



26-Mar-2014

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

Re: **WPX RMV 220-21 Prod. Water Line Leak 3.20.14**

Work Order: **1403932**

Dear Mark,

ALS Environmental received 5 samples on 21-Mar-2014 09:00 AM for the analyses presented in the following report.

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

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 31.

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.

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Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Work Order: 1403932

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>
1403932-01	Bottom 6 Ft	Soil		3/20/2014 13:00	3/21/2014 09:00	<input type="checkbox"/>
1403932-02	North Wall	Soil		3/20/2014 13:10	3/21/2014 09:00	<input type="checkbox"/>
1403932-03	East Wall	Soil		3/20/2014 13:20	3/21/2014 09:00	<input type="checkbox"/>
1403932-04	South Wall	Soil		3/20/2014 13:30	3/21/2014 09:00	<input type="checkbox"/>
1403932-05	West Wall	Soil		3/20/2014 13:40	3/21/2014 09:00	<input type="checkbox"/>

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Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
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Work Order: 1403932

Case Narrative

Batch 56895 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: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: Bottom 6 Ft
Collection Date: 3/20/2014 01:00 PM

Work Order: 1403932
Lab ID: 1403932-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 3/21/14	Analyst: IT
DRO (C10-C28)	22		4.7	mg/Kg-dry	1	3/24/2014 11:23 AM
Surr: 4-Terphenyl-d14	58.9		39-115	%REC	1	3/24/2014 11:23 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 3/21/14	Analyst: IT
GRO (C6-C10)	230		2.9	mg/Kg-dry	1	3/21/2014 04:17 PM
Surr: Toluene-d8	110		50-150	%REC	1	3/21/2014 04:17 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 3/24/14	Analyst: LR
Mercury	0.032		0.017	mg/Kg-dry	1	3/24/2014 03:24 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 3/21/14	Analyst: ML
Arsenic	9.7		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Barium	220		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Cadmium	ND		0.83	mg/Kg-dry	5	3/21/2014 09:09 PM
Chromium	11		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Copper	13		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Lead	11		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Nickel	15		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Selenium	ND		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Silver	ND		2.1	mg/Kg-dry	5	3/21/2014 09:09 PM
Zinc	52		4.2	mg/Kg-dry	5	3/21/2014 09:09 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Calcium	56		10	mg/L	20	3/24/2014 03:03 PM
Magnesium	17		4.0	mg/L	20	3/24/2014 03:03 PM
Sodium	1,000		4.0	mg/L	20	3/24/2014 03:03 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Sodium Adsorption Ratio	30		0.010	none	1	3/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 3/21/14	Analyst: RM
Acenaphthene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Anthracene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Chrysene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: Bottom 6 Ft
Collection Date: 3/20/2014 01:00 PM

Work Order: 1403932
Lab ID: 1403932-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Fluorene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Pyrene	ND		7.6	µg/Kg-dry	1	3/21/2014 10:16 PM
Surr: 2-Fluorobiphenyl	71.4		12-100	%REC	1	3/21/2014 10:16 PM
Surr: 4-Terphenyl-d14	88.9		25-137	%REC	1	3/21/2014 10:16 PM
Surr: Nitrobenzene-d5	69.9		37-107	%REC	1	3/21/2014 10:16 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/21/14		Analyst: BG
Benzene	360		35	µg/Kg-dry	1	3/21/2014 03:27 PM
Ethylbenzene	170		35	µg/Kg-dry	1	3/21/2014 03:27 PM
m,p-Xylene	9,100		69	µg/Kg-dry	1	3/21/2014 03:27 PM
o-Xylene	1,700		35	µg/Kg-dry	1	3/21/2014 03:27 PM
Toluene	2,200		35	µg/Kg-dry	1	3/21/2014 03:27 PM
Xylenes, Total	11,000		100	µg/Kg-dry	1	3/21/2014 03:27 PM
Surr: 1,2-Dichloroethane-d4	99.6		70-130	%REC	1	3/21/2014 03:27 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	3/21/2014 03:27 PM
Surr: Dibromofluoromethane	92.4		70-130	%REC	1	3/21/2014 03:27 PM
Surr: Toluene-d8	111		70-130	%REC	1	3/21/2014 03:27 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/24/14		Analyst: JB
Electrical Conductivity @ Saturation	6.2		0.050	mmhos/cm @25	10	3/25/2014 10:30 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	11		0.58	mg/Kg-dry	1	3/26/2014 08:05 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/24/14		Analyst: MB
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	3/21/2014 10:30 AM
PH			SW9045D	Prep: EXTRACT / 3/21/14		Analyst: JB
pH	8.1			s.u.	1	3/21/2014 03:00 PM

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

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Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: North Wall
Collection Date: 3/20/2014 01:10 PM

Work Order: 1403932
Lab ID: 1403932-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	9.3		SW8015M		Prep: SW3541 / 3/21/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>61.0</i>		<i>4.8</i>	<i>mg/Kg-dry</i>	<i>1</i>	3/24/2014 11:53 AM
			<i>39-115</i>	<i>%REC</i>	<i>1</i>	3/24/2014 11:53 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 3/21/14	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>112</i>		<i>2.9</i>	<i>mg/Kg-dry</i>	<i>1</i>	3/21/2014 04:42 PM
			<i>50-150</i>	<i>%REC</i>	<i>1</i>	3/21/2014 04:42 PM
MERCURY BY CVAA						
Mercury	0.025		SW7471		Prep: SW7471 / 3/24/14	Analyst: LR
			0.020	mg/Kg-dry	1	3/24/2014 03:26 PM
METALS BY ICP-MS						
Arsenic	12		SW6020A		Prep: SW3050B / 3/21/14	Analyst: ML
Barium	240		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Cadmium	ND		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Chromium	9.3		0.85	mg/Kg-dry	5	3/21/2014 09:15 PM
Copper	13		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Lead	11		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Nickel	14		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Selenium	ND		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Silver	ND		2.1	mg/Kg-dry	5	3/21/2014 09:15 PM
Zinc	49		4.2	mg/Kg-dry	5	3/21/2014 09:15 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Calcium	86		10	mg/L	20	3/24/2014 03:09 PM
Magnesium	36		4.0	mg/L	20	3/24/2014 03:09 PM
Sodium	200		4.0	mg/L	20	3/24/2014 03:09 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Sodium Adsorption Ratio	4.5		0.010	none	1	3/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 3/21/14	Analyst: RM
Acenaphthene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Anthracene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Chrysene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: North Wall
Collection Date: 3/20/2014 01:10 PM

Work Order: 1403932
Lab ID: 1403932-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Fluoranthene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Fluorene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Naphthalene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Pyrene	ND		7.7	µg/Kg-dry	1	3/21/2014 10:37 PM
Surr: 2-Fluorobiphenyl	72.9		12-100	%REC	1	3/21/2014 10:37 PM
Surr: 4-Terphenyl-d14	95.9		25-137	%REC	1	3/21/2014 10:37 PM
Surr: Nitrobenzene-d5	71.3		37-107	%REC	1	3/21/2014 10:37 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/21/14		Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	3/21/2014 03:54 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	3/21/2014 03:54 PM
m,p-Xylene	260		70	µg/Kg-dry	1	3/21/2014 03:54 PM
o-Xylene	71		35	µg/Kg-dry	1	3/21/2014 03:54 PM
Toluene	55		35	µg/Kg-dry	1	3/21/2014 03:54 PM
Xylenes, Total	340		100	µg/Kg-dry	1	3/21/2014 03:54 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	3/21/2014 03:54 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	3/21/2014 03:54 PM
Surr: Dibromofluoromethane	92.7		70-130	%REC	1	3/21/2014 03:54 PM
Surr: Toluene-d8	97.8		70-130	%REC	1	3/21/2014 03:54 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/24/14		Analyst: JB
Electrical Conductivity @ Saturation	1.9		0.050	mmhos/cm @25	10	3/25/2014 10:30 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	9.3		0.58	mg/Kg-dry	1	3/26/2014 08:05 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/24/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	14		0.050	% of sample	1	3/21/2014 10:30 AM
PH			SW9045D	Prep: EXTRACT / 3/21/14		Analyst: JB
pH	8.3			s.u.	1	3/21/2014 03:00 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: East Wall
Collection Date: 3/20/2014 01:20 PM

Work Order: 1403932
Lab ID: 1403932-03
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 / 3/21/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	59.6		4.9	mg/Kg-dry	1	3/24/2014 12:23 PM
			39-115	%REC	1	3/24/2014 12:23 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 3/21/14	Analyst: IT
<i>Surr: Toluene-d8</i>	111		2.9	mg/Kg-dry	1	3/21/2014 05:08 PM
			50-150	%REC	1	3/21/2014 05:08 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep: SW7471 / 3/24/14	Analyst: LR
			0.018	mg/Kg-dry	1	3/24/2014 03:28 PM
METALS BY ICP-MS						
Arsenic	8.6		SW6020A		Prep: SW3050B / 3/21/14	Analyst: ML
Barium	210		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Cadmium	ND		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Chromium	8.9		0.95	mg/Kg-dry	5	3/21/2014 09:21 PM
Copper	13		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Lead	11		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Nickel	14		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Selenium	ND		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Silver	ND		2.4	mg/Kg-dry	5	3/21/2014 09:21 PM
Zinc	51		4.8	mg/Kg-dry	5	3/21/2014 09:21 PM
SOLUBLE CATIONS FOR SAR						
Calcium	47		SW6020A		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Magnesium	25		10	mg/L	20	3/24/2014 03:16 PM
Sodium	180		4.0	mg/L	20	3/24/2014 03:16 PM
			4.0	mg/L	20	3/24/2014 03:16 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	5.4		USDA H60 METHO		Prep: USDA Method 20B / 3/24/14	Analyst: ML
			0.010	none	1	3/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep: SW3541 / 3/21/14	Analyst: RM
Acenaphthylene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Anthracene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Chrysene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: East Wall
Collection Date: 3/20/2014 01:20 PM

