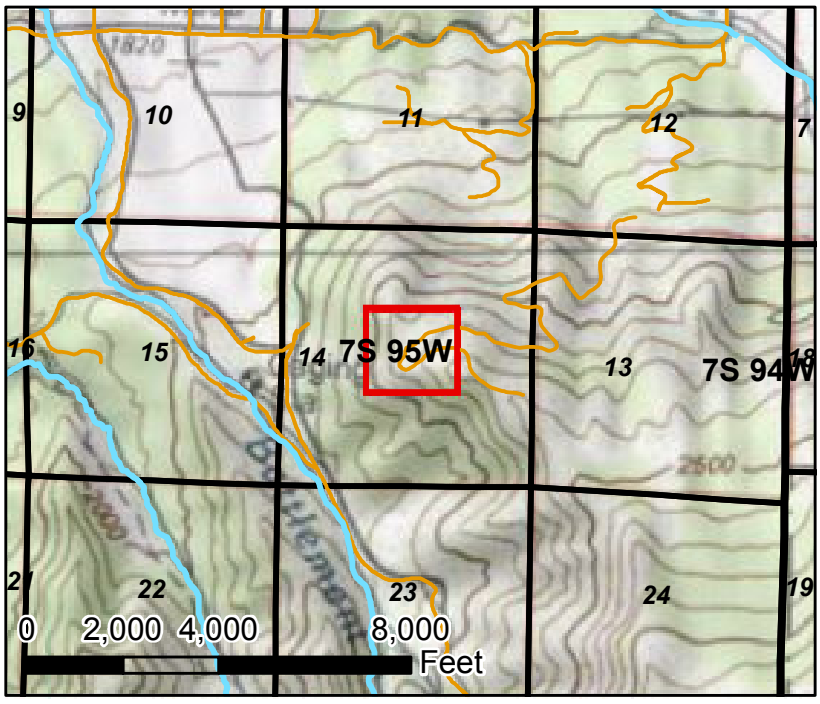


Attachment A - Spill Location Map

Location: SP 32-14 Pad

WPX Energy Rocky Mountain, LLC

Legend

- Sample Location
- Section Line
- Spill Area
- Township Range
- Existing Road
- Stream

N W E S

0 50 100 Feet

WPXENERGY

T:\Projects\PIC\Parachute\13\0530_SP 32-14_SpillLocationMap\Map_with_Sampling_Locations.mxd mreynold 6/10/2013 1:59:10 PM

06-Jun-2013

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

Re: **WPX SP 32-14 Confirmation 5/28/13** Work Order: **13051126**

Dear Mark,

ALS Environmental received 5 samples on 30-May-2013 08:30 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 30.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

ALS Group USA, Corp

Date: 06-Jun-13

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13
Work Order: **13051126**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13051126-01	Terminus	Soil		5/28/2013 14:45	5/30/2013 08:30	☐
13051126-02	Mid Point	Soil		5/28/2013 14:55	5/30/2013 08:30	☐
13051126-03	BKGD1	Soil		5/28/2013 15:00	5/30/2013 08:30	☐
13051126-04	BKGD2	Soil		5/28/2013 15:05	5/30/2013 08:30	☐
13051126-05	BKGD3	Soil		5/28/2013 15:10	5/30/2013 08:30	☐

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13
Work Order: 13051126

Case Narrative

Batch 48760 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch 48775 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 48813 sample BKGD2 MS/MSD recoveries for Barium and Zinc were outside of the control; however, the result in the parent sample is greater than 4x the spiked amount. No qualification is required for Barium and Zinc. The MSD recoveries for Chromium and Nickel were above control limits. However, the MS recoveries and the RPDs between the MS and MSD were in control. No qualification is required for Chromium and Zinc.

ALS Group USA, Corp

Date: 06-Jun-13

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13
WorkOrder: **13051126**

QUALIFIERS, ACRONYMS, UNITS

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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mmhos/cm @25°F	Microhms-Centimeter at 25 Degrees Fahrenheit
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: *06-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13 **Work Order:** 13051126
Sample ID: Terminus **Lab ID:** 13051126-01
Collection Date: 5/28/2013 02:45 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **5/31/2013**	Analyst: **CW**
DRO (C10-C28)	**24**		**4.9**	**mg/Kg-dry**	1	6/3/2013 10:35 AM
Surr: 4-Terphenyl-d14	*50.4*		*39-115*	*%REC*	1	6/3/2013 10:35 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	6/3/2013 04:47 PM
Surr: Toluene-d8	*110*		*50-150*	*%REC*	50	6/3/2013 04:47 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **6/3/2013**	Analyst: **LR**
Mercury	**0.018**		**0.017**	**mg/Kg-dry**	1	6/3/2013 04:09 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/3/2013**	Analyst: **RH**
Arsenic	**4.0**		**2.2**	**mg/Kg-dry**	5	6/4/2013 04:58 AM
Barium	**1,000**		**22**	**mg/Kg-dry**	50	6/5/2013 11:37 AM
Cadmium	ND		0.89	mg/Kg-dry	5	6/4/2013 04:58 AM
Chromium	**27**		**2.2**	**mg/Kg-dry**	5	6/4/2013 04:58 AM
Copper	**26**		**2.2**	**mg/Kg-dry**	5	6/4/2013 04:58 AM
Lead	**9.2**		**2.2**	**mg/Kg-dry**	5	6/4/2013 04:58 AM
Nickel	**66**		**2.2**	**mg/Kg-dry**	5	6/4/2013 04:58 AM
Selenium	ND		2.2	mg/Kg-dry	5	6/4/2013 04:58 AM
Silver	ND		2.2	mg/Kg-dry	5	6/4/2013 04:58 AM
Zinc	**56**		**4.5**	**mg/Kg-dry**	5	6/4/2013 04:58 AM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **5/30/2013**	Analyst: **RH**
Calcium	**520**		**12**	**mg/L-dry**	20	6/3/2013 05:17 PM
Magnesium	**81**		**4.7**	**mg/L-dry**	20	6/3/2013 05:17 PM
Sodium	**2,900**		**4.7**	**mg/L-dry**	20	6/3/2013 05:17 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **5/30/2013**	Analyst: **ML**
Sodium Adsorption Ratio	**28**		**0.010**	**none**	1	6/3/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **5/31/2013**	Analyst: **HL**
Acenaphthene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Acenaphthylene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Anthracene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	6/3/2013 03:56 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	6/3/2013 03:56 PM
Benzo(g,h,i)perylene	ND		29	µg/Kg-dry	1	6/3/2013 03:56 PM
Benzo(k)fluoranthene	ND		20	µg/Kg-dry	1	6/3/2013 03:56 PM
Chrysene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	6/3/2013 03:56 PM
Fluoranthene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM

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

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13 **Work Order:** 13051126
Sample ID: Terminus **Lab ID:** 13051126-01
Collection Date: 5/28/2013 02:45 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Indeno(1,2,3-cd)pyrene	ND		24	µg/Kg-dry	1	6/3/2013 03:56 PM
Naphthalene	ND		18	µg/Kg-dry	1	6/3/2013 03:56 PM
Pyrene	ND		24	µg/Kg-dry	1	6/3/2013 03:56 PM
Surr: 2-Fluorobiphenyl	*58.1*		*12-100*	*%REC*	1	6/3/2013 03:56 PM
Surr: 4-Terphenyl-d14	*121*		*25-137*	*%REC*	1	6/3/2013 03:56 PM
Surr: Nitrobenzene-d5	*56.9*		*37-107*	*%REC*	1	6/3/2013 03:56 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **5/30/2013**	Analyst: **BG**
Benzene	ND		35	µg/Kg-dry	1	5/31/2013 12:08 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	5/31/2013 12:08 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	5/31/2013 12:08 PM
o-Xylene	ND		35	µg/Kg-dry	1	5/31/2013 12:08 PM
Toluene	ND		35	µg/Kg-dry	1	5/31/2013 12:08 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/31/2013 12:08 PM
Surr: 1,2-Dichloroethane-d4	*97.1*		*70-130*	*%REC*	1	5/31/2013 12:08 PM
Surr: 4-Bromofluorobenzene	*96.5*		*70-130*	*%REC*	1	5/31/2013 12:08 PM
Surr: Dibromofluoromethane	*94.6*		*70-130*	*%REC*	1	5/31/2013 12:08 PM
Surr: Toluene-d8	*100*		*70-130*	*%REC*	1	5/31/2013 12:08 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **5/30/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**16**		**0.050**	**mmhos/cm @25**	10	6/3/2013 01:50 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**27**		**0.59**	**mg/Kg-dry**	1	6/5/2013 09:20 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **5/30/2013**	Analyst: **MB**
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	5/31/2013 01:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**15**		**0.050**	**% of sample**	1	5/30/2013 09:51 AM
PH			**SW9045D**			Analyst: **CH**
pH	**9.2**			**s.u.**	1	5/30/2013 12:00 PM

