

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



## SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED  
1/15/2013

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: WPX Energy Rocky Mountain LLC	Phone: 970 683 2295	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970 285 9573	
5. API Number 05-103-10937	OGCC Facility ID Number 335724	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number RGU 33-24-198	Directional Survey
8. Location (Qtr, Sec, Twp, Rng, Meridian): NWSE S24 T15 R98W 6PM		Surface Eqmpt Diagram
9. County: Rio Blanco	10. Field Name: Ryan Gulch	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

## General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
	Unit configuration
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	NUMBER
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

## Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans
	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 1/15/2013 Email: Karolina.Blaney@WPXEnergy.com  
Print Name: Karolina Blaney Title: Environmental Specialist

OGCC Approved: Chris Canfield Title: FOR Date: 01/24/2013  
CONDITIONS OF APPROVAL, IF ANY:

Background  
Arden  
OK ✓

Chris Canfield  
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: \_\_\_\_\_ API Number: \_\_\_\_\_

2. Name of Operator: \_\_\_\_\_ OGCC Facility ID # \_\_\_\_\_

3. Well/Facility Name: \_\_\_\_\_ Well/Facility Number: \_\_\_\_\_

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): \_\_\_\_\_

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS



## Legend

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

**RGU 33-24-198**  
**Arsenic Background Sample Location Map**  
**T1S R98W, Section 24**

**January 15, 2013**





15-Nov-2012

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

Re: **WPX RGU 33-24-198 Pit Closure 11/6/12**

Work Order: **1211286**

Dear Mark,

ALS Environmental received 1 sample on 08-Nov-2012 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.

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

The total number of pages in this report is 25.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston  
Project Manager



Certificate No: MN331938

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

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

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** HRL Compliance Solutions  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12  
**Work Order:** 1211286**Work Order Sample Summary**

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<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>
1211286-01	RGU 33-24-198 Pit Bottom	Soil		11/6/2012 12:00	11/8/2012 10:00	<input type="checkbox"/>

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**Client:** HRL Compliance Solutions  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12  
**Work Order:** 1211286

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**Case Narrative**

Batch 44681 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification. Sample 1211286-01 PAH internal standard recovery was below the lower control limit, but >20%. Per the client's request, the results associated with the IS are being reported and should be considered as estimated for the compounds marked with an asterisk.

Batch 44682 sample 1211286-01 DRO surrogate recovery was high due to matrix interference. The sample results may be biased high.

Batch 44691 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch 44716 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 44736 MS/MSD data for Mercury is not related to this project's samples. No data requires qualification.

**Client:** HRL Compliance Solutions  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12  
**WorkOrder:** 1211286

**QUALIFIERS,  
ACRONYMS, UNITS**

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

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
µmhos/cm @25°	
none	
s.u.	Standard Units

# ALS Group USA, Corp

Date: 15-Nov-12

**Client:** HRL Compliance Solutions  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12  
**Sample ID:** RGU 33-24-198 Pit Bottom  
**Collection Date:** 11/6/2012 12:00 PM

**Work Order:** 1211286  
**Lab ID:** 1211286-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>210</b>		<b>SW8015M</b>		Prep Date: <b>11/12/2012</b>	Analyst: <b>CW</b>
			<b>4.6</b>	<b>mg/Kg-dry</b>	1	11/14/2012 04:53 AM
Surr: 4-Terphenyl-d14	369	S	39-115	%REC	1	11/14/2012 04:53 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015</b>		Prep Date: <b>11/12/2012</b>	Analyst: <b>CW</b>
			<b>2.8</b>	<b>mg/Kg-dry</b>	50	11/12/2012 10:37 PM
Surr: Toluene-d8	110		50-150	%REC	50	11/12/2012 10:37 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.026</b>		<b>SW7471</b>		Prep Date: <b>11/14/2012</b>	Analyst: <b>LR</b>
			<b>0.019</b>	<b>mg/Kg-dry</b>	1	11/14/2012 03:22 PM
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>1.9</b>		<b>SW6020A</b>		Prep Date: <b>11/13/2012</b>	Analyst: <b>CES</b>
			<b>0.80</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
<b>Barium</b>	<b>450</b>		<b>8.0</b>	<b>mg/Kg-dry</b>	20	11/14/2012 01:53 PM
Cadmium	ND		0.32	mg/Kg-dry	2	11/13/2012 09:08 PM
<b>Chromium</b>	<b>62</b>		<b>0.80</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
<b>Copper</b>	<b>10</b>		<b>0.80</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
<b>Lead</b>	<b>10</b>		<b>0.80</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
<b>Nickel</b>	<b>20</b>		<b>0.80</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
<b>Selenium</b>	<b>0.86</b>		<b>0.80</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
Silver	ND		0.80	mg/Kg-dry	2	11/13/2012 09:08 PM
<b>Zinc</b>	<b>40</b>		<b>1.6</b>	<b>mg/Kg-dry</b>	2	11/13/2012 09:08 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
<b>Calcium</b>	<b>440</b>		<b>SW6020A</b>		Prep Date: <b>11/13/2012</b>	Analyst: <b>CES</b>
			<b>5.7</b>	<b>mg/L-dry</b>	10	11/14/2012 02:48 PM
<b>Magnesium</b>	<b>170</b>		<b>2.3</b>	<b>mg/L-dry</b>	10	11/14/2012 02:48 PM
<b>Sodium</b>	<b>1,700</b>		<b>2.3</b>	<b>mg/L-dry</b>	10	11/14/2012 02:48 PM
<b>SODIUM ADSORPTION RATIO</b>						
<b>Sodium Adsorption Ratio</b>	<b>17</b>		<b>USDA H60 METHO</b>		Prep Date: <b>11/13/2012</b>	Analyst: <b>CES</b>
			<b>0.010</b>	<b>none</b>	1	11/14/2012
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>Acenaphthene</b>	<b>ND</b>		<b>SW8270</b>		Prep Date: <b>11/12/2012</b>	Analyst: <b>HL</b>
			<b>17</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Anthracene</b>	<b>ND</b>		<b>17</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>19</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Benzo(a)pyrene</b>	<b>ND</b>	*	<b>19</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>	*	<b>20</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Benzo(g,h,i)perylene</b>	<b>ND</b>	*	<b>31</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>	*	<b>20</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Chrysene</b>	<b>ND</b>		<b>17</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>	*	<b>20</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Fluoranthene</b>	<b>ND</b>		<b>17</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
<b>Fluorene</b>	<b>62</b>		<b>17</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM

