

Legend

- Sample Location
- Existing Road
- Existing Pad
Limit of Disturbance

SG 42-22
Arsenic Background Sample Location Map
T7S R96W, Section 22

September 16, 2014





16-Sep-2014

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

Re: **WPX SG 42-22 Backgrounds 9.10.14**

Work Order: **1409518**

Dear Mark,

ALS Environmental received 5 samples on 11-Sep-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 13.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS Environmental logo icon consisting of a small blue triangle with a yellow flame.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
Work Order: 1409518

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>
1409518-01	SG 42-22-B-1	Soil		9/10/2014 12:30	9/11/2014 09:30	<input type="checkbox"/>
1409518-02	SG 42-22-B-2	Soil		9/10/2014 12:35	9/11/2014 09:30	<input type="checkbox"/>
1409518-03	SG 42-22-B-3	Soil		9/10/2014 12:40	9/11/2014 09:30	<input type="checkbox"/>
1409518-04	SG 42-22-B-4	Soil		9/10/2014 12:45	9/11/2014 09:30	<input type="checkbox"/>
1409518-05	SG 42-22-B-5	Soil		9/10/2014 12:50	9/11/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
WorkOrder: 1409518

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 16-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
Sample ID: SG 42-22-B-1
Collection Date: 9/10/2014 12:30 PM

Work Order: 1409518
Lab ID: 1409518-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/11/14	Analyst: ML
Arsenic	3.6		2.0	mg/Kg-dry	5	9/11/2014 08:54 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	14		0.050	% of sample	1	9/12/2014 10:11 AM

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

ALS Group USA, Corp

Date: 16-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
Sample ID: SG 42-22-B-2
Collection Date: 9/10/2014 12:35 PM

Work Order: 1409518
Lab ID: 1409518-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/11/14	Analyst: ML
Arsenic	5.9		2.4	mg/Kg-dry	5	9/11/2014 09:00 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	16		0.050	% of sample	1	9/12/2014 10:11 AM

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

ALS Group USA, Corp

Date: 16-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
Sample ID: SG 42-22-B-3
Collection Date: 9/10/2014 12:40 PM

Work Order: 1409518
Lab ID: 1409518-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/11/14	Analyst: ML
Arsenic	7.2		2.0	mg/Kg-dry	5	9/11/2014 09:06 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	16		0.050	% of sample	1	9/12/2014 10:11 AM

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

ALS Group USA, Corp

Date: 16-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
Sample ID: SG 42-22-B-4
Collection Date: 9/10/2014 12:45 PM

Work Order: 1409518
Lab ID: 1409518-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/11/14	Analyst: ML
Arsenic	6.9		2.4	mg/Kg-dry	5	9/11/2014 09:12 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	16		0.050	% of sample	1	9/12/2014 10:11 AM

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

ALS Group USA, Corp

Date: 16-Sep-14

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Backgrounds 9.10.14
Sample ID: SG 42-22-B-5
Collection Date: 9/10/2014 12:50 PM

Work Order: 1409518
Lab ID: 1409518-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/11/14	Analyst: ML
Arsenic	9.1		2.2	mg/Kg-dry	5	9/11/2014 09:18 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	13		0.050	% of sample	1	9/12/2014 10:11 AM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409518
Project: WPX SG 42-22 Backgrounds 9.10.14

QC BATCH REPORT

Batch ID: **62680** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-62680-62680				Units: mg/Kg		Analysis Date: 9/11/2014 06:52 PM		
Client ID:		Run ID: ICPMS1_140911A		SeqNo: 2931680		Prep Date: 9/11/2014		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-62680-62680				Units: mg/Kg		Analysis Date: 9/11/2014 06:58 PM		
Client ID:		Run ID: ICPMS1_140911A		SeqNo: 2931681		Prep Date: 9/11/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.352	0.25	5	0	87	80-120	0			

MS		Sample ID: 1409520-03AMS				Units: mg/Kg		Analysis Date: 9/11/2014 10:01 PM		
Client ID:		Run ID: ICPMS1_140911A		SeqNo: 2931711		Prep Date: 9/11/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.62	1.8	7.246	2.656	124	75-125	0			

MSD		Sample ID: 1409520-03AMSD				Units: mg/Kg		Analysis Date: 9/11/2014 10:07 PM		
Client ID:		Run ID: ICPMS1_140911A		SeqNo: 2931712		Prep Date: 9/11/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.28	1.8	7.215	2.656	106	75-125	11.62	12.3	25	

The following samples were analyzed in this batch:

1409518-01A	1409518-02A	1409518-03A
1409518-04A	1409518-05A	

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1409518
 Project: WPX SG 42-22 Backgrounds 9.10.14

QC BATCH REPORT

Batch ID: **R148124** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R148124				Units: % of sample			Analysis Date: 9/12/2014 10:11 AM		
Client ID:	Run ID: MOIST_140912A			SeqNo: 2933646		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-R148124				Units: % of sample			Analysis Date: 9/12/2014 10:11 AM		
Client ID:	Run ID: MOIST_140912A			SeqNo: 2933642		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: 1409480-01A DUP				Units: % of sample			Analysis Date: 9/12/2014 10:11 AM		
Client ID:	Run ID: MOIST_140912A			SeqNo: 2933620		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 53.61 0.050 0 0 0 0-0 54.2 1.09 20

DUP	Sample ID: 1409480-02A DUP				Units: % of sample			Analysis Date: 9/12/2014 10:11 AM		
Client ID:	Run ID: MOIST_140912A			SeqNo: 2933622		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 53.42 0.050 0 0 0 0-0 60.89 13.1 20

The following samples were analyzed in this batch:

1409518-01A	1409518-02A	1409518-03A
1409518-04A	1409518-05A	

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

WORKORDER # **1409518**

Form 2028

PROJECT NAME		SAMPLER		DATE		PAGE	
WPX 5642-22		Reed Wold		9/10/14		1 of 1	
PROJECT No. Backgrounds		SITE ID 5642-22		TURNAROUND 3 Day		DISPOSAL <u>By Lab</u> or Return to Client	
COMPANY NAME		BILL TO COMPANY		AirSeal			
HRL Compliance		WPX					
SEND REPORT TO		INVOICE ATTN TO					
Mark Mumby		Karolina Blaney					
ADDRESS		ADDRESS					
2385 F 1/2 Rd		1058 Co Rd 215					
CITY / STATE / ZIP		CITY / STATE / ZIP					
Grand Junction, CO 81506		Parachure CO 81635					
PHONE		PHONE					
970-243-3271		970-683-2295					
FAX		FAX					
970-243-3280							
E-MAIL		E-MAIL					
mmumby@hrlcomp.com rwold@hrlcomp.com		Karolina.blaney@wpxenergy.com					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	5642-22-B-1	SO-	9/10/14	12:30	1	8	X
2	B-2	↓	↓	12:35	1	↓	X
3	B-3	↓	↓	12:40	1	↓	X
4	B-4	↓	↓	12:45	1	↓	X
5	B-5	↓	↓	12:50	1	↓	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: *4.4: [Signature]*

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

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Reed Wold</i>	Reed Wold	9/10/14	1:00
RECEIVED BY	<i>[Signature]</i>	[Signature]	9/10/14	1:00
RELINQUISHED BY	<i>[Signature]</i>	[Signature]	9/10/14	1:00
RECEIVED BY	<i>A. Gitchel</i>	Andrea Gitchel	9/11/14	02:30
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

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

Work Order: **1409518**

Received by: **ANG**

Checklist completed by Andrea Cjtechhl 11-Sep-14
eSignature Date

Reviewed by: Ann Preston 11-Sep-14
eSignature Date

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="4.6 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="9/11/2014 12:58:34 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (616) 399-6070
Nick Matinez
ALS Environmental
127 E. 1st Street
parachute, MI 49424

Origin ID: HLMA



Ship Date: 10SEP14
ActWgt: 36.0 LB
CAD: 2264840/NET3550
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



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

BILL SENDER

Ref # 091014-1
Invoice #
PO # Parachute
Dept #

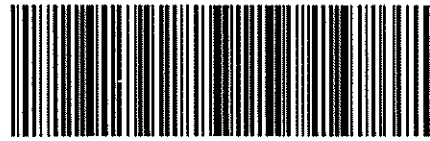
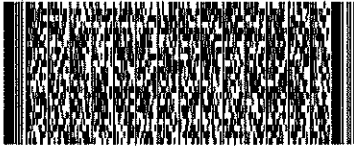
HOLLAND, MI 49424

THU - 11 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7711 1589 0876
E201

49424
MI-US
GRR

68 HLMA



52261CD848AC9

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27-Nov-2013

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

Re: **WPX SG 42-22 11.19.13**

Work Order: **13111103**

Dear Mark,

ALS Environmental received 1 sample on 20-Nov-2013 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 10.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS

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Client: HRL Compliance Solutions
Project: WPX SG 42-22 11.19.13
Work Order: 13111103

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>
13111103-01	SG 42-22	Cuttings	Soil	11/19/2013 10:00	11/20/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX SG 42-22 11.19.13
WorkOrder: 13111103

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions
Project: WPX SG 42-22 11.19.13
Sample ID: SG 42-22 Cuttings
Collection Date: 11/19/2013 10:00 AM

Work Order: 13111103
Lab ID: 13111103-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 11/22/2013	Analyst: CW
DRO (C10-C28)	1,100		18	mg/Kg-dry	1	11/25/2013 05:06 PM
<i>Surr: 4-Terphenyl-d14</i>	65.2		39-115	%REC	1	11/25/2013 05:06 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 11/19/2013	Analyst: CW
GRO (C6-C10)	ND		6.1	mg/Kg-dry	1	11/22/2013 08:23 AM
<i>Surr: Toluene-d8</i>	107		50-150	%REC	1	11/22/2013 08:23 AM
MERCURY BY CVAA			SW7471		Prep Date: 11/22/2013	Analyst: LR
Mercury	0.11		0.034	mg/Kg-dry	1	11/25/2013 07:29 PM
METALS BY ICP-MS			SW6020A		Prep Date: 11/25/2013	Analyst: ML
Arsenic	ND		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Barium	31,000		400	mg/Kg-dry	500	11/26/2013 05:11 PM
Cadmium	ND		1.6	mg/Kg-dry	5	11/26/2013 03:14 AM
Chromium	20		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Copper	20		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Lead	100		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Nickel	11		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Selenium	ND		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Silver	ND		4.0	mg/Kg-dry	5	11/26/2013 03:14 AM
Zinc	440		8.0	mg/Kg-dry	5	11/26/2013 03:14 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 11/25/2013	Analyst: ML
Calcium	270		10	mg/L	20	11/26/2013 06:11 PM
Magnesium	22		4.0	mg/L	20	11/26/2013 06:11 PM
Sodium	1,600		4.0	mg/L	20	11/26/2013 06:11 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 11/25/2013	Analyst: ML
Sodium Adsorption Ratio	25		0.010	none	1	11/26/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 11/22/2013	Analyst: CW
Acenaphthene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Acenaphthylene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Anthracene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Benzo(a)anthracene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Benzo(a)pyrene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Benzo(b)fluoranthene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Benzo(g,h,i)perylene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Benzo(k)fluoranthene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Chrysene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Dibenzo(a,h)anthracene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Fluoranthene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: HRL Compliance Solutions

Project: WPX SG 42-22 11.19.13

Work Order: 13111103

Sample ID: SG 42-22 Cuttings

Lab ID: 13111103-01

Collection Date: 11/19/2013 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Indeno(1,2,3-cd)pyrene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Naphthalene	73		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Pyrene	ND		28	µg/Kg-dry	1	11/22/2013 09:20 PM
Surr: 2-Fluorobiphenyl	46.6		12-100	%REC	1	11/22/2013 09:20 PM
Surr: 4-Terphenyl-d14	65.3		25-137	%REC	1	11/22/2013 09:20 PM
Surr: Nitrobenzene-d5	37.2		37-107	%REC	1	11/22/2013 09:20 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep Date: 11/13/2013 Analyst: RS		
Benzene	220		74	µg/Kg-dry	1	11/25/2013 06:14 AM
Ethylbenzene	ND		74	µg/Kg-dry	1	11/25/2013 06:14 AM
m,p-Xylene	580		150	µg/Kg-dry	1	11/25/2013 06:14 AM
o-Xylene	81		74	µg/Kg-dry	1	11/25/2013 06:14 AM
Toluene	710		74	µg/Kg-dry	1	11/25/2013 06:14 AM
Xylenes, Total	670		220	µg/Kg-dry	1	11/25/2013 06:14 AM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	11/25/2013 06:14 AM
Surr: 4-Bromofluorobenzene	94.2		70-130	%REC	1	11/25/2013 06:14 AM
Surr: Dibromofluoromethane	101		70-130	%REC	1	11/25/2013 06:14 AM
Surr: Toluene-d8	95.9		70-130	%REC	1	11/25/2013 06:14 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep Date: 11/25/2013 Analyst: JB		
Electrical Conductivity @ Saturation	8.5		0.050	mmhos/cm @2	10	11/25/2013 08:20 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	19		1.2	mg/Kg-dry	1	11/27/2013 10:25 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep Date: 11/25/2013 Analyst: MB		
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	11/25/2013 04:30 PM
MOISTURE			A2540 G	Analyst: MEB		
Moisture	59		0.050	% of sample	1	11/25/2013 12:30 PM
PH			SW9045D	Prep Date: 11/26/2013 Analyst: JB		
pH	8.2			s.u.	1	11/26/2013 07:30 PM