Work Order: 1403932
Lab ID: 1403932-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Fluoranthene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Fluorene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Naphthalene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Pyrene	ND		7.8	µg/Kg-dry	1	3/21/2014 10:57 PM
Surr: 2-Fluorobiphenyl	67.0		12-100	%REC	1	3/21/2014 10:57 PM
Surr: 4-Terphenyl-d14	92.6		25-137	%REC	1	3/21/2014 10:57 PM
Surr: Nitrobenzene-d5	66.0		37-107	%REC	1	3/21/2014 10:57 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/21/14		Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	3/21/2014 04:21 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	3/21/2014 04:21 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	3/21/2014 04:21 PM
o-Xylene	ND		35	µg/Kg-dry	1	3/21/2014 04:21 PM
Toluene	ND		35	µg/Kg-dry	1	3/21/2014 04:21 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	3/21/2014 04:21 PM
Surr: 1,2-Dichloroethane-d4	97.9		70-130	%REC	1	3/21/2014 04:21 PM
Surr: 4-Bromofluorobenzene	99.6		70-130	%REC	1	3/21/2014 04:21 PM
Surr: Dibromofluoromethane	94.1		70-130	%REC	1	3/21/2014 04:21 PM
Surr: Toluene-d8	97.4		70-130	%REC	1	3/21/2014 04:21 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/24/14		Analyst: JB
Electrical Conductivity @ Saturation	1.4		0.050	mmhos/cm @25	10	3/25/2014 10:30 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.9		0.59	mg/Kg-dry	1	3/26/2014 08:05 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/24/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	15		0.050	% of sample	1	3/21/2014 10:30 AM
PH			SW9045D	Prep: EXTRACT / 3/21/14		Analyst: JB
pH	8.5			s.u.	1	3/21/2014 03:00 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: South Wall
Collection Date: 3/20/2014 01:30 PM

Work Order: 1403932
Lab ID: 1403932-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	15		SW8015M		Prep: SW3541 / 3/21/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	55.2		4.5	mg/Kg-dry	1	3/24/2014 12:53 PM
			39-115	%REC	1	3/24/2014 12:53 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 3/21/14	Analyst: IT
<i>Surr: Toluene-d8</i>	109		2.8	mg/Kg-dry	1	3/21/2014 05:33 PM
			50-150	%REC	1	3/21/2014 05:33 PM
MERCURY BY CVAA						
Mercury	0.054		SW7471		Prep: SW7471 / 3/24/14	Analyst: LR
			0.012	mg/Kg-dry	1	3/24/2014 03:30 PM
METALS BY ICP-MS						
Arsenic	8.1		SW6020A		Prep: SW3050B / 3/21/14	Analyst: ML
Barium	210		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Cadmium	ND		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Chromium	8.1		0.78	mg/Kg-dry	5	3/21/2014 09:27 PM
Copper	11		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Lead	9.0		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Nickel	12		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Selenium	ND		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Silver	ND		2.0	mg/Kg-dry	5	3/21/2014 09:27 PM
Zinc	40		3.9	mg/Kg-dry	5	3/21/2014 09:27 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Calcium	52		10	mg/L	20	3/24/2014 03:22 PM
Magnesium	21		4.0	mg/L	20	3/24/2014 03:22 PM
Sodium	150		4.0	mg/L	20	3/24/2014 03:22 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Sodium Adsorption Ratio	4.4		0.010	none	1	3/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 3/21/14	Analyst: RM
Acenaphthene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Acenaphthylene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Anthracene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Benzo(a)anthracene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Benzo(a)pyrene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Benzo(b)fluoranthene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Benzo(g,h,i)perylene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Benzo(k)fluoranthene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Chrysene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: South Wall
Collection Date: 3/20/2014 01:30 PM

Work Order: 1403932
Lab ID: 1403932-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Fluoranthene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Fluorene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Indeno(1,2,3-cd)pyrene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Naphthalene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Pyrene	ND		7.2	µg/Kg-dry	1	3/21/2014 11:38 PM
Surr: 2-Fluorobiphenyl	67.7		12-100	%REC	1	3/21/2014 11:38 PM
Surr: 4-Terphenyl-d14	81.2		25-137	%REC	1	3/21/2014 11:38 PM
Surr: Nitrobenzene-d5	67.4		37-107	%REC	1	3/21/2014 11:38 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/21/14		Analyst: BG
Benzene	ND		33	µg/Kg-dry	1	3/21/2014 04:48 PM
Ethylbenzene	ND		33	µg/Kg-dry	1	3/21/2014 04:48 PM
m,p-Xylene	340		66	µg/Kg-dry	1	3/21/2014 04:48 PM
o-Xylene	110		33	µg/Kg-dry	1	3/21/2014 04:48 PM
Toluene	39		33	µg/Kg-dry	1	3/21/2014 04:48 PM
Xylenes, Total	450		99	µg/Kg-dry	1	3/21/2014 04:48 PM
Surr: 1,2-Dichloroethane-d4	99.0		70-130	%REC	1	3/21/2014 04:48 PM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	3/21/2014 04:48 PM
Surr: Dibromofluoromethane	93.2		70-130	%REC	1	3/21/2014 04:48 PM
Surr: Toluene-d8	98.2		70-130	%REC	1	3/21/2014 04:48 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/24/14		Analyst: JB
Electrical Conductivity @ Saturation	1.1		0.050	mmhos/cm @25	10	3/25/2014 10:30 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.1		0.55	mg/Kg-dry	1	3/26/2014 08:05 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/24/14		Analyst: MB
Chromium, Hexavalent	ND		0.54	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	9.5		0.050	% of sample	1	3/21/2014 10:30 AM
PH			SW9045D	Prep: EXTRACT / 3/21/14		Analyst: JB
pH	8.8			s.u.	1	3/21/2014 03:00 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: West Wall
Collection Date: 3/20/2014 01:40 PM

Work Order: 1403932
Lab ID: 1403932-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	10		SW8015M		Prep: SW3541 / 3/21/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	59.5		4.7	mg/Kg-dry	1	3/24/2014 01:23 PM
			39-115	%REC	1	3/24/2014 01:23 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 3/21/14	Analyst: IT
<i>Surr: Toluene-d8</i>	118		2.9	mg/Kg-dry	1	3/21/2014 05:59 PM
			50-150	%REC	1	3/21/2014 05:59 PM
MERCURY BY CVAA						
Mercury	0.027		SW7471		Prep: SW7471 / 3/24/14	Analyst: LR
			0.014	mg/Kg-dry	1	3/24/2014 03:33 PM
METALS BY ICP-MS						
Arsenic	9.6		SW6020A		Prep: SW3050B / 3/21/14	Analyst: ML
Barium	410		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Cadmium	ND		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Chromium	10		0.82	mg/Kg-dry	5	3/21/2014 09:33 PM
Copper	14		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Lead	11		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Nickel	15		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Selenium	ND		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Silver	ND		2.1	mg/Kg-dry	5	3/21/2014 09:33 PM
Zinc	51		4.1	mg/Kg-dry	5	3/21/2014 09:33 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Calcium	70		10	mg/L	20	3/24/2014 03:28 PM
Magnesium	25		4.0	mg/L	20	3/24/2014 03:28 PM
Sodium	120		4.0	mg/L	20	3/24/2014 03:28 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/24/14	Analyst: ML
Sodium Adsorption Ratio	3.1		0.010	none	1	3/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 3/21/14	Analyst: RM
Acenaphthene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Anthracene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Chrysene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM

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

ALS Group USA, Corp

Date: 26-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14
Sample ID: West Wall
Collection Date: 3/20/2014 01:40 PM

Work Order: 1403932
Lab ID: 1403932-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Fluorene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Pyrene	ND		7.6	µg/Kg-dry	1	3/21/2014 11:17 PM
Surr: 2-Fluorobiphenyl	70.2		12-100	%REC	1	3/21/2014 11:17 PM
Surr: 4-Terphenyl-d14	90.7		25-137	%REC	1	3/21/2014 11:17 PM
Surr: Nitrobenzene-d5	68.1		37-107	%REC	1	3/21/2014 11:17 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/21/14 Analyst: BG		
Benzene	ND		35	µg/Kg-dry	1	3/21/2014 05:14 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	3/21/2014 05:14 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	3/21/2014 05:14 PM
o-Xylene	ND		35	µg/Kg-dry	1	3/21/2014 05:14 PM
Toluene	ND		35	µg/Kg-dry	1	3/21/2014 05:14 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	3/21/2014 05:14 PM
Surr: 1,2-Dichloroethane-d4	99.2		70-130	%REC	1	3/21/2014 05:14 PM
Surr: 4-Bromofluorobenzene	99.2		70-130	%REC	1	3/21/2014 05:14 PM
Surr: Dibromofluoromethane	93.6		70-130	%REC	1	3/21/2014 05:14 PM
Surr: Toluene-d8	98.2		70-130	%REC	1	3/21/2014 05:14 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/24/14 Analyst: JB		
Electrical Conductivity @ Saturation	1.0		0.050	mmhos/cm @25	10	3/25/2014 10:30 AM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: JJG		
Chromium, Trivalent	10		0.59	mg/Kg-dry	1	3/26/2014 08:05 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/24/14 Analyst: MB		
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G	Analyst: AT		
Moisture	15		0.050	% of sample	1	3/21/2014 10:30 AM
PH			SW9045D	Prep: EXTRACT / 3/21/14 Analyst: JB		
pH	8.3			s.u.	1	3/21/2014 03:00 PM

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

Client: HRL Compliance Solutions, Inc

Work Order: 1403932

Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56770**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-56770-56770				Units: mg/Kg		Analysis Date: 3/24/2014 09:23 AM		
Client ID:		Run ID: GC8_140324A				SeqNo: 2682131		Prep Date: 3/21/2014		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	1.255	0	1.667	0	75.3	39-115	0			

LCS		Sample ID: DLCSS1-56770-56770				Units: mg/Kg		Analysis Date: 3/24/2014 09:53 AM		
Client ID:		Run ID: GC8_140324A				SeqNo: 2682132		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	137.4	4.2	166.7	0	82.5	49-124	0			
Surr: 4-Terphenyl-d14	1.008	0	1.667	0	60.5	39-115	0			

MS		Sample ID: 1403932-01B MS				Units: mg/Kg		Analysis Date: 3/24/2014 10:23 AM		
Client ID: Bottom 6 Ft		Run ID: GC8_140324A				SeqNo: 2682134		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	270.8	8.2	329.1	18.78	76.6	49-130	0			
Surr: 4-Terphenyl-d14	1.928	0	3.291	0	58.6	39-115	0			