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

ALS Group USA, Corp

Date: *06-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13 **Work Order:** 13051126
Sample ID: Mid Point **Lab ID:** 13051126-02
Collection Date: 5/28/2013 02:55 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **5/31/2013**	Analyst: **CW**
DRO (C10-C28)	**31**		**4.8**	**mg/Kg-dry**	1	6/3/2013 01:06 PM
Surr: 4-Terphenyl-d14	*50.5*		*39-115*	*%REC*	1	6/3/2013 01:06 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	6/3/2013 05:11 PM
Surr: Toluene-d8	*139*		*50-150*	*%REC*	50	6/3/2013 05:11 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **6/3/2013**	Analyst: **LR**
Mercury	ND		0.017	mg/Kg-dry	1	6/3/2013 04:11 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/3/2013**	Analyst: **RH**
Arsenic	**8.4**		**2.2**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
Barium	**510**		**2.2**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
Cadmium	ND		0.87	mg/Kg-dry	5	6/4/2013 05:03 AM
Chromium	**27**		**2.2**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
Copper	**26**		**2.2**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
Lead	**11**		**2.2**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
Nickel	**53**		**2.2**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
Selenium	ND		2.2	mg/Kg-dry	5	6/4/2013 05:03 AM
Silver	ND		2.2	mg/Kg-dry	5	6/4/2013 05:03 AM
Zinc	**120**		**4.3**	**mg/Kg-dry**	5	6/4/2013 05:03 AM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **5/30/2013**	Analyst: **RH**
Calcium	**340**		**12**	**mg/L-dry**	20	6/3/2013 05:22 PM
Magnesium	**34**		**4.6**	**mg/L-dry**	20	6/3/2013 05:22 PM
Sodium	**1,900**		**4.6**	**mg/L-dry**	20	6/3/2013 05:22 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **5/30/2013**	Analyst: **ML**
Sodium Adsorption Ratio	**25**		**0.010**	**none**	1	6/3/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **5/31/2013**	Analyst: **HL**
Acenaphthene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Acenaphthylene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Anthracene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Benzo(a)anthracene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	6/3/2013 04:16 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	6/3/2013 04:16 PM
Benzo(g,h,i)perylene	ND		29	µg/Kg-dry	1	6/3/2013 04:16 PM
Benzo(k)fluoranthene	ND		20	µg/Kg-dry	1	6/3/2013 04:16 PM
Chrysene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	6/3/2013 04:16 PM
Fluoranthene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM

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

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13 **Work Order:** 13051126
Sample ID: Mid Point **Lab ID:** 13051126-02
Collection Date: 5/28/2013 02:55 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	6/3/2013 04:16 PM
Naphthalene	ND		17	µg/Kg-dry	1	6/3/2013 04:16 PM
Pyrene	ND		23	µg/Kg-dry	1	6/3/2013 04:16 PM
Surr: 2-Fluorobiphenyl	*55.1*		*12-100*	*%REC*	1	6/3/2013 04:16 PM
Surr: 4-Terphenyl-d14	*102*		*25-137*	*%REC*	1	6/3/2013 04:16 PM
Surr: Nitrobenzene-d5	*57.8*		*37-107*	*%REC*	1	6/3/2013 04:16 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **5/30/2013**	Analyst: **BG**
Benzene	ND		35	µg/Kg-dry	1	5/31/2013 12:31 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	5/31/2013 12:31 PM
m,p-Xylene	ND		69	µg/Kg-dry	1	5/31/2013 12:31 PM
o-Xylene	ND		35	µg/Kg-dry	1	5/31/2013 12:31 PM
Toluene	ND		35	µg/Kg-dry	1	5/31/2013 12:31 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	5/31/2013 12:31 PM
Surr: 1,2-Dichloroethane-d4	*98.8*		*70-130*	*%REC*	1	5/31/2013 12:31 PM
Surr: 4-Bromofluorobenzene	*98.6*		*70-130*	*%REC*	1	5/31/2013 12:31 PM
Surr: Dibromofluoromethane	*96.0*		*70-130*	*%REC*	1	5/31/2013 12:31 PM
Surr: Toluene-d8	*101*		*70-130*	*%REC*	1	5/31/2013 12:31 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **5/30/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**11**		**0.050**	**mmhos/cm @25**	10	6/3/2013 01:50 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**27**		**0.58**	**mg/Kg-dry**	1	6/5/2013 09:20 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **5/30/2013**	Analyst: **MB**
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	5/31/2013 01:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**14**		**0.050**	**% of sample**	1	5/30/2013 09:51 AM
PH			**SW9045D**			Analyst: **CH**
pH	**8.9**			**s.u.**	1	5/30/2013 12:00 PM

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

ALS Group USA, Corp

Date: *06-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13
Work Order: 13051126
Sample ID: BKGD1
Lab ID: 13051126-03
Collection Date: 5/28/2013 03:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/3/2013**	Analyst: **RH**
Arsenic	**5.5**		**1.8**	**mg/Kg-dry**	5	6/4/2013 04:12 AM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**2.6**		**0.050**	**% of sample**	1	5/30/2013 09:51 AM

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

ALS Group USA, Corp

Date: *06-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13
Work Order: 13051126
Sample ID: BKGD2
Lab ID: 13051126-04
Collection Date: 5/28/2013 03:05 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/3/2013**	Analyst: **RH**
Arsenic	**5.0**		**2.0**	**mg/Kg-dry**	5	6/4/2013 04:43 AM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**12**		**0.050**	**% of sample**	1	5/30/2013 09:51 AM

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

ALS Group USA, Corp

Date: *06-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 5/28/13
Work Order: 13051126
Sample ID: BKGD3
Lab ID: 13051126-05
Collection Date: 5/28/2013 03:10 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/5/2013**	Analyst: **ML**
Arsenic	**4.4**		**1.9**	**mg/Kg-dry**	5	6/5/2013 03:18 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **5/30/2013**	Analyst: **RH**
Calcium	**110**		**10**	**mg/L-dry**	20	6/3/2013 04:46 PM
Magnesium	**17**		**4.1**	**mg/L-dry**	20	6/3/2013 04:46 PM
Sodium	ND		4.1	mg/L-dry	20	6/3/2013 04:46 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **5/30/2013**	Analyst: **ML**
Sodium Adsorption Ratio	**0.075**		**0.010**	**none**	1	6/3/2013
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **5/30/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.73**		**0.050**	**mmhos/cm @25**	10	6/3/2013 01:50 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**2.8**		**0.050**	**% of sample**	1	5/30/2013 09:51 AM
PH			**SW9045D**			Analyst: **CH**
pH	**7.9**			**s.u.**	1	5/30/2013 12:00 PM

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

ALS Group USA, Corp

Date: 06-Jun-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 13051126

Project: WPX SP 32-14 Confirmation 5/28/13

Batch ID: **48776** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-48776-48776** Units: **mg/Kg** Analysis Date: **6/3/2013 08:35 AM**

Client ID: Run ID: **GC8_130603A** SeqNo: **2337976** Prep Date: **5/31/2013** 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	*0.9337*	0	*1.667*	0	*56*	*39-115*	0			

LCS Sample ID: **DLCSS1-48776-48776** Units: **mg/Kg** Analysis Date: **6/3/2013 09:05 AM**

Client ID: Run ID: **GC8_130603A** SeqNo: **2337977** Prep Date: **5/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	148.5	4.2	166.7	0	89.1	49-124	0			
Surr: 4-Terphenyl-d14	*0.738*	0	*1.667*	0	*44.3*	*39-115*	0			

MS Sample ID: **13051126-01B MS** Units: **mg/Kg** Analysis Date: **6/3/2013 09:35 AM**

Client ID: **Terminus** Run ID: **GC8_130603A** SeqNo: **2337978** Prep Date: **5/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	274.1	7.9	317.3	20.49	79.9	49-130	0			
Surr: 4-Terphenyl-d14	*1.368*	0	*3.173*	0	*43.1*	*39-115*	0			

MSD Sample ID: **13051126-01B MSD** Units: **mg/Kg** Analysis Date: **6/3/2013 10:05 AM**

Client ID: **Terminus** Run ID: **GC8_130603A** SeqNo: **2337979** Prep Date: **5/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	293.3	8.1	323.1	20.49	84.4	49-130	274.1	6.76	30	
Surr: 4-Terphenyl-d14	*1.446*	0	*3.231*	0	*44.8*	*39-115*	1.368	*5.53*	*30*	

The following samples were analyzed in this batch: 13051126-01B 13051126-02B

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **R121680** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: **GBLK1-130603-R121680** Units: **µg/L** Analysis Date: **6/3/2013 01:28 PM**
Client ID: Run ID: **GC10_130603A** SeqNo: **2338883** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	*108.4*	0	*100*	0	*108*	*70-130*	0			

LCS Sample ID: **GLCS1-130603-R121680** Units: **µg/L** Analysis Date: **6/3/2013 01:04 PM**
Client ID: Run ID: **GC10_130603A** SeqNo: **2338882** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8390	200	10000	0	83.9	70-130	0			
Surr: Toluene-d8	*112.3*	0	*100*	0	*112*	*70-130*	0			

MS Sample ID: **13051189-01A MS** Units: **µg/L** Analysis Date: **6/3/2013 08:53 PM**
Client ID: Run ID: **GC10_130603A** SeqNo: **2338887** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8752	200	10000	0	87.5	70-130	0			
Surr: Toluene-d8	*107*	0	*100*	0	*107*	*70-130*	0			

MSD Sample ID: **13051189-01A MSD** Units: **µg/L** Analysis Date: **6/3/2013 09:17 PM**
Client ID: Run ID: **GC10_130603A** SeqNo: **2338888** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8648	200	10000	0	86.5	70-130	8752	1.19	30	
Surr: Toluene-d8	*109.8*	0	*100*	0	*110*	*70-130*	107	*2.56*	*30*	

The following samples were analyzed in this batch: 13051126-01A, 13051126-02A

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48812** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-48812-48812** Units: **mg/Kg** Analysis Date: **6/3/2013 04:05 PM**
Client ID: Run ID: **HG1_130603A** SeqNo: **2338187** Prep Date: **6/3/2013** 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-48812-48812** Units: **mg/Kg** Analysis Date: **6/3/2013 04:07 PM**
Client ID: Run ID: **HG1_130603A** SeqNo: **2338188** Prep Date: **6/3/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1788	0.020	0.1665	0	107	80-120	0			