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

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53552** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-53552-53552				Units: mg/Kg		Analysis Date: 11/25/2013 02:37 PM			
Client ID:		Run ID: GC8_131125A		SeqNo: 2556648		Prep Date: 11/22/2013		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									
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9107</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>54.6</i>	<i>39-115</i>	<i>0</i>				

LCS		Sample ID: DLCSS1-53552-53552				Units: mg/Kg		Analysis Date: 11/25/2013 03:07 PM			
Client ID:		Run ID: GC8_131125A		SeqNo: 2556649		Prep Date: 11/22/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	135.2	4.2	166.7	0	81.1	49-124	0				
<i>Surr: 4-Terphenyl-d14</i>	<i>1.047</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>62.8</i>	<i>39-115</i>	<i>0</i>				

MS		Sample ID: 13111112-01B MS				Units: mg/Kg		Analysis Date: 11/25/2013 03:36 PM			
Client ID:		Run ID: GC8_131125A		SeqNo: 2556650		Prep Date: 11/22/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	652.7	8.0	318.1	334.7	100	49-130	0				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.031</i>	<i>0</i>	<i>3.181</i>	<i>0</i>	<i>127</i>	<i>39-115</i>	<i>0</i>			<i>S</i>	

MSD		Sample ID: 13111112-01B MSD				Units: mg/Kg		Analysis Date: 11/25/2013 04:06 PM			
Client ID:		Run ID: GC8_131125A		SeqNo: 2556651		Prep Date: 11/22/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	602.7	8.1	324.1	334.7	82.7	49-130	652.7	7.97	30		
<i>Surr: 4-Terphenyl-d14</i>	<i>3.404</i>	<i>0</i>	<i>3.241</i>	<i>0</i>	<i>105</i>	<i>39-115</i>	<i>4.031</i>	<i>16.8</i>	<i>30</i>		

The following samples were analyzed in this batch: 13111103-01B

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53524** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-53524-53524				Units: µg/Kg		Analysis Date: 11/21/2013 06:16 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549272		Prep Date: 11/19/2013		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>	5172	0	5000	0	103	50-150	0			

LCS		Sample ID: LCS-53524-53524				Units: µg/Kg		Analysis Date: 11/21/2013 05:29 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549270		Prep Date: 11/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	392200	2,500	500000	0	78.4	70-130	0			
<i>Surr: Toluene-d8</i>	5331	0	5000	0	107	50-150	0			

MS		Sample ID: 13111126-02A MS				Units: µg/Kg		Analysis Date: 11/22/2013 12:08 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549283		Prep Date: 11/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	395500	2,500	500000	0	79.1	70-130	0			
<i>Surr: Toluene-d8</i>	5636	0	5000	0	113	50-150	0			

MSD		Sample ID: 13111126-02A MSD				Units: µg/Kg		Analysis Date: 11/22/2013 12:32 PM		
Client ID:		Run ID: GC10_131121A				SeqNo: 2549284		Prep Date: 11/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	386400	2,500	500000	0	77.3	70-130	395500	2.34	30	
<i>Surr: Toluene-d8</i>	5546	0	5000	0	111	50-150	5636	1.6	30	

The following samples were analyzed in this batch:

13111103-01A

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53523** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 13111015-03CDUP				Units: mg/L		Analysis Date: 11/26/2013 05:42 PM		
Client ID:		Run ID: ICPMS2_131126A			SeqNo: 2558473		Prep Date: 11/25/2013		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	89.34	10	0	0	0	0-0	72.92	20.2		
Magnesium	10.18	4.0	0	0	0	0-0	8.478	18.2		
Sodium	749.4	4.0	0	0	0	0-0	665.6	11.8		

DUP		Sample ID: 13111015-03CDUP				Units: none		Analysis Date: 11/26/2013		
Client ID:		Run ID: SAR_131126A			SeqNo: 2558885		Prep Date: 11/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	20.03	0.010	0	0	0		19.66	1.87	50	

The following samples were analyzed in this batch:

13111103-01C

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: 53635 Instrument ID ICPMS1 Method: SW6020A

MBLK		Sample ID: MBLK-53635-53635				Units: mg/Kg		Analysis Date: 11/26/2013 02:49 A		
Client ID:		Run ID: ICPMS1_131125A			SeqNo: 2555698		Prep Date: 11/25/2013		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	0.0565	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.0754	0.50								J

LCS		Sample ID: LCS-53635-53635				Units: mg/Kg		Analysis Date: 11/26/2013 02:55 A		
Client ID:		Run ID: ICPMS1_131125A			SeqNo: 2555699		Prep Date: 11/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.44	0.25	5	0	88.8	80-120	0			
Barium	4.82	0.25	5	0	96.4	80-120	0			
Cadmium	4.603	0.10	5	0	92.1	80-120	0			
Chromium	4.782	0.25	5	0	95.6	80-120	0			
Copper	4.832	0.25	5	0	96.6	80-120	0			
Lead	4.886	0.25	5	0	97.7	80-120	0			
Nickel	4.74	0.25	5	0	94.8	80-120	0			
Selenium	4.059	0.25	5	0	81.2	80-120	0			
Silver	5.295	0.25	5	0	106	80-120	0			
Zinc	4.494	0.50	5	0	89.9	80-120	0			

MS		Sample ID: 13111169-03AMS				Units: mg/Kg		Analysis Date: 11/26/2013 06:36 A		
Client ID:		Run ID: ICPMS1_131125A			SeqNo: 2555741		Prep Date: 11/25/2013		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	19.69	1.9	7.474	11.48	110	75-125	0			
Copper	19.19	1.9	7.474	12.5	89.6	75-125	0			
Nickel	19.28	1.9	7.474	12.01	97.3	75-125	0			
Selenium	7.22	1.9	7.474	0.8287	85.5	75-125	0			
Silver	7.919	1.9	7.474	0.04982	105	75-125	0			
Zinc	51.23	3.7	7.474	43.49	104	75-125	0			O

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

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: 53635 Instrument ID ICPMS1 Method: SW6020A

MS		Sample ID: 13111169-03AMS				Units: mg/Kg		Analysis Date: 11/26/2013 06:32 PM		
Client ID:		Run ID: ICPMS1_131126A			SeqNo: 2557220		Prep Date: 11/25/2013		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.46	1.9	7.474	7.39	81.3	75-125	0			
Barium	300.9	1.9	7.474	294.3	88.3	75-125	0			O
Cadmium	7.676	0.75	7.474	0.3158	98.5	75-125	0			
Lead	17.4	1.9	7.474	12.42	66.6	75-125	0			S

MSD		Sample ID: 13111169-03AMSD				Units: mg/Kg		Analysis Date: 11/26/2013 06:42 A		
Client ID:		Run ID: ICPMS1_131125A			SeqNo: 2555742		Prep Date: 11/25/2013		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	19.28	1.8	7.299	11.48	107	75-125	19.69	2.1	25	
Copper	18.79	1.8	7.299	12.5	86.2	75-125	19.19	2.13	25	
Nickel	18.89	1.8	7.299	12.01	94.3	75-125	19.28	2.03	25	
Selenium	7.288	1.8	7.299	0.8287	88.5	75-125	7.22	0.946	25	
Silver	7.708	1.8	7.299	0.04982	105	75-125	7.919	2.69	25	
Zinc	49.89	3.6	7.299	43.49	87.7	75-125	51.23	2.66	25	O

MSD		Sample ID: 13111169-03AMSD				Units: mg/Kg		Analysis Date: 11/26/2013 06:38 PM		
Client ID:		Run ID: ICPMS1_131126A			SeqNo: 2557221		Prep Date: 11/25/2013		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.76	1.8	7.299	7.39	87.2	75-125	13.46	2.14	25	
Barium	314.5	1.8	7.299	294.3	277	75-125	300.9	4.42	25	SO
Cadmium	7.668	0.73	7.299	0.3158	101	75-125	7.676	0.101	25	
Lead	17.49	1.8	7.299	12.42	69.5	75-125	17.4	0.537	25	S

The following samples were analyzed in this batch:

13111103-01B

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

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: 53551 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: SBLKS1-53551-53551				Units: µg/Kg		Analysis Date: 11/22/2013 05:41 PM		
Client ID:		Run ID: SVMS8_131122B			SeqNo: 2554384		Prep Date: 11/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1166	0	1667	0	69.9	12-100	0			
Surr: 4-Terphenyl-d14	1703	0	1667	0	102	25-137	0			
Surr: Nitrobenzene-d5	1082	0	1667	0	64.9	37-107	0			

LCS		Sample ID: SLCSS1-53551-53551				Units: µg/Kg		Analysis Date: 11/22/2013 06:01 PM		
Client ID:		Run ID: SVMS8_131122B			SeqNo: 2554385		Prep Date: 11/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	496	6.7	666.7	0	74.4	45-110	0			
Acenaphthylene	530.3	6.7	666.7	0	79.5	45-105	0			
Anthracene	580.3	6.7	666.7	0	87	55-105	0			
Benzo(a)anthracene	617.3	6.7	666.7	0	92.6	50-110	0			
Benzo(a)pyrene	640.7	6.7	666.7	0	96.1	50-110	0			
Benzo(b)fluoranthene	652	6.7	666.7	0	97.8	45-115	0			
Benzo(g,h,i)perylene	624.3	6.7	666.7	0	93.6	40-125	0			
Benzo(k)fluoranthene	652	6.7	666.7	0	97.8	45-115	0			
Chrysene	621	6.7	666.7	0	93.1	55-110	0			
Dibenzo(a,h)anthracene	600	6.7	666.7	0	90	40-125	0			
Fluoranthene	596	6.7	666.7	0	89.4	55-115	0			
Fluorene	537	6.7	666.7	0	80.5	50-110	0			
Indeno(1,2,3-cd)pyrene	597.3	6.7	666.7	0	89.6	40-120	0			
Naphthalene	498.7	6.7	666.7	0	74.8	40-105	0			
Pyrene	675.3	6.7	666.7	0	101	45-125	0			
Surr: 2-Fluorobiphenyl	1132	0	1667	0	67.9	12-100	0			
Surr: 4-Terphenyl-d14	1689	0	1667	0	101	25-137	0			
Surr: Nitrobenzene-d5	1066	0	1667	0	64	37-107	0			

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

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: 53551 Instrument ID SVMS8 Method: SW8270

MS		Sample ID: 13111112-01B MS				Units: µg/Kg		Analysis Date: 11/22/2013 06:21 PM			
Client ID:		Run ID: SVMS8_131122B				SeqNo: 2554386		Prep Date: 11/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1073	13	1316	0	81.5	45-110	0				
Acenaphthylene	1129	13	1316	0	85.7	45-105	0				
Anthracene	1231	13	1316	0	93.5	55-105	0				
Benzo(a)anthracene	1283	13	1316	0	97.5	50-110	0				
Benzo(a)pyrene	1323	13	1316	0	100	50-110	0				
Benzo(b)fluoranthene	1321	13	1316	0	100	45-115	0				
Benzo(g,h,i)perylene	1318	13	1316	0	100	40-125	0				
Benzo(k)fluoranthene	1293	13	1316	0	98.2	45-115	0				
Chrysene	1269	13	1316	0	96.4	55-110	0				
Dibenzo(a,h)anthracene	1296	13	1316	0	98.4	40-125	0				
Fluoranthene	1182	13	1316	0	89.8	55-115	0				
Fluorene	1173	13	1316	29.57	86.9	50-110	0				
Indeno(1,2,3-cd)pyrene	1287	13	1316	0	97.8	40-120	0				
Naphthalene	1070	13	1316	78.74	75.3	40-105	0				
Pyrene	1261	13	1316	0	95.8	45-125	0				
Surr: 2-Fluorobiphenyl	2373	0	3290	0	72.1	12-100	0				
Surr: 4-Terphenyl-d14	3201	0	3290	0	97.3	25-137	0				
Surr: Nitrobenzene-d5	2096	0	3290	0	63.7	37-107	0				