MSD		Sample ID: 1403932-01B MSD				Units: mg/Kg		Analysis Date: 3/24/2014 10:53 AM		
Client ID: Bottom 6 Ft		Run ID: GC8_140324A				SeqNo: 2682136		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	245.1	8.2	329.4	18.78	68.7	49-130	270.8	9.97	30	
Surr: 4-Terphenyl-d14	1.816	0	3.294	0	55.1	39-115	1.928	6	30	

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56766** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-56766-56766				Units: µg/Kg		Analysis Date: 3/21/2014 03:51 PM		
Client ID:		Run ID: GC9_140321A				SeqNo: 2681252		Prep Date: 3/21/2014		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>	4988	0	5000	0	99.8	50-150	0			

LCS		Sample ID: LCS-56766-56766				Units: µg/Kg		Analysis Date: 3/21/2014 03:26 PM		
Client ID:		Run ID: GC9_140321A				SeqNo: 2681249		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	617500	2,500	500000	0	123	70-130	0			
<i>Surr: Toluene-d8</i>	5170	0	5000	0	103	50-150	0			

MS		Sample ID: 1403932-01A MS				Units: µg/Kg		Analysis Date: 3/21/2014 09:49 PM		
Client ID: Bottom 6 Ft		Run ID: GC9_140321A				SeqNo: 2681299		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	848100	2,500	500000	200800	129	70-130	0			
<i>Surr: Toluene-d8</i>	5130	0	5000	0	103	50-150	0			

MSD		Sample ID: 1403932-01A MSD				Units: µg/Kg		Analysis Date: 3/21/2014 10:14 PM		
Client ID: Bottom 6 Ft		Run ID: GC9_140321A				SeqNo: 2681300		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	818300	2,500	500000	200800	123	70-130	848100	3.58	30	
<i>Surr: Toluene-d8</i>	4522	0	5000	0	90.4	50-150	5130	12.6	30	

The following samples were analyzed in this batch:

1403932-01A	1403932-02A	1403932-03A
1403932-04A	1403932-05A	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56847** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-56847-56847				Units: mg/Kg		Analysis Date: 3/24/2014 03:19 PM		
Client ID:		Run ID: HG1_140324A				SeqNo: 2682331		Prep Date: 3/24/2014		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-56847-56847				Units: mg/Kg		Analysis Date: 3/24/2014 03:21 PM		
Client ID:		Run ID: HG1_140324A				SeqNo: 2682332		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1705 0.020 0.1665 0 102 80-120 0

MS		Sample ID: 14031033-04BMS				Units: mg/Kg		Analysis Date: 3/24/2014 03:37 PM		
Client ID:		Run ID: HG1_140324A				SeqNo: 2682339		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1175 0.014 0.1185 0.001495 97.9 75-125 0

MSD		Sample ID: 14031033-04BMSD				Units: mg/Kg		Analysis Date: 3/24/2014 03:17 PM		
Client ID:		Run ID: HG1_140324A				SeqNo: 2682330		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1308 0.014 0.117 0.001495 111 75-125 0.1175 10.7 35

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56777** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: MBLK-56777-56777				Units: mg/Kg			Analysis Date: 3/21/2014 06:45 PM			
Client ID:		Run ID: ICPMS1_140321A		SeqNo: 2681119		Prep Date: 3/21/2014		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	0.05725	0.25								J
Cadmium	0.007595	0.10								J
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.02893	0.25								J
Nickel	0.03234	0.25								J
Silver	0.01182	0.25								J
Zinc	0.0655	0.50								J

MBLK Sample ID: MBLK-56777-56777				Units: mg/Kg			Analysis Date: 3/24/2014 01:26 PM			
Client ID:		Run ID: ICPMS1_140324A		SeqNo: 2682401		Prep Date: 3/21/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	ND	0.25								

LCS Sample ID: LCS-56777-56777				Units: mg/Kg			Analysis Date: 3/21/2014 06:51 PM			
Client ID:		Run ID: ICPMS1_140321A		SeqNo: 2681120		Prep Date: 3/21/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.539	0.25	5	0	90.8	80-120	0			
Barium	4.795	0.25	5	0	95.9	80-120	0			
Cadmium	4.746	0.10	5	0	94.9	80-120	0			
Chromium	4.788	0.25	5	0	95.8	80-120	0			
Copper	4.826	0.25	5	0	96.5	80-120	0			
Lead	4.798	0.25	5	0	96	80-120	0			
Nickel	4.756	0.25	5	0	95.1	80-120	0			
Selenium	4.34	0.25	5	0	86.8	80-120	0			
Silver	4.592	0.25	5	0	91.8	80-120	0			
Zinc	4.676	0.50	5	0	93.5	80-120	0			

LCS Sample ID: LCS-56777-56777				Units: mg/Kg			Analysis Date: 3/24/2014 01:32 PM			
Client ID:		Run ID: ICPMS1_140324A		SeqNo: 2682402		Prep Date: 3/21/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	4.654	0.25	5	0	93.1	80-120	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56777** Instrument ID **ICPMS1** Method: **SW6020A**

MS					Sample ID: 1403904-04BMS		Units: mg/Kg		Analysis Date: 3/24/2014 01:51 PM		
Client ID:			Run ID: ICPMS1_140324A			SeqNo: 2682407		Prep Date: 3/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	7.282	0.33	6.502	1.438	89.9	75-125	0				
Barium	15.19	0.33	6.502	9.826	82.5	75-125	0				
Cadmium	6.444	0.13	6.502	0.04882	98.4	75-125	0				
Chromium	10.44	0.33	6.502	4.482	91.6	75-125	0				
Copper	8.934	0.33	6.502	3.372	85.5	75-125	0				
Lead	8.192	0.33	6.502	1.794	98.4	75-125	0				
Nickel	10.1	0.33	6.502	4.44	87	75-125	0				
Selenium	6.19	0.33	6.502	0.4925	87.6	75-125	0				
Silver	6.018	0.33	6.502	0.007262	92.4	75-125	0				
Zinc	13.14	0.65	6.502	8.222	75.7	75-125	0				

MSD				Sample ID: 1403904-04BMSD			Units: mg/Kg		Analysis Date: 3/24/2014 01:57 PM		
Client ID:			Run ID: ICPMS1_140324A			SeqNo: 2682409		Prep Date: 3/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	7.579	0.32	6.353	1.438	96.7	75-125	7.282	4	25		
Barium	16.43	0.32	6.353	9.826	104	75-125	15.19	7.85	25		
Cadmium	6.201	0.13	6.353	0.04882	96.8	75-125	6.444	3.85	25		
Chromium	10.74	0.32	6.353	4.482	98.6	75-125	10.44	2.91	25		
Copper	9.72	0.32	6.353	3.372	99.9	75-125	8.934	8.44	25		
Lead	8.437	0.32	6.353	1.794	105	75-125	8.192	2.94	25		
Nickel	10.62	0.32	6.353	4.44	97.2	75-125	10.1	5.01	25		
Selenium	5.989	0.32	6.353	0.4925	86.5	75-125	6.19	3.31	25		
Silver	5.799	0.32	6.353	0.007262	91.2	75-125	6.018	3.71	25		
Zinc	15.36	0.64	6.353	8.222	112	75-125	13.14	15.6	25		

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56801** Instrument ID **ICPMS1** Method: **SW6020A**

DUP		Sample ID: 1403856-01CDUP				Units: mg/L		Analysis Date: 3/24/2014 02:50 PM		
Client ID:		Run ID: ICPMS1_140324A				SeqNo: 2682427		Prep Date: 3/24/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	90.24	10	0	0	0	0-0	109.4	19.2		
Magnesium	26.06	4.0	0	0	0	0-0	32.06	20.6		
Sodium	727	4.0	0	0	0	0-0	869.4	17.8		

DUP		Sample ID: 1403856-01CDUP				Units: none		Analysis Date: 3/24/2014		
Client ID:		Run ID: SAR_140324A				SeqNo: 2682602		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	17.35	0.010	0	0	0		18.79	8.01	50	

The following samples were analyzed in this batch:

1403932-01C	1403932-02C	1403932-03C
1403932-04C	1403932-05C	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56769** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-56769-56769				Units: µg/Kg		Analysis Date: 3/21/2014 08:55 PM		
Client ID:		Run ID: SVMS8_140321A				SeqNo: 2681942		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1231	0	1667	0	73.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1786	0	1667	0	107	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1188	0	1667	0	71.3	37-107	0			

LCS		Sample ID: SLCSS1-56769-56769				Units: µg/Kg		Analysis Date: 3/21/2014 09:16 PM		
Client ID:		Run ID: SVMS8_140321A				SeqNo: 2681943		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	497.3	6.7	666.7	0	74.6	45-110	0			
Acenaphthylene	545	6.7	666.7	0	81.7	45-105	0			
Anthracene	616.7	6.7	666.7	0	92.5	55-105	0			
Benzo(a)anthracene	641	6.7	666.7	0	96.1	50-110	0			
Benzo(a)pyrene	643.3	6.7	666.7	0	96.5	50-110	0			
Benzo(b)fluoranthene	590	6.7	666.7	0	88.5	45-115	0			
Benzo(g,h,i)perylene	711	6.7	666.7	0	107	40-125	0			
Benzo(k)fluoranthene	575	6.7	666.7	0	86.2	45-115	0			
Chrysene	584	6.7	666.7	0	87.6	55-110	0			
Dibenzo(a,h)anthracene	706.7	6.7	666.7	0	106	40-125	0			
Fluoranthene	587.7	6.7	666.7	0	88.1	55-115	0			
Fluorene	536.3	6.7	666.7	0	80.4	50-110	0			
Indeno(1,2,3-cd)pyrene	744.3	6.7	666.7	0	112	40-120	0			
Naphthalene	474	6.7	666.7	0	71.1	40-105	0			
Pyrene	592.3	6.7	666.7	0	88.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1235	0	1667	0	74.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1552	0	1667	0	93.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1272	0	1667	0	76.3	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1403932
 Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56769** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 1403932-01B MS			Units: µg/Kg		Analysis Date: 3/21/2014 09:36 PM	
Client ID: Bottom 6 Ft				Run ID: SVMS8_140321A			SeqNo: 2681944		Prep Date: 3/21/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	944.9	13	1286	0	73.5	45-110	0			
Acenaphthylene	1020	13	1286	0	79.3	45-105	0			
Anthracene	1143	13	1286	0	88.9	55-105	0			
Benzo(a)anthracene	1167	13	1286	0	90.7	50-110	0			
Benzo(a)pyrene	1185	13	1286	0	92.2	50-110	0			
Benzo(b)fluoranthene	1090	13	1286	0	84.8	45-115	0			
Benzo(g,h,i)perylene	1367	13	1286	0	106	40-125	0			
Benzo(k)fluoranthene	1034	13	1286	0	80.4	45-115	0			
Chrysene	1072	13	1286	0	83.4	55-110	0			
Dibenzo(a,h)anthracene	1323	13	1286	0	103	40-125	0			
Fluoranthene	1027	13	1286	0	79.9	55-115	0			
Fluorene	991.8	13	1286	0	77.1	50-110	0			
Indeno(1,2,3-cd)pyrene	1453	13	1286	0	113	40-120	0			
Naphthalene	901.8	13	1286	0	70.1	40-105	0			
Pyrene	1146	13	1286	0	89.1	45-125	0			
Surr: 2-Fluorobiphenyl	2334	0	3214	0	72.6	12-100	0			
Surr: 4-Terphenyl-d14	3049	0	3214	0	94.9	25-137	0			
Surr: Nitrobenzene-d5	2306	0	3214	0	71.8	37-107	0			

