prep Date: 6/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	876.5	30	1000	23.5	85.3	75-125	904	3.09	30		
Ethylbenzene	869.5	30	1000	0	87	75-125	887.5	2.05	30		
m,p-Xylene	1740	60	2000	55	84.2	80-125	1790	2.8	30		
o-Xylene	888.5	30	1000	0	88.8	75-125	904.5	1.78	30		
Toluene	842	30	1000	56.5	78.6	70-125	868.5	3.1	30		
Xylenes, Total	2628	90	3000	55	85.8	75-125	2694	2.46	30		
Surr: 1,2-Dichloroethane-d4	970	0	1000	0	97	70-130	969.5	0.0516	30		
Surr: 4-Bromofluorobenzene	1005	0	1000	0	100	70-130	1026	2.12	30		
Surr: Dibromofluoromethane	976	0	1000	0	97.6	70-130	974.5	0.154	30		
Surr: Toluene-d8	959	0	1000	0	95.9	70-130	974.5	1.6	30		

The following samples were analyzed in this batch:

14061024-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59849** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1406920-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 6/23/2014 04:30 PM		
Client ID:		Run ID: WETCHEM_140623N				SeqNo: 2820587		Prep Date: 6/23/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	15.39	0.050	0	0	0		15.95	3.57	50	

The following samples were analyzed in this batch:

14061024-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59909** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-59909-59909				Units: s.u.		Analysis Date: 6/20/2014 04:30 PM		
Client ID:		Run ID: WETCHEM_140620M				SeqNo: 2818306		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	4.02	0	4	0	100	90-110	0			
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DUP		Sample ID: 14061024-01B DUP					Units: s.u.		Analysis Date: 6/20/2014 04:30 PM		
Client ID: Batch 3		Run ID: WETCHEM_140620M					SeqNo: 2818314		Prep Date: 6/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	9.04	0	0	0	0	0-0	8.98	0.666	20	H
----	------	---	---	---	---	-----	------	-------	----	---

DUP				Sample ID: 14061030-04B DUP				Units: s.u.			Analysis Date: 6/20/2014 04:30 PM			
Client ID:				Run ID: WETCHEM_140620M				SeqNo: 2818319			Prep Date: 6/20/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH	6.74	0	0	0	0	0-0	6.75	0.148	20	H
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The following samples were analyzed in this batch:

14061024-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **59932** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-59932-59932				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818493		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.49

LCS		Sample ID: LCS-59932-59932				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818494		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.717 0.50 1.992 0 86.2 80-120 0

MS		Sample ID: 14061060-01B MS				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818495		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.1294 0.49 1.961 0 6.6 75-125 0 JS

MS		Sample ID: 14061060-01B MSI				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818497		Prep Date: 6/21/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 453.5 49 981.9 0 46.2 75-125 0 S

MSD		Sample ID: 14061060-01B MSD				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818496		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.232 0.50 2 0 11.6 75-125 0.1294 0 20 JS

The following samples were analyzed in this batch:

14061024-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061024
Project: WPX RMV 229-27 Batch 3 6.18.14

QC BATCH REPORT

Batch ID: **R143148** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R143148					Units: % of sample		Analysis Date: 6/20/2014 09:51 AM		
Client ID:		Run ID: MOIST_140620A			SeqNo: 2819946		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-R143148					Units: % of sample			Analysis Date: 6/20/2014 09:51 AM		
Client ID:			Run ID: MOIST_140620A			SeqNo: 2819945			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: 14061000-01A DUP				Units: % of sample			Analysis Date: 6/20/2014 09:51 AM			
Client ID:				Run ID: MOIST_140620A				SeqNo: 2819924			Prep Date:		DF: 1	
Analyte	Result			PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Moisture 29.33 0.050 0 0 0 0-0 28.79 1.86 20

DUP		Sample ID: 14061000-02A DUP					Units: % of sample		Analysis Date: 6/20/2014 09:51 AM		
Client ID:			Run ID: MOIST_140620A			SeqNo: 2819926		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 38.61 0.050 0 0 0 0-0 41.44 7.07 20

The following samples were analyzed in this batch:

14061024-01B

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **19-Jun-14 09:30**

Work Order: **14061024**

Received by: **DS**

Checklist completed by <u>Ann Preston</u>	20-Jun-14	Reviewed by: <u>Ann Preston</u>	20-Jun-14
eSignature	Date	eSignature	Date

Matrices: **soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2°C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (979) 285-5783
 Mick Martinez
 ALS Environmental
 127 E. 1st Street
 PARACHUTE, CO 81835

Origin ID: RLA



Ship Date: 18JUN14
 Actual Wt: 43.9 LB
 CAD: 22844040NET3400

Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



SHIP TO: (616) 399-8970
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

HOLLAND, MI 48424

BILL BENDER

Ref # 061814-1
 Invoice #
 PO # Parachute
 Dept #

THU - 19 JUN 10:30A
 PRIORITY OVERNIGHT

TRK# 7703 4977 5118
 6291

XX GRRA

49424
 MI 484
 GRR



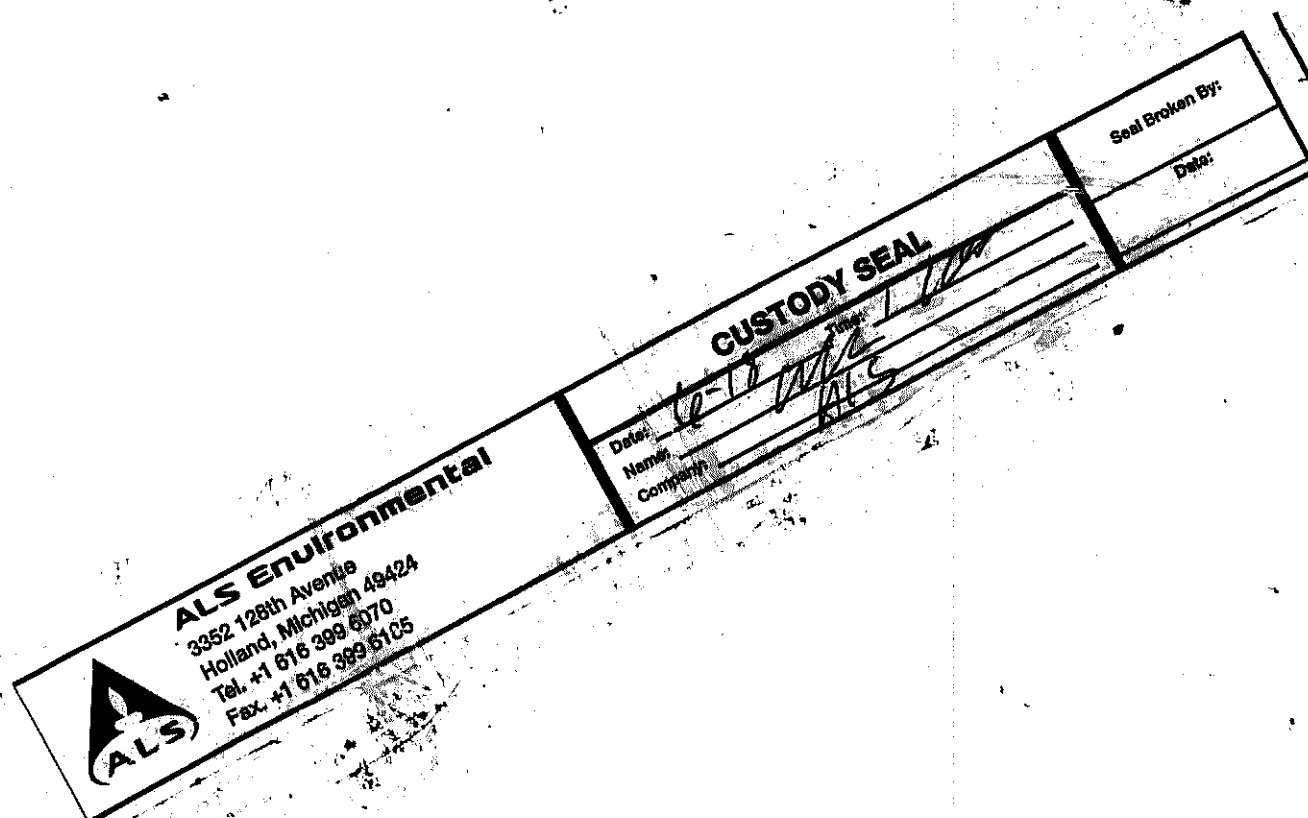
022058804F220

After printing this label:

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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10-Jul-2014

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

Re: **WPX RMV 229-27 Batch 4 7.1.14**

Work Order: **1407242**

Dear Mark,

ALS Environmental received 1 sample on 03-Jul-2014 10:30 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 24.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 4 7.1.14
Work Order: 1407242

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>
1407242-01	Batch 4	Soil		7/1/2014 10:35	7/3/2014 22:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 4 7.1.14
Work Order: 1407242

Case Narrative

Batch 60337 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Batch 60340 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch R144000 duplicate data for % Moisture 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: 10-Jul-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 4 7.1.14
Sample ID: Batch 4
Collection Date: 7/1/2014 10:35 AM

Work Order: 1407242
Lab ID: 1407242-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	46		SW8015M		Prep: SW3541 / 7/7/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>64.7</i>		<i>4.8</i>	<i>mg/Kg-dry</i>	<i>1</i>	<i>7/8/2014 04:27 AM</i>
			<i>39-133</i>	<i>%REC</i>	<i>1</i>	<i>7/8/2014 04:27 AM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 7/7/14	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>94.3</i>		<i>2.9</i>	<i>mg/Kg-dry</i>	<i>1</i>	<i>7/7/2014 03:35 PM</i>
			<i>50-150</i>	<i>%REC</i>	<i>1</i>	<i>7/7/2014 03:35 PM</i>
MERCURY BY CVAA						
Mercury	0.026		SW7471		Prep: SW7471 / 7/8/14	Analyst: LR
			0.019	mg/Kg-dry	1	7/8/2014 06:04 PM
METALS BY ICP-MS						
Arsenic	4.1		SW6020A		Prep: SW3050B / 7/7/14	Analyst: ML
Barium	210		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Cadmium	ND		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Chromium	18		0.78	mg/Kg-dry	5	7/8/2014 03:41 AM
Copper	16		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Lead	8.1		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Nickel	30		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Selenium	ND		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Silver	ND		1.9	mg/Kg-dry	5	7/8/2014 03:41 AM
Zinc	40		3.9	mg/Kg-dry	5	7/8/2014 03:41 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Calcium	12		10	mg/L	20	7/9/2014 03:39 PM
Magnesium	23		4.0	mg/L	20	7/9/2014 03:39 PM
Sodium	680		4.0	mg/L	20	7/9/2014 03:39 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Sodium Adsorption Ratio	26		0.010	none	1	7/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 7/7/14	Analyst: RM
Acenaphthene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Anthracene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Chrysene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM

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

ALS Group USA, Corp

Date: 10-Jul-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 4 7.1.14
Sample ID: Batch 4
Collection Date: 7/1/2014 10:35 AM

Work Order: 1407242
Lab ID: 1407242-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Fluorene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Pyrene	ND		7.6	µg/Kg-dry	1	7/8/2014 04:05 PM
Surr: 2-Fluorobiphenyl	56.1		12-100	%REC	1	7/8/2014 04:05 PM
Surr: 4-Terphenyl-d14	90.3		25-137	%REC	1	7/8/2014 04:05 PM
Surr: Nitrobenzene-d5	61.8		37-107	%REC	1	7/8/2014 04:05 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/7/14		Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	7/7/2014 05:13 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	7/7/2014 05:13 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	7/7/2014 05:13 PM
o-Xylene	ND		35	µg/Kg-dry	1	7/7/2014 05:13 PM
Toluene	ND		35	µg/Kg-dry	1	7/7/2014 05:13 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	7/7/2014 05:13 PM
Surr: 1,2-Dichloroethane-d4	110		70-130	%REC	1	7/7/2014 05:13 PM
Surr: 4-Bromofluorobenzene	89.2		70-130	%REC	1	7/7/2014 05:13 PM
Surr: Dibromofluoromethane	108		70-130	%REC	1	7/7/2014 05:13 PM
Surr: Toluene-d8	94.9		70-130	%REC	1	7/7/2014 05:13 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 7/9/14		Analyst: JB
Electrical Conductivity @ Saturation	3.8		0.050	mmhos/cm @25	10	7/10/2014 10:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	17		0.59	mg/Kg-dry	1	7/9/2014 10:25 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/7/14		Analyst: JI
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	7/8/2014 03:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	15		0.050	% of sample	1	7/7/2014 03:40 PM
PH			SW9045D	Prep: EXTRACT / 7/8/14		Analyst: AT
pH	8.8			s.u.	1	7/8/2014 05:01 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60326** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-60326-60326				Units: mg/Kg		Analysis Date: 7/7/2014 05:26 PM		
Client ID:		Run ID: GC8_140707A				SeqNo: 2839235		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.848	0	2	0	92.4	39-133		0		

LCS		Sample ID: DLCSS1-60326-60326				Units: mg/Kg		Analysis Date: 7/7/2014 05:56 PM		
Client ID:		Run ID: GC8_140707A				SeqNo: 2839236		Prep Date: 7/7/2014		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	81	61-109		0		
Surr: 4-Terphenyl-d14	1.719	0	2	0	85.9	39-133		0		

MS		Sample ID: 1407051-35A MS				Units: mg/Kg		Analysis Date: 7/7/2014 06:26 PM		
Client ID:		Run ID: GC8_140707A				SeqNo: 2839237		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	250.3	7.9	316.4	0	79.1	48-110		0		
Surr: 4-Terphenyl-d14	3.022	0	3.164	0	95.5	39-133		0		

MSD		Sample ID: 1407051-35A MSD				Units: mg/Kg		Analysis Date: 7/7/2014 06:56 PM		
Client ID:		Run ID: GC8_140707A				SeqNo: 2839238		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	246.4	8.3	332.1	0	74.2	48-110	250.3	1.6	30	
Surr: 4-Terphenyl-d14	2.712	0	3.321	0	81.7	39-133	3.022	10.8	30	

The following samples were analyzed in this batch: 1407242-01B

Client: HRL Compliance Solutions, Inc
 Work Order: 1407242
 Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60339** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-60339-60339				Units: µg/Kg		Analysis Date: 7/7/2014 03:09 PM		
Client ID:		Run ID: GC9_140707A				SeqNo: 2839863		Prep Date: 7/7/2014		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	5504	0	5000	0	110	50-150	0			

LCS		Sample ID: LCS-60339-60339				Units: µg/Kg		Analysis Date: 7/7/2014 02:44 PM		
Client ID:		Run ID: GC9_140707A				SeqNo: 2839862		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	382500	2,500	500000	0	76.5	70-130	0			
Surr: Toluene-d8	4717	0	5000	0	94.3	50-150	0			

MS		Sample ID: 1407242-01A MS				Units: µg/Kg		Analysis Date: 7/7/2014 04:01 PM		
Client ID: Batch 4		Run ID: GC9_140707A				SeqNo: 2839865		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	467500	2,500	500000	0	93.5	70-130	0			
Surr: Toluene-d8	5501	0	5000	0	110	50-150	0			

MSD		Sample ID: 1407242-01A MSD				Units: µg/Kg		Analysis Date: 7/7/2014 04:27 PM		
Client ID: Batch 4		Run ID: GC9_140707A				SeqNo: 2839866		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	519500	2,500	500000	0	104	70-130	467500	10.5	30	
Surr: Toluene-d8	5041	0	5000	0	101	50-150	5501	8.73	30	

The following samples were analyzed in this batch:

1407242-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60382** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-60382-60382				Units: mg/Kg		Analysis Date: 7/8/2014 05:50 PM		
Client ID:		Run ID: HG1_140708A				SeqNo: 2840538		Prep Date: 7/8/2014		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-60382-60382				Units: mg/Kg		Analysis Date: 7/8/2014 05:53 PM		
Client ID:		Run ID: HG1_140708A				SeqNo: 2840539		Prep Date: 7/8/2014		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: 1407217-02BMS				Units: mg/Kg		Analysis Date: 7/8/2014 05:59 PM		
Client ID:		Run ID: HG1_140708A				SeqNo: 2840542		Prep Date: 7/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1337 0.014 0.1192 0.001949 111 75-125 0

MSD		Sample ID: 1407217-02BMSD				Units: mg/Kg		Analysis Date: 7/8/2014 06:02 PM		
Client ID:		Run ID: HG1_140708A				SeqNo: 2840543		Prep Date: 7/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1412 0.015 0.1224 0.001949 114 75-125 0.1337 5.47 35

The following samples were analyzed in this batch:

1407242-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60340** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-60340-60340				Units: mg/Kg		Analysis Date: 7/8/2014 01:26 AM		
Client ID:		Run ID: ICPMS1_140707A				SeqNo: 2839474		Prep Date: 7/7/2014		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	0.0393	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.003143	0.25								J
Nickel	0.04072	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.2468	0.50								J

LCS		Sample ID: LCS-60340-60340				Units: mg/Kg		Analysis Date: 7/8/2014 01:32 AM		
Client ID:		Run ID: ICPMS1_140707A				SeqNo: 2839475		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.5	0.25	5	0	90	80-120	0			
Barium	4.804	0.25	5	0	96.1	80-120	0			
Cadmium	4.665	0.10	5	0	93.3	80-120	0			
Chromium	4.788	0.25	5	0	95.8	80-120	0			
Copper	4.65	0.25	5	0	93	80-120	0			
Lead	4.681	0.25	5	0	93.6	80-120	0			
Nickel	4.786	0.25	5	0	95.7	80-120	0			
Selenium	4.606	0.25	5	0	92.1	80-120	0			
Silver	4.729	0.25	5	0	94.6	80-120	0			
Zinc	4.566	0.50	5	0	91.3	80-120	0			

MS		Sample ID: 1407217-02BMS				Units: mg/Kg		Analysis Date: 7/8/2014 06:31 PM		
Client ID:		Run ID: ICPMS1_140708A				SeqNo: 2840751		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.289	0.34	6.849	0.4185	85.7	75-125	0			
Barium	8.075	0.34	6.849	1.319	98.6	75-125	0			
Cadmium	6.323	0.14	6.849	0.0769	91.2	75-125	0			
Chromium	8.24	0.34	6.849	2.459	84.4	75-125	0			
Copper	7.329	0.34	6.849	1.563	84.2	75-125	0			
Lead	7.233	0.34	6.849	1.144	88.9	75-125	0			
Nickel	11.92	0.34	6.849	6.36	81.2	75-125	0			
Selenium	6.518	0.34	6.849	0.1757	92.6	75-125	0			
Silver	6.229	0.34	6.849	0.007971	90.8	75-125	0			
Zinc	29.84	0.68	6.849	24.96	71.2	75-125	0			S

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60340** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1407217-02BMSD				Units: mg/Kg		Analysis Date: 7/8/2014 06:37 PM		
Client ID:		Run ID: ICPMS1_140708A				SeqNo: 2840752		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.589	0.35	6.916	0.4185	89.2	75-125	6.289	4.65	25	
Barium	8.534	0.35	6.916	1.319	104	75-125	8.075	5.52	25	
Cadmium	6.58	0.14	6.916	0.0769	94	75-125	6.323	3.97	25	
Chromium	9.108	0.35	6.916	2.459	96.1	75-125	8.24	10	25	
Copper	7.725	0.35	6.916	1.563	89.1	75-125	7.329	5.26	25	
Lead	7.663	0.35	6.916	1.144	94.3	75-125	7.233	5.77	25	
Nickel	12.51	0.35	6.916	6.36	88.9	75-125	11.92	4.85	25	
Selenium	6.643	0.35	6.916	0.1757	93.5	75-125	6.518	1.89	25	
Silver	6.432	0.35	6.916	0.007971	92.9	75-125	6.229	3.21	25	
Zinc	29.65	0.69	6.916	24.96	67.8	75-125	29.84	0.633	25	S

The following samples were analyzed in this batch: 1407242-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60348** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1407242-01CDUP				Units: mg/L		Analysis Date: 7/9/2014 03:45 PM		
Client ID: Batch 4		Run ID: ICPMS2_140709A				SeqNo: 2842312		Prep Date: 7/9/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	12.21	10	0	0	0	0-0	12.03	1.5		
Magnesium	22.04	4.0	0	0	0	0-0	23.42	6.07		
Sodium	652.8	4.0	0	0	0	0-0	680.2	4.11		

DUP		Sample ID: 1407242-01CDUP				Units: none		Analysis Date: 7/9/2014		
Client ID: Batch 4		Run ID: SAR_140709A				SeqNo: 2843069		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	25.8	0.010	0	0	0		26.32	2	50	

The following samples were analyzed in this batch: | 1407242-01C |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60325** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-60325-60325				Units: µg/Kg		Analysis Date: 7/8/2014 11:51 AM		
Client ID:		Run ID: SVMS8_140708A				SeqNo: 2840501		Prep Date: 7/7/2014		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>	1058	0	1667	0	63.5	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1646	0	1667	0	98.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1128	0	1667	0	67.7	37-107	0			