MS Sample ID: **13051126-02BMS** Units: **mg/Kg** Analysis Date: **6/3/2013 04:13 PM**
Client ID: **Mid Point** Run ID: **HG1_130603A** SeqNo: **2338191** Prep Date: **6/3/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1468	0.015	0.1243	0.01405	107	75-125	0			

MSD Sample ID: **13051126-02BMSD** Units: **mg/Kg** Analysis Date: **6/3/2013 04:15 PM**
Client ID: **Mid Point** Run ID: **HG1_130603A** SeqNo: **2338192** Prep Date: **6/3/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1476	0.015	0.1229	0.01405	109	75-125	0.1468	0.568	35	

The following samples were analyzed in this batch: 13051126-01B, 13051126-02B

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48758** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

DUP Sample ID: **13051126-05BDUP** Units: **mg/L** Analysis Date: **6/3/2013 04:51 PM**
Client ID: **BKGD3** Run ID: **ICPMS2_130603A** SeqNo: **2338255** Prep Date: **5/30/2013** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	116.7	10	0	0	0	0-0	111.3	4.67		
Magnesium	17.25	4.0	0	0	0	0-0	16.4	5.1		
Sodium	3.2	4.0	0	0	0	0-0	3.18	0		J

The following samples were analyzed in this batch:

13051126-01C	13051126-02C	13051126-05B

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48813** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK Sample ID: **MBLK-48813-48813** Units: **mg/Kg** Analysis Date: **6/4/2013 03:56 AM**
Client ID: Run ID: **ICPMS2_130603A** SeqNo: **2338773** Prep Date: **6/3/2013** 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								
Lead	0.003224	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS Sample ID: **LCS-48813-48813** Units: **mg/Kg** Analysis Date: **6/4/2013 04:01 AM**
Client ID: Run ID: **ICPMS2_130603A** SeqNo: **2338774** Prep Date: **6/3/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.598	0.25	5	0	92	80-120	0			
Barium	4.714	0.25	5	0	94.3	80-120	0			
Cadmium	4.658	0.10	5	0	93.2	80-120	0			
Chromium	4.675	0.25	5	0	93.5	80-120	0			
Lead	4.673	0.25	5	0	93.5	80-120	0			
Nickel	4.624	0.25	5	0	92.5	80-120	0			
Selenium	4.468	0.25	5	0	89.4	80-120	0			
Silver	4.822	0.25	5	0	96.4	80-120	0			
Zinc	4.505	0.50	5	0	90.1	80-120	0			

MS Sample ID: **13051126-04AMS** Units: **mg/Kg** Analysis Date: **6/4/2013 04:48 AM**
Client ID: **BKGD2** Run ID: **ICPMS2_130603A** SeqNo: **2338781** Prep Date: **6/3/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.21	1.7	6.993	4.351	83.8	75-125	0			
Barium	275	1.7	6.993	236.1	557	75-125	0			SO
Cadmium	7.059	0.70	6.993	0.4011	95.2	75-125	0			
Chromium	26.24	1.7	6.993	18.49	111	75-125	0			
Lead	18.4	1.7	6.993	11.84	93.8	75-125	0			
Nickel	30.27	1.7	6.993	22.25	115	75-125	0			
Selenium	6.598	1.7	6.993	0.6199	85.5	75-125	0			
Silver	6.189	1.7	6.993	0.04599	87.8	75-125	0			
Zinc	56.68	3.5	6.993	47.02	138	75-125	0			SO

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48813** Instrument ID **ICPMS2** Method: **SW6020A**

MSD Sample ID: **13051126-04AMSD** Units: **mg/Kg** Analysis Date: **6/4/2013 04:53 AM**
Client ID: **BKGD2** Run ID: **ICPMS2_130603A** SeqNo: **2338782** Prep Date: **6/3/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.67	1.8	7.133	4.351	103	75-125	10.21	13.4	25	
Barium	294.1	1.8	7.133	236.1	813	75-125	275	6.69	25	SO
Cadmium	7.518	0.71	7.133	0.4011	99.8	75-125	7.059	6.29	25	
Chromium	28.55	1.8	7.133	18.49	141	75-125	26.24	8.45	25	S
Lead	19.93	1.8	7.133	11.84	113	75-125	18.4	7.97	25	
Nickel	34.19	1.8	7.133	22.25	167	75-125	30.27	12.2	25	S
Selenium	6.89	1.8	7.133	0.6199	87.9	75-125	6.598	4.33	25	
Silver	6.562	1.8	7.133	0.04599	91.4	75-125	6.189	5.85	25	
Zinc	62.16	3.6	7.133	47.02	212	75-125	56.68	9.23	25	SO

The following samples were analyzed in this batch:

13051126-01B	13051126-02B	13051126-03A
13051126-04A		

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48872** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-48872-48872** Units: **mg/Kg** Analysis Date: **6/5/2013 03:04 PM**
Client ID: Run ID: **ICPMS1_130605A** SeqNo: **2340411** Prep Date: **6/5/2013** 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-48872-48872** Units: **mg/Kg** Analysis Date: **6/5/2013 03:10 PM**
Client ID: Run ID: **ICPMS1_130605A** SeqNo: **2340414** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.489	0.25	5	0	89.8	80-120	0			

MS Sample ID: **1306106-04BMS** Units: **mg/Kg** Analysis Date: **6/5/2013 05:19 PM**
Client ID: Run ID: **ICPMS1_130605A** SeqNo: **2340658** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.1	0.36	7.123	3.638	90.7	75-125	0			

MSD Sample ID: **1306106-04BMSD** Units: **mg/Kg** Analysis Date: **6/5/2013 05:25 PM**
Client ID: Run ID: **ICPMS1_130605A** SeqNo: **2340659** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.23	0.36	7.278	3.638	104	75-125	10.1	10.6	25	

The following samples were analyzed in this batch: 13051126-05A

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48775** Instrument ID **SVMS4** Method: **SW8270**

MBLK Sample ID: **SBLKS1-48775-48775** Units: **µg/Kg** Analysis Date: **6/3/2013 11:22 AM**
Client ID: Run ID: **SVMS4_130603A** SeqNo: **2337860** Prep Date: **5/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	*1273*	0	*1667*	0	*76.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1819*	0	*1667*	0	*109*	*25-137*	0			
Surr: Nitrobenzene-d5	*1243*	0	*1667*	0	*74.6*	*37-107*	0			

LCS Sample ID: **SLCSS1-48775-48775** Units: **µg/Kg** Analysis Date: **6/3/2013 10:45 AM**
Client ID: Run ID: **SVMS4_130603A** SeqNo: **2337859** Prep Date: **5/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	552.7	30	666.7	0	82.9	45-110	0			
Acenaphthylene	552.3	30	666.7	0	82.8	45-105	0			
Anthracene	561.7	30	666.7	0	84.2	55-105	0			
Benzo(a)anthracene	601.7	30	666.7	0	90.2	50-110	0			
Benzo(a)pyrene	630.7	30	666.7	0	94.6	50-110	0			
Benzo(b)fluoranthene	599.7	30	666.7	0	89.9	45-115	0			
Benzo(g,h,i)perylene	585	30	666.7	0	87.7	40-125	0			
Benzo(k)fluoranthene	701.7	30	666.7	0	105	45-115	0			
Chrysene	676.7	30	666.7	0	101	55-110	0			
Dibenzo(a,h)anthracene	566.3	30	666.7	0	84.9	40-125	0			
Fluoranthene	589.3	30	666.7	0	88.4	55-115	0			
Fluorene	546.7	30	666.7	0	82	50-110	0			
Indeno(1,2,3-cd)pyrene	581.7	30	666.7	0	87.2	40-120	0			
Naphthalene	526.3	30	666.7	0	78.9	40-105	0			
Pyrene	639	30	666.7	0	95.8	45-125	0			
Surr: 2-Fluorobiphenyl	*1253*	0	*1667*	0	*75.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1859*	0	*1667*	0	*112*	*25-137*	0			
Surr: Nitrobenzene-d5	*1248*	0	*1667*	0	*74.9*	*37-107*	0			

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48775** Instrument ID **SVMS4** Method: **SW8270**

MS Sample ID: **13051157-04B MS** Units: **µg/Kg** Analysis Date: **6/3/2013 05:24 PM**
Client ID: Run ID: **SVMS4_130603A** SeqNo: **2338769** Prep Date: **5/31/2013** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1361	1,200	1309	0	104	45-110	0			
Acenaphthylene	1466	1,200	1309	0	112	45-105	0			S
Anthracene	1400	1,200	1309	1530	-9.91	55-105	0			S
Benzo(a)anthracene	1413	1,200	1309	0	108	50-110	0			
Benzo(a)pyrene	1427	1,200	1309	0	109	50-110	0			
Benzo(b)fluoranthene	1466	1,200	1309	0	112	45-115	0			
Benzo(g,h,i)perylene	1021	1,200	1309	0	78	40-125	0			J
Benzo(k)fluoranthene	1492	1,200	1309	0	114	45-115	0			
Chrysene	1413	1,200	1309	0	108	55-110	0			
Dibenzo(a,h)anthracene	955.4	1,200	1309	0	73	40-125	0			J
Fluoranthene	1413	1,200	1309	0	108	55-115	0			
Fluorene	1871	1,200	1309	602.7	96.9	50-110	0			
Indeno(1,2,3-cd)pyrene	968.5	1,200	1309	0	74	40-120	0			J
Naphthalene	1126	1,200	1309	0	86	40-105	0			J
Pyrene	1427	1,200	1309	0	109	45-125	0			
Surr: 2-Fluorobiphenyl	*2631*	0	*3272*	0	*80.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3520*	0	*3272*	0	*108*	*25-137*	0			
Surr: Nitrobenzene-d5	*2421*	0	*3272*	0	*74*	*37-107*	0			