MSD				Sample ID: 1403932-01B MSD			Units: µg/Kg		Analysis Date: 3/21/2014 09:56 PM	
Client ID: Bottom 6 Ft				Run ID: SVMS8_140321A			SeqNo: 2681945		Prep Date: 3/21/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	929.5	13	1274	0	72.9	45-110	944.9	1.63	30	
Acenaphthylene	1016	13	1274	0	79.7	45-105	1020	0.38	30	
Anthracene	1126	13	1274	0	88.4	55-105	1143	1.5	30	
Benzo(a)anthracene	1142	13	1274	0	89.6	50-110	1167	2.1	30	
Benzo(a)pyrene	1184	13	1274	0	92.9	50-110	1185	0.127	30	
Benzo(b)fluoranthene	1085	13	1274	0	85.1	45-115	1090	0.471	30	
Benzo(g,h,i)perylene	1347	13	1274	0	106	40-125	1367	1.5	30	
Benzo(k)fluoranthene	1048	13	1274	0	82.2	45-115	1034	1.39	30	
Chrysene	1064	13	1274	0	83.5	55-110	1072	0.763	30	
Dibenzo(a,h)anthracene	1305	13	1274	0	102	40-125	1323	1.32	30	
Fluoranthene	1033	13	1274	0	81	55-115	1027	0.546	30	
Fluorene	984.3	13	1274	0	77.2	50-110	991.8	0.754	30	
Indeno(1,2,3-cd)pyrene	1407	13	1274	0	110	40-120	1453	3.21	30	
Naphthalene	891.9	13	1274	0	70	40-105	901.8	1.1	30	
Pyrene	1176	13	1274	0	92.3	45-125	1146	2.59	30	
Surr: 2-Fluorobiphenyl	2291	0	3186	0	71.9	12-100	2334	1.85	40	
Surr: 4-Terphenyl-d14	3104	0	3186	0	97.4	25-137	3049	1.8	40	
Surr: Nitrobenzene-d5	2298	0	3186	0	72.1	37-107	2306	0.355	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56769** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56765** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-56765-56765				Units: µg/Kg		Analysis Date: 3/21/2014 03:01 PM		
Client ID:		Run ID: VMS6_140321A				SeqNo: 2681744		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17	30								J
Ethylbenzene	14	30								J
m,p-Xylene	27.5	60								J
o-Xylene	ND	30								
Toluene	15	30								J
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	972	0	1000	0	97.2	70-130	0			
Surr: 4-Bromofluorobenzene	988.5	0	1000	0	98.8	70-130	0			
Surr: Dibromofluoromethane	949.5	0	1000	0	95	70-130	0			
Surr: Toluene-d8	970	0	1000	0	97	70-130	0			

LCS		Sample ID: LCS-56765-56765				Units: µg/Kg		Analysis Date: 3/21/2014 01:14 PM		
Client ID:		Run ID: VMS6_140321A				SeqNo: 2681743		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1018	30	1000	0	102	75-125	0			
Ethylbenzene	962.5	30	1000	0	96.2	75-125	0			
m,p-Xylene	1914	60	2000	0	95.7	80-125	0			
o-Xylene	964.5	30	1000	0	96.4	75-125	0			
Toluene	963	30	1000	0	96.3	70-125	0			
Xylenes, Total	2878	90	3000	0	95.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	985.5	0	1000	0	98.6	70-130	0			
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	988.5	0	1000	0	98.8	70-130	0			
Surr: Toluene-d8	966	0	1000	0	96.6	70-130	0			

The following samples were analyzed in this batch:

1403932-01A	1403932-02A	1403932-03A
1403932-04A	1403932-05A	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56781** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-56781-56781					Units: s.u.			Analysis Date: 3/21/2014 03:00 PM			
Client ID:					Run ID: WETCHEM_140321O					SeqNo: 2680734			Prep Date: 3/21/2014		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: 1403932-01B DUP				Units: s.u.		Analysis Date: 3/21/2014 03:00 PM			
Client ID: Bottom 6 Ft					Run ID: WETCHEM_140321O				SeqNo: 2680743		Prep Date: 3/21/2014		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH					8.1	0	0	0	0	0-0	8.11	0.123	20	

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56801** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1403856-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 3/25/2014 10:30 AM		
Client ID:		Run ID: WETCHEM_140325C				SeqNo: 2683388		Prep Date: 3/24/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.96	0.050	0	0	0		5.31	6.82	50	

The following samples were analyzed in this batch:

1403932-01C	1403932-02C	1403932-03C
1403932-04C	1403932-05C	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **56895** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-56895-56895				Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140325Q				SeqNo: 2684660		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-56895-56895				Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140325Q				SeqNo: 2684659		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.76 0.50 2 0 88 80-120 0

MS		Sample ID: 1403950-07A MS				Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140325Q				SeqNo: 2684655		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50 1.992 0 0 75-125 0 S

MS		Sample ID: 1403950-07A MSI				Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140325Q				SeqNo: 2684657		Prep Date: 3/24/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 835.3 49 1186 0 70.4 75-125 0 S

MSD		Sample ID: 1403950-07A MSD				Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140325Q				SeqNo: 2684656		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50 2 0 0 75-125 0.1195 0 20 S

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1403932
Project: WPX RMV 220-21 Prod. Water Line Leak 3.20.14

QC BATCH REPORT

Batch ID: **R137602** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R137602				Units: % of sample		Analysis Date: 3/21/2014 10:30 AM		
Client ID:		Run ID: MOIST_140321A				SeqNo: 2681980		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-R137602				Units: % of sample		Analysis Date: 3/21/2014 10:30 AM		
Client ID:		Run ID: MOIST_140321A				SeqNo: 2681979		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: 1403851-02A DUP				Units: % of sample		Analysis Date: 3/21/2014 10:30 AM		
Client ID:		Run ID: MOIST_140321A				SeqNo: 2681966		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 84.34 0.050 0 0 0 0-0 84.55 0.249 20

DUP		Sample ID: 1403932-01B DUP				Units: % of sample		Analysis Date: 3/21/2014 10:30 AM		
Client ID: Bottom 6 Ft		Run ID: MOIST_140321A				SeqNo: 2681972		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 12.63 0.050 0 0 0 0-0 13.35 5.54 20

The following samples were analyzed in this batch:

1403932-01B	1403932-02B	1403932-03B
1403932-04B	1403932-05B	

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 2028

WORKORDER
#

1403932

PROJECT NAME		WPX <i>RMV 220-21 Produced</i>		SAMPLER		Reed Wold		DATE		3/20/14		PAGE		1 of 1	
PROJECT No.		<i>Water line leak</i>		SITE ID		<i>RMV 220-21</i>		TURNAROUND		<i>24HR</i>		DISPOSAL		<input checked="" type="checkbox"/> By Lab or <input type="checkbox"/> Return to Client	
COMPANY NAME		HRL Compliance		BILL TO COMPANY		WPX		<i>620/BTEX</i> <i>DR 019AH/Metals</i> <i>SAR/EC-IPA</i>							
SEND REPORT TO		Mark Mumby		INVOICE ATTN TO		Karolina Blaney									
ADDRESS		2385 F 1/2 Rd		ADDRESS		1058 Co Rd 215									
CITY / STATE / ZIP		Grand Junction, CO 81506		CITY / STATE / ZIP		Parachure CO 81635									
PHONE		970-243-3271		PHONE		970-683-2295									
FAX		970-243-3280		FAX											
E-MAIL		<i>mmumby@hrlcomp.com</i> <i>rwold@hrlcomp.com</i>		E-MAIL		<i>Karolina.blaney@wpenergy.com</i>									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
1	<i>Bottom Left</i>	<i>SO</i>	<i>3/20/14</i>	<i>1:00</i>	<i>3</i>	<i>8</i>		<i>x</i>	<i>x</i>	<i>x</i>					
2	<i>North Wall</i>	<i>↓</i>	<i>↓</i>	<i>1:10</i>	<i>↓</i>	<i>↓</i>		<i>x</i>	<i>x</i>	<i>x</i>					
3	<i>East Wall</i>	<i>↓</i>	<i>↓</i>	<i>1:20</i>	<i>↓</i>	<i>↓</i>		<i>x</i>	<i>x</i>	<i>x</i>					
4	<i>South Wall</i>	<i>↓</i>	<i>↓</i>	<i>1:30</i>	<i>↓</i>	<i>↓</i>		<i>x</i>	<i>x</i>	<i>x</i>					
5	<i>West Wall</i>			<i>1:40</i>				<i>x</i>	<i>x</i>	<i>x</i>					

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

For metals or anions, please detail analytes below.