LCS		Sample ID: SLCSS1-60325-60325				Units: µg/Kg		Analysis Date: 7/8/2014 12:12 PM		
Client ID:		Run ID: SVMS8_140708A				SeqNo: 2840502		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	497	6.7	666.7	0	74.5	45-110	0			
Acenaphthylene	540.7	6.7	666.7	0	81.1	45-105	0			
Anthracene	566.3	6.7	666.7	0	84.9	55-105	0			
Benzo(a)anthracene	572.7	6.7	666.7	0	85.9	50-110	0			
Benzo(a)pyrene	628.7	6.7	666.7	0	94.3	50-110	0			
Benzo(b)fluoranthene	662	6.7	666.7	0	99.3	45-115	0			
Benzo(g,h,i)perylene	432.3	6.7	666.7	0	64.8	40-125	0			
Benzo(k)fluoranthene	589.3	6.7	666.7	0	88.4	45-115	0			
Chrysene	552.3	6.7	666.7	0	82.8	55-110	0			
Dibenzo(a,h)anthracene	503	6.7	666.7	0	75.4	40-125	0			
Fluoranthene	603.3	6.7	666.7	0	90.5	55-115	0			
Fluorene	533.7	6.7	666.7	0	80	50-110	0			
Indeno(1,2,3-cd)pyrene	527	6.7	666.7	0	79	40-120	0			
Naphthalene	463.7	6.7	666.7	0	69.5	40-105	0			
Pyrene	665.7	6.7	666.7	0	99.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1138	0	1667	0	68.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1789	0	1667	0	107	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1294	0	1667	0	77.6	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1407242
 Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: 60325 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 1407221-01A MS			Units: µg/Kg		Analysis Date: 7/8/2014 03:04 PM		
Client ID:		Run ID: SVMS8_140708A			SeqNo: 2840503		Prep Date: 7/7/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	865.1	13	1251	0	69.1	45-110	0				
Acenaphthylene	988.9	13	1251	0	79	45-105	0				
Anthracene	983.9	13	1251	11.57	77.7	55-105	0				
Benzo(a)anthracene	990.2	13	1251	0	79.1	50-110	0				
Benzo(a)pyrene	1098	13	1251	0	87.8	50-110	0				
Benzo(b)fluoranthene	1030	13	1251	0	82.3	45-115	0				
Benzo(g,h,i)perylene	968.9	13	1251	0	77.4	40-125	0				
Benzo(k)fluoranthene	939.5	13	1251	0	75.1	45-115	0				
Chrysene	923.9	13	1251	0	73.8	55-110	0				
Dibenzo(a,h)anthracene	1135	13	1251	0	90.7	40-125	0				
Fluoranthene	946.4	13	1251	16.53	74.3	55-115	0				
Fluorene	959.5	13	1251	0	76.7	50-110	0				
Indeno(1,2,3-cd)pyrene	1205	13	1251	0	96.3	40-120	0				
Naphthalene	720.6	13	1251	0	57.6	40-105	0				
Pyrene	1136	13	1251	5.619	90.3	45-125	0				
Surr: 2-Fluorobiphenyl	2052	0	3128	0	65.6	12-100	0				
Surr: 4-Terphenyl-d14	3289	0	3128	0	105	25-137	0				
Surr: Nitrobenzene-d5	2085	0	3128	0	66.7	37-107	0				

MSD				Sample ID: 1407221-01A MSD			Units: µg/Kg		Analysis Date: 7/8/2014 03:24 PM		
Client ID:			Run ID: SVMS8_140708A			SeqNo: 2840504		Prep Date: 7/7/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	874.3	13	1257	0	69.5	45-110	865.1	1.06	30		
Acenaphthylene	1003	13	1257	0	79.8	45-105	988.9	1.43	30		
Anthracene	917.7	13	1257	11.57	72.1	55-105	983.9	6.97	30		
Benzo(a)anthracene	810.8	13	1257	0	64.5	50-110	990.2	19.9	30		
Benzo(a)pyrene	893.1	13	1257	0	71	50-110	1098	20.6	30		
Benzo(b)fluoranthene	832.8	13	1257	0	66.2	45-115	1030	21.2	30		
Benzo(g,h,i)perylene	805.2	13	1257	0	64	40-125	968.9	18.5	30		
Benzo(k)fluoranthene	770	13	1257	0	61.2	45-115	939.5	19.8	30		
Chrysene	757.4	13	1257	0	60.2	55-110	923.9	19.8	30		
Dibenzo(a,h)anthracene	895.7	13	1257	0	71.2	40-125	1135	23.5	30		
Fluoranthene	803.9	13	1257	16.53	62.6	55-115	946.4	16.3	30		
Fluorene	964.2	13	1257	0	76.7	50-110	959.5	0.483	30		
Indeno(1,2,3-cd)pyrene	1021	13	1257	0	81.2	40-120	1205	16.5	30		
Naphthalene	747.3	13	1257	0	59.4	40-105	720.6	3.64	30		
Pyrene	937.8	13	1257	5.619	74.1	45-125	1136	19.1	30		
Surr: 2-Fluorobiphenyl	2086	0	3143	0	66.4	12-100	2052	1.66	40		
Surr: 4-Terphenyl-d14	3106	0	3143	0	98.8	25-137	3289	5.71	40		
Surr: Nitrobenzene-d5	2132	0	3143	0	67.8	37-107	2085	2.24	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60325** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1407242-01B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1407242
 Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60337** Instrument ID **VMS8** Method: **SW8260B**

MBLK				Sample ID: MBLK-60337-60337				Units: µg/Kg			Analysis Date: 7/7/2014 01:34 PM		
Client ID:			Run ID: VMS8_140707A				SeqNo: 2839687			Prep Date: 7/7/2014		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	1041	0	1000	0	104	70-130		0					
Surr: 4-Bromofluorobenzene	981.5	0	1000	0	98.2	70-130		0					
Surr: Dibromofluoromethane	990	0	1000	0	99	70-130		0					
Surr: Toluene-d8	1002	0	1000	0	100	70-130		0					

LCS				Sample ID: LCS-60337-60337			Units: µg/Kg		Analysis Date: 7/7/2014 11:07 AM		
Client ID:		Run ID: VMS8_140707A			SeqNo: 2839686		Prep Date: 7/7/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	994.5	30	1000	0	99.4	75-125	0				
Ethylbenzene	1047	30	1000	0	105	75-125	0				
m,p-Xylene	2071	60	2000	0	104	80-125	0				
o-Xylene	1023	30	1000	0	102	75-125	0				
Toluene	993	30	1000	0	99.3	70-125	0				
Xylenes, Total	3094	90	3000	0	103	75-125	0				
Surr: 1,2-Dichloroethane-d4	1042	0	1000	0	104	70-130	0				
Surr: 4-Bromofluorobenzene	993	0	1000	0	99.3	70-130	0				
Surr: Dibromofluoromethane	995	0	1000	0	99.5	70-130	0				
Surr: Toluene-d8	987	0	1000	0	98.7	70-130	0				

MS				Sample ID: 1407254-02A MS				Units: µg/Kg		Analysis Date: 7/10/2014 12:21 PM	
Client ID:			Run ID: VMS9_140709A			SeqNo: 2842522		Prep Date: 7/7/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	924.5	30	1000	16.5	90.8	75-125	0				
Ethylbenzene	785.5	30	1000	48.5	73.7	75-125	0			S	
m,p-Xylene	1595	60	2000	78	75.8	80-125	0			S	
o-Xylene	822	30	1000	0	82.2	75-125	0				
Toluene	893.5	30	1000	0	89.4	70-125	0				
Xylenes, Total	2417	90	3000	78	78	75-125	0				
Surr: 1,2-Dichloroethane-d4	1026	0	1000	0	103	70-130	0				
Surr: 4-Bromofluorobenzene	1074	0	1000	0	107	70-130	0				
Surr: Dibromofluoromethane	1030	0	1000	0	103	70-130	0				
Surr: Toluene-d8	1044	0	1000	0	104	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60337** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 1407254-02A MSD			Units: µg/Kg		Analysis Date: 7/10/2014 12:45 PM		
Client ID:			Run ID: VMS9_140709A			SeqNo: 2842523		Prep Date: 7/7/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	908	30	1000	16.5	89.2	75-125	924.5	1.8	30		
Ethylbenzene	770	30	1000	48.5	72.2	75-125	785.5	1.99	30	S	
m,p-Xylene	1574	60	2000	78	74.8	80-125	1595	1.29	30	S	
o-Xylene	804.5	30	1000	0	80.4	75-125	822	2.15	30		
Toluene	876.5	30	1000	0	87.6	70-125	893.5	1.92	30		
Xylenes, Total	2379	90	3000	78	76.7	75-125	2417	1.58	30		
Surr: 1,2-Dichloroethane-d4	1027	0	1000	0	103	70-130	1026	0.0487	30		
Surr: 4-Bromofluorobenzene	1052	0	1000	0	105	70-130	1074	2.07	30		
Surr: Dibromofluoromethane	1024	0	1000	0	102	70-130	1030	0.487	30		
Surr: Toluene-d8	1038	0	1000	0	104	70-130	1044	0.625	30		

The following samples were analyzed in this batch: 1407242-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60348** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1407242-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 7/10/2014 10:15 AM		
Client ID: Batch 4		Run ID: WETCHEM_140710A				SeqNo: 2842676		Prep Date: 7/9/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.91	0.050	0	0	0		3.77	3.65	50	

The following samples were analyzed in this batch:

1407242-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60366** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-60366-60366				Units: s.u.			Analysis Date: 7/8/2014 05:01 PM		
Client ID:				Run ID: WETCHEM_140708P				SeqNo: 2840457		Prep Date: 7/8/2014		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: 1407249-01B DUP				Units: s.u.			Analysis Date: 7/8/2014 05:01 PM			
Client ID:				Run ID: WETCHEM_140708P				SeqNo: 2840459			Prep Date: 7/8/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		7.83	0	0	0	0	0-0	7.89	0.763	20				

DUP				Sample ID: 1407254-09C DUP				Units: s.u.			Analysis Date: 7/8/2014 05:01 PM		
Client ID:				Run ID: WETCHEM_140708P				SeqNo: 2840469		Prep Date: 7/8/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		7.08	0	0	0	0	0-0	7.17	1.26	20			

The following samples were analyzed in this batch:

1407242-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **60378** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-60378-60378				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840260		Prep Date: 7/7/2014		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-60378-60378				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840261		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.924 0.50 2 0 96.2 80-120 0

MS		Sample ID: 1407266-07B MS				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840275		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.795 0.49 1.969 0 91.2 75-125 0

MS		Sample ID: 1407266-07B MSI				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840277		Prep Date: 7/7/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1112 50 1481 0 75.1 75-125 0

MSD		Sample ID: 1407266-07B MSD				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840276		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.85 0.49 1.976 0 93.6 75-125 1.795 2.99 20

The following samples were analyzed in this batch:

1407242-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1407242
Project: WPX RMV 229-27 Batch 4 7.1.14