MSD Sample ID: **13051157-04B MSD** Units: **µg/Kg** Analysis Date: **6/3/2013 05:56 PM**
Client ID: Run ID: **SVMS4_130603A** SeqNo: **2338770** Prep Date: **5/31/2013** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1244	1,200	1283	0	97	45-110	1361	8.96	30	
Acenaphthylene	1450	1,200	1283	0	113	45-105	1466	1.11	30	S
Anthracene	1296	1,200	1283	1530	-18.3	55-105	1400	7.76	30	S
Benzo(a)anthracene	1257	1,200	1283	0	98	50-110	1413	11.7	30	
Benzo(a)pyrene	1155	1,200	1283	0	90	50-110	1427	0	30	J
Benzo(b)fluoranthene	1475	1,200	1283	0	115	45-115	1466	0.648	30	
Benzo(g,h,i)perylene	1013	1,200	1283	0	79	40-125	1021	0	30	J
Benzo(k)fluoranthene	1450	1,200	1283	0	113	45-115	1492	2.88	30	
Chrysene	1360	1,200	1283	0	106	55-110	1413	3.86	30	
Dibenzo(a,h)anthracene	949.3	1,200	1283	0	74	40-125	955.4	0	30	J
Fluoranthene	1334	1,200	1283	0	104	55-115	1413	5.77	30	
Fluorene	1732	1,200	1283	602.7	88	50-110	1871	7.75	30	
Indeno(1,2,3-cd)pyrene	962.2	1,200	1283	0	75	40-120	968.5	0	30	J
Naphthalene	1103	1,200	1283	0	86	40-105	1126	0	30	J
Pyrene	1475	1,200	1283	0	115	45-125	1427	3.36	30	
Surr: 2-Fluorobiphenyl	*2489*	0	*3207*	0	*77.6*	*12-100*	2631	*5.54*	*40*	
Surr: 4-Terphenyl-d14	*3335*	0	*3207*	0	*104*	*25-137*	3520	*5.4*	*40*	
Surr: Nitrobenzene-d5	*2335*	0	*3207*	0	*72.8*	*37-107*	2421	*3.63*	*40*	

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48775** Instrument ID **SVMS4** Method: **SW8270**

The following samples were analyzed in this batch:

13051126-01B	13051126-02B

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48749** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-48749-48749** Units: **µg/Kg** Analysis Date: **5/30/2013 02:04 PM**
Client ID: Run ID: **VMS8_130530A** SeqNo: **2336176** Prep Date: **5/30/2013** 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	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*982.5*	0	*1000*	0	*98.2*	*70-130*	0			
Surr: Dibromofluoromethane	*983.5*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: Toluene-d8	*979*	0	*1000*	0	*97.9*	*70-130*	0			

LCS Sample ID: **LCS1-48749-48749** Units: **µg/Kg** Analysis Date: **5/30/2013 12:29 PM**
Client ID: Run ID: **VMS8_130530A** SeqNo: **2336175** Prep Date: **5/30/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	995	30	1000	0	99.5	75-125	0			
Ethylbenzene	1004	30	1000	0	100	75-125	0			
m,p-Xylene	1976	60	2000	0	98.8	80-125	0			
o-Xylene	992	30	1000	0	99.2	75-125	0			
Toluene	946	30	1000	0	94.6	70-125	0			
Xylenes, Total	2968	90	3000	0	98.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	*994.5*	0	*1000*	0	*99.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*989*	0	*1000*	0	*98.9*	*70-130*	0			
Surr: Dibromofluoromethane	*1013*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*993*	0	*1000*	0	*99.3*	*70-130*	0			

MS Sample ID: **13051125-04A MS** Units: **µg/Kg** Analysis Date: **5/30/2013 09:38 PM**
Client ID: Run ID: **VMS8_130530A** SeqNo: **2336180** Prep Date: **5/30/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1014	30	1000	0	101	75-125	0			
Ethylbenzene	986	30	1000	0	98.6	75-125	0			
m,p-Xylene	1994	60	2000	0	99.7	80-125	0			
o-Xylene	999.5	30	1000	0	100	75-125	0			
Toluene	921.5	30	1000	0	92.2	70-125	0			
Xylenes, Total	2994	90	3000	0	99.8	75-125	0			
Surr: 1,2-Dichloroethane-d4	*950.5*	0	*1000*	0	*95*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1000*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*967.5*	0	*1000*	0	*96.8*	*70-130*	0			
Surr: Toluene-d8	*937*	0	*1000*	0	*93.7*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48749** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: **13051125-04A MSD** Units: **µg/Kg** Analysis Date: **5/30/2013 10:02 PM**
Client ID: Run ID: **VMS8_130530A** SeqNo: **2336181** Prep Date: **5/30/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	997	30	1000	0	99.7	75-125	1014	1.64	30	
Ethylbenzene	1004	30	1000	0	100	75-125	986	1.81	30	
m,p-Xylene	2035	60	2000	0	102	80-125	1994	2.01	30	
o-Xylene	1023	30	1000	0	102	75-125	999.5	2.32	30	
Toluene	948.5	30	1000	0	94.8	70-125	921.5	2.89	30	
Xylenes, Total	3058	90	3000	0	102	75-125	2994	2.12	30	
Surr: 1,2-Dichloroethane-d4	*944*	0	*1000*	0	*94.4*	*70-130*	950.5	*0.686*	*30*	
Surr: 4-Bromofluorobenzene	*1042*	0	*1000*	0	*104*	*70-130*	1000	*4.11*	*30*	
Surr: Dibromofluoromethane	*971.5*	0	*1000*	0	*97.2*	*70-130*	967.5	*0.413*	*30*	
Surr: Toluene-d8	*960.5*	0	*1000*	0	*96*	*70-130*	937	*2.48*	*30*	

The following samples were analyzed in this batch: 13051126-01A 13051126-02A

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48758** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **13051126-05B DUP** Units: **mmhos/cm @25°F** Analysis Date: **6/3/2013 01:50 PM**
Client ID: **BKGD3** Run ID: **WETCHEM_130603G** SeqNo: **2338026** Prep Date: **5/30/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.764	0.050	0	0	0		0.731	4.41	50	

The following samples were analyzed in this batch:

13051126-01C	13051126-02C	13051126-05B

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **48760** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-48760-48760** Units: **mg/Kg** Analysis Date: **5/31/2013 01:00 PM**
Client ID: Run ID: **WETCHEM_130531G** SeqNo: **2336801** Prep Date: **5/30/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.49								

LCS Sample ID: **LCS-48760-48760** Units: **mg/Kg** Analysis Date: **5/31/2013 01:00 PM**
Client ID: Run ID: **WETCHEM_130531G** SeqNo: **2336800** Prep Date: **5/30/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.817	0.50	1.992	0	91.2	75-110	0			

MS Sample ID: **13051146-01B MS** Units: **mg/Kg** Analysis Date: **5/31/2013 01:00 PM**
Client ID: Run ID: **WETCHEM_130531G** SeqNo: **2336794** Prep Date: **5/30/2013** 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	60-130	0			S

MSD Sample ID: **13051146-01B MSD** Units: **mg/Kg** Analysis Date: **5/31/2013 01:00 PM**
Client ID: Run ID: **WETCHEM_130531G** SeqNo: **2336795** Prep Date: **5/30/2013** 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	60-130	0	0	30	S

The following samples were analyzed in this batch: 13051126-01B, 13051126-02B

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **R121509** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **WLCSS1-130530-R121509** Units: **s.u.** Analysis Date: **5/30/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130530G** SeqNo: **2335870** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.43	0	4.4	0	101	90-110	0			

LCS Sample ID: **WLCSW1-130530-R121509** Units: **s.u.** Analysis Date: **5/30/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130530G** SeqNo: **2335875** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.43	0	4.4	0	101	90-110	0			

LCS Sample ID: **WLCSW1-130530-R121509** Units: **s.u.** Analysis Date: **5/30/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130530G** SeqNo: **2335896** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.43	0	4.4	0	101	90-110	0			

DUP Sample ID: **13051126-01B DUP** Units: **s.u.** Analysis Date: **5/30/2013 12:00 PM**
Client ID: **Terminus** Run ID: **WETCHEM_130530G** SeqNo: **2335872** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.17	0	0	0	0	0-0	9.17	0	20	

DUP Sample ID: **13051152-01A DUP** Units: **s.u.** Analysis Date: **5/30/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130530G** SeqNo: **2335877** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.78	0	0	0	0	0-0	5.78	0	20	

DUP Sample ID: **13051130-02A DUP** Units: **s.u.** Analysis Date: **5/30/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130530G** SeqNo: **2335899** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.58	0	0	0	0	0-0	8.58	0	20	H

The following samples were analyzed in this batch:

13051126-01B	13051126-02B	13051126-05A

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

Client: HRL Compliance Solutions
Work Order: 13051126
Project: WPX SP 32-14 Confirmation 5/28/13

QC BATCH REPORT

Batch ID: **R121549** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R121549** Units: **% of sample** Analysis Date: **5/30/2013 09:51 AM**
Client ID: Run ID: **MOIST_130530A** SeqNo: **2336309** 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-R121549** Units: **% of sample** Analysis Date: **5/30/2013 09:51 AM**
Client ID: Run ID: **MOIST_130530A** SeqNo: **2336308** 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: **13051099-01A DUP** Units: **% of sample** Analysis Date: **5/30/2013 09:51 AM**
Client ID: Run ID: **MOIST_130530A** SeqNo: **2336289** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.68	0.050	0	0	0	0-0	11.15	4.31	20	