Comments:	<i>Please send Hydrocarbons</i>	QC PACKAGE (check below)
<i>Preliminary results as soon as possible. Thank you.</i>	<i>3.20</i>	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
		<input type="checkbox"/> LEVEL III (Std QC + forms)
		<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

SIGNATURE	PRINTED NAME	DATE	TIME
<i>Reed Wold</i>	<i>Reed Wold</i>	<i>3/20/14</i>	<i>3:00</i>
<i>W.M.</i>	<i>W.M.</i>	<i>3-20-14</i>	<i>3:00</i>
<i>W.M.</i>	<i>W.M.</i>	<i>3:00</i>	<i>3:30</i>
<i>D. J. Sh</i>	<i>Dane F. Sh</i>	<i>3/21/14</i>	<i>0900</i>
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **21-Mar-14 09:00**

Work Order: **1403932**

Received by: **DS**

Checklist completed by Diane Shaw
eSignature

21-Mar-14
Date

Reviewed by: Ann Preston
eSignature

21-Mar-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>3.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>3/21/2014 10:02:00 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

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

Origin ID: RILA

FedEx
Express

Ship Date: 20MAR14
Act/Wgt: 95.0 LB
CAD: 103923490/NET3490

Dims: 25 X 14 X 15 IN

127 E First Street

PARACHUTE, CO 81635



J14101422070306

SHIP TO: (616) 399-6070

BILL RECIPIENT

**Sample recieving
ALS Holland
3352 128TH AVE**

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 1004-032014-5
Invoice #
PO #
Dept #

FRI - 21 MAR 10:30A

PRIORITY OVERNIGHT

TRK# 7982 8844 6542

0201

49424

MI-US

GRR

XX GRR



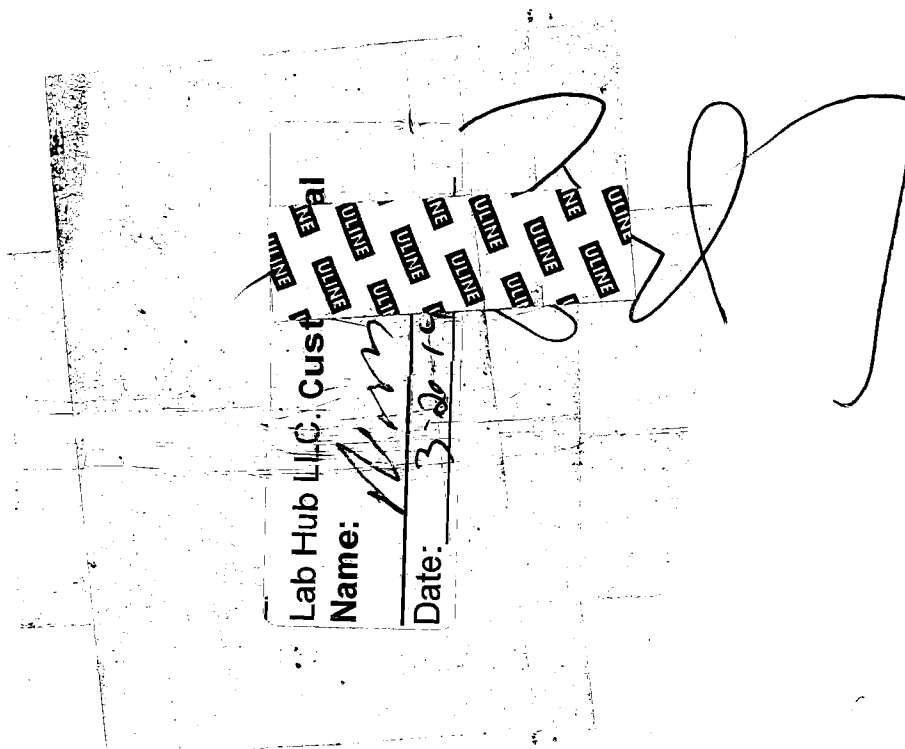
52ZG1CC4F720

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27-Mar-2014

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

Re: **WPX RMV 220-21 Prod. Water Spill 3.25.14**

Work Order: **14031138**

Dear Mark,

ALS Environmental received 1 sample on 26-Mar-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 9.

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 220-21 Prod. Water Spill 3.25.14
Work Order: 14031138

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>
14031138-01	Bottom	Soil		3/25/2014 14:30	3/26/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Spill 3.25.14
WorkOrder: 14031138

QUALIFIERS, ACRONYMS, UNITS

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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: 27-Mar-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Prod. Water Spill 3.25.14
Sample ID: Bottom
Collection Date: 3/25/2014 02:30 PM

Work Order: 14031138
Lab ID: 14031138-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/26/14		Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	3/26/2014 06:00 PM
Surr: 1,2-Dichloroethane-d4	97.0		70-130	%REC	1	3/26/2014 06:00 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	3/26/2014 06:00 PM
Surr: Dibromofluoromethane	95.6		70-130	%REC	1	3/26/2014 06:00 PM
Surr: Toluene-d8	100		70-130	%REC	1	3/26/2014 06:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	3/27/2014 10:16 AM

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

ALS Group USA, Corp

Date: 27-Mar-14

Client: HRL Compliance Solutions, Inc

Work Order: 14031138

Project: WPX RMV 220-21 Prod. Water Spill 3.25.14

QC BATCH REPORT

Batch ID: **56917**

Instrument ID **VMS9**

Method: **SW8260B**

MBLK				Sample ID: MBLK-56917-56917				Units: µg/Kg		Analysis Date: 3/27/2014 11:27 AM	
Client ID:			Run ID: VMS9_140326B			SeqNo: 2687641		Prep Date: 3/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	ND	30									
Surr: 1,2-Dichloroethane-d4	1031	0	1000	0	103	70-130		0			
Surr: 4-Bromofluorobenzene	961	0	1000	0	96.1	70-130		0			
Surr: Dibromofluoromethane	1022	0	1000	0	102	70-130		0			
Surr: Toluene-d8	1006	0	1000	0	101	70-130		0			

LCS				Sample ID: LCS-56917-56917				Units: µg/Kg			Analysis Date: 3/26/2014 03:53 PM				
Client ID:				Run ID: VMS9_140326A				SeqNo: 2687640			Prep Date: 3/26/2014			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								
Surr: 1,2-Dichloroethane-d4	947.5	0	1000	0	94.8	70-130	0								
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0								
Surr: Dibromofluoromethane	961	0	1000	0	96.1	70-130	0								
Surr: Toluene-d8	997	0	1000	0	99.7	70-130	0								

MS				Sample ID: 14031138-01A MS				Units: µg/Kg		Analysis Date: 3/26/2014 08:03 PM			
Client ID: Bottom				Run ID: VMS8_140326A				SeqNo: 2686859		Prep Date: 3/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	952.5	30	1000	0	95.2	75-125	0						
Surr: 1,2-Dichloroethane-d4	966.5	0	1000	0	96.6	70-130	0						
Surr: 4-Bromofluorobenzene	1026	0	1000	0	103	70-130	0						
Surr: Dibromofluoromethane	976.5	0	1000	0	97.6	70-130	0						
Surr: Toluene-d8	998	0	1000	0	99.8	70-130	0						

MSD					Sample ID: 14031138-01A MSD		Units: µg/Kg		Analysis Date: 3/26/2014 08:27 PM	
Client ID: Bottom			Run ID: VMS8_140326A			SeqNo: 2686864		Prep Date: 3/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	923.5	30	1000	0	92.4	75-125	952.5	3.09	30	
Surr: 1,2-Dichloroethane-d4	960	0	1000	0	96	70-130	966.5	0.675	30	
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	1026	1.47	30	
Surr: Dibromofluoromethane	968.5	0	1000	0	96.8	70-130	976.5	0.823	30	
Surr: Toluene-d8	999.5	0	1000	0	100	70-130	998	0.15	30	

The following samples were analyzed in this batch:

14031138-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14031138
Project: WPX RMV 220-21 Prod. Water Spill 3.25.14

QC BATCH REPORT

Batch ID: **R137864** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R137864				Units: % of sample		Analysis Date: 3/27/2014 10:16 AM		
Client ID:		Run ID: MOIST_140327A				SeqNo: 2687860		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-R137864				Units: % of sample		Analysis Date: 3/27/2014 10:16 AM		
Client ID:		Run ID: MOIST_140327A				SeqNo: 2687859		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

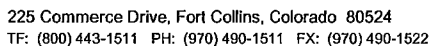
DUP		Sample ID: 14031138-01A DUP				Units: % of sample		Analysis Date: 3/27/2014 10:16 AM		
Client ID: Bottom		Run ID: MOIST_140327A				SeqNo: 2687858		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 12.32 0.050 0 0 0 0-0 13.19 6.82 20

The following samples were analyzed in this batch:

14031138-01A

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



Form 202r8








14031138

1 of 1

DISPOSAL By Lab or Return to Client

*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.

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY			3/25/14	4:20
RECEIVED BY			3-25-14	4:20
RELINQUISHED BY			3-25	4:45
RECEIVED BY		Diane F. Shan	3/26/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 26-Mar-14 09:30

Work Order: 14031138

Received by: DS

Checklist completed by Diane Shaw 26-Mar-14
eSignature Date

Reviewed by: Ann Preston 26-Mar-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>4.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>3/26/2014 10:49:22 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: (979) 424-4749
Lab Hub, LLC
127 E First Street
PARACHUTE, CO 81635

Origin ID: RILA



BILL RECIPIENT

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

HOLLAND, MI 49424

Ship Date: 25MAR14
Act Wgt: 60.0 LB
CAD: 103823430/NET3410

Dims: 25 X 14 X 13 IN

Delivery Address Bar Code



Ref: 1001-032514-6
Invoice #
PO #
Dept #

WED - 26 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 7983 3597 6044

0201

49424

MI-US

GRR

XX GRRR



522510046/F220

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CSJ

10/1/14



28-Apr-2014

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

Re: **WPX RMV 220-21 Landfarm 4.15.14**

Work Order: **1404926**

Dear Mark,

ALS Environmental received 1 sample on 17-Apr-2014 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 black ink 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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Landfarm 4.15.14
Work Order: 1404926

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>
1404926-01	Baseline	Soil		4/15/2014 12:00	4/17/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Landfarm 4.15.14
Work Order: 1404926

Case Narrative

Batch 57751 sample 1404926-01 reporting limits for Metals were elevated due to dilution for high concentrations of non-target analytes. The MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 57825 sample Baseline MS recovery for GRO was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD were in control. No qualification is required for GRO.