QC BATCH REPORT

Batch ID: **R144000** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R144000				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839607		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-R144000				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839606		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: 14061448-03A DUP				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839582		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.52 0.050 0 0 0 0-0 14.68 1.1 20 H

DUP		Sample ID: 1407266-01A DUP				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839602		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.57 0.050 0 0 0 0-0 2.54 1.17 20

The following samples were analyzed in this batch:

1407242-01B

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

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 03-Jul-14 22:30

Work Order: 1407242

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

03-Jul-14
Date

Reviewed by: Chad Whelton
eSignature

07-Jul-14
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): 2.4 C

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 7/7/2014 9:08:53 AM

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (816) 389-6070
 Sample Receiving
 ALS Laboratory Group
 3352 128th Avenue
 Holland, MI 49424

Origin ID: GRRR



Ship Date: 02 JUL 14
 Acctg: 70 D L B
 CAD: 22046400NET3400
 Dims: 14 X 26 X 15 IN

Delivery Address Bar Code



SHIP TO: (816) 389-6070
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL TO:ENDER

Ref # 670214-1
 Invoice #
 PO # Parachute
 Dept #

HOLLAND, MI 49424

3 of 3

THU - 03 JUL 10:30A
 PRIORITY OVERNIGHT

MP# 7704 9894 0736

Matr# 7704 9894 0986

49424

MI-US
 GRR

68 GRRR



020604FF20

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04-Sep-2014

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

Re: **WPX RMV 229-27 Batch 5 8.27.14**

Work Order: **14081488**

Dear Mark,

ALS Environmental received 1 sample on 28-Aug-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 22.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 5 8.27.14
Work Order: 14081488

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>
14081488-01	Batch 5	Soil		8/27/2014 11:40	8/28/2014 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

<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-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 5 8.27.14
Sample ID: Batch 5
Collection Date: 8/27/2014 11:40 AM

Work Order: 14081488
Lab ID: 14081488-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	41		SW8015M		Prep: SW3541 / 8/29/14	Analyst: IT
Surr: 4-Terphenyl-d14	63.2		4.8	mg/Kg-dry	1	8/29/2014 08:03 PM
			39-133	%REC	1	8/29/2014 08:03 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 8/28/14	Analyst: IT
Surr: Toluene-d8	109		3.0	mg/Kg-dry	1	8/30/2014 05:35 AM
			50-150	%REC	1	8/30/2014 05:35 AM
MERCURY BY CVAA						
Mercury	0.022		SW7471		Prep: SW7471 / 9/2/14	Analyst: LR
			0.016	mg/Kg-dry	1	9/2/2014 04:19 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/3/14	Analyst: JEJ
Calcium	28		5.0	mg/L	10	9/3/2014 12:28 PM
Magnesium	23		2.0	mg/L	10	9/3/2014 12:28 PM
Sodium	840		2.0	mg/L	10	9/3/2014 12:28 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 8/29/14	Analyst: ML
Arsenic	4.4		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Barium	200		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Cadmium	ND		0.79	mg/Kg-dry	5	8/29/2014 07:24 PM
Chromium	16		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Copper	17		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Lead	7.9		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Nickel	34		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Selenium	ND		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Silver	ND		2.0	mg/Kg-dry	5	8/29/2014 07:24 PM
Zinc	38		3.9	mg/Kg-dry	5	8/29/2014 07:24 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/3/14	Analyst: JEJ
Sodium Adsorption Ratio	29		0.010	none	1	9/3/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 8/29/14	Analyst: MK
Acenaphthene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Anthracene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Chrysene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM

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

ALS Group USA, Corp

Date: 04-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 5 8.27.14
Sample ID: Batch 5
Collection Date: 8/27/2014 11:40 AM

Work Order: 14081488
Lab ID: 14081488-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Fluoranthene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Fluorene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Naphthalene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Pyrene	ND		7.7	µg/Kg-dry	1	9/1/2014 04:43 AM
Surr: 2-Fluorobiphenyl	57.2		12-100	%REC	1	9/1/2014 04:43 AM
Surr: 4-Terphenyl-d14	100		25-137	%REC	1	9/1/2014 04:43 AM
Surr: Nitrobenzene-d5	51.0		37-107	%REC	1	9/1/2014 04:43 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 8/28/14		Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	8/31/2014 09:38 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	8/31/2014 09:38 AM
m,p-Xylene	ND		71	µg/Kg-dry	1	8/31/2014 09:38 AM
o-Xylene	ND		36	µg/Kg-dry	1	8/31/2014 09:38 AM
Toluene	ND		36	µg/Kg-dry	1	8/31/2014 09:38 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	8/31/2014 09:38 AM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	8/31/2014 09:38 AM
Surr: 4-Bromofluorobenzene	98.2		70-130	%REC	1	8/31/2014 09:38 AM
Surr: Dibromofluoromethane	95.8		70-130	%REC	1	8/31/2014 09:38 AM
Surr: Toluene-d8	96.8		70-130	%REC	1	8/31/2014 09:38 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/3/14		Analyst: JB
Electrical Conductivity @ Saturation	4.4		0.050	mmhos/cm @25	10	9/3/2014 10:50 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	16		0.59	mg/Kg-dry	1	9/4/2014 09:50 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/2/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	9/3/2014 03:10 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	16		0.050	% of sample	1	8/29/2014 02:25 PM
PH			SW9045D	Prep: EXTRACT / 9/2/14		Analyst: JB
pH	9.3			s.u.	1	9/2/2014 01:30 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62206** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-62206-62206				Units: mg/Kg		Analysis Date: 8/29/2014 06:03 PM		
Client ID:		Run ID: GC8_140829A				SeqNo: 2913138		Prep Date: 8/29/2014		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								
Surr: 4-Terphenyl-d14	1.07	0	1.667	0	64.2	39-133	0			

LCS		Sample ID: DLCSS1-62206-62206				Units: mg/Kg		Analysis Date: 8/29/2014 06:33 PM		
Client ID:		Run ID: GC8_140829A				SeqNo: 2913139		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.1	4.2	166.7	0	80.5	61-109	0			
Surr: 4-Terphenyl-d14	1.156	0	1.667	0	69.4	39-133	0			

MS		Sample ID: 14081488-01B MS				Units: mg/Kg		Analysis Date: 8/29/2014 07:03 PM		
Client ID: Batch 5		Run ID: GC8_140829A				SeqNo: 2913140		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	276.2	8.2	329.5	34.68	73.3	48-110	0			
Surr: 4-Terphenyl-d14	2.298	0	3.295	0	69.7	39-133	0			

MSD		Sample ID: 14081488-01B MSD				Units: mg/Kg		Analysis Date: 8/29/2014 07:33 PM		
Client ID: Batch 5		Run ID: GC8_140829A				SeqNo: 2913141		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	272.9	8.0	320.7	34.68	74.3	48-110	276.2	1.19	30	
Surr: 4-Terphenyl-d14	2.32	0	3.207	0	72.3	39-133	2.298	0.956	30	

The following samples were analyzed in this batch: | 14081488-01B |

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62161** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-62161-62161				Units: µg/Kg		Analysis Date: 8/28/2014 02:35 PM		
Client ID:		Run ID: GC9_140828A				SeqNo: 2908940		Prep Date: 8/28/2014		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>	4781	0	5000	0	95.6	50-150	0			

LCS		Sample ID: LCS-62161-62161				Units: µg/Kg		Analysis Date: 8/28/2014 02:09 PM		
Client ID:		Run ID: GC9_140828A				SeqNo: 2908939		Prep Date: 8/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	536400	2,500	500000	0	107	70-130	0			
<i>Surr: Toluene-d8</i>	5945	0	5000	0	119	50-150	0			

MS		Sample ID: 14081237-01A MS				Units: µg/Kg		Analysis Date: 8/29/2014 02:46 AM		
Client ID:		Run ID: GC9_140828A				SeqNo: 2909212		Prep Date: 8/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	532200	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	6074	0	5000	0	121	50-150	0			

MSD		Sample ID: 14081237-01A MSD				Units: µg/Kg		Analysis Date: 8/29/2014 03:11 AM		
Client ID:		Run ID: GC9_140828A				SeqNo: 2909214		Prep Date: 8/28/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	487100	2,500	500000	0	97.4	70-130	532200	8.86	30	
<i>Surr: Toluene-d8</i>	5918	0	5000	0	118	50-150	6074	2.6	30	

The following samples were analyzed in this batch:

14081488-01A

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62252** Instrument ID **HG1** Method: **SW7471**

MBLK				Sample ID: MBLK-62252-62252				Units: mg/Kg			Analysis Date: 9/2/2014 04:05 PM												
Client ID:				Run ID: HG1_140902A				SeqNo: 2914185			Prep Date: 9/2/2014		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-62252-62252				Units:mg/Kg			Analysis Date: 9/2/2014 04:07 PM												
Client ID:				Run ID: HG1_140902A				SeqNo:2914186		Prep Date: 9/2/2014		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Mercury 0.1605 0.020 0.1665 0 96.4 80-120 0

MS				Sample ID: 14081580-05BMS				Units:mg/Kg				Analysis Date: 9/2/2014 04:44 PM																															
Client ID:				Run ID: HG1_140902A				SeqNo:2914210				Prep Date: 9/2/2014				DF: 1																											
Analyte				Result				PQL				SPK Val				SPK Ref Value				%REC				Control Limit				RPD Ref Value				%RPD				RPD Limit				Qual			

Mercury 0.1144 0.013 0.1048 0.006092 103 75-125 0

MSD				Sample ID: 14081580-05BMSD				Units:mg/Kg			Analysis Date: 9/2/2014 04:47 PM					
Client ID:				Run ID: HG1_140902A				SeqNo:2914211		Prep Date: 9/2/2014		DF: 1				
Analyte				Result		PQL		SPK Val		SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1144 0.012 0.1027 0.006092 105 75-125 0.1144 0.0112 35

The following samples were analyzed in this batch:

14081488-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62189** Instrument ID **SAR** Method: **USDA H60 Method**

DUP				Sample ID: 14081480-01CDUP				Units:none			Analysis Date: 9/3/2014				
Client ID:				Run ID: SAR_140903A				SeqNo:2915545			Prep Date: 9/3/2014			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Sodium Adsorption Ratio		4.708	0.010	0	0	0		4.64	1.47	50					

The following samples were analyzed in this batch:

14081488-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62215** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-62215-62215				Units: mg/Kg		Analysis Date: 8/29/2014 04:58 PM		
Client ID:		Run ID: ICPMS1_140829A				SeqNo: 2912798		Prep Date: 8/29/2014		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	ND	0.25								
Zinc	0.0755	0.50								J