DUP Sample ID: **13051125-03B DUP** Units: **% of sample** Analysis Date: **5/30/2013 09:51 AM**
Client ID: Run ID: **MOIST_130530A** SeqNo: **2336294** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.14	0.050	0	0	0	0-0	10.6	4.97	20	

The following samples were analyzed in this batch:

13051126-01B	13051126-02B	13051126-03A
13051126-04A	13051126-05A	

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

ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER # 1305112G

PAGE 1 of 1

PROJECT NAME	SP 32-14 confirmation Sampling	SAMPLER	Ryan Wold
PROJECT No.		SITE ID	SP 32-14
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HRL Compliance Solutions Inc	BILL TO COMPANY	WPX Energy
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney; Leo Braun
ADDRESS	2385 F1/2 Rd	ADDRESS	1058 Co Rd 215
CITY / STATE / ZIP	Grand Junction, CO 81505	CITY / STATE / ZIP	Parachure CO 81635
PHONE	970 243 3271	PHONE	970-683-2295
FAX		FAX	
E-MAIL	Mmumby@HRLcomp.com RWold@HRLcomp.com	E-MAIL	Karolina.blaney@wpxenergy.com

DATE 5/28/13

TURNAROUND 5 day

DISPOSAL By Lab or Return to Client

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX / GRO	DRO / PAH / Metals	SAR / EC / pH	Arsenic
1	Terminus	SO	5/28/13	2:45	3	8		X	X	X	
2	Mid Point	"	"	2:55	3	"		X	X	X	
3	BKGD1	"	"	3:00	1	"					X
4	BKGD2	"	"	3:05	1	"					X
5	BKGD3	"	"	3:10	2	"			-	X	X

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

For metals or anions, please detail analytes below.

Comments: 5.8 c

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

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Ryan Wold	Ryan Wold	5/28/13	5:00
RECEIVED BY			5-28	5:00
RELINQUISHED BY			5-28	5:10
RECEIVED BY		Diane F Shaw	5/30/13	0830
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **30-May-13 08:30**

Work Order: **13051126** Received by: **DS**

Checklist completed by Diane Shaw 30-May-13 Reviewed by: Ann Preston 02-Jun-13

eSignature | Date | eSignature | Date

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	5.8 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/30/2013 10:22:49 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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

Origin ID: RILA

FedEx Express

J13111302120326

Ship Date: 28MAY13
ActWgt 55.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-052813-2
Invoice #
PO #
Dept #

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

HOLLAND, MI 49424

1 of 2

TRK# 0201 7998 6441 8560

WED - 29 MAY 3:00P
STANDARD OVERNIGHT

MASTER

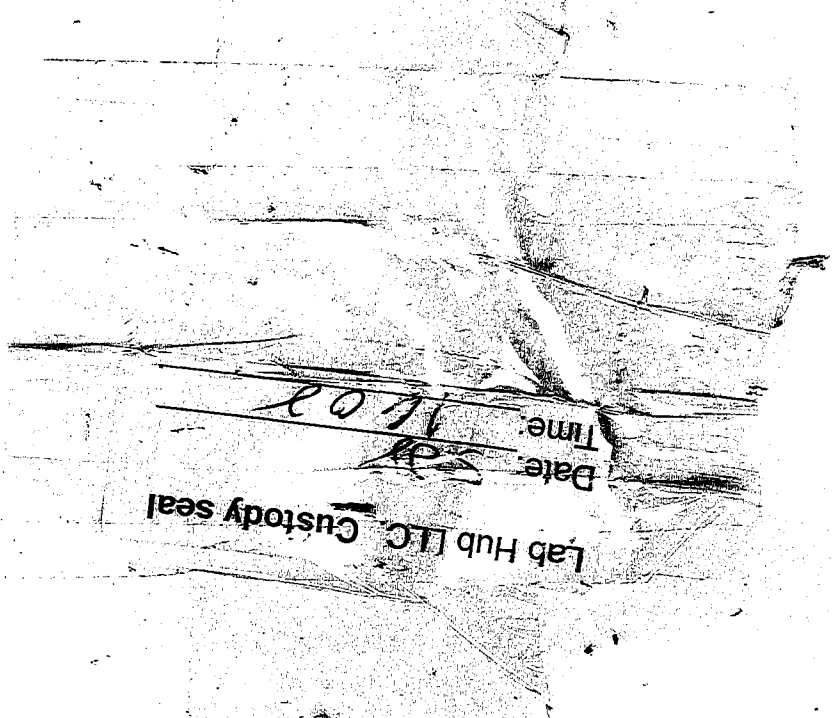
XX GRRA

49424
MI-US
GRR

518G1/D777/83AB

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

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



13-Jun-2013

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

Re: **WPX SP 32-14 Confirmation 6/3/13** Work Order: **1306063**

Dear Mark,

ALS Environmental received 1 sample on 04-Jun-2013 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 25.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Group An ALS Limited Company

ALS Group USA, Corp

Date: 13-Jun-13

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 6/3/13
Work Order: **1306063**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1306063-01	Point of Origin	Soil		6/3/2013 14:30	6/4/2013 09:30	☐

ALS Group USA, Corp

Date: 13-Jun-13

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 6/3/13
Work Order: 1306063

Case Narrative

Batch 48849 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Batch 48899 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 13-Jun-13

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 6/3/13
WorkOrder: **1306063**

QUALIFIERS, ACRONYMS, UNITS

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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mmhos/cm @25°F	Microhms-Centimeter at 25 Degrees Fahrenheit
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: *13-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 6/3/13 **Work Order:** 1306063
Sample ID: Point of Origin **Lab ID:** 1306063-01
Collection Date: 6/3/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **6/5/2013**	Analyst: **CW**
DRO (C10-C28)	**11**		**4.9**	**mg/Kg-dry**	1	6/6/2013 12:27 PM
Surr: 4-Terphenyl-d14	*60.1*		*39-115*	*%REC*	1	6/6/2013 12:27 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/5/2013 11:36 AM
Surr: Toluene-d8	*104*		*50-150*	*%REC*	50	6/5/2013 11:36 AM
MERCURY BY CVAA			**SW7471**		Prep Date: **6/5/2013**	Analyst: **LR**
Mercury	ND		0.018	mg/Kg-dry	1	6/6/2013 03:47 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **6/6/2013**	Analyst: **ML**
Arsenic	**5.0**		**2.2**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
Barium	**260**		**2.2**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
Cadmium	ND		0.87	mg/Kg-dry	5	6/6/2013 11:26 PM
Chromium	**21**		**2.2**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
Copper	**15**		**2.2**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
Lead	**9.2**		**2.2**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
Nickel	**35**		**2.2**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
Selenium	ND		2.2	mg/Kg-dry	5	6/6/2013 11:26 PM
Silver	ND		2.2	mg/Kg-dry	5	6/6/2013 11:26 PM
Zinc	**38**		**4.3**	**mg/Kg-dry**	5	6/6/2013 11:26 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **6/4/2013**	Analyst: **ML**
Calcium	**170**		**12**	**mg/L-dry**	20	6/7/2013 04:49 PM
Magnesium	**24**		**4.8**	**mg/L-dry**	20	6/7/2013 04:49 PM
Sodium	**960**		**4.8**	**mg/L-dry**	20	6/7/2013 04:49 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **6/4/2013**	Analyst: **ML**
Sodium Adsorption Ratio	**17**		**0.010**	**none**	1	6/10/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **6/5/2013**	Analyst: **HL**
Acenaphthene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	6/6/2013 04:38 PM
Anthracene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	6/6/2013 04:38 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	6/6/2013 04:38 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	6/6/2013 04:38 PM
Benzo(g,h,i)perylene	ND		33	µg/Kg-dry	1	6/6/2013 04:38 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	6/6/2013 04:38 PM
Chrysene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	6/6/2013 04:38 PM
Fluoranthene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM

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

ALS Group USA, Corp

Date: *13-Jun-13*

Client: HRL Compliance Solutions
Project: WPX SP 32-14 Confirmation 6/3/13 **Work Order:** 1306063
Sample ID: Point of Origin **Lab ID:** 1306063-01
Collection Date: 6/3/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	6/6/2013 04:38 PM
Naphthalene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM
Pyrene	ND		17	µg/Kg-dry	1	6/6/2013 04:38 PM
Surr: 2-Fluorobiphenyl	*69.9*		*12-100*	*%REC*	1	6/6/2013 04:38 PM
Surr: 4-Terphenyl-d14	*119*		*25-137*	*%REC*	1	6/6/2013 04:38 PM
Surr: Nitrobenzene-d5	*61.8*		*37-107*	*%REC*	1	6/6/2013 04:38 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **6/4/2013**	Analyst: **RS**
Benzene	ND		36	µg/Kg-dry	1	6/5/2013 06:09 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	6/5/2013 06:09 AM
m,p-Xylene	ND		72	µg/Kg-dry	1	6/5/2013 06:09 AM
o-Xylene	ND		36	µg/Kg-dry	1	6/5/2013 06:09 AM
Toluene	ND		36	µg/Kg-dry	1	6/5/2013 06:09 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/5/2013 06:09 AM
Surr: 1,2-Dichloroethane-d4	*106*		*70-130*	*%REC*	1	6/5/2013 06:09 AM
Surr: 4-Bromofluorobenzene	*99.6*		*70-130*	*%REC*	1	6/5/2013 06:09 AM
Surr: Dibromofluoromethane	*104*		*70-130*	*%REC*	1	6/5/2013 06:09 AM
Surr: Toluene-d8	*98.0*		*70-130*	*%REC*	1	6/5/2013 06:09 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **6/4/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**1.4**		**0.050**	**mmhos/cm @25**	10	6/7/2013 04:00 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**21**		**0.60**	**mg/Kg-dry**	1	6/10/2013 04:01 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **6/6/2013**	Analyst: **MB**
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	6/10/2013 12:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**16**		**0.050**	**% of sample**	1	6/4/2013 01:47 PM
PH			**SW9045D**			Analyst: **BD**
pH	**9.3**			**s.u.**	1	6/4/2013 03:35 PM