Batch 57786 duplicate data for SAR 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: 28-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Landfarm 4.15.14
Sample ID: Baseline
Collection Date: 4/15/2014 12:00 PM

Work Order: 1404926
Lab ID: 1404926-01
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 / 4/18/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	80.3		4.6	mg/Kg-dry	1	4/21/2014 01:40 AM
			39-115	%REC	1	4/21/2014 01:40 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 4/21/14	Analyst: IT
<i>Surr: Toluene-d8</i>	125		2.8	mg/Kg-dry	1	4/21/2014 06:21 PM
			50-150	%REC	1	4/21/2014 06:21 PM
MERCURY BY CVAA						
Mercury	0.035		SW7471		Prep: SW7471 / 4/23/14	Analyst: LR
			0.017	mg/Kg-dry	1	4/23/2014 05:43 PM
METALS BY ICP-MS						
Arsenic	7.6		SW6020A		Prep: SW3050B / 4/18/14	Analyst: ML
Barium	490		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Cadmium	ND		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Chromium	12		0.81	mg/Kg-dry	5	4/24/2014 07:49 AM
Copper	13		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Lead	10		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Nickel	14		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Selenium	ND		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Silver	ND		2.0	mg/Kg-dry	5	4/24/2014 07:49 AM
Zinc	45		4.1	mg/Kg-dry	5	4/24/2014 07:49 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/23/14	Analyst: RH
Calcium	110		10	mg/L	20	4/25/2014 08:22 PM
Magnesium	44		4.0	mg/L	20	4/25/2014 08:22 PM
Sodium	430		4.0	mg/L	20	4/25/2014 08:22 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/23/14	Analyst: RH
Sodium Adsorption Ratio	8.9		0.010	none	1	4/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/18/14	Analyst: RM
Acenaphthene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Acenaphthylene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Anthracene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Benzo(a)anthracene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Benzo(a)pyrene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Benzo(b)fluoranthene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Benzo(g,h,i)perylene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Benzo(k)fluoranthene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Chrysene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM

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

ALS Group USA, Corp

Date: 28-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Landfarm 4.15.14
Sample ID: Baseline
Collection Date: 4/15/2014 12:00 PM

Work Order: 1404926
Lab ID: 1404926-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Fluoranthene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Fluorene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Indeno(1,2,3-cd)pyrene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Naphthalene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Pyrene	ND		7.3	µg/Kg-dry	1	4/20/2014 11:16 PM
Surr: 2-Fluorobiphenyl	74.1		12-100	%REC	1	4/20/2014 11:16 PM
Surr: 4-Terphenyl-d14	79.6		25-137	%REC	1	4/20/2014 11:16 PM
Surr: Nitrobenzene-d5	57.7		37-107	%REC	1	4/20/2014 11:16 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/21/14		Analyst: RS
Benzene	ND		34	µg/Kg-dry	1	4/22/2014 07:56 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	4/22/2014 07:56 PM
m,p-Xylene	ND		67	µg/Kg-dry	1	4/22/2014 07:56 PM
o-Xylene	ND		34	µg/Kg-dry	1	4/22/2014 07:56 PM
Toluene	57		34	µg/Kg-dry	1	4/22/2014 07:56 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/22/2014 07:56 PM
Surr: 1,2-Dichloroethane-d4	95.2		70-130	%REC	1	4/22/2014 07:56 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	4/22/2014 07:56 PM
Surr: Dibromofluoromethane	88.4		70-130	%REC	1	4/22/2014 07:56 PM
Surr: Toluene-d8	95.8		70-130	%REC	1	4/22/2014 07:56 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/23/14		Analyst: JB
Electrical Conductivity @ Saturation	3.1		0.050	mmhos/cm @25	10	4/24/2014 04:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.56	mg/Kg-dry	1	4/24/2014 02:40 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/19/14		Analyst: MB
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	4/22/2014 12:45 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	11		0.050	% of sample	1	4/18/2014 09:48 AM
PH			SW9045D	Prep: EXTRACT / 4/18/14		Analyst: KF
pH	8.6			s.u.	1	4/18/2014 10:30 AM

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

ALS Group USA, Corp

Date: 28-Apr-14

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57735** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: DBLKS1-57735-57735				Units: mg/Kg		Analysis Date: 4/20/2014 03:11 PM		
Client ID:			Run ID: GC8_140420A			SeqNo: 2723140		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.32	0	1.667	0	79.2	39-115	0			

LCS				Sample ID: DLCSS1-57735-57735				Units: mg/Kg			Analysis Date: 4/20/2014 03:41 PM			
Client ID:				Run ID: GC8_140420A				SeqNo: 2723141			Prep Date: 4/18/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
DRO (C10-C28)		187.3	4.2	166.7	0	112	49-124	0						
Surr: 4-Terphenyl-d14		1.625	0	1.667	0	97.5	39-115	0						

MS				Sample ID: 1404898-24C MS				Units: mg/Kg			Analysis Date: 4/20/2014 04:11 PM			
Client ID:				Run ID: GC8_140420A				SeqNo: 2723142			Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
DRO (C10-C28)	360.6	8.2	326.1	0	111	60-130	0							
Surr: 4-Terphenyl-d14	3.091	0	3.261	0	94.8	39-115	0							

MSD				Sample ID: 1404898-24C MSD				Units: mg/Kg			Analysis Date: 4/20/2014 04:41 PM			
Client ID:				Run ID: GC8_140420A				SeqNo: 2723143			Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
DRO (C10-C28)	356.7	8.3	330.8	0	108	60-130	360.6	1.11	30					
Surr: 4-Terphenyl-d14	3.137	0	3.308	0	94.8	39-115	3.091	1.5	30					

The following samples were analyzed in this batch: 1404926-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57825** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-57825-57825				Units: µg/Kg		Analysis Date: 4/21/2014 05:55 PM		
Client ID:		Run ID: GC9_140421A				SeqNo: 2724699		Prep Date: 4/21/2014		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	6107	0	5000	0	122	50-150	0			

LCS		Sample ID: LCS-57825-57825				Units: µg/Kg		Analysis Date: 4/21/2014 05:30 PM		
Client ID:		Run ID: GC9_140421A				SeqNo: 2724698		Prep Date: 4/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	616300	2,500	500000	0	123	70-130	0			
Surr: Toluene-d8	5406	0	5000	0	108	50-150	0			

MS		Sample ID: 1404926-01A MS				Units: µg/Kg		Analysis Date: 4/21/2014 08:03 PM		
Client ID: Baseline		Run ID: GC9_140421A				SeqNo: 2724706		Prep Date: 4/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	664500	2,500	500000	0	133	70-130	0			S
Surr: Toluene-d8	4982	0	5000	0	99.6	50-150	0			

MSD		Sample ID: 1404926-01A MSD				Units: µg/Kg		Analysis Date: 4/21/2014 08:28 PM		
Client ID: Baseline		Run ID: GC9_140421A				SeqNo: 2724708		Prep Date: 4/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	622800	2,500	500000	0	125	70-130	664500	6.48	30	
Surr: Toluene-d8	5666	0	5000	0	113	50-150	4982	12.8	30	

The following samples were analyzed in this batch:

1404926-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57849** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-57849-57849					Units: mg/Kg		Analysis Date: 4/23/2014 05:04 PM		
Client ID:			Run ID: HG1_140423A				SeqNo: 2727935		Prep Date: 4/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.020

LCS		Sample ID: LCS-57849-57849				Units: mg/Kg		Analysis Date: 4/23/2014 05:07 PM		
Client ID:		Run ID: HG1_140423A				SeqNo: 2727936		Prep Date: 4/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1691 0.020 0.1665 0 102 80-120 0

MS		Sample ID: 14041075-03BMS					Units: mg/Kg		Analysis Date: 4/23/2014 05:11 PM		
Client ID:			Run ID: HG1_140423A			SeqNo: 2727938		Prep Date: 4/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1255 0.013 0.1074 0.01703 101 75-125 0

MSD		Sample ID: 14041075-03BMSD					Units: mg/Kg		Analysis Date: 4/23/2014 05:14 PM		
Client ID:			Run ID: HG1_140423A			SeqNo: 2727939		Prep Date: 4/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1366 0.013 0.1094 0.01703 109 75-125 0.1255 8.47 35

The following samples were analyzed in this batch:

1404926-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57751** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-57751-57751				Units: mg/Kg		Analysis Date: 4/24/2014 07:25 AM		
Client ID:		Run ID: ICPMS1_140423B				SeqNo: 2728200		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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-57751-57751				Units: mg/Kg		Analysis Date: 4/24/2014 07:31 AM		
Client ID:		Run ID: ICPMS1_140423B				SeqNo: 2728201		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.329	0.25	5	0	86.6	80-120	0			
Barium	4.797	0.25	5	0	95.9	80-120	0			
Cadmium	4.644	0.10	5	0	92.9	80-120	0			
Chromium	4.834	0.25	5	0	96.7	80-120	0			
Copper	4.79	0.25	5	0	95.8	80-120	0			
Lead	4.962	0.25	5	0	99.2	80-120	0			
Nickel	4.764	0.25	5	0	95.3	80-120	0			
Selenium	4.132	0.25	5	0	82.6	80-120	0			
Silver	4.742	0.25	5	0	94.8	80-120	0			
Zinc	4.303	0.50	5	0	86.1	80-120	0			

MS		Sample ID: 1404931-02CMS				Units: mg/Kg		Analysis Date: 4/25/2014 01:29 AM		
Client ID:		Run ID: ICPMS1_140424A				SeqNo: 2729803		Prep Date: 4/18/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.25	1.8	7.052	11.96	60.8	75-125	0			S
Barium	35.37	1.8	7.052	24.72	151	75-125	0			S
Cadmium	6.858	0.71	7.052	0.217	94.2	75-125	0			
Chromium	16.26	1.8	7.052	7.595	123	75-125	0			
Copper	21.62	1.8	7.052	16.83	67.8	75-125	0			S
Lead	14.87	1.8	7.052	8.869	85.1	75-125	0			
Nickel	21.09	1.8	7.052	19.71	19.6	75-125	0			S
Selenium	8.057	1.8	7.052	0.9632	101	75-125	0			
Silver	6.4	1.8	7.052	0.0212	90.4	75-125	0			
Zinc	50.63	3.5	7.052	50.32	4.53	75-125	0			SO