LCS		Sample ID: LCS-62215-62215				Units: mg/Kg		Analysis Date: 8/29/2014 05:05 PM		
Client ID:		Run ID: ICPMS1_140829A				SeqNo: 2912799		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.47	0.25	5	0	89.4	80-120	0			
Barium	4.514	0.25	5	0	90.3	80-120	0			
Cadmium	4.539	0.10	5	0	90.8	80-120	0			
Chromium	4.674	0.25	5	0	93.5	80-120	0			
Copper	4.541	0.25	5	0	90.8	80-120	0			
Lead	4.416	0.25	5	0	88.3	80-120	0			
Nickel	4.682	0.25	5	0	93.6	80-120	0			
Selenium	4.436	0.25	5	0	88.7	80-120	0			
Silver	4.452	0.25	5	0	89	80-120	0			
Zinc	4.666	0.50	5	0	93.3	80-120	0			

MS		Sample ID: 14081493-05BMS				Units: mg/Kg		Analysis Date: 8/29/2014 07:48 PM		
Client ID:		Run ID: ICPMS1_140829A				SeqNo: 2912847		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.17	0.37	7.44	0.5493	89	75-125	0			
Barium	15.21	0.37	7.44	6.565	116	75-125	0			
Cadmium	6.769	0.15	7.44	0.02481	90.6	75-125	0			
Chromium	9.42	0.37	7.44	1.978	100	75-125	0			
Copper	7.783	0.37	7.44	0.9567	91.7	75-125	0			
Lead	7.932	0.37	7.44	1.457	87	75-125	0			
Nickel	9.115	0.37	7.44	1.857	97.5	75-125	0			
Selenium	6.579	0.37	7.44	0.2993	84.4	75-125	0			
Silver	6.416	0.37	7.44	0.002176	86.2	75-125	0			
Zinc	17.15	0.74	7.44	8.543	116	75-125	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62215** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14081493-05BMSD				Units: mg/Kg		Analysis Date: 8/29/2014 08:13 PM		
Client ID:		Run ID: ICPMS1_140829A				SeqNo: 2912855		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.955	0.37	7.375	0.5493	86.9	75-125	7.17	3.05	25	
Barium	14.91	0.37	7.375	6.565	113	75-125	15.21	1.97	25	
Cadmium	6.587	0.15	7.375	0.02481	89	75-125	6.769	2.73	25	
Chromium	9.58	0.37	7.375	1.978	103	75-125	9.42	1.68	25	
Copper	7.574	0.37	7.375	0.9567	89.7	75-125	7.783	2.72	25	
Lead	7.662	0.37	7.375	1.457	84.1	75-125	7.932	3.45	25	
Nickel	8.945	0.37	7.375	1.857	96.1	75-125	9.115	1.87	25	
Selenium	6.508	0.37	7.375	0.2993	84.2	75-125	6.579	1.08	25	
Silver	6.333	0.37	7.375	0.002176	85.8	75-125	6.416	1.31	25	
Zinc	16.18	0.74	7.375	8.543	104	75-125	17.15	5.82	25	

The following samples were analyzed in this batch: 14081488-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62205** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-62205-62205				Units: µg/Kg		Analysis Date: 8/31/2014 11:21 AM		
Client ID:		Run ID: SVMS4_140831A				SeqNo: 2912500		Prep Date: 8/29/2014		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>	1269	0	1667	0	76.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1566	0	1667	0	94	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	934.3	0	1667	0	56.1	37-107	0			

LCS		Sample ID: SLCSS1-62205-62205				Units: µg/Kg		Analysis Date: 8/31/2014 11:45 AM		
Client ID:		Run ID: SVMS4_140831A				SeqNo: 2912501		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	494	6.7	666.7	0	74.1	45-110	0			
Acenaphthylene	512.3	6.7	666.7	0	76.8	45-105	0			
Anthracene	553	6.7	666.7	0	82.9	55-105	0			
Benzo(a)anthracene	550.3	6.7	666.7	0	82.5	50-110	0			
Benzo(a)pyrene	576.3	6.7	666.7	0	86.4	50-110	0			
Benzo(b)fluoranthene	599.3	6.7	666.7	0	89.9	45-115	0			
Benzo(g,h,i)perylene	616	6.7	666.7	0	92.4	40-125	0			
Benzo(k)fluoranthene	574.3	6.7	666.7	0	86.1	45-115	0			
Chrysene	562	6.7	666.7	0	84.3	55-110	0			
Dibenzo(a,h)anthracene	643.3	6.7	666.7	0	96.5	40-125	0			
Fluoranthene	518.7	6.7	666.7	0	77.8	55-115	0			
Fluorene	547.7	6.7	666.7	0	82.1	50-110	0			
Indeno(1,2,3-cd)pyrene	720.7	6.7	666.7	0	108	40-120	0			
Naphthalene	521	6.7	666.7	0	78.1	40-105	0			
Pyrene	584.7	6.7	666.7	0	87.7	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1287	0	1667	0	77.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1508	0	1667	0	90.5	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1019	0	1667	0	61.1	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62205** Instrument ID **SVMS4** Method: **SW846 8270D**

MS				Sample ID: 14081335-02A MS			Units: µg/Kg		Analysis Date: 8/31/2014 01:36 PM	
Client ID:		Run ID: SVMS4_140831A			SeqNo: 2912502		Prep Date: 8/29/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	971.4	13	1301	0	74.6	45-110	0			
Acenaphthylene	972.7	13	1301	0	74.7	45-105	0			
Anthracene	1139	13	1301	0	87.5	55-105	0			
Benzo(a)anthracene	1160	13	1301	91.12	82.1	50-110	0			
Benzo(a)pyrene	1234	13	1301	0	94.8	50-110	0			
Benzo(b)fluoranthene	1282	13	1301	0	98.5	45-115	0			
Benzo(g,h,i)perylene	1371	13	1301	0	105	40-125	0			
Benzo(k)fluoranthene	1176	13	1301	0	90.4	45-115	0			
Chrysene	1180	13	1301	0	90.6	55-110	0			
Dibenzo(a,h)anthracene	1380	13	1301	0	106	40-125	0			
Fluoranthene	1079	13	1301	0	82.9	55-115	0			
Fluorene	1098	13	1301	0	84.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1571	13	1301	117.4	112	40-120	0			
Naphthalene	905.7	13	1301	0	69.6	40-105	0			
Pyrene	1235	13	1301	0	94.9	45-125	0			
Surr: 2-Fluorobiphenyl	2560	0	3253	0	78.7	12-100	0			
Surr: 4-Terphenyl-d14	3229	0	3253	0	99.3	25-137	0			
Surr: Nitrobenzene-d5	1986	0	3253	0	61.1	37-107	0			

MSD				Sample ID: 14081335-02A MSD			Units: µg/Kg		Analysis Date: 8/31/2014 02:00 PM	
Client ID:		Run ID: SVMS4_140831A			SeqNo: 2912503		Prep Date: 8/29/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	944.7	13	1296	0	72.9	45-110	971.4	2.79	30	
Acenaphthylene	934.3	13	1296	0	72.1	45-105	972.7	4.03	30	
Anthracene	1127	13	1296	0	87	55-105	1139	1.05	30	
Benzo(a)anthracene	1122	13	1296	91.12	79.5	50-110	1160	3.38	30	
Benzo(a)pyrene	1201	13	1296	0	92.7	50-110	1234	2.71	30	
Benzo(b)fluoranthene	1223	13	1296	0	94.3	45-115	1282	4.78	30	
Benzo(g,h,i)perylene	1293	13	1296	0	99.7	40-125	1371	5.88	30	
Benzo(k)fluoranthene	1160	13	1296	0	89.5	45-115	1176	1.42	30	
Chrysene	1111	13	1296	0	85.7	55-110	1180	5.98	30	
Dibenzo(a,h)anthracene	1317	13	1296	0	102	40-125	1380	4.66	30	
Fluoranthene	1080	13	1296	0	83.3	55-115	1079	0.119	30	
Fluorene	1092	13	1296	0	84.3	50-110	1098	0.481	30	
Indeno(1,2,3-cd)pyrene	1491	13	1296	117.4	106	40-120	1571	5.21	30	
Naphthalene	929.1	13	1296	0	71.7	40-105	905.7	2.55	30	
Pyrene	1182	13	1296	0	91.2	45-125	1235	4.34	30	
Surr: 2-Fluorobiphenyl	2438	0	3240	0	75.3	12-100	2560	4.89	40	
Surr: 4-Terphenyl-d14	3104	0	3240	0	95.8	25-137	3229	3.97	40	
Surr: Nitrobenzene-d5	1864	0	3240	0	57.5	37-107	1986	6.36	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62205** Instrument ID **SVMS4** Method: **SW846 8270D**

The following samples were analyzed in this batch:

14081488-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62190** Instrument ID **VMS8** Method: **SW8260B**

MBLK				Sample ID: MBLK-62190-62190				Units: µg/Kg			Analysis Date: 8/29/2014 04:47 AM		
Client ID:			Run ID: VMS8_140828A			SeqNo: 2910455			Prep Date: 8/28/2014		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	999	0	1000	0	99.9	70-130		0					
Surr: 4-Bromofluorobenzene	972	0	1000	0	97.2	70-130		0					
Surr: Dibromofluoromethane	972.5	0	1000	0	97.2	70-130		0					
Surr: Toluene-d8	984.5	0	1000	0	98.4	70-130		0					

LCS				Sample ID: LCS-62190-62190			Units: µg/Kg		Analysis Date: 8/29/2014 02:45 AM		
Client ID:			Run ID: VMS8_140828A			SeqNo: 2910453		Prep Date: 8/28/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1046	30	1000	0	105	75-125	0				
Ethylbenzene	1074	30	1000	0	107	75-125	0				
m,p-Xylene	2144	60	2000	0	107	80-125	0				
o-Xylene	1051	30	1000	0	105	75-125	0				
Toluene	1038	30	1000	0	104	70-125	0				
Xylenes, Total	3195	90	3000	0	106	75-125	0				
Surr: 1,2-Dichloroethane-d4	993	0	1000	0	99.3	70-130	0				
Surr: 4-Bromofluorobenzene	1022	0	1000	0	102	70-130	0				
Surr: Dibromofluoromethane	1010	0	1000	0	101	70-130	0				
Surr: Toluene-d8	1003	0	1000	0	100	70-130	0				

The following samples were analyzed in this batch:

14081488-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62189** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14081480-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 9/3/2014 10:50 AM		
Client ID:		Run ID: WETCHEM_140903B				SeqNo: 2915140		Prep Date: 9/3/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.9	0.050	0	0	0		4.59	6.53	50	

The following samples were analyzed in this batch:

14081488-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62294** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-62294-62294					Units:s.u.			Analysis Date: 9/2/2014 01:30 PM			
Client ID:					Run ID: WETCHEM_140902D					SeqNo:2913501			Prep Date: 9/2/2014		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: 14081489-01B DUP					Units: s.u.			Analysis Date: 9/2/2014 01:30 PM		
Client ID:				Run ID: WETCHEM_140902D				SeqNo: 2913507			Prep Date: 9/2/2014		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		9.21	0	0	0	0	0-0	9.19	0.217	20					