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

ALS Group USA, Corp

Date: 13-Jun-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1306063

Project: WPX SP 32-14 Confirmation 6/3/13

Batch ID: **48866** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-48866-48866** Units: **mg/Kg** Analysis Date: **6/5/2013 03:26 PM**

Client ID: Run ID: **GC8_130605A** SeqNo: **2341615** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	*1.252*	0	*2*	0	*62.6*	*39-115*	0			

LCS Sample ID: **DLCSS1-48866-48866** Units: **mg/Kg** Analysis Date: **6/5/2013 03:56 PM**

Client ID: Run ID: **GC8_130605A** SeqNo: **2341616** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	191.8	5.0	200	0	95.9	49-124	0			
Surr: 4-Terphenyl-d14	*0.8156*	0	*2*	0	*40.8*	*39-115*	0			

MS Sample ID: **1306106-04B MS** Units: **mg/Kg** Analysis Date: **6/5/2013 04:27 PM**

Client ID: Run ID: **GC8_130605A** SeqNo: **2341617** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	322.8	8.2	329.7	28.3	89.3	49-130	0			
Surr: 4-Terphenyl-d14	*1.594*	0	*3.297*	0	*48.4*	*39-115*	0			

MSD Sample ID: **1306106-04B MSD** Units: **mg/Kg** Analysis Date: **6/5/2013 04:57 PM**

Client ID: Run ID: **GC8_130605A** SeqNo: **2341618** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	326.9	8.2	328.9	28.3	90.8	49-130	322.8	1.26	30	
Surr: 4-Terphenyl-d14	*1.557*	0	*3.289*	0	*47.4*	*39-115*	1.594	*2.35*	*30*	

The following samples were analyzed in this batch: 1306063-01B

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **R121770** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: **GBLK2-130604-R121770** Units: **µg/L** Analysis Date: **6/5/2013 03:58 AM**
Client ID: Run ID: **GC10_130604B** SeqNo: **2340503** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	*109.2*	0	*100*	0	*109*	*70-130*	0			

LCS Sample ID: **GLCS2-130604-R121770** Units: **µg/L** Analysis Date: **6/5/2013 03:34 AM**
Client ID: Run ID: **GC10_130604B** SeqNo: **2340502** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8316	200	10000	0	83.2	70-130	0			
Surr: Toluene-d8	*115.1*	0	*100*	0	*115*	*70-130*	0			

MS Sample ID: **1306070-06A MS** Units: **µg/L** Analysis Date: **6/5/2013 12:49 PM**
Client ID: Run ID: **GC10_130604B** SeqNo: **2340514** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8081	200	10000	0	80.8	70-130	0			
Surr: Toluene-d8	*111.8*	0	*100*	0	*112*	*70-130*	0			

MSD Sample ID: **1306070-06A MSD** Units: **µg/L** Analysis Date: **6/5/2013 01:24 PM**
Client ID: Run ID: **GC10_130604B** SeqNo: **2340515** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8162	200	10000	0	81.6	70-130	8081	0.999	30	
Surr: Toluene-d8	*114.1*	0	*100*	0	*114*	*70-130*	111.8	*2*	*30*	

The following samples were analyzed in this batch: 1306063-01A

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48877** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-48877-48877** Units: **mg/Kg** Analysis Date: **6/6/2013 03:04 PM**
Client ID: Run ID: **HG1_130606A** SeqNo: **2341890** Prep Date: **6/5/2013** 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-48877-48877** Units: **mg/Kg** Analysis Date: **6/6/2013 03:06 PM**
Client ID: Run ID: **HG1_130606A** SeqNo: **2341892** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1742	0.020	0.1665	0	105	80-120	0			

MS Sample ID: **1306134-01BMS** Units: **mg/Kg** Analysis Date: **6/6/2013 03:55 PM**
Client ID: Run ID: **HG1_130606A** SeqNo: **2342121** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1378	0.015	0.1217	0.01277	103	75-125	0			

MSD Sample ID: **1306134-01BMSD** Units: **mg/Kg** Analysis Date: **6/6/2013 03:57 PM**
Client ID: Run ID: **HG1_130606A** SeqNo: **2342122** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1378	0.014	0.1146	0.01277	109	75-125	0.1378	0.0202	35	

The following samples were analyzed in this batch: 1306063-01B

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48852** Instrument ID **ICPMS1** Method: **SW6020A** **(Dissolve)**

DUP Sample ID: **1306060-04ADUP** Units: **mg/L** Analysis Date: **6/7/2013 04:43 PM**
Client ID: Run ID: **ICPMS1_130607A** SeqNo: **2343339** Prep Date: **6/4/2013** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	1795	10	0	0	0	0-0	1689	6.09		
Magnesium	669.4	4.0	0	0	0	0-0	618.2	7.95		
Sodium	1936	4.0	0	0	0	0-0	1795	7.53		

DUP Sample ID: **1306060-04ADUP** Units: **none** Analysis Date: **6/10/2013**
Client ID: Run ID: **SAR_130610A** SeqNo: **2344608** Prep Date: **6/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	9.9	0.010	0	0	0		9.499	4.13	50	

The following samples were analyzed in this batch: 1306063-01C

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48899** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-48899-48899** Units: **mg/Kg** Analysis Date: **6/6/2013 10:50 PM**
Client ID: Run ID: **ICPMS1_130606A** SeqNo: **2342493** Prep Date: **6/6/2013** 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	0.05425	0.25								J
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.04384	0.50								J

LCS Sample ID: **LCS-48899-48899** Units: **mg/Kg** Analysis Date: **6/6/2013 10:56 PM**
Client ID: Run ID: **ICPMS1_130606A** SeqNo: **2342495** Prep Date: **6/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.228	0.25	5	0	84.6	80-120	0			
Barium	4.772	0.25	5	0	95.4	80-120	0			
Cadmium	4.63	0.10	5	0	92.6	80-120	0			
Chromium	4.468	0.25	5	0	89.4	80-120	0			
Copper	4.476	0.25	5	0	89.5	80-120	0			
Lead	4.976	0.25	5	0	99.5	80-120	0			
Nickel	5.26	0.25	5	0	105	80-120	0			
Selenium	4.042	0.25	5	0	80.8	80-120	0			
Silver	4.964	0.25	5	0	99.3	80-120	0			
Zinc	4.346	0.50	5	0	86.9	80-120	0			

MS Sample ID: **1306164-03AMS** Units: **mg/Kg** Analysis Date: **6/7/2013 01:24 AM**
Client ID: Run ID: **ICPMS1_130606A** SeqNo: **2342527** Prep Date: **6/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.897	0.36	7.225	1.985	81.8	75-125	0			
Barium	21.46	0.36	7.225	13.23	114	75-125	0			
Cadmium	6.422	0.14	7.225	0.03603	88.4	75-125	0			
Lead	10.91	0.36	7.225	3.523	102	75-125	0			
Selenium	5.685	0.36	7.225	0.2415	75.3	75-125	0			
Silver	6.228	0.36	7.225	0.00507	86.1	75-125	0			
Zinc	15.85	0.72	7.225	10.21	78.2	75-125	0			

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48899** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: **1306164-03AMS** Units: **mg/Kg** Analysis Date: **6/7/2013 03:49 PM**
Client ID: Run ID: **ICPMS1_130607A** SeqNo: **2343330** Prep Date: **6/6/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	12.77	0.72	7.225	6.743	83.4	75-125	0			
Copper	9.994	0.72	7.225	3.811	85.6	75-125	0			
Lead	11.18	0.72	7.225	3.518	106	75-125	0			
Selenium	6.292	0.72	7.225	0.1682	84.8	75-125	0			
Silver	6.779	0.72	7.225	-0.0002513	93.8	75-125	0			

MSD Sample ID: **1306164-03AMSD** Units: **mg/Kg** Analysis Date: **6/7/2013 01:30 AM**
Client ID: Run ID: **ICPMS1_130606A** SeqNo: **2342528** Prep Date: **6/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.681	0.37	7.407	1.985	76.9	75-125	7.897	2.77	25	
Barium	21.61	0.37	7.407	13.23	113	75-125	21.46	0.687	25	
Cadmium	6.522	0.15	7.407	0.03603	87.6	75-125	6.422	1.55	25	
Lead	10.98	0.37	7.407	3.523	101	75-125	10.91	0.616	25	
Selenium	5.591	0.37	7.407	0.2415	72.2	75-125	5.685	1.66	25	S
Silver	6.339	0.37	7.407	0.00507	85.5	75-125	6.228	1.77	25	
Zinc	15.57	0.74	7.407	10.21	72.4	75-125	15.85	1.8	25	S