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57751** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1404931-02CMSD				Units: mg/Kg		Analysis Date: 4/25/2014 01:35 AM		
Client ID:		Run ID: ICPMS1_140424A				SeqNo: 2729806		Prep Date: 4/18/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.83	1.7	6.964	11.96	84.2	75-125	16.25	9.25	25	
Barium	34.17	1.7	6.964	24.72	136	75-125	35.37	3.45	25	S
Cadmium	6.825	0.70	6.964	0.217	94.9	75-125	6.858	0.493	25	
Chromium	15.31	1.7	6.964	7.595	111	75-125	16.26	5.99	25	
Copper	21.34	1.7	6.964	16.83	64.7	75-125	21.62	1.31	25	S
Lead	14.12	1.7	6.964	8.869	75.3	75-125	14.87	5.23	25	
Nickel	21.13	1.7	6.964	19.71	20.4	75-125	21.09	0.182	25	S
Selenium	8.179	1.7	6.964	0.9632	104	75-125	8.057	1.5	25	
Silver	6.184	1.7	6.964	0.0212	88.5	75-125	6.4	3.43	25	
Zinc	53.76	3.5	6.964	50.32	49.5	75-125	50.63	5.99	25	SO

The following samples were analyzed in this batch: 1404926-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57786** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1404990-01ADUP				Units: mg/L		Analysis Date: 4/25/2014 07:38 PM		
Client ID:		Run ID: ICPMS2_140425B				SeqNo: 2731250		Prep Date: 4/23/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	112	10	0	0	0	0-0	109.8	2		
Magnesium	22.8	4.0	0	0	0	0-0	22.7	0.44		
Sodium	2.386	4.0	0	0	0	0-0	9.804	0		J

DUP		Sample ID: 1404990-01ADUP				Units: none		Analysis Date: 4/25/2014		
Client ID:		Run ID: SAR_140425A				SeqNo: 2731280		Prep Date: 4/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.05372	0.010	0	0	0		0.01434	116	50	R

The following samples were analyzed in this batch: | 1404926-01C |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57734** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-57734-57734				Units: µg/Kg		Analysis Date: 4/20/2014 05:06 PM		
Client ID:		Run ID: SVMS8_140420A				SeqNo: 2725680		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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>	1249	0	1667	0	74.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1933	0	1667	0	116	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1247	0	1667	0	74.8	37-107	0			

LCS		Sample ID: SLCSS1-57734-57734				Units: µg/Kg		Analysis Date: 4/20/2014 05:26 PM		
Client ID:		Run ID: SVMS8_140420A				SeqNo: 2725681		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	545	6.7	666.7	0	81.7	45-110	0			
Acenaphthylene	590.3	6.7	666.7	0	88.5	45-105	0			
Anthracene	641.7	6.7	666.7	0	96.2	55-105	0			
Benzo(a)anthracene	650	6.7	666.7	0	97.5	50-110	0			
Benzo(a)pyrene	730.3	6.7	666.7	0	110	50-110	0			
Benzo(b)fluoranthene	722.7	6.7	666.7	0	108	45-115	0			
Benzo(g,h,i)perylene	706	6.7	666.7	0	106	40-125	0			
Benzo(k)fluoranthene	725.3	6.7	666.7	0	109	45-115	0			
Chrysene	638.3	6.7	666.7	0	95.7	55-110	0			
Dibenzo(a,h)anthracene	723.3	6.7	666.7	0	108	40-125	0			
Fluoranthene	634	6.7	666.7	0	95.1	55-115	0			
Fluorene	554.7	6.7	666.7	0	83.2	50-110	0			
Indeno(1,2,3-cd)pyrene	709.3	6.7	666.7	0	106	40-120	0			
Naphthalene	537.3	6.7	666.7	0	80.6	40-105	0			
Pyrene	774	6.7	666.7	0	116	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1351	0	1667	0	81.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1939	0	1667	0	116	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1306	0	1667	0	78.3	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57734** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 1404898-11C MS			Units: µg/Kg		Analysis Date: 4/20/2014 06:07 PM	
Client ID:		Run ID: SVMS8_140420A			SeqNo: 2725683		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1025	13	1273	0	80.5	45-110	0			
Acenaphthylene	1085	13	1273	0	85.2	45-105	0			
Anthracene	1222	13	1273	0	96	55-105	0			
Benzo(a)anthracene	1294	13	1273	42.39	98.3	50-110	0			
Benzo(a)pyrene	1388	13	1273	0	109	50-110	0			
Benzo(b)fluoranthene	1391	13	1273	56.74	105	45-115	0			
Benzo(g,h,i)perylene	1456	13	1273	0	114	40-125	0			
Benzo(k)fluoranthene	1381	13	1273	0	108	45-115	0			
Chrysene	1252	13	1273	33.26	95.7	55-110	0			
Dibenzo(a,h)anthracene	1416	13	1273	0	111	40-125	0			
Fluoranthene	1282	13	1273	39.79	97.6	55-115	0			
Fluorene	1061	13	1273	0	83.4	50-110	0			
Indeno(1,2,3-cd)pyrene	1480	13	1273	0	116	40-120	0			
Naphthalene	941.2	13	1273	0	73.9	40-105	0			
Pyrene	1514	13	1273	35.22	116	45-125	0			
Surr: 2-Fluorobiphenyl	2490	0	3182	0	78.3	12-100	0			
Surr: 4-Terphenyl-d14	3768	0	3182	0	118	25-137	0			
Surr: Nitrobenzene-d5	2203	0	3182	0	69.2	37-107	0			

MSD				Sample ID: 1404898-11C MSD			Units: µg/Kg		Analysis Date: 4/20/2014 06:28 PM	
Client ID:		Run ID: SVMS8_140420A			SeqNo: 2725684		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1091	13	1299	0	84	45-110	1025	6.2	30	
Acenaphthylene	1108	13	1299	0	85.3	45-105	1085	2.12	30	
Anthracene	1251	13	1299	0	96.3	55-105	1222	2.37	30	
Benzo(a)anthracene	1291	13	1299	42.39	96.2	50-110	1294	0.183	30	
Benzo(a)pyrene	1413	13	1299	0	109	50-110	1388	1.82	30	
Benzo(b)fluoranthene	1426	13	1299	56.74	105	45-115	1391	2.46	30	
Benzo(g,h,i)perylene	1454	13	1299	0	112	40-125	1456	0.159	30	
Benzo(k)fluoranthene	1413	13	1299	0	109	45-115	1381	2.28	30	
Chrysene	1295	13	1299	33.26	97.1	55-110	1252	3.37	30	
Dibenzo(a,h)anthracene	1442	13	1299	0	111	40-125	1416	1.83	30	
Fluoranthene	1318	13	1299	39.79	98.4	55-115	1282	2.75	30	
Fluorene	1095	13	1299	0	84.3	50-110	1061	3.08	30	
Indeno(1,2,3-cd)pyrene	1471	13	1299	0	113	40-120	1480	0.608	30	
Naphthalene	1052	13	1299	0	81	40-105	941.2	11.1	30	
Pyrene	1503	13	1299	35.22	113	45-125	1514	0.722	30	
Surr: 2-Fluorobiphenyl	2687	0	3246	0	82.8	12-100	2490	7.62	40	
Surr: 4-Terphenyl-d14	3784	0	3246	0	117	25-137	3768	0.422	40	
Surr: Nitrobenzene-d5	2554	0	3246	0	78.7	37-107	2203	14.7	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57734** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1404926-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57823** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-57823-57823				Units: µg/Kg			Analysis Date: 4/22/2014 12:49 PM		
Client ID:			Run ID: VMS5_140422A				SeqNo: 2725921			Prep Date: 4/21/2014		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	938.5	0	1000	0	93.8	70-130		0					
Surr: 4-Bromofluorobenzene	878	0	1000	0	87.8	70-130		0					
Surr: Dibromofluoromethane	996	0	1000	0	99.6	70-130		0					
Surr: Toluene-d8	980	0	1000	0	98	70-130		0					

LCS				Sample ID: LCS-57823-57823			Units: µg/Kg		Analysis Date: 4/22/2014 11:34 AM		
Client ID:		Run ID: VMS5_140422A			SeqNo: 2725920		Prep Date: 4/21/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1080	30	1000	0	108	75-125	0				
Ethylbenzene	1108	30	1000	0	111	75-125	0				
m,p-Xylene	2188	60	2000	0	109	80-125	0				
o-Xylene	1094	30	1000	0	109	75-125	0				
Toluene	1092	30	1000	0	109	70-125	0				
Xylenes, Total	3283	90	3000	0	109	75-125	0				
Surr: 1,2-Dichloroethane-d4	951.5	0	1000	0	95.2	70-130	0				
Surr: 4-Bromofluorobenzene	922.5	0	1000	0	92.2	70-130	0				
Surr: Dibromofluoromethane	991	0	1000	0	99.1	70-130	0				
Surr: Toluene-d8	1003	0	1000	0	100	70-130	0				

MS				Sample ID: 14041003-02A MS				Units: µg/Kg		Analysis Date: 4/23/2014 06:24 AM	
Client ID:			Run ID: VMS8_140422A			SeqNo: 2726780		Prep Date: 4/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1464	48	1597	0	91.6	75-125	0				
Ethylbenzene	1474	48	1597	0	92.3	75-125	0				
m,p-Xylene	2949	96	3195	0	92.3	80-125	0				
o-Xylene	1503	48	1597	0	94.1	75-125	0				
Toluene	1458	48	1597	0	91.3	70-125	0				
Xylenes, Total	4452	140	4792	0	92.9	75-125	0				
Surr: 1,2-Dichloroethane-d4	1550	0	1597	0	97	70-130	0				
Surr: 4-Bromofluorobenzene	1629	0	1597	0	102	70-130	0				
Surr: Dibromofluoromethane	1585	0	1597	0	99.2	70-130	0				
Surr: Toluene-d8	1561	0	1597	0	97.8	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57823** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 14041003-02A MSD			Units: µg/Kg		Analysis Date: 4/23/2014 06:48 AM	
Client ID:				Run ID: VMS8_140422A			SeqNo: 2726786		Prep Date: 4/21/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1463	48	1597	0	91.6	75-125	1464	0.0546	30	
Ethylbenzene	1458	48	1597	0	91.2	75-125	1474	1.14	30	
m,p-Xylene	2879	96	3195	0	90.1	80-125	2949	2.38	30	
o-Xylene	1485	48	1597	0	93	75-125	1503	1.23	30	
Toluene	1426	48	1597	0	89.3	70-125	1458	2.21	30	
Xylenes, Total	4364	140	4792	0	91.1	75-125	4452	1.99	30	
Surr: 1,2-Dichloroethane-d4	1585	0	1597	0	99.2	70-130	1550	2.24	30	
Surr: 4-Bromofluorobenzene	1613	0	1597	0	101	70-130	1629	1.03	30	
Surr: Dibromofluoromethane	1605	0	1597	0	100	70-130	1585	1.25	30	
Surr: Toluene-d8	1558	0	1597	0	97.6	70-130	1561	0.205	30	