MSD		Sample ID: 13111112-01B MSD				Units: µg/Kg		Analysis Date: 11/22/2013 06:41 PM			
Client ID:		Run ID: SVMS8_131122B				SeqNo: 2554387		Prep Date: 11/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1041	13	1319	0	78.9	45-110	1073	3.02	30		
Acenaphthylene	1107	13	1319	0	83.9	45-105	1129	1.96	30		
Anthracene	1232	13	1319	0	93.4	55-105	1231	0.117	30		
Benzo(a)anthracene	1275	13	1319	0	96.7	50-110	1283	0.6	30		
Benzo(a)pyrene	1282	13	1319	0	97.2	50-110	1323	3.11	30		
Benzo(b)fluoranthene	1298	13	1319	0	98.4	45-115	1321	1.79	30		
Benzo(g,h,i)perylene	1287	13	1319	0	97.6	40-125	1318	2.36	30		
Benzo(k)fluoranthene	1260	13	1319	0	95.5	45-115	1293	2.61	30		
Chrysene	1289	13	1319	0	97.7	55-110	1269	1.56	30		
Dibenzo(a,h)anthracene	1271	13	1319	0	96.3	40-125	1296	1.93	30		
Fluoranthene	1171	13	1319	0	88.7	55-115	1182	0.952	30		
Fluorene	1196	13	1319	29.57	88.4	50-110	1173	1.89	30		
Indeno(1,2,3-cd)pyrene	1264	13	1319	0	95.8	40-120	1287	1.79	30		
Naphthalene	1214	13	1319	78.74	86.1	40-105	1070	12.6	30		
Pyrene	1260	13	1319	0	95.5	45-125	1261	0.0373	30		
Surr: 2-Fluorobiphenyl	2404	0	3298	0	72.9	12-100	2373	1.27	40		
Surr: 4-Terphenyl-d14	3237	0	3298	0	98.2	25-137	3201	1.14	40		
Surr: Nitrobenzene-d5	2122	0	3298	0	64.3	37-107	2096	1.22	40		

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

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53551** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

13111103- 01B

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

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53522** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-53522-53522				Units: µg/Kg		Analysis Date: 11/21/2013 03:13 PM		
Client ID:		Run ID: VMS6_131121A				SeqNo: 2549986		Prep Date: 11/13/2013		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								
<i>Surr: 1,2-Dichloroethane-d4</i>	1016	0	1000	0	102	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	983.5	0	1000	0	98.4	70-130	0			
<i>Surr: Dibromofluoromethane</i>	875.5	0	1000	0	87.6	70-130	0			
<i>Surr: Toluene-d8</i>	1002	0	1000	0	100	70-130	0			

LCS		Sample ID: LCS-53522-53522				Units: µg/Kg		Analysis Date: 11/21/2013 01:34 PM		
Client ID:		Run ID: VMS6_131121A				SeqNo: 2549984		Prep Date: 11/13/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1046	30	1000	0	105	75-125	0			
Ethylbenzene	1035	30	1000	0	104	75-125	0			
m,p-Xylene	2090	60	2000	0	104	80-125	0			
o-Xylene	1062	30	1000	0	106	75-125	0			
Toluene	1006	30	1000	0	101	70-125	0			
Xylenes, Total	3152	90	3000	0	105	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	997.5	0	1000	0	99.8	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1012	0	1000	0	101	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1016	0	1000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	1001	0	1000	0	100	70-130	0			

MS		Sample ID: 13111079-08A MS				Units: µg/Kg		Analysis Date: 11/25/2013 08:50 PM		
Client ID:		Run ID: VMS5_131125A				SeqNo: 2555716		Prep Date: 11/13/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	996	30	1000	0	99.6	75-125	0			
Ethylbenzene	1011	30	1000	0	101	75-125	0			
m,p-Xylene	2000	60	2000	0	100	80-125	0			
o-Xylene	1009	30	1000	0	101	75-125	0			
Toluene	982	30	1000	0	98.2	70-125	0			
Xylenes, Total	3008	90	3000	0	100	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	979.5	0	1000	0	98	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1000	0	1000	0	100	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1015	0	1000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	978	0	1000	0	97.8	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53522** Instrument ID **VMS6** Method: **SW8260B**

MSD		Sample ID: 13111079-08A MSD				Units: µg/Kg		Analysis Date: 11/25/2013 09:14 PM		
Client ID:		Run ID: VMS5_131125A			SeqNo: 2555717		Prep Date: 11/13/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	993	30	1000	0	99.3	75-125	996	0.302	30	
Ethylbenzene	1013	30	1000	0	101	75-125	1011	0.198	30	
m,p-Xylene	2036	60	2000	0	102	80-125	2000	1.83	30	
o-Xylene	1038	30	1000	0	104	75-125	1009	2.79	30	
Toluene	973	30	1000	0	97.3	70-125	982	0.921	30	
Xylenes, Total	3074	90	3000	0	102	75-125	3008	2.15	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	963	0	1000	0	96.3	70-130	979.5	1.7	30	
<i>Surr: 4-Bromofluorobenzene</i>	1018	0	1000	0	102	70-130	1000	1.83	30	
<i>Surr: Dibromofluoromethane</i>	999.5	0	1000	0	100	70-130	1015	1.54	30	
<i>Surr: Toluene-d8</i>	981	0	1000	0	98.1	70-130	978	0.306	30	

The following samples were analyzed in this batch:

13111103-01A

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53523** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 13111015-03C DUP		Units: mmhos/cm @25°		Analysis Date: 11/25/2013 08:20 PM					
Client ID:	Run ID: WETCHEM_131125R		SeqNo: 2554860		Prep Date: 11/25/2013		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.01	0.050	0	0	0		3.65	9.4	50	

The following samples were analyzed in this batch:

13111103-01C

Client: HRL Compliance Solutions
 Work Order: 13111103
 Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53654** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-53654-53654		Units: mg/Kg		Analysis Date: 11/25/2013 04:30 PM					
Client ID:	Run ID: WETCHEM_131125J		SeqNo: 2554622		Prep Date: 11/25/2013 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-53654-53654		Units: mg/Kg		Analysis Date: 11/25/2013 04:30 PM					
Client ID:	Run ID: WETCHEM_131125J		SeqNo: 2554536		Prep Date: 11/25/2013 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.668 0.50 2 0 83.4 80-120 0

MS	Sample ID: 13111015-01B MS		Units: mg/Kg		Analysis Date: 11/25/2013 04:30 PM					
Client ID:	Run ID: WETCHEM_131125J		SeqNo: 2554524		Prep Date: 11/25/2013 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.51 2.041 0 0 75-125 0 S

MS	Sample ID: 13111015-01B MSI		Units: mg/Kg		Analysis Date: 11/25/2013 04:30 PM					
Client ID:	Run ID: WETCHEM_131125J		SeqNo: 2554526		Prep Date: 11/25/2013 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 687.1 50 953.7 0 72 75-125 0 S

MSD	Sample ID: 13111015-01B MSD		Units: mg/Kg		Analysis Date: 11/25/2013 04:30 PM					
Client ID:	Run ID: WETCHEM_131125J		SeqNo: 2554525		Prep Date: 11/25/2013 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.51 2.024 0 0 75-125 0 0 20 S

The following samples were analyzed in this batch:

13111103-01B

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

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **53705** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-53705-53705				Units: s.u.		Analysis Date: 11/26/2013 07:30 PM			
Client ID:		Run ID: WETCHEM_131126T		SeqNo: 2556948		Prep Date: 11/26/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.89	0	4	0	97.2	90-110	0				

DUP		Sample ID: 13111296-02A DUP				Units: s.u.		Analysis Date: 11/26/2013 07:30 PM			
Client ID:		Run ID: WETCHEM_131126T		SeqNo: 2556953		Prep Date: 11/26/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	6.76	0	0	0	0	0-0	6.72	0.593	20	H	

The following samples were analyzed in this batch:

13111103-01B

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

Client: HRL Compliance Solutions
Work Order: 13111103
Project: WPX SG 42-22 11.19.13

QC BATCH REPORT

Batch ID: **R131309** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R131309				Units: % of sample			Analysis Date: 11/25/2013 12:30 PM		
Client ID:	Run ID: MOIST_131125A			SeqNo: 2555545		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-R131309				Units: % of sample			Analysis Date: 11/25/2013 12:30 PM		
Client ID:	Run ID: MOIST_131125A			SeqNo: 2555541		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: 13111105-01B DUP				Units: % of sample			Analysis Date: 11/25/2013 12:30 PM		
Client ID:	Run ID: MOIST_131125A			SeqNo: 2555518		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 30.29 0.050 0 0 0 0-0 29.5 2.64 20

DUP	Sample ID: 13111283-03A DUP				Units: % of sample			Analysis Date: 11/25/2013 12:30 PM		
Client ID:	Run ID: MOIST_131125A			SeqNo: 2555537		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.91 0.050 0 0 0 0-0 6.44 7.04 20

The following samples were analyzed in this batch:

13111103-01B



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 #	13111103
-------------	----------

PROJECT NAME	WPX	SAMPLER	Reed Wold				DATE	11/19/13				PAGE	1 of 1			
PROJECT No.	5642-22 cuttings	SITE ID	5642-22				TURNAROUND	5 Day				DISPOSAL	By Lab or Return to Client			
COMPANY NAME	HRL Compliance	EDD FORMAT					BTX/Gro DRG/PAN/Metals SAR/EC/PA									
SEND REPORT TO	Mark Mumby	PURCHASE ORDER														
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX													
CITY/STATE/ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney													
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215													
FAX	970-243-3280	CITY/STATE/ZIP	Parachure CO 81635													
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	PHONE	970-683-2295													
E-MAIL		E-MAIL	Karolina.blaney@wpenergy.com													
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC									
1	5642-22 cuttings	SG	11/19/13	10:00	3	8		x	x	x						

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

For metals or anions, please detail analytes below.

Comments: <div style="font-size: 2em; text-align: center;">0.2</div>	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Reed Wold</i>	Reed Wold	11/19/13	10:45
RECEIVED BY	<i>[Signature]</i>	MM	11-19	1045
RELINQUISHED BY	<i>[Signature]</i>	Diane F. Shaw	11/20/13	1000
RECEIVED BY				

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

Origin ID: RLA



Ship Date: 19NOV13
ActWgt: 75.0 LB
CAD: 103923490/MINET3430
Dims: 25 X 14 X 15 IN

127 E First Street
PARACHUTE, CO 81635



J13201306282326

Delivery Address Bar Code



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

BILL RECEIPT

Ref # 1001-111913-1
Invoice #
PO #
Dept #

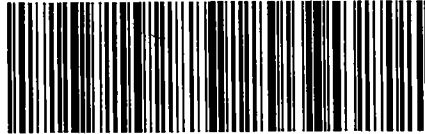
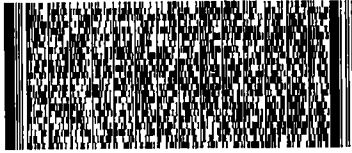
HOLLAND, MI 49424

WED - 20 NOV AA
STANDARD OVERNIGHT

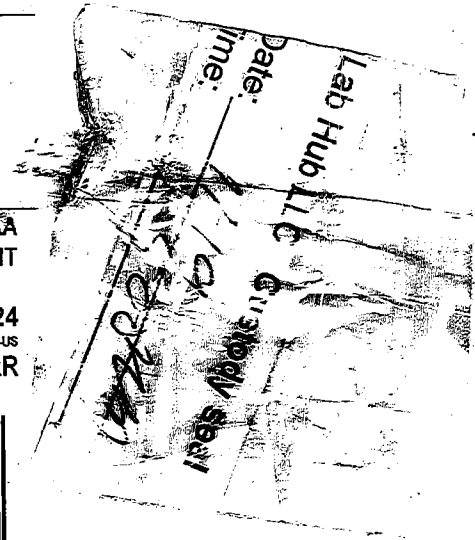
TRK# 7971 9980 6710
0201

49424
MI-US
GRR

XX GRR



51AG105EB149E



After printing this label:

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

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **20-Nov-13 10:00**

Work Order: **13111103**

Received by: **DS**

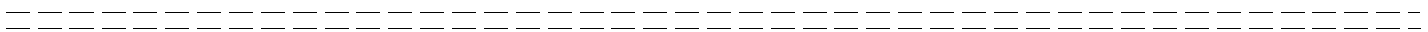
Checklist completed by Diane Shaw 20-Nov-13
eSignature Date

Reviewed by: Lee Arnold 20-Nov-13
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="0.8 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="11/20/2013 2:01:47 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



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

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



15-Dec-2013

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

Re: **WPX SG42-22 Cutting Pit 12.9.13**

Work Order: **1312478**

Dear Mark,

ALS Environmental received 1 sample on 10-Dec-2013 11:30 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 13.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX SG42-22 Cutting Pit 12.9.13
Work Order: 1312478

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>
1312478-01	SG 42-22 Cuttings Pit Batch 1	Soil		12/9/2013 13:20	12/10/2013 11:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX SG42-22 Cutting Pit 12.9.13
WorkOrder: 1312478

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

Client: HRL Compliance Solutions
Project: WPX SG42-22 Cutting Pit 12.9.13
Work Order: 1312478

Case Narrative

Batch 54011, Method VOC_8260_S, Sample 1312357-12 MS/MSD data is not related to this project's samples. No data requires qualification.