MSD Sample ID: **1306164-03AMSD** Units: **mg/Kg** Analysis Date: **6/7/2013 03:55 PM**
Client ID: Run ID: **ICPMS1_130607A** SeqNo: **2343331** Prep Date: **6/6/2013** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	11.98	0.74	7.407	6.743	70.7	75-125	12.77	6.37	25	S
Copper	9.784	0.74	7.407	3.811	80.6	75-125	9.994	2.13	25	
Lead	10.84	0.74	7.407	3.518	98.9	75-125	11.18	3.08	25	
Selenium	6.311	0.74	7.407	0.1682	82.9	75-125	6.292	0.305	25	
Silver	6.687	0.74	7.407	-0.0002513	90.3	75-125	6.779	1.36	25	

The following samples were analyzed in this batch: 1306063-01B

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48865** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-48865-48865** Units: **µg/Kg** Analysis Date: **6/6/2013 09:24 AM**
Client ID: Run ID: **SVMS6_130606A** SeqNo: **2341416** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	*1272*	0	*1667*	0	*76.3*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1949*	0	*1667*	0	*117*	*25-137*	0			
Surr: Nitrobenzene-d5	*1371*	0	*1667*	0	*82.2*	*37-107*	0			

LCS Sample ID: **SLCSS1-48865-48865** Units: **µg/Kg** Analysis Date: **6/6/2013 09:05 AM**
Client ID: Run ID: **SVMS6_130606A** SeqNo: **2341415** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	491.7	30	666.7	0	73.7	45-110	0			
Acenaphthylene	504.3	30	666.7	0	75.6	45-105	0			
Anthracene	545.7	30	666.7	0	81.8	55-105	0			
Benzo(a)anthracene	535.7	30	666.7	0	80.3	50-110	0			
Benzo(a)pyrene	534.3	30	666.7	0	80.1	50-110	0			
Benzo(b)fluoranthene	561.7	30	666.7	0	84.2	45-115	0			
Benzo(g,h,i)perylene	489.3	30	666.7	0	73.4	40-125	0			
Benzo(k)fluoranthene	546.3	30	666.7	0	81.9	45-115	0			
Chrysene	562.7	30	666.7	0	84.4	55-110	0			
Dibenzo(a,h)anthracene	495	30	666.7	0	74.2	40-125	0			
Fluoranthene	613	30	666.7	0	91.9	55-115	0			
Fluorene	510.7	30	666.7	0	76.6	50-110	0			
Indeno(1,2,3-cd)pyrene	480	30	666.7	0	72	40-120	0			
Naphthalene	480	30	666.7	0	72	40-105	0			
Pyrene	594.3	30	666.7	0	89.1	45-125	0			
Surr: 2-Fluorobiphenyl	*1264*	0	*1667*	0	*75.8*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1849*	0	*1667*	0	*111*	*25-137*	0			
Surr: Nitrobenzene-d5	*1387*	0	*1667*	0	*83.2*	*37-107*	0			

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48865** Instrument ID **SVMS6** Method: **SW8270**

MS Sample ID: **1306106-04B MS** Units: **µg/Kg** Analysis Date: **6/6/2013 11:10 AM**
Client ID: Run ID: **SVMS6_130606A** SeqNo: **2341848** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	902	57	1265	4.623	70.9	45-110	0			
Acenaphthylene	963.3	57	1265	32.69	73.6	45-105	0			
Anthracene	1037	57	1265	25.1	80	55-105	0			
Benzo(a)anthracene	1128	57	1265	142	77.9	50-110	0			
Benzo(a)pyrene	1145	57	1265	182.6	76.1	50-110	0			
Benzo(b)fluoranthene	1250	57	1265	275.1	77.1	45-115	0			
Benzo(g,h,i)perylene	1035	57	1265	174.3	68	40-125	0			
Benzo(k)fluoranthene	1133	57	1265	104.3	81.3	45-115	0			
Chrysene	1176	57	1265	157.2	80.5	55-110	0			
Dibenzo(a,h)anthracene	951.9	57	1265	64.39	70.2	40-125	0			
Fluoranthene	1218	57	1265	185.2	81.7	55-115	0			
Fluorene	934.2	57	1265	6.934	73.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1071	57	1265	200.4	68.8	40-120	0			
Naphthalene	884.3	57	1265	53.82	65.6	40-105	0			
Pyrene	1356	57	1265	235.1	88.6	45-125	0			
Surr: 2-Fluorobiphenyl	*2213*	0	*3163*	0	*70*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3624*	0	*3163*	0	*115*	*25-137*	0			
Surr: Nitrobenzene-d5	*2454*	0	*3163*	0	*77.6*	*37-107*	0			

MS Sample ID: **1306018-01B MS** Units: **µg/Kg** Analysis Date: **6/6/2013 11:49 AM**
Client ID: Run ID: **SVMS6_130606A** SeqNo: **2341850** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	996.9	59	1304	0	76.4	45-110	0			
Acenaphthylene	1026	59	1304	0	78.6	45-105	0			
Anthracene	1121	59	1304	0	85.9	55-105	0			
Benzo(a)anthracene	1116	59	1304	24.05	83.8	50-110	0			
Benzo(a)pyrene	1133	59	1304	0	86.8	50-110	0			
Benzo(b)fluoranthene	1153	59	1304	0	88.4	45-115	0			
Benzo(g,h,i)perylene	1020	59	1304	0	78.2	40-125	0			
Benzo(k)fluoranthene	1142	59	1304	0	87.5	45-115	0			
Chrysene	1156	59	1304	0	88.6	55-110	0			
Dibenzo(a,h)anthracene	1039	59	1304	0	79.7	40-125	0			
Fluoranthene	1219	59	1304	0	93.5	55-115	0			
Fluorene	1065	59	1304	0	81.7	50-110	0			
Indeno(1,2,3-cd)pyrene	1056	59	1304	0	81	40-120	0			
Naphthalene	935.6	59	1304	3.953	71.4	40-105	0			
Pyrene	1266	59	1304	6.588	96.6	45-125	0			
Surr: 2-Fluorobiphenyl	*2428*	0	*3260*	0	*74.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3791*	0	*3260*	0	*116*	*25-137*	0			
Surr: Nitrobenzene-d5	*2596*	0	*3260*	0	*79.6*	*37-107*	0			

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48865** Instrument ID **SVMS6** Method: **SW8270**

MSD Sample ID: **1306106-04B MSD** Units: **µg/Kg** Analysis Date: **6/6/2013 11:30 AM**
Client ID: Run ID: **SVMS6_130606A** SeqNo: **2341849** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	783.7	57	1268	4.623	61.4	45-110	902	14	30	
Acenaphthylene	862.3	57	1268	32.69	65.4	45-105	963.3	11.1	30	
Anthracene	901	57	1268	25.1	69.1	55-105	1037	14.1	30	
Benzo(a)anthracene	1006	57	1268	142	68.1	50-110	1128	11.5	30	
Benzo(a)pyrene	1040	57	1268	182.6	67.6	50-110	1145	9.61	30	
Benzo(b)fluoranthene	1127	57	1268	275.1	67.2	45-115	1250	10.4	30	
Benzo(g,h,i)perylene	969.4	57	1268	174.3	62.7	40-125	1035	6.52	30	
Benzo(k)fluoranthene	999.9	57	1268	104.3	70.6	45-115	1133	12.5	30	
Chrysene	1040	57	1268	157.2	69.6	55-110	1176	12.3	30	
Dibenzo(a,h)anthracene	867.4	57	1268	64.39	63.3	40-125	951.9	9.3	30	
Fluoranthene	1047	57	1268	185.2	67.9	55-115	1218	15.1	30	
Fluorene	827.4	57	1268	6.934	64.7	50-110	934.2	12.1	30	
Indeno(1,2,3-cd)pyrene	993.5	57	1268	200.4	62.5	40-120	1071	7.49	30	
Naphthalene	776.7	57	1268	53.82	57	40-105	884.3	13	30	
Pyrene	1222	57	1268	235.1	77.9	45-125	1356	10.4	30	
Surr: 2-Fluorobiphenyl	*2105*	0	*3170*	0	*66.4*	*12-100*	2213	*5.01*	*40*	
Surr: 4-Terphenyl-d14	*3365*	0	*3170*	0	*106*	*25-137*	3624	*7.42*	*40*	
Surr: Nitrobenzene-d5	*2335*	0	*3170*	0	*73.6*	*37-107*	2454	*4.97*	*40*	

MSD Sample ID: **1306018-01B MSD** Units: **µg/Kg** Analysis Date: **6/6/2013 12:09 PM**
Client ID: Run ID: **SVMS6_130606A** SeqNo: **2341851** Prep Date: **6/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	932.4	58	1292	0	72.1	45-110	996.9	6.69	30	
Acenaphthylene	955	58	1292	0	73.9	45-105	1026	7.13	30	
Anthracene	1045	58	1292	0	80.8	55-105	1121	7.02	30	
Benzo(a)anthracene	1104	58	1292	24.05	83.5	50-110	1116	1.14	30	
Benzo(a)pyrene	1090	58	1292	0	84.3	50-110	1133	3.82	30	
Benzo(b)fluoranthene	1122	58	1292	0	86.8	45-115	1153	2.73	30	
Benzo(g,h,i)perylene	1018	58	1292	0	78.8	40-125	1020	0.138	30	
Benzo(k)fluoranthene	1108	58	1292	0	85.7	45-115	1142	3.04	30	
Chrysene	1129	58	1292	0	87.4	55-110	1156	2.32	30	
Dibenzo(a,h)anthracene	1029	58	1292	0	79.6	40-125	1039	1.03	30	
Fluoranthene	1102	58	1292	0	85.2	55-115	1219	10.1	30	
Fluorene	981.5	58	1292	0	75.9	50-110	1065	8.2	30	
Indeno(1,2,3-cd)pyrene	1002	58	1292	0	77.5	40-120	1056	5.32	30	
Naphthalene	886.5	58	1292	3.953	68.3	40-105	935.6	5.39	30	
Pyrene	1341	58	1292	6.588	103	45-125	1266	5.72	30	
Surr: 2-Fluorobiphenyl	*2358*	0	*3231*	0	*73*	*12-100*	2428	*2.91*	*40*	
Surr: 4-Terphenyl-d14	*4084*	0	*3231*	0	*126*	*25-137*	3791	*7.44*	*40*	
Surr: Nitrobenzene-d5	*2501*	0	*3231*	0	*77.4*	*37-107*	2596	*3.73*	*40*	