The following samples were analyzed in this batch:

14081488-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **62296** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-62296-62296				Units: mg/Kg		Analysis Date: 9/3/2014 03:10 PM		
Client ID:		Run ID: WETCHEM_140903K				SeqNo: 2916006		Prep Date: 9/2/2014		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-62296-62296				Units: mg/Kg		Analysis Date: 9/3/2014 03:10 PM		
Client ID:		Run ID: WETCHEM_140903K				SeqNo: 2916005		Prep Date: 9/2/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.872 0.50 2 0 93.6 80-120 0

MS		Sample ID: 14081376-65A MS				Units: mg/Kg		Analysis Date: 9/3/2014 03:10 PM		
Client ID:		Run ID: WETCHEM_140903K				SeqNo: 2915990		Prep Date: 9/2/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.912 0.50 1.992 2.405 75.7 75-125 0

MS		Sample ID: 14081376-65A MSI				Units: mg/Kg		Analysis Date: 9/3/2014 03:10 PM		
Client ID:		Run ID: WETCHEM_140903K				SeqNo: 2915992		Prep Date: 9/2/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 950 49 994.5 2.405 95.3 75-125 0

MSD		Sample ID: 14081376-65A MSD				Units: mg/Kg		Analysis Date: 9/3/2014 03:10 PM		
Client ID:		Run ID: WETCHEM_140903K				SeqNo: 2915991		Prep Date: 9/2/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.765 0.50 1.992 2.405 118 75-125 3.912 19.7 20

The following samples were analyzed in this batch:

14081488-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081488
Project: WPX RMV 229-27 Batch 5 8.27.14

QC BATCH REPORT

Batch ID: **R147303** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R147303				Units: % of sample		Analysis Date: 8/29/2014 02:25 PM		
Client ID:		Run ID: MOIST_140829H				SeqNo: 2911744		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-R147303				Units: % of sample		Analysis Date: 8/29/2014 02:25 PM		
Client ID:		Run ID: MOIST_140829H				SeqNo: 2911740		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: 14081455-07ADUP				Units: % of sample		Analysis Date: 8/29/2014 02:25 PM		
Client ID:		Run ID: MOIST_140829H				SeqNo: 2911735		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.33 0.050 0 0 0 0-0 7.06 16.5 20

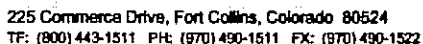
DUP		Sample ID: 14081488-01BDUP				Units: % of sample		Analysis Date: 8/29/2014 02:25 PM		
Client ID: Batch 5		Run ID: MOIST_140829H				SeqNo: 2911737		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.34 0.050 0 0 0 0-0 15.51 7.84 20

The following samples were analyzed in this batch:

14081488-01B

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







Form 203-8

14081488

1 of 1

By Lab or Return to Client

For metals or anions, please detail analytes below.

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Reed W. B.	8/27/14	12100
RECEIVED BY		Reed W. B.	8-27	1710
RELINQUISHED BY		Reed W. B.	8-27	1700
RECEIVED BY		Reed W. B.	8/28/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **28-Aug-14 09:30**

Work Order: **14081488**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

28-Aug-14
Date

Reviewed by: Ann Preston
eSignature

28-Aug-14
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>4.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/28/2014 1:50:04 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (816) 399-6070
 Nick Martinez
 ALS Environmental
 127 E. 1st Street

Origin ID: HLMA



Ship Date: 27AUG14
 Actual Wgt: 64.0 LB
 CAD: 2264846/NET3550

Dims: 24 X 15 X 15 W

PARACHUTE, MI 49424



Delivery Address Bar Code



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

BILL GENDER

Ref # 082714-2
 Invoice #
 PO # Parachute
 Dept #

HOLLAND, MI 49424

2 of 3

THU - 28 AUG 10:30A
 PRIORITY OVERNIGHT

MP# 7709 7048 4375

0263

Mstr# 7709 7048 4103

0281

49424

MI-US

GRR

68 HLMA



922GUECF28AC9

After printing this label:

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ALS Parachute Custody Seal

DATE

8/27

Time

1710

Name

W/M



25-Sep-2014

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

Re: **WPX RMV 229-27 Batch 6 9.19.14**

Work Order: **14091028**

Dear Mark,

ALS Environmental received 1 sample on 20-Sep-2014 10:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 6 9.19.14
Work Order: 14091028

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>
14091028-01	Batch 6	Soil		9/19/2014 10:20	9/20/2014 10:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 6 9.19.14
Work Order: 14091028

Case Narrative

Batch 63010 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 63022 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 63103 sample Batch 6 MS/MSD recoveries for Hexavalent Chromium were below the lower control limit. The corresponding result in the parent sample may be biased low for 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: 25-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 6 9.19.14
Sample ID: Batch 6
Collection Date: 9/19/2014 10:20 AM

Work Order: 14091028
Lab ID: 14091028-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 9/22/14	Analyst: IT
DRO (C10-C28)	150		4.8	mg/Kg-dry	1	9/23/2014 12:42 PM
Surr: 4-Terphenyl-d14	73.0		39-133	%REC	1	9/23/2014 12:42 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 9/22/14	Analyst: IT
GRO (C6-C10)	55		3.0	mg/Kg-dry	1	9/22/2014 03:32 PM
Surr: Toluene-d8	108		50-150	%REC	1	9/22/2014 03:32 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 9/22/14	Analyst: LR
Mercury	0.020		0.016	mg/Kg-dry	1	9/22/2014 10:16 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/24/14	Analyst: JEC
Calcium	11		5.0	mg/L	10	9/24/2014 11:40 AM
Magnesium	18		2.0	mg/L	10	9/24/2014 11:40 AM
Sodium	360		2.0	mg/L	10	9/24/2014 11:40 AM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 9/22/14	Analyst: ML
Arsenic	4.8		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Barium	200		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Cadmium	ND		0.92	mg/Kg-dry	5	9/23/2014 01:01 AM
Chromium	19		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Copper	19		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Lead	8.9		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Nickel	35		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Selenium	3.0		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Silver	ND		2.3	mg/Kg-dry	5	9/23/2014 01:01 AM
Zinc	43		4.6	mg/Kg-dry	5	9/23/2014 01:01 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/24/14	Analyst: JEC
Sodium Adsorption Ratio	15		0.010	none	1	9/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 9/22/14	Analyst: JG
Acenaphthene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Anthracene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Chrysene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM

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

ALS Group USA, Corp

Date: 25-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 229-27 Batch 6 9.19.14
Sample ID: Batch 6
Collection Date: 9/19/2014 10:20 AM

Work Order: 14091028
Lab ID: 14091028-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Fluorene	16		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Pyrene	ND		7.6	µg/Kg-dry	1	9/23/2014 04:44 PM
Surr: 2-Fluorobiphenyl	80.8		12-100	%REC	1	9/23/2014 04:44 PM
Surr: 4-Terphenyl-d14	119		25-137	%REC	1	9/23/2014 04:44 PM
Surr: Nitrobenzene-d5	71.6		37-107	%REC	1	9/23/2014 04:44 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 9/22/14		Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	9/22/2014 05:42 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/22/2014 05:42 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	9/22/2014 05:42 PM
o-Xylene	ND		35	µg/Kg-dry	1	9/22/2014 05:42 PM
Toluene	ND		35	µg/Kg-dry	1	9/22/2014 05:42 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/22/2014 05:42 PM
Surr: 1,2-Dichloroethane-d4	92.7		70-130	%REC	1	9/22/2014 05:42 PM
Surr: 4-Bromofluorobenzene	114		70-130	%REC	1	9/22/2014 05:42 PM
Surr: Dibromofluoromethane	101		70-130	%REC	1	9/22/2014 05:42 PM
Surr: Toluene-d8	101		70-130	%REC	1	9/22/2014 05:42 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/24/14		Analyst: JB
Electrical Conductivity @ Saturation	2.0		0.050	mmhos/cm @25	10	9/24/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	19		0.59	mg/Kg-dry	1	9/24/2014 03:56 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/22/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	9/24/2014 09:45 AM
MOISTURE			A2540 G			Analyst: RLM
Moisture	15		0.050	% of sample	1	9/22/2014 10:30 AM
PH			SW9045D	Prep: EXTRACT / 9/22/14		Analyst: JB
pH	8.9			s.u.	1	9/23/2014 08:45 AM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63010** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-63010-63010				Units: mg/Kg		Analysis Date: 9/22/2014 05:22 PM		
Client ID:		Run ID: GC8_140922A				SeqNo: 2947982		Prep Date: 9/22/2014		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								
Surr: 4-Terphenyl-d14	1.345	0	1.667	0	80.7	39-133	0			

LCS		Sample ID: DLCSS1-63010-63010				Units: mg/Kg		Analysis Date: 9/22/2014 05:49 PM		
Client ID:		Run ID: GC8_140922A				SeqNo: 2947985		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	169.3	4.2	166.7	0	102	61-109	0			
Surr: 4-Terphenyl-d14	1.305	0	1.667	0	78.3	39-133	0			

MS		Sample ID: 14091000-03B MS				Units: mg/Kg		Analysis Date: 9/23/2014 10:42 AM		
Client ID:		Run ID: GC8_140923A				SeqNo: 2948157		Prep Date: 9/22/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	8522	80	321.3	5668	888	48-110	0			SO
Surr: 4-Terphenyl-d14	7.738	0	3.213	0	241	39-133	0			S

MSD		Sample ID: 14091000-03B MSD				Units: mg/Kg		Analysis Date: 9/23/2014 11:10 AM		
Client ID:		Run ID: GC8_140923A				SeqNo: 2948160		Prep Date: 9/22/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	9230	81	324.3	5668	1100	48-110	8522	7.98	30	SO
Surr: 4-Terphenyl-d14	3.1	0	3.243	0	95.6	39-133	7.738	85.6	30	R

The following samples were analyzed in this batch: 14091028-01B

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63020** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-63020-63020				Units: µg/Kg		Analysis Date: 9/22/2014 01:24 PM		
Client ID:		Run ID: GC9_140922A				SeqNo: 2946717		Prep Date: 9/22/2014		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>	4742	0	5000	0	94.8	50-150	0			

LCS		Sample ID: LCS-63020-63020				Units: µg/Kg		Analysis Date: 9/22/2014 12:59 PM		
Client ID:		Run ID: GC9_140922A				SeqNo: 2946715		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	534800	2,500	500000	0	107	70-130	0			
<i>Surr: Toluene-d8</i>	4522	0	5000	0	90.4	50-150	0			