Batch 54011, Method VOC_8260_S, Sample 1312438-02A MS/MSD data is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 15-Dec-13

Client: HRL Compliance Solutions
Project: WPX SG42-22 Cutting Pit 12.9.13
Sample ID: SG 42-22 Cuttings Pit Batch 1
Collection Date: 12/9/2013 01:20 PM

Work Order: 1312478
Lab ID: 1312478-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 12/10/2013	Analyst: IT
DRO (C10-C28)	90		5.2	mg/Kg-dry	1	12/11/2013 03:24 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>61.3</i>		<i>39-115</i>	<i>%REC</i>	1	12/11/2013 03:24 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 12/5/2013	Analyst: IT
GRO (C6-C10)	ND		3.1	mg/Kg-dry	1	12/10/2013 08:05 PM
<i>Surr: Toluene-d8</i>	<i>112</i>		<i>50-150</i>	<i>%REC</i>	1	12/10/2013 08:05 PM
METALS BY ICP-MS			SW6020A		Prep Date: 12/11/2013	Analyst: ML
Barium	8,400		200	mg/Kg-dry	500	12/13/2013 06:35 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 12/3/2013	Analyst: AK
Benzene	ND		38	µg/Kg-dry	1	12/10/2013 03:16 PM
MOISTURE			A2540 G			Analyst: MEB
Moisture	20		0.050	% of sample	1	12/10/2013 03:10 PM

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

Client: HRL Compliance Solutions
Work Order: 1312478
Project: WPX SG42-22 Cutting Pit 12.9.13

QC BATCH REPORT

Batch ID: **54033** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-54033-54033				Units: mg/Kg		Analysis Date: 12/10/2013 06:56 PM			
Client ID:		Run ID: GC8_131210B				SeqNo: 2574761		Prep Date: 12/10/2013		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									
<i>Surr: 4-Terphenyl-d14</i>	1.082	0	1.667	0	64.9	39-115	0				

LCS		Sample ID: DLCSS1-54033-54033				Units: mg/Kg		Analysis Date: 12/10/2013 07:26 PM			
Client ID:		Run ID: GC8_131210B				SeqNo: 2574765		Prep Date: 12/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	168.4	4.2	166.7	0	101	49-124	0				
<i>Surr: 4-Terphenyl-d14</i>	1.178	0	1.667	0	70.7	39-115	0				

MS		Sample ID: 1312475-01A MS				Units: mg/Kg		Analysis Date: 12/10/2013 07:56 PM			
Client ID:		Run ID: GC8_131210B				SeqNo: 2574768		Prep Date: 12/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	459.2	12	479.6	175.7	59.1	49-130	0				
<i>Surr: 4-Terphenyl-d14</i>	2.907	0	4.796	0	60.6	39-115	0				

MSD		Sample ID: 1312475-01A MSD				Units: mg/Kg		Analysis Date: 12/10/2013 08:26 PM			
Client ID:		Run ID: GC8_131210B				SeqNo: 2574770		Prep Date: 12/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	511.1	12	487.9	175.7	68.7	49-130	459.2	10.7	30		
<i>Surr: 4-Terphenyl-d14</i>	3.087	0	4.879	0	63.3	39-115	2.907	6.01	30		

The following samples were analyzed in this batch: 1312478-01A

Client: HRL Compliance Solutions
Work Order: 1312478
Project: WPX SG42-22 Cutting Pit 12.9.13

QC BATCH REPORT

Batch ID: **54022** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-54022-54022				Units: µg/Kg		Analysis Date: 12/10/2013 07:18 PM		
Client ID:		Run ID: GC10_131210A		SeqNo: 2573493		Prep Date: 12/5/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	<i>5446</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>109</i>	<i>50-150</i>	<i>0</i>			

LCS		Sample ID: LCS-54022-54022				Units: µg/Kg		Analysis Date: 12/10/2013 06:55 PM		
Client ID:		Run ID: GC10_131210A		SeqNo: 2573490		Prep Date: 12/5/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	436100	2,500	500000	0	87.2	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5694</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>114</i>	<i>50-150</i>	<i>0</i>			

MS		Sample ID: 1312478-01A MS				Units: µg/Kg		Analysis Date: 12/10/2013 08:29 PM		
Client ID: SG 42-22 Cuttings Pit Batch 1		Run ID: GC10_131210A		SeqNo: 2573501		Prep Date: 12/5/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	478000	2,500	500000	0	95.6	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5765</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>115</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1312478-01A MSD				Units: µg/Kg		Analysis Date: 12/10/2013 08:52 PM		
Client ID: SG 42-22 Cuttings Pit Batch 1		Run ID: GC10_131210A		SeqNo: 2573503		Prep Date: 12/5/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	463900	2,500	500000	0	92.8	70-130	478000	2.99	30	
<i>Surr: Toluene-d8</i>	<i>5644</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>113</i>	<i>50-150</i>	<i>5765</i>	<i>2.11</i>	<i>30</i>	

The following samples were analyzed in this batch: 1312478-01A

Client: HRL Compliance Solutions
 Work Order: 1312478
 Project: WPX SG42-22 Cutting Pit 12.9.13

QC BATCH REPORT

Batch ID: **54027** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-54027-54027				Units: mg/Kg		Analysis Date: 12/13/2013 04:45 PM			
Client ID:		Run ID: ICPMS1_131213A				SeqNo: 2578693		Prep Date: 12/11/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.02102	0.25								J	

LCS		Sample ID: LCS-54027-54027				Units: mg/Kg		Analysis Date: 12/13/2013 02:04 A			
Client ID:		Run ID: ICPMS1_131212A				SeqNo: 2576982		Prep Date: 12/11/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	4.848	0.25	5	0	97	80-120	0				

MS		Sample ID: 1312184-03BMS				Units: mg/Kg		Analysis Date: 12/13/2013 03:11 A			
Client ID:		Run ID: ICPMS1_131212A				SeqNo: 2576993		Prep Date: 12/11/2013		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	100	2.0	8.143	85.45	179	75-125	0			SO	

MSD		Sample ID: 1312184-03BMSD				Units: mg/Kg		Analysis Date: 12/13/2013 03:17 A			
Client ID:		Run ID: ICPMS1_131212A				SeqNo: 2576994		Prep Date: 12/11/2013		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	103.7	2.0	8.091	85.45	226	75-125	100	3.61	25	SO	

The following samples were analyzed in this batch: 1312478-01A

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

Client: HRL Compliance Solutions
Work Order: 1312478
Project: WPX SG42-22 Cutting Pit 12.9.13

QC BATCH REPORT

Batch ID: **54011** Instrument ID **VMS6** Method: **SW8260B**

MBLK	Sample ID: MBLK-54011-54011				Units: µg/Kg		Analysis Date: 12/10/2013 02:33 PM			
Client ID:	Run ID: VMS6_131210A			SeqNo: 2573529		Prep Date: 12/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene ND 30

LCS	Sample ID: LCS-54011-54011				Units: µg/Kg		Analysis Date: 12/10/2013 12:54 PM			
Client ID:	Run ID: VMS6_131210A			SeqNo: 2573525		Prep Date: 12/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 988.5 30 1000 0 98.8 75-125 0

MS	Sample ID: 1312357-12B MS				Units: µg/Kg		Analysis Date: 12/11/2013 10:25 PM			
Client ID:	Run ID: VMS6_131211A			SeqNo: 2575755		Prep Date: 12/3/2013		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 95700 3,000 100000 0 95.7 75-125 0

MS	Sample ID: 1312438-02A MS				Units: µg/Kg		Analysis Date: 12/11/2013 08:52 PM			
Client ID:	Run ID: VMS8_131211A			SeqNo: 2575831		Prep Date: 12/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 1603 52 1740 0 92.2 75-125 0

MSD	Sample ID: 1312357-12B MSD				Units: µg/Kg		Analysis Date: 12/11/2013 10:50 PM			
Client ID:	Run ID: VMS6_131211A			SeqNo: 2575756		Prep Date: 12/3/2013		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 93100 3,000 100000 0 93.1 75-125 95700 2.75 30

MSD	Sample ID: 1312438-02A MSD				Units: µg/Kg		Analysis Date: 12/11/2013 09:16 PM			
Client ID:	Run ID: VMS8_131211A			SeqNo: 2575832		Prep Date: 12/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 1581 52 1740 0 90.8 75-125 1603 1.42 30

The following samples were analyzed in this batch: 1312478-01A

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

Client: HRL Compliance Solutions
Work Order: 1312478
Project: WPX SG42-22 Cutting Pit 12.9.13

QC BATCH REPORT

Batch ID: **R132211** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R132211				Units: % of sample			Analysis Date: 12/10/2013 03:10 PM		
Client ID:		Run ID: MOIST_131210B				SeqNo: 2573909		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.03	0.050								J	

LCS		Sample ID: LCS-R132211				Units: % of sample			Analysis Date: 12/10/2013 03:10 PM		
Client ID:		Run ID: MOIST_131210B				SeqNo: 2573905		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: 1312452-05B DUP				Units: % of sample			Analysis Date: 12/10/2013 03:10 PM		
Client ID:		Run ID: MOIST_131210B				SeqNo: 2573899		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	18.22	0.050	0		0	0	0-0	17.15	6.05	20	

DUP		Sample ID: 1312452-07B DUP				Units: % of sample			Analysis Date: 12/10/2013 03:10 PM		
Client ID:		Run ID: MOIST_131210B				SeqNo: 2573901		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	14.55	0.050	0		0	0	0-0	14.97	2.85	20	

The following samples were analyzed in this batch:

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

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

Origin ID: RILA



Ship Date: 09DEC13
ActWgt: 65.0 LBS
CAD: 103923490/NET3430

Dims: 25 X 14 X 15 IN

127 E First Street
PARACHUTE, CO 81635

J13201305260325

Delivery Address Bar Code



SHIP TO: (616) 399-6870
Sample receiving
ALS Holland
3352 128TH AVE

BILL RECIPIENT

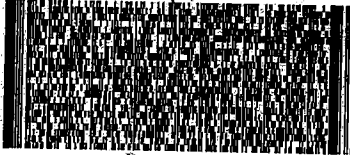
Ref # 1001-120913-1
Invoice #
PO #
Dept #

HOLLAND, MI 49424

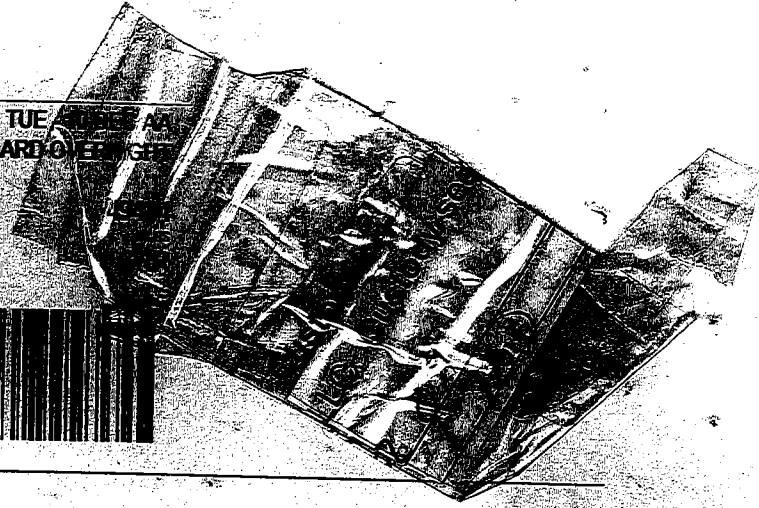
TRK# 7973 5313 1668
E2M1

TUE 12/9/13 10:00 AM
STANDARD OVERNIGHT

XX GRRR



51AG460051A8E



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **10-Dec-13 11:30**

Work Order: **1312478**

Received by: **DS**

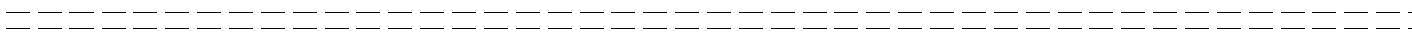
Checklist completed by Diane Shaw 10-Dec-13
eSignature Date

Reviewed by: Lee Arnold 10-Dec-13
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>12/10/2013 1:04:39 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:



16-Dec-2013

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

Re: **WPX SG 42-22 Cuttings Pit 12.11.13**

Work Order: **1312600**

Dear Mark,

ALS Environmental received 1 sample on 12-Dec-2013 08:00 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 13.