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48865** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch: 1306063-01B

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48849** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **MBLK-48849-48849** Units: **µg/Kg** Analysis Date: **6/4/2013 04:42 PM**
Client ID: Run ID: **VMS8_130604A** SeqNo: **2339694** Prep Date: **6/4/2013** 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	*954.5*	0	*1000*	0	*95.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*958*	0	*1000*	0	*95.8*	*70-130*	0			
Surr: Dibromofluoromethane	*984.5*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: Toluene-d8	*975*	0	*1000*	0	*97.5*	*70-130*	0			

LCS Sample ID: **LCS1-48849-48849** Units: **µg/Kg** Analysis Date: **6/4/2013 02:42 PM**
Client ID: Run ID: **VMS8_130604A** SeqNo: **2339693** Prep Date: **6/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1012	30	1000	0	101	75-125	0			
Ethylbenzene	988	30	1000	0	98.8	75-125	0			
m,p-Xylene	1938	60	2000	0	96.9	80-125	0			
o-Xylene	986	30	1000	0	98.6	75-125	0			
Toluene	950	30	1000	0	95	70-125	0			
Xylenes, Total	2924	90	3000	0	97.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	*953.5*	0	*1000*	0	*95.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*963.5*	0	*1000*	0	*96.4*	*70-130*	0			
Surr: Dibromofluoromethane	*1012*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*990*	0	*1000*	0	*99*	*70-130*	0			

MS Sample ID: **1306058-01A MS** Units: **µg/Kg** Analysis Date: **6/4/2013 11:41 PM**
Client ID: Run ID: **VMS9_130604A** SeqNo: **2339495** Prep Date: **6/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1102	30	1000	151	95	75-125	0			
Ethylbenzene	1272	30	1000	352	92	75-125	0			
m,p-Xylene	7039	60	2000	5412	81.3	80-125	0			
o-Xylene	2026	30	1000	1086	94	75-125	0			
Toluene	2512	30	1000	1660	85.2	70-125	0			
Xylenes, Total	9065	90	3000	6498	85.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1044*	0	*1000*	0	*104*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1024*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1043*	0	*1000*	0	*104*	*70-130*	0			
Surr: Toluene-d8	*1090*	0	*1000*	0	*109*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48849** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: **1306058-01A MSD** Units: **µg/Kg** Analysis Date: **6/5/2013 12:02 PM**

Client ID: Run ID: **VMS9_130604A** SeqNo: **2339496** Prep Date: **6/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1063	30	1000	151	91.2	75-125	1102	3.56	30	
Ethylbenzene	1258	30	1000	352	90.6	75-125	1272	1.11	30	
m,p-Xylene	6889	60	2000	5412	73.8	80-125	7039	2.15	30	S
o-Xylene	2004	30	1000	1086	91.8	75-125	2026	1.09	30	
Toluene	2490	30	1000	1660	83	70-125	2512	0.86	30	
Xylenes, Total	8893	90	3000	6498	79.8	75-125	9065	1.92	30	
Surr: 1,2-Dichloroethane-d4	*1033*	0	*1000*	0	*103*	*70-130*	1044	*1.06*	*30*	
Surr: 4-Bromofluorobenzene	*1017*	0	*1000*	0	*102*	*70-130*	1024	*0.637*	*30*	
Surr: Dibromofluoromethane	*1030*	0	*1000*	0	*103*	*70-130*	1043	*1.3*	*30*	
Surr: Toluene-d8	*1097*	0	*1000*	0	*110*	*70-130*	1090	*0.686*	*30*	

The following samples were analyzed in this batch: 1306063-01A

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48852** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **1306060-04A DUP** Units: **mmhos/cm @25°F** Analysis Date: **6/7/2013 04:00 PM**

Client ID: Run ID: **WETCHEM_130607E** SeqNo: **2343250** Prep Date: **6/4/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	7.33	0.050	0	0	0		7.26	0.96	50	

The following samples were analyzed in this batch: 1306063-01C

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **48898** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-48898-48898** Units: **mg/Kg** Analysis Date: **6/10/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130610C** SeqNo: **2344291** Prep Date: **6/6/2013** 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-48898-48898** Units: **mg/Kg** Analysis Date: **6/10/2013 12:00 PM**
Client ID: Run ID: **WETCHEM_130610C** SeqNo: **2344290** Prep Date: **6/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.669	0.50	1.992	0	83.8	75-110	0			

MS Sample ID: **1306063-01B MS** Units: **mg/Kg** Analysis Date: **6/10/2013 12:00 PM**
Client ID: **Point of Origin** Run ID: **WETCHEM_130610C** SeqNo: **2344287** Prep Date: **6/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.107	0.50	1.984	0.08627	102	60-130	0			

MSD Sample ID: **1306063-01B MSD** Units: **mg/Kg** Analysis Date: **6/10/2013 12:00 PM**
Client ID: **Point of Origin** Run ID: **WETCHEM_130610C** SeqNo: **2344288** Prep Date: **6/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.817	0.50	1.992	0.08627	86.9	60-130	2.107	14.8	30	

The following samples were analyzed in this batch: 1306063-01B

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **R121709** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **WLCSS1-130604-R121709** Units: **s.u.** Analysis Date: **6/4/2013 03:35 PM**
Client ID: Run ID: **WETCHEM_130604L** SeqNo: **2339277** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.28	0	4.4	0	97.3	90-110	0			

DUP Sample ID: **1306057-01C DUP** Units: **s.u.** Analysis Date: **6/4/2013 03:35 PM**
Client ID: Run ID: **WETCHEM_130604L** SeqNo: **2339280** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.42	0	0	0	0	0-0	7.42	0	20	

The following samples were analyzed in this batch: 1306063-01B

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

Client: HRL Compliance Solutions
Work Order: 1306063
Project: WPX SP 32-14 Confirmation 6/3/13

QC BATCH REPORT

Batch ID: **R121721** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R121721** Units: **% of sample** Analysis Date: **6/4/2013 01:47 PM**
Client ID: Run ID: **MOIST_130604A** SeqNo: **2339644** 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-R121721** Units: **% of sample** Analysis Date: **6/4/2013 01:47 PM**
Client ID: Run ID: **MOIST_130604A** SeqNo: **2339643** 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: **1306053-03A DUP** Units: **% of sample** Analysis Date: **6/4/2013 01:47 PM**
Client ID: Run ID: **MOIST_130604A** SeqNo: **2339626** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.41	0.050	0	0	0	0-0	18.34	5.2	20	

DUP Sample ID: **1306064-01B DUP** Units: **% of sample** Analysis Date: **6/4/2013 01:47 PM**
Client ID: Run ID: **MOIST_130604A** SeqNo: **2339636** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.78	0.050	0	0	0	0-0	8.66	12.1	20	

The following samples were analyzed in this batch: 1306063-01B

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

ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 202r8

WORKORDER #	1306063				
SAMPLER	Reed Wold	DATE	6/3/13	PAGE	1 of 1
PROJECT NAME		SITE ID	SP 32-14	TURNAROUND	5 day
PROJECT No.	SP 32-14 confirmation Sample	EDD FORMAT		DISPOSAL	(By Lab) or Return to Client
		PURCHASE ORDER			
COMPANY NAME	HCSI	BILL TO COMPANY	WPX Energy		
SEND REPORT TO	Mark Mumby	INVOICE ATTN TO	Karolina Blaney		
ADDRESS	2385 F 1/2 Road	ADDRESS	1058 County Road 215		
CITY / STATE / ZIP	Grand Junction, CO. 81505	CITY / STATE / ZIP	Parachute, CO 81635		
PHONE	970-243-3271	PHONE	970-683-2295		
FAX	970-243-3280	FAX	970-285-9573		
E-MAIL	Mmumby@HRLcomp.com RWold@HRLcomp.com	E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX/HRO	DRO/PAH/Metals	SAR/Ec/pH
1	Point of origin	So	6/3/13	2:30	3	8		x	x	x

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

For metals or anions, please detail analytes below.

Comments:

5.0°C

QC PACKAGE (check below)	
x	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Reed Wold	Reed Wold	6/3/13	4:00
RECEIVED BY	[signature]	[illegible]	6-3	4:00
RELINQUISHED BY	[signature]	D.M	6-3-13	4:20
RECEIVED BY	[signature]	Diane F. Shaw	6/4/13	0930
RELINQUISHED BY				
RECEIVED BY				

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

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **04-Jun-13 09:30**

Work Order: **1306063** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 04-Jun-13 (Date) Reviewed by: Ann Preston (eSignature) 05-Jun-13 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	5.0 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	6/4/2013 11:54:31 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

J13111302120326

Ship Date: 03JUN13
ActWgt: 56.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15.IN

Delivery Address Bar Code

Ref # 1001-960313-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070
BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

TUE - 04 JUN 3:00P
STANDARD OVERNIGHT

TRK# 0201 7999 1035 5369

XX GRRA

49424
MI-US
GRR

518G1/D777/53AB

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

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

Lab Hub LLC. **Custody seal**

Date: 6-3-13
Time: 1030