MS		Sample ID: 1409892-01A MS				Units: µg/Kg		Analysis Date: 9/22/2014 04:23 PM		
Client ID:		Run ID: GC9_140922A				SeqNo: 2947635		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	550800	2,500	500000	0	110	70-130	0			
<i>Surr: Toluene-d8</i>	4463	0	5000	0	89.3	50-150	0			

MSD		Sample ID: 1409892-01A MSD				Units: µg/Kg		Analysis Date: 9/22/2014 04:48 PM		
Client ID:		Run ID: GC9_140922A				SeqNo: 2947636		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	525000	2,500	500000	0	105	70-130	550800	4.8	30	
<i>Surr: Toluene-d8</i>	4456	0	5000	0	89.1	50-150	4463	0.168	30	

The following samples were analyzed in this batch: 14091028-01A

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63045** Instrument ID **HG1** Method: **SW7471**

Sample ID: MBLK-63045-63045				Units: mg/Kg			Analysis Date: 9/22/2014 10:04 PM				
Client ID:			Run ID: HG1_140922A			SeqNo: 2947250		Prep Date: 9/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.004667	0.020								J	

LCS				Sample ID: LCS-63045-63045				Units:mg/Kg			Analysis Date: 9/22/2014 10:06 PM			
Client ID:				Run ID: HG1_140922A				SeqNo:2947251			Prep Date: 9/22/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Mercury		0.1818	0.020	0.1665	0	109	80-120	0						

MS	Sample ID: 1409900-09BMS					Units:mg/Kg		Analysis Date: 9/22/2014 10:58 PM			
	Client ID:		Run ID: HG1_140922A			SeqNo:2947273		Prep Date: 9/22/2014		DF: 1	
	Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
	Mercury	0.1207	0.012	0.1023	0.01173	107	75-125		0		

MSD				Sample ID: 1409900-09BMSD				Units:mg/Kg			Analysis Date: 9/22/2014 11:00 PM			
Client ID:				Run ID: HG1_140922A				SeqNo:2947274			Prep Date: 9/22/2014		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury				0.1227	0.012	0.1036	0.01173	107	75-125	0.1207	1.64	35		

The following samples were analyzed in this batch:

14091028-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63077** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 14091026-01CDUP				Units: mg/L		Analysis Date: 9/24/2014 11:30 AM		
Client ID:		Run ID: ICP2_140924A				SeqNo: 2950218		Prep Date: 9/24/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	302.6	5.0	0	0	0	0-0	0			
Magnesium	46.85	2.0	0	0	0	0-0	0			
Sodium	312.5	2.0	0	0	0	0-0	0			

The following samples were analyzed in this batch:

14091028-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63022** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-63022-63022				Units: mg/Kg		Analysis Date: 9/22/2014 12:43 PM		
Client ID:		Run ID: ICPMS1_140922A				SeqNo: 2946618		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.03789	0.25								J
Barium	ND	0.25								
Cadmium	0.002467	0.10								J
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	0.002411	0.25								J
Zinc	0.7365	0.50								

MBLK		Sample ID: MBLK-63022-63022				Units: mg/Kg		Analysis Date: 9/22/2014 04:56 PM		
Client ID:		Run ID: ICPMS1_140922A				SeqNo: 2946890		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	0.139	0.50								J

LCS		Sample ID: LCS-63022-63022				Units: mg/Kg		Analysis Date: 9/22/2014 12:49 PM		
Client ID:		Run ID: ICPMS1_140922A				SeqNo: 2946619		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.478	0.25	5	0	89.6	80-120	0			
Barium	4.658	0.25	5	0	93.2	80-120	0			
Cadmium	4.666	0.10	5	0	93.3	80-120	0			
Chromium	4.848	0.25	5	0	97	80-120	0			
Copper	4.852	0.25	5	0	97	80-120	0			
Lead	4.669	0.25	5	0	93.4	80-120	0			
Nickel	4.794	0.25	5	0	95.9	80-120	0			
Selenium	4.376	0.25	5	0	87.5	80-120	0			
Silver	4.719	0.25	5	0	94.4	80-120	0			
Zinc	4.777	0.50	5	0	95.5	80-120	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63022** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 14091025-01BMS			Units:mg/Kg		Analysis Date: 9/22/2014 01:15 PM		
Client ID:			Run ID: ICPMS1_140922A			SeqNo:2946622		Prep Date: 9/22/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	12.11	1.9	7.68	4.559	98.3	75-125	0				
Barium	232.7	1.9	7.68	280.3	-619	75-125	0			SO	
Cadmium	8.395	0.77	7.68	0.6763	100	75-125	0				
Chromium	19.54	1.9	7.68	10.18	122	75-125	0				
Copper	22.04	1.9	7.68	13.4	113	75-125	0				
Lead	30.38	1.9	7.68	26.5	50.5	75-125	0			S	
Nickel	23.96	1.9	7.68	14.43	124	75-125	0				
Selenium	9.363	1.9	7.68	2.707	86.7	75-125	0				
Silver	7.385	1.9	7.68	0.08654	95	75-125	0				
Zinc	67.74	3.8	7.68	55.38	161	75-125	0			SO	

MSD				Sample ID: 14091025-01BMSD			Units:mg/Kg		Analysis Date: 9/22/2014 01:21 PM		
Client ID:			Run ID: ICPMS1_140922A			SeqNo:2946623		Prep Date: 9/22/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	10.85	1.9	7.764	4.559	81	75-125	12.11	11	25		
Barium	211.2	1.9	7.764	280.3	-889	75-125	232.7	9.69	25	SO	
Cadmium	8.113	0.78	7.764	0.6763	95.8	75-125	8.395	3.41	25		
Chromium	17.97	1.9	7.764	10.18	100	75-125	19.54	8.35	25		
Copper	18.98	1.9	7.764	13.4	71.9	75-125	22.04	14.9	25	S	
Lead	22.85	1.9	7.764	26.5	-47.1	75-125	30.38	28.3	25	SR	
Nickel	21.15	1.9	7.764	14.43	86.4	75-125	23.96	12.5	25		
Selenium	9.049	1.9	7.764	2.707	81.7	75-125	9.363	3.41	25		
Silver	7.069	1.9	7.764	0.08654	89.9	75-125	7.385	4.37	25		
Zinc	59.98	3.9	7.764	55.38	59.2	75-125	67.74	12.2	25	SO	

The following samples were analyzed in this batch:

14091028-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63077** Instrument ID **SAR** Method: **USDA H60 Method**

DUP		Sample ID: 14091026-01CDUP				Units:none		Analysis Date: 9/24/2014		
Client ID:		Run ID: SAR_140924A				SeqNo:2950228		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
Sodium Adsorption Ratio	4.415	0.010	0	0	0		4.213	4.67	50	

The following samples were analyzed in this batch:

14091028-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63011** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-63011-63011				Units: µg/Kg		Analysis Date: 9/22/2014 07:08 PM		
Client ID:		Run ID: SVMS5_140922A				SeqNo: 2950572		Prep Date: 9/22/2014		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>	1323	0	1667	0	79.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2086	0	1667	0	125	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1280	0	1667	0	76.8	37-107	0			

LCS		Sample ID: SLCSS1-63011-63011				Units: µg/Kg		Analysis Date: 9/22/2014 07:30 PM		
Client ID:		Run ID: SVMS5_140922A				SeqNo: 2950573		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	508	6.7	666.7	0	76.2	45-110	0			
Acenaphthylene	540.7	6.7	666.7	0	81.1	45-105	0			
Anthracene	587.3	6.7	666.7	0	88.1	55-105	0			
Benzo(a)anthracene	556.7	6.7	666.7	0	83.5	50-110	0			
Benzo(a)pyrene	529	6.7	666.7	0	79.3	50-110	0			
Benzo(b)fluoranthene	545.7	6.7	666.7	0	81.8	45-115	0			
Benzo(g,h,i)perylene	580	6.7	666.7	0	87	40-125	0			
Benzo(k)fluoranthene	712.3	6.7	666.7	0	107	45-115	0			
Chrysene	678.7	6.7	666.7	0	102	55-110	0			
Dibenzo(a,h)anthracene	441	6.7	666.7	0	66.1	40-125	0			
Fluoranthene	589	6.7	666.7	0	88.3	55-115	0			
Fluorene	561.7	6.7	666.7	0	84.2	50-110	0			
Indeno(1,2,3-cd)pyrene	588	6.7	666.7	0	88.2	40-120	0			
Naphthalene	525.7	6.7	666.7	0	78.8	40-105	0			
Pyrene	726.7	6.7	666.7	0	109	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1319	0	1667	0	79.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1947	0	1667	0	117	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1352	0	1667	0	81.1	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63011** Instrument ID **SVMS5** Method: **SW846 8270D**

MS				Sample ID: 1409903-13B MS			Units: µg/Kg		Analysis Date: 9/23/2014 09:02 AM	
Client ID:				Run ID: SVMS5_140922A			SeqNo: 2950574		Prep Date: 9/22/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1013	13	1259	0	80.5	45-110	0			
Acenaphthylene	1087	13	1259	0	86.3	45-105	0			
Anthracene	1124	13	1259	0	89.3	55-105	0			
Benzo(a)anthracene	1102	13	1259	0	87.6	50-110	0			
Benzo(a)pyrene	1019	13	1259	0	81	50-110	0			
Benzo(b)fluoranthene	1094	13	1259	0	86.9	45-115	0			
Benzo(g,h,i)perylene	1132	13	1259	0	89.9	40-125	0			
Benzo(k)fluoranthene	1368	13	1259	0	109	45-115	0			
Chrysene	1299	13	1259	0	103	55-110	0			
Dibenzo(a,h)anthracene	886	13	1259	0	70.4	40-125	0			
Fluoranthene	1136	13	1259	0	90.3	55-115	0			
Fluorene	1081	13	1259	0	85.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1159	13	1259	0	92.1	40-120	0			
Naphthalene	1049	13	1259	0	83.3	40-105	0			
Pyrene	1415	13	1259	0	112	45-125	0			
Surr: 2-Fluorobiphenyl	2659	0	3146	0	84.5	12-100	0			
Surr: 4-Terphenyl-d14	3838	0	3146	0	122	25-137	0			
Surr: Nitrobenzene-d5	2701	0	3146	0	85.9	37-107	0			