The following samples were analyzed in this batch: 1404926-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57747** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-57747-57747					Units: s.u.		Analysis Date: 4/18/2014 10:30 AM		
Client ID:			Run ID: WETCHEM_140418C			SeqNo: 2719890		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	3.99	0	4	0	99.8	90-110	0			
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DUP		Sample ID: 1404900-01B DUP					Units: s.u.		Analysis Date: 4/18/2014 10:30 AM		
Client ID:		Run ID: WETCHEM_140418C			SeqNo: 2719893		Prep Date: 4/18/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	8.08	0	0	0	0	0-0	8	0.995	20	
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DUP		Sample ID: 1404933-03A DUP					Units: s.u.		Analysis Date: 4/18/2014 10:30 AM		
Client ID:			Run ID: WETCHEM_140418C			SeqNo: 2719907		Prep Date: 4/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	7.86	0	0	0	0	0-0	7.97	1.39	20	
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The following samples were analyzed in this batch:

1404926-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57786** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1404990-01A DUP				Units: mmhos/cm @25°C		Analysis Date: 4/24/2014 04:30 PM		
Client ID:		Run ID: WETCHEM_140424Q				SeqNo: 2729608		Prep Date: 4/23/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.677	0.050	0	0	0		0.693	2.34	50	

The following samples were analyzed in this batch:

1404926-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **57812** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-57812-57812				Units: mg/Kg		Analysis Date: 4/22/2014 12:45 PM		
Client ID:		Run ID: WETCHEM_140422G				SeqNo: 2725862		Prep Date: 4/19/2014		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-57812-57812				Units: mg/Kg		Analysis Date: 4/22/2014 12:45 PM		
Client ID:		Run ID: WETCHEM_140422G				SeqNo: 2725863		Prep Date: 4/19/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.06 0.50 2 0 103 80-120 0

MS		Sample ID: 1404884-13C MS				Units: mg/Kg		Analysis Date: 4/22/2014 12:45 PM		
Client ID:		Run ID: WETCHEM_140422G				SeqNo: 2725867		Prep Date: 4/19/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.262 0.49 1.953 0.5296 88.7 75-125 0

MS		Sample ID: 1404884-13C MSI				Units: mg/Kg		Analysis Date: 4/22/2014 12:45 PM		
Client ID:		Run ID: WETCHEM_140422G				SeqNo: 2725869		Prep Date: 4/19/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1167 50 1231 0.5296 94.7 75-125 0

MSD		Sample ID: 1404884-13C MSD				Units: mg/Kg		Analysis Date: 4/22/2014 12:45 PM		
Client ID:		Run ID: WETCHEM_140422G				SeqNo: 2725868		Prep Date: 4/19/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.289 0.49 1.976 0.5296 89 75-125 2.262 1.18 20

The following samples were analyzed in this batch:

1404926-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404926
Project: WPX RMV 220-21 Landfarm 4.15.14

QC BATCH REPORT

Batch ID: **R139245** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R139245					Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID:			Run ID: MOIST_140418B			SeqNo: 2721088		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-R139245					Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID:			Run ID: MOIST_140418B			SeqNo: 2721086		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: 1404878-18D DUP					Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID:			Run ID: MOIST_140418B			SeqNo: 2721076		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 26.78 0.050 0 0 0 0-0 25.62 4.43 20

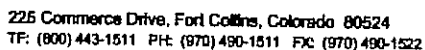
DUP				Sample ID: 1404926-01B DUP				Units: % of sample			Analysis Date: 4/18/2014 09:48 AM			
Client ID: Baseline				Run ID: MOIST_140418B				SeqNo: 2721082			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 10.4 0.050 0 0 0 0-0 10.82 3.96 20

The following samples were analyzed in this batch:

1404926-01B

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



WORKORDER
1404926

Form 202-rd

*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.

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	4/5/14	2100
RECEIVED BY	<i>N.M</i>	<i>N.M</i>	4-5	2:00
RELINQUISHED BY	<i>[Signature]</i>	<i>N.M</i>	4-5	2100
RECEIVED BY	<i>[Signature]</i>	KEITH WIERENKA	4/17/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **17-Apr-14 00:00**

Work Order: **1404926**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

17-Apr-14
Date

Reviewed by: Ann Preston
eSignature

18-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>3.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/17/2014 3:16:23 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: GRRR



Ship Date: 15APR14
 ActWgt: 71.0 LB
 CAD: 2264840/NET3490
 Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 041514-2
 Invoice #
 PO #
 Dept #

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

BILL SENDER

HOLLAND, MI 49424

WED - 16 APR AA
 STANDARD OVERNIGHT

TRK# 7985 5782 6286
 0281

68 GRRR

49424
 MI-US
 GRR



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501



24-Apr-2014

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

Re: **WPX RMV 220-21 Backgrounds 4.15.14**

Work Order: **1404928**

Dear Mark,

ALS Environmental received 3 samples on 17-Apr-2014 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 11.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Backgrounds 4.15.14
Work Order: 1404928

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>
1404928-01	RMV 220-21-B-4	Soil		4/15/2014 11:40	4/17/2014 09:30	<input type="checkbox"/>
1404928-02	RMV 220-21-B-5	Soil		4/15/2014 11:45	4/17/2014 09:30	<input type="checkbox"/>
1404928-03	RMV 220-21-B-6	Soil		4/15/2014 11:50	4/17/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Backgrounds 4.15.14
WorkOrder: 1404928

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: 24-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Backgrounds 4.15.14
Sample ID: RMV 220-21-B-4
Collection Date: 4/15/2014 11:40 AM

Work Order: 1404928
Lab ID: 1404928-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/18/14	Analyst: ML
Arsenic	9.0		2.4	mg/Kg-dry	5	4/24/2014 07:54 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	19		0.050	% of sample	1	4/18/2014 09:48 AM

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

ALS Group USA, Corp

Date: 24-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Backgrounds 4.15.14
Sample ID: RMV 220-21-B-5
Collection Date: 4/15/2014 11:45 AM

Work Order: 1404928
Lab ID: 1404928-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/18/14	Analyst: ML
Arsenic	7.1		2.3	mg/Kg-dry	5	4/24/2014 08:00 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	14		0.050	% of sample	1	4/18/2014 09:48 AM

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

ALS Group USA, Corp

Date: 24-Apr-14

Client: HRL Compliance Solutions, Inc
Project: WPX RMV 220-21 Backgrounds 4.15.14
Sample ID: RMV 220-21-B-6
Collection Date: 4/15/2014 11:50 AM

Work Order: 1404928
Lab ID: 1404928-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/18/14	Analyst: ML
Arsenic	7.2		2.5	mg/Kg-dry	5	4/24/2014 08:06 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	4/18/2014 09:48 AM

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

Client: HRL Compliance Solutions, Inc

Work Order: 1404928

Project: WPX RMV 220-21 Backgrounds 4.15.14

QC BATCH REPORT

Batch ID: 57751

Instrument ID ICPMS1

Method: SW6020A

MBLK		Sample ID: MBLK-57751-57751				Units: mg/Kg		Analysis Date: 4/24/2014 07:25 AM		
Client ID:		Run ID: ICPMS1_140423B				SeqNo: 2728200		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS		Sample ID: LCS-57751-57751				Units: mg/Kg		Analysis Date: 4/24/2014 07:31 AM		
Client ID:		Run ID: ICPMS1_140423B				SeqNo: 2728201		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.329	0.25	5	0	86.6	80-120		0		

The following samples were analyzed in this batch:

1404928-01A	1404928-02A	1404928-03A
-------------	-------------	-------------

Client: HRL Compliance Solutions, Inc
Work Order: 1404928
Project: WPX RMV 220-21 Backgrounds 4.15.14

QC BATCH REPORT

Batch ID: **R139243** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R139243				Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID:		Run ID: MOIST_140418A				SeqNo: 2721735		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-R139243				Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID:		Run ID: MOIST_140418A				SeqNo: 2721734		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: 1404928-01A DUP				Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID: RMV 220-21-B-4		Run ID: MOIST_140418A				SeqNo: 2721728		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.34 0.050 0 0 0 0-0 19.02 3.64 20

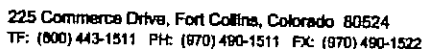
DUP		Sample ID: 1404928-02A DUP				Units: % of sample		Analysis Date: 4/18/2014 09:48 AM		
Client ID: RMV 220-21-B-5		Run ID: MOIST_140418A				SeqNo: 2721730		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.8 0.050 0 0 0 0-0 13.96 5.84 20

The following samples were analyzed in this batch:

1404928-01A	1404928-02A	1404928-03A
-------------	-------------	-------------

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



1404978

Form 202r1

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

QC PACKAGE (check below)

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>	Reed W. LD	4/15/14	2:00
RECEIVED BY	<i>[Signature]</i>	N. MAW...	4-15	3:00
RELINQUISHED BY	<i>[Signature]</i>	N. MAW...	4-15	2:50
RECEIVED BY	<i>[Signature]</i>	KETU WIERER...	4/17/14	04:50
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 17-Apr-14 09:30

Work Order: 1404928

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

17-Apr-14
Date

Reviewed by: Ann Preston
eSignature

18-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>3.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/17/2014 3:19:40 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: GRRR



Ship Date: 15APR14
 ActWgt: 71.0 LB
 CAD: 2264840/NET3400

Dims: 24 X 15 X 15 IN

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

BILL BENDER

Delivery Address Bar Code



Ref # D41514-2
 Invoice #
 PO #
 Dept #

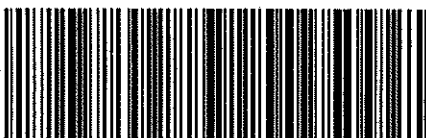
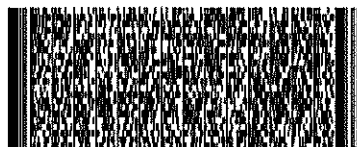
HOLLAND, MI 49424

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