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: Les Arnold

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS Environmental logo icon consisting of a stylized green and blue shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cuttings Pit 12.11.13
Work Order: 1312600

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>
1312600-01	SG-42-22 Cuttings Pit Batch 2	Soil		12/11/2013 11:15	12/12/2013 08:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cuttings Pit 12.11.13
WorkOrder: 1312600

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cuttings Pit 12.11.13
Work Order: 1312600

Case Narrative

Batch 54113, Method ICP_6020_S, Sample 1312609-01A: The MS/MSD data is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 16-Dec-13

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cuttings Pit 12.11.13
Sample ID: SG-42-22 Cuttings Pit Batch 2
Collection Date: 12/11/2013 11:15 AM

Work Order: 1312600
Lab ID: 1312600-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 12/12/2013	Analyst: IT
DRO (C10-C28)	41		5.0	mg/Kg-dry	1	12/12/2013 06:45 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>53.1</i>		<i>39-115</i>	<i>%REC</i>	1	12/12/2013 06:45 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 12/12/2013	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	12/13/2013 02:15 AM
<i>Surr: Toluene-d8</i>	<i>107</i>		<i>50-150</i>	<i>%REC</i>	1	12/13/2013 02:15 AM
METALS BY ICP-MS			SW6020A		Prep Date: 12/12/2013	Analyst: ML
Barium	4,600		20	mg/Kg-dry	50	12/15/2013 04:31 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 12/12/2013	Analyst: BG
Benzene	84		36	µg/Kg-dry	1	12/12/2013 03:12 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>		<i>70-130</i>	<i>%REC</i>	1	12/12/2013 03:12 PM
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.0</i>		<i>70-130</i>	<i>%REC</i>	1	12/12/2013 03:12 PM
<i>Surr: Dibromofluoromethane</i>	<i>99.0</i>		<i>70-130</i>	<i>%REC</i>	1	12/12/2013 03:12 PM
<i>Surr: Toluene-d8</i>	<i>99.4</i>		<i>70-130</i>	<i>%REC</i>	1	12/12/2013 03:12 PM
MOISTURE			A2540 G			Analyst: MEB
Moisture	17		0.050	% of sample	1	12/12/2013 11:00 AM

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

Client: HRL Compliance Solutions
Work Order: 1312600
Project: WPX SG 42-22 Cuttings Pit 12.11.13

QC BATCH REPORT

Batch ID: **54099** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-54099-54099				Units: mg/Kg		Analysis Date: 12/12/2013 04:46 PM			
Client ID:		Run ID: GC8_131212A				SeqNo: 2578434		Prep Date: 12/12/2013		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									
<i>Surr: 4-Terphenyl-d14</i>	1.037	0	1.667	0	62.2	39-115	0				

LCS		Sample ID: DLCSS1-54099-54099				Units: mg/Kg		Analysis Date: 12/12/2013 05:16 PM			
Client ID:		Run ID: GC8_131212A				SeqNo: 2578435		Prep Date: 12/12/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	137.1	4.2	166.7	0	82.3	49-124	0				
<i>Surr: 4-Terphenyl-d14</i>	1.016	0	1.667	0	61	39-115	0				

MS		Sample ID: 1312600-01A MS				Units: mg/Kg		Analysis Date: 12/12/2013 05:45 PM			
Client ID: SG-42-22 Cuttings Pit Batch 2		Run ID: GC8_131212A				SeqNo: 2578436		Prep Date: 12/12/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	245.2	7.9	317.4	33.93	66.6	49-130	0				
<i>Surr: 4-Terphenyl-d14</i>	1.85	0	3.174	0	58.3	39-115	0				

MSD		Sample ID: 1312600-01A MSD				Units: mg/Kg		Analysis Date: 12/12/2013 06:15 PM			
Client ID: SG-42-22 Cuttings Pit Batch 2		Run ID: GC8_131212A				SeqNo: 2578437		Prep Date: 12/12/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	226.7	7.8	311.1	33.93	62	49-130	245.2	7.85	30		
<i>Surr: 4-Terphenyl-d14</i>	1.913	0	3.111	0	61.5	39-115	1.85	3.34	30		

The following samples were analyzed in this batch: 1312600-01A

Client: HRL Compliance Solutions
Work Order: 1312600
Project: WPX SG 42-22 Cuttings Pit 12.11.13

QC BATCH REPORT

Batch ID: **54101** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-54101-54101				Units: µg/Kg		Analysis Date: 12/12/2013 08:44 PM		
Client ID:		Run ID: GC10_131212A		SeqNo: 2578498		Prep Date: 12/12/2013		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>	5537	0	5000	0	111	50-150	0			

LCS		Sample ID: LCS-54101-54101				Units: µg/Kg		Analysis Date: 12/12/2013 07:33 PM		
Client ID:		Run ID: GC10_131212A		SeqNo: 2578497		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	530300	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	5758	0	5000	0	115	50-150	0			

The following samples were analyzed in this batch: | 1312600-01A |

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

Client: HRL Compliance Solutions
 Work Order: 1312600
 Project: WPX SG 42-22 Cuttings Pit 12.11.13

QC BATCH REPORT

Batch ID: 54113 Instrument ID ICPMS1 Method: SW6020A

MBLK		Sample ID: MBLK-54113-54113				Units: mg/Kg		Analysis Date: 12/13/2013 07:05 PM			
Client ID:		Run ID: ICPMS1_131213A			SeqNo: 2578716		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Barium 0.6 0.25

MBLK		Sample ID: MBLK-54113-54113				Units: mg/Kg		Analysis Date: 12/15/2013 03:45 PM			
Client ID:		Run ID: ICPMS1_131215A			SeqNo: 2579665		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Barium 0.0758 0.25

J

LCS		Sample ID: LCS-54113-54113				Units: mg/Kg		Analysis Date: 12/15/2013 03:51 PM			
Client ID:		Run ID: ICPMS1_131215A			SeqNo: 2579666		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Barium 5.04 0.25 5 0 101 80-120 0

MS		Sample ID: 1312609-01AMS				Units: mg/Kg		Analysis Date: 12/15/2013 05:18 PM			
Client ID:		Run ID: ICPMS1_131215A			SeqNo: 2579683		Prep Date: 12/12/2013		DF: 500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Barium 10720 170 6.702 18660 -1E+05 75-125 0 SO

MSD		Sample ID: 1312609-01AMSD				Units: mg/Kg		Analysis Date: 12/15/2013 05:24 PM			
Client ID:		Run ID: ICPMS1_131215A			SeqNo: 2579684		Prep Date: 12/12/2013		DF: 500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Barium 10580 170 6.623 18660 -1E+05 75-125 10720 1.32 25 SO

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions
 Work Order: 1312600
 Project: WPX SG 42-22 Cuttings Pit 12.11.13

QC BATCH REPORT

Batch ID: **54100** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-54100-54100				Units: µg/Kg		Analysis Date: 12/12/2013 02:38 PM		
Client ID:		Run ID: VMS8_131212A		SeqNo: 2577755		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
<i>Surr: 1,2-Dichloroethane-d4</i>	907	0	1000	0	90.7	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	918	0	1000	0	91.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	972.5	0	1000	0	97.2	70-130	0			
<i>Surr: Toluene-d8</i>	963.5	0	1000	0	96.4	70-130	0			

LCS		Sample ID: LCS-54100-54100				Units: µg/Kg		Analysis Date: 12/12/2013 01:00 PM		
Client ID:		Run ID: VMS8_131212A		SeqNo: 2577751		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	910	30	1000	0	91	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	926	0	1000	0	92.6	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	918.5	0	1000	0	91.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	995	0	1000	0	99.5	70-130	0			
<i>Surr: Toluene-d8</i>	965	0	1000	0	96.5	70-130	0			

MS		Sample ID: 1312565-01A MS				Units: µg/Kg		Analysis Date: 12/12/2013 09:43 PM		
Client ID:		Run ID: VMS5_131212A		SeqNo: 2577282		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1445	40	1330	0	109	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1363	0	1330	0	102	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1328	0	1330	0	99.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1330	0	1330	0	100	70-130	0			
<i>Surr: Toluene-d8</i>	1346	0	1330	0	101	70-130	0			

MSD		Sample ID: 1312565-01A MSD				Units: µg/Kg		Analysis Date: 12/12/2013 10:07 PM		
Client ID:		Run ID: VMS5_131212A		SeqNo: 2577285		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1406	40	1330	0	106	75-125	1445	2.8	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1344	0	1330	0	101	70-130	1363	1.42	30	
<i>Surr: 4-Bromofluorobenzene</i>	1318	0	1330	0	99.1	70-130	1328	0.754	30	
<i>Surr: Dibromofluoromethane</i>	1337	0	1330	0	101	70-130	1330	0.548	30	
<i>Surr: Toluene-d8</i>	1326	0	1330	0	99.8	70-130	1346	1.44	30	

The following samples were analyzed in this batch: 1312600-01A

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

Client: HRL Compliance Solutions
Work Order: 1312600
Project: WPX SG 42-22 Cuttings Pit 12.11.13

QC BATCH REPORT

Batch ID: **R132358** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R132358				Units: % of sample			Analysis Date: 12/12/2013 11:00 A		
Client ID:	Run ID: MOIST_131212A			SeqNo: 2577355		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-R132358				Units: % of sample			Analysis Date: 12/12/2013 11:00 A		
Client ID:	Run ID: MOIST_131212A			SeqNo: 2577351		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: 1312396-01B DUP				Units: % of sample			Analysis Date: 12/12/2013 11:00 A		
Client ID:	Run ID: MOIST_131212A			SeqNo: 2577329		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 70.45 0.050 0 0 0 0-0 72.03 2.22 20

DUP	Sample ID: 1312565-01C DUP				Units: % of sample			Analysis Date: 12/12/2013 11:00 A		
Client ID:	Run ID: MOIST_131212A			SeqNo: 2577339		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 9.33 0.050 0 0 0 0-0 8.83 5.51 20

The following samples were analyzed in this batch: 1312600-01A

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



ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER #	1312600
-------------	---------

PROJECT-NAME	WPX 5642-22 cuttings Pit	SAMPLER	Reed Wold					DATE	12/11/13					PAGE	1 of 1						
PROJECT No.		SITE ID	5642-22					TURNAROUND	24HR					DISPOSAL	By Lab or Return to Client						
COMPANY NAME	HRL Compliance	EDD FORMAT						DRO Leak Benzene Barium													
SEND REPORT TO	Mark Mumby	PURCHASE ORDER																			
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX																		
CITY / STATE / ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney																		
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215																		
FAX	970-243-3280	CITY / STATE / ZIP	Parachure CO 81635																		
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	PHONE	970-683-2295																		
E-MAIL		FAX																			
E-MAIL		E-MAIL	Karolina.blaney@wpenergy.com																		
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC														
1	5642-22 cuttings Pit Batch 2	SO	12/11/13	11:15	1	S		X	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: 	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Reed Wold	12/11/13	12:00
RECEIVED BY		MM	12-11	1700
RELINQUISHED BY		MM	12-11	1300
RECEIVED BY		Diane F Shaes	12/12/13	0800
RELINQUISHED BY				
RECEIVED BY				

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

Origin ID: RILA



Ship Date: 11DEC13
ActWgt: 90.0 LB
CAD: 103923490\NET3430

Dims: 25 X 14 X 15 IN

127 E First Street

PARACHUTE, CO 81635



J13201308280326

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample receiving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Delivery-Address Bar Code



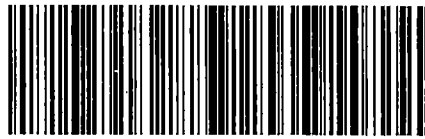
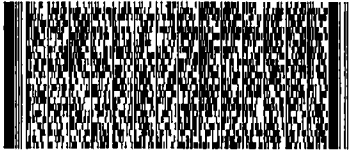
Ref # 1001-121113-1
Invoice #
PO #
Dept #

THU - 12 DEC 9:00A
FIRST OVERNIGHT

TRK# 7973 7714 8535
0201

49424
MI-US
GRR

X1 GRRR



51AC469D5148E

After printing this label:

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Lab Hub LLC. *Custody seal*

Date: 12/10/13

Time: 1:00

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **12-Dec-13 08:00**

Work Order: **1312600**

Received by: **DS**

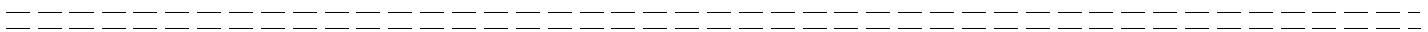
Checklist completed by Diane Shaw 12-Dec-13
eSignature Date

Reviewed by: Ann Preston 13-Dec-13
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/12/2013 8:46:35 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:



26-Dec-2013

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

Re: **WPX SG 42-22 Cutting Pit 12.17.13**

Work Order: **1312923**

Dear Mark,

ALS Environmental received 1 sample on 18-Dec-2013 11:30 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 13.