MSD				Sample ID: 1409903-13B MSD			Units: µg/Kg		Analysis Date: 9/23/2014 09:24 AM	
Client ID:				Run ID: SVMS5_140922A			SeqNo: 2950575		Prep Date: 9/22/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1058	13	1313	0	80.5	45-110	1013	4.3	30	
Acenaphthylene	1119	13	1313	0	85.2	45-105	1087	2.96	30	
Anthracene	1184	13	1313	0	90.1	55-105	1124	5.13	30	
Benzo(a)anthracene	1139	13	1313	0	86.7	50-110	1102	3.27	30	
Benzo(a)pyrene	1054	13	1313	0	80.3	50-110	1019	3.37	30	
Benzo(b)fluoranthene	1156	13	1313	0	88	45-115	1094	5.5	30	
Benzo(g,h,i)perylene	1191	13	1313	0	90.7	40-125	1132	5.07	30	
Benzo(k)fluoranthene	1449	13	1313	0	110	45-115	1368	5.75	30	
Chrysene	1391	13	1313	0	106	55-110	1299	6.82	30	
Dibenzo(a,h)anthracene	921.7	13	1313	0	70.2	40-125	886	3.96	30	
Fluoranthene	1187	13	1313	0	90.4	55-115	1136	4.35	30	
Fluorene	1131	13	1313	0	86.1	50-110	1081	4.53	30	
Indeno(1,2,3-cd)pyrene	1215	13	1313	0	92.5	40-120	1159	4.67	30	
Naphthalene	1025	13	1313	0	78	40-105	1049	2.33	30	
Pyrene	1492	13	1313	0	114	45-125	1415	5.3	30	
Surr: 2-Fluorobiphenyl	2751	0	3283	0	83.8	12-100	2659	3.43	40	
Surr: 4-Terphenyl-d14	4024	0	3283	0	123	25-137	3838	4.73	40	
Surr: Nitrobenzene-d5	2860	0	3283	0	87.1	37-107	2701	5.7	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63011** Instrument ID **SVMS5** Method: **SW846 8270D**

The following samples were analyzed in this batch:

14091028-01B

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63019** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-63019-63019				Units: µg/Kg			Analysis Date: 9/22/2014 02:16 PM		
Client ID:			Run ID: VMS5_140922A				SeqNo:2947750			Prep Date: 9/22/2014		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	981.5	0	1000	0	98.2	70-130		0					
Surr: 4-Bromofluorobenzene	971.5	0	1000	0	97.2	70-130		0					
Surr: Dibromofluoromethane	1011	0	1000	0	101	70-130		0					
Surr: Toluene-d8	981	0	1000	0	98.1	70-130		0					

LCS				Sample ID: LCS-63019-63019			Units: µg/Kg		Analysis Date: 9/22/2014 12:59 PM		
Client ID:		Run ID: VMS5_140922A			SeqNo:2947748		Prep Date: 9/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1110	30	1000	0	111	75-125	0				
Ethylbenzene	1106	30	1000	0	111	75-125	0				
m,p-Xylene	2094	60	2000	0	105	80-125	0				
o-Xylene	1156	30	1000	0	116	75-125	0				
Toluene	1076	30	1000	0	108	70-125	0				
Xylenes, Total	3250	90	3000	0	108	75-125	0				
Surr: 1,2-Dichloroethane-d4	976.5	0	1000	0	97.6	70-130	0				
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0				
Surr: Dibromofluoromethane	1009	0	1000	0	101	70-130	0				
Surr: Toluene-d8	991.5	0	1000	0	99.2	70-130	0				

MS				Sample ID: 1409932-01A MS				Units: µg/Kg			Analysis Date: 9/22/2014 09:59 PM		
Client ID:			Run ID: VMS5_140922A				SeqNo:2947785		Prep Date: 9/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	1034	30	1000	0	103	75-125	0						
Ethylbenzene	942	30	1000	0	94.2	75-125	0						
m,p-Xylene	1943	60	2000	0	97.2	80-125	0						
o-Xylene	958.5	30	1000	0	95.8	75-125	0						
Toluene	917	30	1000	0	91.7	70-125	0						
Xylenes, Total	2902	90	3000	0	96.7	75-125	0						
Surr: 1,2-Dichloroethane-d4	996	0	1000	0	99.6	70-130	0						
Surr: 4-Bromofluorobenzene	941.5	0	1000	0	94.2	70-130	0						
Surr: Dibromofluoromethane	1008	0	1000	0	101	70-130	0						
Surr: Toluene-d8	894.5	0	1000	0	89.4	70-130	0						

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63019** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 1409932-01A MSD			Units: µg/Kg		Analysis Date: 9/22/2014 10:25 PM	
Client ID:				Run ID: VMS5_140922A			SeqNo: 2947787		Prep Date: 9/22/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	996	30	1000	0	99.6	75-125	1034	3.74	30	
Ethylbenzene	1068	30	1000	0	107	75-125	942	12.5	30	
m,p-Xylene	2142	60	2000	0	107	80-125	1943	9.74	30	
o-Xylene	1062	30	1000	0	106	75-125	958.5	10.2	30	
Toluene	975.5	30	1000	0	97.6	70-125	917	6.18	30	
Xylenes, Total	3204	90	3000	0	107	75-125	2902	9.89	30	
Surr: 1,2-Dichloroethane-d4	970.5	0	1000	0	97	70-130	996	2.59	30	
Surr: 4-Bromofluorobenzene	1023	0	1000	0	102	70-130	941.5	8.3	30	
Surr: Dibromofluoromethane	972	0	1000	0	97.2	70-130	1008	3.69	30	
Surr: Toluene-d8	950.5	0	1000	0	95	70-130	894.5	6.07	30	

The following samples were analyzed in this batch: 14091028-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63074** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-63074-63074					Units:s.u.			Analysis Date: 9/23/2014 08:45 AM				
Client ID:					Run ID: WETCHEM_140923A					SeqNo:2947366			Prep Date: 9/22/2014			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: 14091025-01B DUP					Units:s.u.			Analysis Date: 9/23/2014 08:45 AM		
Client ID:				Run ID: WETCHEM_140923A				SeqNo:2947368			Prep Date: 9/22/2014			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		9	0	0	0	0	0-0	9.02	0.222	20					

Sample ID: 1409946-01B DUP					Units: s.u.		Analysis Date: 9/23/2014 08:45 AM				
Client ID:			Run ID: WETCHEM_140923A			SeqNo: 2947378		Prep Date: 9/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.23	0	0	0	0	0-0	8.24	0.121	20		

The following samples were analyzed in this batch:

14091028-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63077** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14091026-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 9/24/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140924I				SeqNo: 2950891		Prep Date: 9/24/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.78	0.050	0	0	0		3.33	12.7	50	

The following samples were analyzed in this batch:

14091028-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **63103** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-63103-63103				Units: mg/Kg		Analysis Date: 9/24/2014 09:45 AM		
Client ID:		Run ID: WETCHEM_140924A				SeqNo: 2949896		Prep Date: 9/22/2014		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-63103-63103				Units: mg/Kg		Analysis Date: 9/24/2014 09:45 AM		
Client ID:		Run ID: WETCHEM_140924A				SeqNo: 2949895		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.72 0.50 2 0 86 80-120 0

MS		Sample ID: 14091028-01B MS				Units: mg/Kg		Analysis Date: 9/24/2014 09:45 AM		
Client ID: Batch 6		Run ID: WETCHEM_140924A				SeqNo: 2949890		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.352 0.49 1.976 0.1151 62.6 75-125 0 S

MS		Sample ID: 14091028-01B MSI				Units: mg/Kg		Analysis Date: 9/24/2014 09:45 AM		
Client ID: Batch 6		Run ID: WETCHEM_140924A				SeqNo: 2949892		Prep Date: 9/22/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1030 50 997.6 0.1151 103 75-125 0

MSD		Sample ID: 14091028-01B MSD				Units: mg/Kg		Analysis Date: 9/24/2014 09:45 AM		
Client ID: Batch 6		Run ID: WETCHEM_140924A				SeqNo: 2949891		Prep Date: 9/22/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.72 0.50 2 0.1151 80.2 75-125 1.352 24 20 R

The following samples were analyzed in this batch:

14091028-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091028
Project: WPX RMV 229-27 Batch 6 9.19.14

QC BATCH REPORT

Batch ID: **R148707** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R148707				Units: % of sample		Analysis Date: 9/22/2014 10:30 AM		
Client ID:		Run ID: MOIST_140922A				SeqNo: 2947929		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-R148707				Units: % of sample		Analysis Date: 9/22/2014 10:30 AM		
Client ID:		Run ID: MOIST_140922A				SeqNo: 2947928		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: 14091023-01B DUP				Units: % of sample		Analysis Date: 9/22/2014 10:30 AM		
Client ID:		Run ID: MOIST_140922A				SeqNo: 2947918		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.38 0.050 0 0 0 0-0 17.79 3.26 20

The following samples were analyzed in this batch:

14091028-01B

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 202r6

WORKORDER #

14091028

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

WPX RMV 229-27

SAMPLER

Reed Wold

DATE

9/19/14

SITE ID

RMV 229-27

TURNAROUND

3 Day

PROJECT No.

Batch 6

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL Compliance

BILL TO COMPANY

WPX

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

Karolina Blaney

ADDRESS

2385 F 1/2 Rd

ADDRESS

1058 Co Rd 215

CITY / STATE / ZIP

Grand Junction, CO 81506

CITY / STATE / ZIP

Parachute CO 81635

PHONE

970-243-3271

PHONE

970-683-2295

FAX

970-243-3280

FAX

E-MAIL

mmumby@hrlcomp.com
 rwold@hrlcomp.com

E-MAIL

Karolina.blaney@wpenergy.com

Lab ID

Field ID

Matrix

Sample Data

Sample Time

Bottles

Pres.

QC

-01

Batch 6

SD

9/19/14

10:20

3

8

X X X

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

For metals or anions, please detail analytes below.

Comments:

3.46

QC PACKAGE (check below)

X

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms + raw data)

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

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Reed Wold

Reed Wold

9/19/14 12:20

RECEIVED BY

MM

MM

9/19-14 12:20

RELINQUISHED BY

MM

MM

9/19/14 12:30

RECEIVED BY

J. R. Ryan

J. R. Ryan

9/20/14 10:30

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **20-Sep-14 10:30**

Work Order: **14091028**

Received by: **JR**

Checklist completed by <u>Joseph Ribar</u>	20-Sep-14	Reviewed by: <u>Ann Preston</u>	22-Sep-14
eSignature	Date	eSignature	Date

Matrices: **soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>9/20/2014 11:29:51 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (816) 399-6070
 Nick Martinez
 ALS Environmental
 127 E. 1st Street
 PARACHUTE, CO 81635

Origin ID: RLA



Ship Date: 19SEP14
 Act/Wgt: 75.0 LB
 CAD: 2284840/NET3550

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 081914-1
 Invoice #
 PO # Parachute
 Dept #

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

BILL SENDER

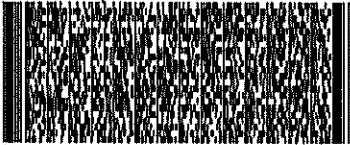
HOLLAND, MI 49424

SATURDAY 12:00P
 PRIORITY OVERNIGHT

TRK# 7712 2235 7960
 (8201)

X0 HLMA

49424
 MI-USA
 GRR



52201CDB48ACB

After printing this label:

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