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: Les Arnold

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cutting Pit 12.17.13
Work Order: 1312923

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>
1312923-01	SG 42-44 Cuttings Batch 3	Soil		12/17/2013 16:30	12/18/2013 11:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cutting Pit 12.17.13
WorkOrder: 1312923

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cutting Pit 12.17.13
Work Order: 1312923

Case Narrative

Batch 54324, Method ICP_6020_S, Sample 1312949-06C: Batch MS/MSD data is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 26-Dec-13

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Cutting Pit 12.17.13
Sample ID: SG 42-44 Cuttings Batch 3
Collection Date: 12/17/2013 04:30 PM

Work Order: 1312923
Lab ID: 1312923-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 12/19/2013	Analyst: CW
DRO (C10-C28)	43		5.0	mg/Kg-dry	1	12/20/2013 05:46 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>58.4</i>		<i>39-115</i>	<i>%REC</i>	1	12/20/2013 05:46 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep Date: 12/18/2013	Analyst: CW
GRO (C6-C10)	ND		3.1	mg/Kg-dry	1	12/19/2013 06:04 AM
<i>Surr: Toluene-d8</i>	<i>111</i>		<i>50-150</i>	<i>%REC</i>	1	12/19/2013 06:04 AM
METALS BY ICP-MS			SW6020A		Prep Date: 12/20/2013	Analyst: RH
Barium	4,300		210	mg/Kg-dry	500	12/22/2013 06:41 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 12/12/2013	Analyst: BG
Benzene	ND		37	µg/Kg-dry	1	12/20/2013 02:11 PM
MOISTURE			A2540 G			Analyst: MEB
Moisture	19		0.050	% of sample	1	12/18/2013 07:35 PM

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

Client: HRL Compliance Solutions
Work Order: 1312923
Project: WPX SG 42-22 Cutting Pit 12.17.13

QC BATCH REPORT

Batch ID: **54319** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-54319-54319				Units: mg/Kg		Analysis Date: 12/20/2013 03:20 A		
Client ID:		Run ID: GC8_131219C				SeqNo: 2589696		Prep Date: 12/19/2013		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								
<i>Surr: 4-Terphenyl-d14</i>	1.048	0	1.667	0	62.9	39-115	0			

LCS		Sample ID: DLCSS1-54319-54319				Units: mg/Kg		Analysis Date: 12/20/2013 03:50 A		
Client ID:		Run ID: GC8_131219C				SeqNo: 2589697		Prep Date: 12/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	138.5	4.2	166.7	0	83.1	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	1.11	0	1.667	0	66.6	39-115	0			

MS		Sample ID: 1312949-06C MS				Units: mg/Kg		Analysis Date: 12/20/2013 04:20 A		
Client ID:		Run ID: GC8_131219C				SeqNo: 2589698		Prep Date: 12/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	380.3	12	463.8	0	82	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	2.927	0	4.638	0	63.1	39-115	0			

MSD		Sample ID: 1312949-06C MSD				Units: mg/Kg		Analysis Date: 12/20/2013 04:50 A		
Client ID:		Run ID: GC8_131219C				SeqNo: 2589699		Prep Date: 12/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	395.9	12	478.4	0	82.8	49-130	380.3	4.03	30	
<i>Surr: 4-Terphenyl-d14</i>	3.042	0	4.784	0	63.6	39-115	2.927	3.88	30	

The following samples were analyzed in this batch: 1312923-01A

Client: HRL Compliance Solutions
Work Order: 1312923
Project: WPX SG 42-22 Cutting Pit 12.17.13

QC BATCH REPORT

Batch ID: **54261** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-54261-54261				Units: µg/Kg		Analysis Date: 12/18/2013 10:12 PM		
Client ID:		Run ID: GC10_131218B				SeqNo: 2586327		Prep Date: 12/18/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	<i>5442</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>109</i>	<i>50-150</i>	<i>0</i>			

LCS		Sample ID: LCS-54261-54261				Units: µg/Kg		Analysis Date: 12/18/2013 09:01 PM		
Client ID:		Run ID: GC10_131218B				SeqNo: 2586326		Prep Date: 12/18/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	431500	2,500	500000	0	86.3	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5452</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>109</i>	<i>50-150</i>	<i>0</i>			

MS		Sample ID: 1312759-03A MS				Units: µg/Kg		Analysis Date: 12/19/2013 07:15 A		
Client ID:		Run ID: GC10_131218B				SeqNo: 2586335		Prep Date: 12/18/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	417400	2,500	500000	0	83.5	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5610</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>112</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1312759-03A MSD				Units: µg/Kg		Analysis Date: 12/19/2013 07:39 A		
Client ID:		Run ID: GC10_131218B				SeqNo: 2586336		Prep Date: 12/18/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	412800	2,500	500000	0	82.6	70-130	417400	1.11	30	
<i>Surr: Toluene-d8</i>	<i>5732</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>115</i>	<i>50-150</i>	<i>5610</i>	<i>2.16</i>	<i>30</i>	

The following samples were analyzed in this batch: 1312923-01A

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

Client: HRL Compliance Solutions
 Work Order: 1312923
 Project: WPX SG 42-22 Cutting Pit 12.17.13

QC BATCH REPORT

Batch ID: **54324** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-54324-54324				Units: mg/Kg		Analysis Date: 12/20/2013 04:33 PM			
Client ID:	Run ID: ICPMS1_131220A			SeqNo: 2589990		Prep Date: 12/20/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Barium ND 0.25

LCS	Sample ID: LCS-54324-54324				Units: mg/Kg		Analysis Date: 12/20/2013 04:45 PM			
Client ID:	Run ID: ICPMS1_131220A			SeqNo: 2589991		Prep Date: 12/20/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Barium 4.876 0.25 5 0 97.5 80-120 0

MS	Sample ID: 1312949-06CMS				Units: mg/Kg		Analysis Date: 12/20/2013 07:36 PM			
Client ID:	Run ID: ICPMS1_131220A			SeqNo: 2590018		Prep Date: 12/20/2013		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Barium 105.1 1.8 7.353 88.64 224 75-125 0 SO

MSD	Sample ID: 1312949-06CMSD				Units: mg/Kg		Analysis Date: 12/20/2013 07:41 PM			
Client ID:	Run ID: ICPMS1_131220A			SeqNo: 2590019		Prep Date: 12/20/2013		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Barium 100.2 1.9 7.452 88.64 155 75-125 105.1 4.8 25 SO

The following samples were analyzed in this batch: 1312923-01A

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

Client: HRL Compliance Solutions
Work Order: 1312923
Project: WPX SG 42-22 Cutting Pit 12.17.13

QC BATCH REPORT

Batch ID: **54254** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-54254-54254				Units: µg/Kg		Analysis Date: 12/18/2013 04:13 PM		
Client ID:		Run ID: VMS8_131218A		SeqNo: 2586219		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								

LCS		Sample ID: LCS-54254-54254				Units: µg/Kg		Analysis Date: 12/18/2013 02:12 PM		
Client ID:		Run ID: VMS8_131218A		SeqNo: 2586217		Prep Date: 12/12/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	903.5	30	1000	0	90.4	75-125	0			

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions
 Work Order: 1312923
 Project: WPX SG 42-22 Cutting Pit 12.17.13

QC BATCH REPORT

Batch ID: **R132778** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R132778		Units: % of sample				Analysis Date: 12/18/2013 07:35 PM			
Client ID:	Run ID: MOIST_131218D		SeqNo: 2586998		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-R132778		Units: % of sample				Analysis Date: 12/18/2013 07:35 PM			
Client ID:	Run ID: MOIST_131218D		SeqNo: 2586989		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: 1312775-13A DUP		Units: % of sample				Analysis Date: 12/18/2013 07:35 PM			
Client ID:	Run ID: MOIST_131218D		SeqNo: 2586964		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 7.81 0.050 0 0 0 0-0 7.92 1.4 20

DUP	Sample ID: 1312775-23A DUP		Units: % of sample				Analysis Date: 12/18/2013 07:35 PM			
Client ID:	Run ID: MOIST_131218D		SeqNo: 2586975		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 10.56 17.9 20

The following samples were analyzed in this batch: 1312923-01A



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 #	1312923
-------------	---------

PROJECT NAME	WPX <i>SG42-22 cutting pit</i>	SAMPLER	Reed Wold				DATE	12/17/13				PAGE	1 of 1			
PROJECT No.		SITE ID	<i>SG42-22</i>				TURNAROUND	<i>3 day</i>				DISPOSAL	<i>By Lab</i> or Return to Client			
COMPANY NAME	HRL Compliance	EDD FORMAT					<i>Dro</i> <i>Barium</i> <i>Benzene</i>									
SEND REPORT TO	Mark Mumby	PURCHASE ORDER														
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX													
CITY / STATE / ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney													
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215													
FAX	970-243-3280	CITY / STATE / ZIP	Parachure CO 81635													
E-MAIL	<i>mmumby@hrlcomp.com</i> <i>rwold@hrlcomp.com</i>	PHONE	970-683-2295													
		E-MAIL	<i>Karolina.blaney@wpxenergy.com</i>													
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC									
<i>1</i>	<i>SG42-22 cuttings Batch 3</i>	<i>SO</i>	<i>12/17/13</i>	<i>4:30</i>	<i>1</i>	<i>8</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>3.6²</i> 	QC PACKAGE (check below)	
		X	LEVEL II (Standard QC)
			LEVEL III (Std QC + forms)
			LEVEL IV (Std QC + forms + raw data)

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Reed Wold</i>	Reed Wold	12/17/13	5:00
RECEIVED BY	<i>WJM</i>	WJM	12-17	5:00
RELINQUISHED BY	<i>WJM</i>	WJM	12-17	1:50
RECEIVED BY	<i>Diane F. Shaw</i>	Diane F. Shaw	12/18/13	11:30
RELINQUISHED BY				
RECEIVED BY				

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

Origin ID: RILA



Ship Date: 17DEC13
 ActWgt: 50.0 LB
 CAD: 103923490/NET3430
 Dims: 25 X 14 X 15 IN

Delivery Address Bar Code



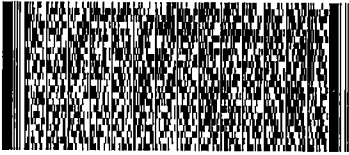
SHIP TO: (616) 399-6070
Sample recieving
ALS Holland
3352 128TH AVE
HOLLAND, MI 49424

119201308280326
 BILL RECEIPT

Ref # 1001-121713-1
 Invoice #
 PO #
 Dept #

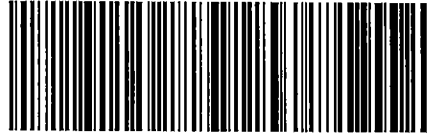
WED - 18 DEC 10:30A
 PRIORITY OVERNIGHT

TRK# 7974 3634 2384
 0201



XX GRRR

49424
 MI-US
 GRR



51AG466DS1A8E

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.
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Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **18-Dec-13 11:30**

Work Order: **1312923**

Received by: **DS**

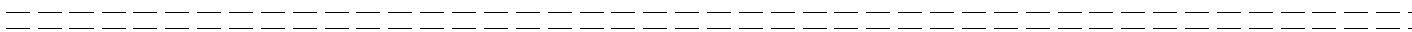
Checklist completed by Diane Shaw 18-Dec-13
eSignature Date

Reviewed by: Ann Preston 21-Dec-13
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.6 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/18/2013 1:35:07 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:



14-Jan-2014

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

Re: **WPX SG 42-22 Batch 4 Cuttings 1.6.14**

Work Order: **1401173**

Dear Mark,

ALS Environmental received 1 sample on 08-Jan-2014 01:00 PM for the analyses presented in the following report.

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

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

The total number of pages in this report is 13.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS Environmental logo icon consisting of a stylized green and blue shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14
Work Order: 1401173

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>
1401173-01	Batch 4	Soil		1/6/2014 14:40	1/8/2014 13:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14
Work Order: 1401173

Case Narrative

Batch 54757 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 54805 MS/MSD data for Barium is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14
WorkOrder: 1401173

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 14-Jan-14

Client: HRL Compliance Solutions
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14
Sample ID: Batch 4
Collection Date: 1/6/2014 02:40 PM

Work Order: 1401173
Lab ID: 1401173-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	190		5.2	mg/Kg-dry	1	1/9/2014 07:37 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>60.5</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	<i>1/9/2014 07:37 PM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	34		3.1	mg/Kg-dry	1	1/9/2014 02:34 PM
<i>Surr: Toluene-d8</i>	<i>103</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	<i>1/9/2014 02:34 PM</i>
METALS BY ICP-MS						
Barium	12,000		480	mg/Kg-dry	1000	1/14/2014 02:55 AM
VOLATILE ORGANIC COMPOUNDS						
Benzene	1,200		37	µg/Kg-dry	1	1/9/2014 04:15 PM
MOISTURE						
Moisture	20		0.050	% of sample	1	1/8/2014 01:08 PM

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

Client: HRL Compliance Solutions
Work Order: 1401173
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14

QC BATCH REPORT

Batch ID: **54757** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-54757-54757				Units: mg/Kg		Analysis Date: 1/9/2014 04:37 PM			
Client ID:		Run ID: GC8_140109A				SeqNo: 2607467		Prep Date: 1/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	ND	4.2									
<i>Surr: 4-Terphenyl-d14</i>	0.9233	0	1.667	0	55.4	39-115	0				

LCS		Sample ID: DLCSS1-54757-54757				Units: mg/Kg		Analysis Date: 1/9/2014 05:07 PM			
Client ID:		Run ID: GC8_140109A				SeqNo: 2607468		Prep Date: 1/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	164	4.2	166.7	0	98.4	49-124	0				
<i>Surr: 4-Terphenyl-d14</i>	0.9627	0	1.667	0	57.8	39-115	0				

MS		Sample ID: 1401175-01B MS				Units: mg/Kg		Analysis Date: 1/9/2014 05:37 PM			
Client ID:		Run ID: GC8_140109A				SeqNo: 2607469		Prep Date: 1/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	2295	8.1	325.5	1846	138	49-130	0			SO	
<i>Surr: 4-Terphenyl-d14</i>	9.602	0	3.255	0	295	39-115	0			S	

MSD		Sample ID: 1401175-01B MSD				Units: mg/Kg		Analysis Date: 1/9/2014 06:07 PM			
Client ID:		Run ID: GC8_140109A				SeqNo: 2607470		Prep Date: 1/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	1269	8.0	320	1846	-180	49-130	2295	57.6	30	SRO	
<i>Surr: 4-Terphenyl-d14</i>	6.674	0	3.2	0	209	39-115	9.602	36	30	SR	

The following samples were analyzed in this batch: | 1401173-01A |

Client: HRL Compliance Solutions
 Work Order: 1401173
 Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14

QC BATCH REPORT

Batch ID: **54759** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MBLK-54759-54759				Units: µg/Kg		Analysis Date: 1/9/2014 02:10 PM		
Client ID:		Run ID: GC10_140109A				SeqNo: 2607275		Prep Date: 1/3/2014		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>	5572	0	5000	0	111	50-150	0			

LCS		Sample ID: LCS-54759-54759				Units: µg/Kg		Analysis Date: 1/9/2014 12:57 PM		
Client ID:		Run ID: GC10_140109A				SeqNo: 2607274		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	507000	2,500	500000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	5046	0	5000	0	101	50-150	0			

MS		Sample ID: 1401175-01A MS				Units: µg/Kg		Analysis Date: 1/9/2014 07:47 PM		
Client ID:		Run ID: GC10_140109A				SeqNo: 2607278		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	489000	2,500	500000	27080	92.4	70-130	0			
<i>Surr: Toluene-d8</i>	4820	0	5000	0	96.4	50-150	0			

MSD		Sample ID: 1401175-01A MSD				Units: µg/Kg		Analysis Date: 1/9/2014 08:11 PM		
Client ID:		Run ID: GC10_140109A				SeqNo: 2607279		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	485600	2,500	500000	27080	91.7	70-130	489000	0.703	30	
<i>Surr: Toluene-d8</i>	4678	0	5000	0	93.6	50-150	4820	3	30	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions
Work Order: 1401173
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14

QC BATCH REPORT

Batch ID: **54805** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-54805-54805				Units: mg/Kg		Analysis Date: 1/10/2014 09:51 PM			
Client ID:		Run ID: ICPMS1_140110A				SeqNo: 2608170		Prep Date: 1/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.03382	0.25								J	

LCS		Sample ID: LCS-54805-54805				Units: mg/Kg		Analysis Date: 1/10/2014 10:15 PM			
Client ID:		Run ID: ICPMS1_140110A				SeqNo: 2608174		Prep Date: 1/10/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	4.586	0.25	5	0	91.7	80-120	0				

MSD		Sample ID: 1401227-09BMSD				Units: mg/Kg		Analysis Date: 1/14/2014 06:40 AM			
Client ID:		Run ID: ICPMS1_140113A				SeqNo: 2609355		Prep Date: 1/10/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	144.2	2.0	7.862	108.1	459	75-125	164.1	12.9	25	SO	

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions
Work Order: 1401173
Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14

QC BATCH REPORT

Batch ID: **54758** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-54758-54758				Units: µg/Kg		Analysis Date: 1/10/2014 02:44 PM		
Client ID:		Run ID: VMS8_140110A				SeqNo: 2608248		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene ND 30

LCS		Sample ID: LCS-54758-54758				Units: µg/Kg		Analysis Date: 1/10/2014 12:42 PM		
Client ID:		Run ID: VMS8_140110A				SeqNo: 2608246		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 896 30 1000 0 89.6 75-125 0

MS		Sample ID: 1401227-11A MS				Units: µg/Kg		Analysis Date: 1/10/2014 07:32 PM		
Client ID:		Run ID: VMS8_140110A				SeqNo: 2608256		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 1534 30 1000 556 97.8 75-125 0

MSD		Sample ID: 1401227-11A MSD				Units: µg/Kg		Analysis Date: 1/10/2014 07:56 PM		
Client ID:		Run ID: VMS8_140110A				SeqNo: 2608257		Prep Date: 1/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene 1498 30 1000 556 94.2 75-125 1534 2.34 30

The following samples were analyzed in this batch: 1401173-01A

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

Client: HRL Compliance Solutions
 Work Order: 1401173
 Project: WPX SG 42-22 Batch 4 Cuttings 1.6.14

QC BATCH REPORT

Batch ID: **R133707** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R133707				Units: % of sample			Analysis Date: 1/8/2014 01:08 PM		
Client ID:	Run ID: MOIST_140108C			SeqNo: 2606530		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-R133707				Units: % of sample			Analysis Date: 1/8/2014 01:08 PM		
Client ID:	Run ID: MOIST_140108C			SeqNo: 2606529		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: 13121158-03A DUP				Units: % of sample			Analysis Date: 1/8/2014 01:08 PM		
Client ID:	Run ID: MOIST_140108C			SeqNo: 2606522		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.94 0.050 0 0 0 0-0 6.71 3.37 20 H

DUP	Sample ID: 1401175-01B DUP				Units: % of sample			Analysis Date: 1/8/2014 01:08 PM		
Client ID:	Run ID: MOIST_140108C			SeqNo: 2606525		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 22.89 0.050 0 0 0 0-0 21.8 4.88 20

The following samples were analyzed in this batch:

1401173-01A

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **08-Jan-14 13:00**

Work Order: **1401173**

Received by: **AB**

Checklist completed by *Ashley Beard* 08-Jan-14
eSignature Date

Reviewed by: *Ann Preston* 09-Jan-14
eSignature Date

Matrices: soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.2°C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>1/8/2014 1:34:42 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: (970) 424-4749
Lab Hub, LLC
127 E First Street
PARACHUTE, CO 81635

Origin ID: RILA



Ship Date: 06JAN14
Act/Vol: 38.0 LB
CAD: 103923490/NET3430
Dims: 13 X 23 X 16 IN

Delivery Address Bar Code



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

BILL RECIPIENT

Ref # 1001-010614-1
Invoice #
PO #
Dept #

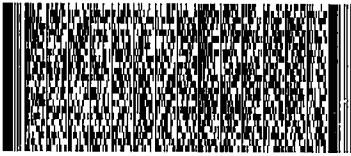
HOLLAND, MI 49424

TUE - 07 JAN AA
STANDARD OVERNIGHT

TRK# 7975 6266 3108
0201

49424
MI-US
GRR

XX GRR



51AG1C6EC1AGE

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Lab Hub LLC. Custody seal

Date: 1/6/14

Time: 1:00

C.E.



13-Jun-2014

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

Re: **WPX SG 42-22 Cuttings 6.6.14**

Work Order: **1406421**

Dear Mark,

ALS Environmental received 1 sample on 09-Jun-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Cuttings 6.6.14
Work Order: 1406421

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>
1406421-01	Batch 4	Soil		6/6/2014 13:45	6/9/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Cuttings 6.6.14
WorkOrder: 1406421

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 13-Jun-14

Client: HRL Compliance Solutions, Inc

Project: WPX SG 42-22 Cuttings 6.6.14

Sample ID: Batch 4

Collection Date: 6/6/2014 01:45 PM

Work Order: 1406421

Lab ID: 1406421-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 6/9/14	Analyst: RS
Benzene	ND		36	µg/Kg-dry	1	6/9/2014 06:34 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	6/9/2014 06:34 PM
Surr: 4-Bromofluorobenzene	87.3		70-130	%REC	1	6/9/2014 06:34 PM
Surr: Dibromofluoromethane	96.8		70-130	%REC	1	6/9/2014 06:34 PM
Surr: Toluene-d8	91.6		70-130	%REC	1	6/9/2014 06:34 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	6/9/2014 07:29 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406421
Project: WPX SG 42-22 Cuttings 6.6.14

QC BATCH REPORT

Batch ID: **59475** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-59475-59475			Units: µg/Kg			Analysis Date: 6/9/2014 01:00 PM		
Client ID:		Run ID: VMS8_140609A			SeqNo: 2801374			Prep Date: 6/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
<i>Surr: 1,2-Dichloroethane-d4</i>	840	0	1000	0	84	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	885	0	1000	0	88.5	70-130	0			
<i>Surr: Dibromofluoromethane</i>	891	0	1000	0	89.1	70-130	0			
<i>Surr: Toluene-d8</i>	925.5	0	1000	0	92.6	70-130	0			

LCS		Sample ID: LCS-59475-59475			Units: µg/Kg			Analysis Date: 6/9/2014 10:31 AM		
Client ID:		Run ID: VMS8_140609A			SeqNo: 2801369			Prep Date: 6/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	949	30	1000	0	94.9	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	856	0	1000	0	85.6	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	908	0	1000	0	90.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	938.5	0	1000	0	93.8	70-130	0			
<i>Surr: Toluene-d8</i>	921.5	0	1000	0	92.2	70-130	0			

MS		Sample ID: 1406381-02A MS			Units: µg/Kg			Analysis Date: 6/10/2014 08:40 PM		
Client ID:		Run ID: VMS7_140610A			SeqNo: 2803581			Prep Date: 6/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1006	30	1000	0	101	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	943	0	1000	0	94.3	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	994	0	1000	0	99.4	70-130	0			
<i>Surr: Dibromofluoromethane</i>	965.5	0	1000	0	96.6	70-130	0			
<i>Surr: Toluene-d8</i>	949	0	1000	0	94.9	70-130	0			

MSD		Sample ID: 1406381-02A MSD			Units: µg/Kg			Analysis Date: 6/10/2014 09:06 PM		
Client ID:		Run ID: VMS7_140610A			SeqNo: 2803582			Prep Date: 6/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1006	30	1000	0	101	75-125	1006	0.0497	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	958	0	1000	0	95.8	70-130	943	1.58	30	
<i>Surr: 4-Bromofluorobenzene</i>	1016	0	1000	0	102	70-130	994	2.24	30	
<i>Surr: Dibromofluoromethane</i>	972.5	0	1000	0	97.2	70-130	965.5	0.722	30	
<i>Surr: Toluene-d8</i>	972	0	1000	0	97.2	70-130	949	2.39	30	

The following samples were analyzed in this batch: 1406421-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1406421
Project: WPX SG 42-22 Cuttings 6.6.14

QC BATCH REPORT

Batch ID: **R142389** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R142389				Units: % of sample		Analysis Date: 6/9/2014 07:29 PM		
Client ID:		Run ID: MOIST_140609I			SeqNo: 2802836		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-R142389				Units: % of sample		Analysis Date: 6/9/2014 07:29 PM		
Client ID:		Run ID: MOIST_140609I			SeqNo: 2802835		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1406295-01A DUP				Units: % of sample		Analysis Date: 6/9/2014 07:29 PM		
Client ID:		Run ID: MOIST_140609I			SeqNo: 2802832		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 93.92 0.050 0 0 0 0-0 93.82 0.107 20

The following samples were analyzed in this batch:

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **09-Jun-14 10:00**

Work Order: **1406421**

Received by: **DS**

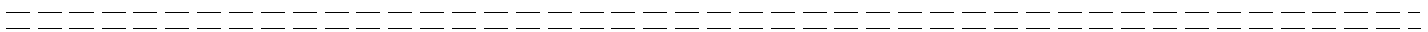
Checklist completed by Diane Shaw 09-Jun-14
eSignature Date

Reviewed by: Chad Whelton 10-Jun-14
eSignature Date

Matrices: **Soil**
 Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="19.2 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="6/9/2014 2:00:29 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



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

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (979) 285-5783
Nick Martinez
ALS Environmental
127 E. 1st Street
PARACHUTE, CO 81635

Origin ID: RLA



Ship Date: 06JUN14
ActWgt: 55.0 LB
CAD: 22848409NET3490
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



BHP TO: (616) 399-6970
Sample receiving
ALS Laboratory Group
3352 128TH AVE

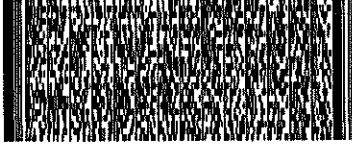
BILL SENDER

Ref # 050814-1
Invoice #
PO # Parachute
Dept #

HOLLAND, MI 49424

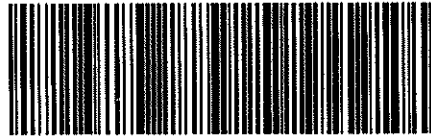
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7702 2751 2314
0201



X0 GRRR

49424
MI-US
GRR



022058BC4F720

After printing this label:

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

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

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



25-Jun-2014

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

Re: **WPX SG 42-22 Batch 5 6.20.14**

Work Order: **14061151**

Dear Mark,

ALS Environmental received 1 sample on 21-Jun-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 13.

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Batch 5 6.20.14
Work Order: 14061151

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>
14061151-01	Batch 5	Soil		6/20/2014 14:45	6/21/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Batch 5 6.20.14
Work Order: 14061151

Case Narrative

Batch 59971 MS/MSD data for Barium is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Batch 5 6.20.14
WorkOrder: 14061151

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

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

ALS Group USA, Corp

Date: 25-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX SG 42-22 Batch 5 6.20.14
Sample ID: Batch 5
Collection Date: 6/20/2014 02:45 PM

Work Order: 14061151
Lab ID: 14061151-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 6/23/14	Analyst: IT
DRO (C10-C28)	29		4.8	mg/Kg-dry	1	6/24/2014 12:33 PM
<i>Surr: 4-Terphenyl-d14</i>	70.9		39-133	%REC	1	6/24/2014 12:33 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 6/23/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	6/24/2014 12:46 PM
<i>Surr: Toluene-d8</i>	114		50-150	%REC	1	6/24/2014 12:46 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 6/23/14	Analyst: ML
Barium	2,300		19	mg/Kg-dry	50	6/25/2014 12:21 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 6/23/14	Analyst: AK
Benzene	120		35	µg/Kg-dry	1	6/23/2014 03:09 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	94.4		70-130	%REC	1	6/23/2014 03:09 PM
<i>Surr: 4-Bromofluorobenzene</i>	101		70-130	%REC	1	6/23/2014 03:09 PM
<i>Surr: Dibromofluoromethane</i>	96.0		70-130	%REC	1	6/23/2014 03:09 PM
<i>Surr: Toluene-d8</i>	97.8		70-130	%REC	1	6/23/2014 03:09 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	15		0.050	% of sample	1	6/23/2014 10:10 AM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14061151
Project: WPX SG 42-22 Batch 5 6.20.14

QC BATCH REPORT

Batch ID: **59943** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-59943-59943				Units: mg/Kg		Analysis Date: 6/24/2014 10:33 AM		
Client ID:		Run ID: GC8_140624A		SeqNo: 2823168		Prep Date: 6/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.565	0	1.667	0	93.9	39-133	0			

LCS		Sample ID: DLCSS1-59943-59943				Units: mg/Kg		Analysis Date: 6/24/2014 11:03 AM		
Client ID:		Run ID: GC8_140624A		SeqNo: 2823169		Prep Date: 6/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.8	4.2	166.7	0	80.9	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.388	0	1.667	0	83.3	39-133	0			

MS		Sample ID: 14061151-01A MS				Units: mg/Kg		Analysis Date: 6/24/2014 11:33 AM		
Client ID: Batch 5		Run ID: GC8_140624A		SeqNo: 2823170		Prep Date: 6/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	252.8	8.1	324.4	24.54	70.4	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.231	0	3.244	0	68.8	39-133	0			

MSD		Sample ID: 14061151-01A MSD				Units: mg/Kg		Analysis Date: 6/24/2014 12:03 PM		
Client ID: Batch 5		Run ID: GC8_140624A		SeqNo: 2823171		Prep Date: 6/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	247.6	7.9	317.5	24.54	70.2	48-110	252.8	2.11	30	
<i>Surr: 4-Terphenyl-d14</i>	2.105	0	3.175	0	66.3	39-133	2.231	5.82	30	

The following samples were analyzed in this batch: 14061151-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 14061151
 Project: WPX SG 42-22 Batch 5 6.20.14

QC BATCH REPORT

Batch ID: **59947** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-59947-59947				Units: µg/Kg		Analysis Date: 6/23/2014 05:52 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821620		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	5212	0	5000	0	104	50-150	0			

LCS		Sample ID: LCS-59947-59947				Units: µg/Kg		Analysis Date: 6/23/2014 05:26 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821618		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	468700	2,500	500000	0	93.7	70-130	0			
<i>Surr: Toluene-d8</i>	6051	0	5000	0	121	50-150	0			

MS		Sample ID: 14061155-01A MS				Units: µg/Kg		Analysis Date: 6/23/2014 06:44 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821624		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	494100	2,500	500000	28670	93.1	70-130	0			
<i>Surr: Toluene-d8</i>	6065	0	5000	0	121	50-150	0			

MSD		Sample ID: 14061155-01A MSD				Units: µg/Kg		Analysis Date: 6/23/2014 07:10 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821626		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	485200	2,500	500000	28670	91.3	70-130	494100	1.82	30	
<i>Surr: Toluene-d8</i>	6054	0	5000	0	121	50-150	6065	0.19	30	

The following samples were analyzed in this batch:

14061151-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 14061151
 Project: WPX SG 42-22 Batch 5 6.20.14

QC BATCH REPORT

Batch ID: 59971 Instrument ID ICPMS1 Method: SW6020A

MBLK		Sample ID: MBLK-59971-59971				Units: mg/Kg		Analysis Date: 6/25/2014 10:58 AM			
Client ID:		Run ID: ICPMS1_140624A				SeqNo: 2823621		Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.05385	0.25								J	

LCS		Sample ID: LCS-59971-59971				Units: mg/Kg		Analysis Date: 6/25/2014 11:04 AM			
Client ID:		Run ID: ICPMS1_140624A				SeqNo: 2823622		Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	4.9	0.25	5	0	98	80-120	0				

MS		Sample ID: 14061172-02AMS				Units: mg/Kg		Analysis Date: 6/24/2014 08:38 PM			
Client ID:		Run ID: ICPMS1_140624A				SeqNo: 2822893		Prep Date: 6/23/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	85.93	1.4	6.766	74.74	165	75-125	0			SO	

MSD		Sample ID: 14061172-02AMSD				Units: mg/Kg		Analysis Date: 6/24/2014 08:44 PM			
Client ID:		Run ID: ICPMS1_140624A				SeqNo: 2822894		Prep Date: 6/23/2014		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	102.5	1.4	6.766	74.74	410	75-125	85.93	17.6	25	SO	

The following samples were analyzed in this batch:

14061151-01A

Client: HRL Compliance Solutions, Inc
Work Order: 14061151
Project: WPX SG 42-22 Batch 5 6.20.14

QC BATCH REPORT

Batch ID: **59945** Instrument ID **VMS9** Method: **SW8260B**

MBLK		Sample ID: MBLK-59945-59945				Units: µg/Kg		Analysis Date: 6/23/2014 02:57 PM		
Client ID:		Run ID: VMS9_140623A		SeqNo: 2821203		Prep Date: 6/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
<i>Surr: 1,2-Dichloroethane-d4</i>	1034	0	1000	0	103	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	878	0	1000	0	87.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	957	0	1000	0	95.7	70-130	0			
<i>Surr: Toluene-d8</i>	919.5	0	1000	0	92	70-130	0			

LCS		Sample ID: LCS-59945-59945				Units: µg/Kg		Analysis Date: 6/23/2014 12:28 PM		
Client ID:		Run ID: VMS9_140623A		SeqNo: 2821202		Prep Date: 6/23/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1070	30	1000	0	107	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	956.5	0	1000	0	95.6	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1049	0	1000	0	105	70-130	0			
<i>Surr: Dibromofluoromethane</i>	908	0	1000	0	90.8	70-130	0			
<i>Surr: Toluene-d8</i>	991.5	0	1000	0	99.2	70-130	0			

The following samples were analyzed in this batch:

14061151-01A

Client: HRL Compliance Solutions, Inc
Work Order: 14061151
Project: WPX SG 42-22 Batch 5 6.20.14

QC BATCH REPORT

Batch ID: **R143225** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R143225				Units: % of sample			Analysis Date: 6/23/2014 10:10 AM		
Client ID:	Run ID: MOIST_140623A			SeqNo: 2821516		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-R143225				Units: % of sample			Analysis Date: 6/23/2014 10:10 AM		
Client ID:	Run ID: MOIST_140623A			SeqNo: 2821514		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: 14061125-02A DUP				Units: % of sample			Analysis Date: 6/23/2014 10:10 AM		
Client ID:	Run ID: MOIST_140623A			SeqNo: 2821481		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.73 0.050 0 0 0 0-0 3.66 1.89 20

DUP	Sample ID: 14061125-07A DUP				Units: % of sample			Analysis Date: 6/23/2014 10:10 AM		
Client ID:	Run ID: MOIST_140623A			SeqNo: 2821501		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 15.37 0.050 0 0 0 0-0 16.61 7.75 20

The following samples were analyzed in this batch:

14061151-01A



ALS Laboratory Group

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

Chain-of-Custody

WORKORDER #	14061151
-------------	----------

Form 202r8

PROJECT NAME	WPX SG 42-22 Batch 10	SAMPLER	Reed Wold	DATE	6/20/14	PAGE	1 of 1
PROJECT No.		SITE ID	SG 42-22	TURNAROUND	24 HR	DISPOSAL	By Lab or Return to Client
COMPANY NAME	HRL Compliance	EDD FORMAT					
SEND REPORT TO	Mark Mumby	PURCHASE ORDER					
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	WPX				
CITY / STATE / ZIP	Grand Junction, CO 81506	INVOICE ATTN TO	Karolina Blaney				
PHONE	970-243-3271	ADDRESS	1058 Co Rd 215				
FAX	970-243-3280	CITY / STATE / ZIP	Parachure CO 81635				
E-MAIL	mmumby@hrlcomp.com rwold@hrlcomp.com	PHONE	970-883-2295				
		FAX					
		E-MAIL	Karolina.blaney@wpxenergy.com				

PRG/GRO
 Benzard
 Barber

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC													
1	Batch 5	SO	6/20/14	2:45	1			X	X	X										

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

For metals or anions, please detail analytes below.

Comments: 3:42	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Reed Wold	6/20/14	3:00
RECEIVED BY		M.V.R.	6/20/14	3:00
RELINQUISHED BY		N.M.	6-20	3:30
RECEIVED BY		Diane E. Shaw	6/21/14	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **21-Jun-14 10:00**

Work Order: **14061151**

Received by: **DS**

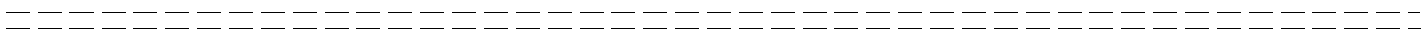
Checklist completed by Diane Shaw 23-Jun-14
eSignature Date

Reviewed by: Ann Preston 23-Jun-14
eSignature Date

Matrices: **Soil**
 Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.4 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="6/23/2014 8:16:23 AM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



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

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (978) 265-5783
Nick Marlowe
ALS Environmental
127 E. 1st Street
PARACHUTE, CO 81435

Origin ID: RLA



Ship Date: 25JUN14
Actual: 35.8 LB
CAT: 230#40RNETS400
Dim: 14 X 20 X 15 IN

Delivery Address Bar Code



Ref # 062014-1
Invoice #
PO # Parachute
Dept #

SHIP TO: (918) 399-6878
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL BENDER

HOLLAND, MI 49424

3 of 3

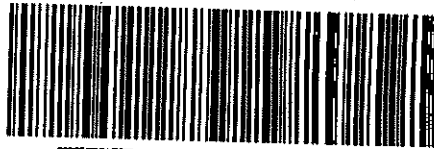
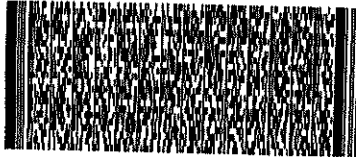
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPN 7703 7898 0147

Metri 7703 7867 0750

X0 GRR

49424
MI-US
GRR



022558CAF220

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, at your FedEx account number.
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ALS Environmental

Client: ALS
Sample ID: 12830
Date: 6/20/14
Time: 11:30
Collected By: [Signature]
Preserv: [Signature]

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Holland, MI 49424
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