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



# ALS Group USA, Corp

Date: 15-Nov-12

Client: HRL Compliance Solutions

Project: WPX RGU 33-24-198 Pit Closure 11/6/12

Work Order: 1211286

Sample ID: RGU 33-24-198 Pit Bottom

Lab ID: 1211286-01

Collection Date: 11/6/2012 12:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND	*	22	µg/Kg-dry	1	11/13/2012 09:51 PM
<b>Naphthalene</b>	<b>42</b>		<b>17</b>	<b>µg/Kg-dry</b>	1	11/13/2012 09:51 PM
Pyrene	ND		17	µg/Kg-dry	1	11/13/2012 09:51 PM
Surr: 2-Fluorobiphenyl	86.8		12-100	%REC	1	11/13/2012 09:51 PM
Surr: 4-Terphenyl-d14	88.2		25-137	%REC	1	11/13/2012 09:51 PM
Surr: Nitrobenzene-d5	80.5		37-107	%REC	1	11/13/2012 09:51 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>		Prep Date: 11/10/2012	Analyst: RS
Benzene	ND		34	µg/Kg-dry	1	11/12/2012 08:13 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	11/12/2012 08:13 PM
<b>m,p-Xylene</b>	<b>95</b>		<b>68</b>	<b>µg/Kg-dry</b>	1	11/12/2012 08:13 PM
o-Xylene	ND		34	µg/Kg-dry	1	11/12/2012 08:13 PM
<b>Toluene</b>	<b>60</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	11/12/2012 08:13 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	11/12/2012 08:13 PM
Surr: 1,2-Dichloroethane-d4	95.8		70-130	%REC	1	11/12/2012 08:13 PM
Surr: 4-Bromofluorobenzene	97.3		70-130	%REC	1	11/12/2012 08:13 PM
Surr: Dibromofluoromethane	94.2		70-130	%REC	1	11/12/2012 08:13 PM
Surr: Toluene-d8	96.9		70-130	%REC	1	11/12/2012 08:13 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep Date: 11/13/2012	Analyst: KF
Electrical Conductivity @ Saturation	12		0.025	mmhos/cm @25	5	11/14/2012 02:20 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: JJG
Chromium, Trivalent	62		0.57	mg/Kg-dry	1	11/14/2012 04:24 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: 11/12/2012	Analyst: MB
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	11/14/2012 03:30 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: LR
Moisture	12		0.050	% of sample	1	11/12/2012 06:15 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: KF
pH	8.45			s.u.	1	11/9/2012 08:30 AM

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

# ALS Group USA, Corp

Date: 15-Nov-12

**Client:** HRL Compliance Solutions

## QC BATCH REPORT

**Work Order:** 1211286

**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

Batch ID: **44682**

Instrument ID **GC8**

Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-44682-44682</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 05:39 PM</b>		
Client ID:		Run ID: <b>GC8_121113A</b>				SeqNo: <b>2138789</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>
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>	1.297	0	1.667	0	77.8	39-115	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-44682-44682</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 06:06 PM</b>		
Client ID:		Run ID: <b>GC8_121113A</b>				SeqNo: <b>2138790</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	105.2	4.2	166.7	0	63.1	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	1.527	0	1.667	0	91.6	39-115	0			

<b>MS</b>		Sample ID: <b>1211226-09A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 06:33 PM</b>		
Client ID:		Run ID: <b>GC8_121113A</b>				SeqNo: <b>2138791</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	443.4	12	495.1	128.4	63.6	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	4.559	0	4.951	0	92.1	39-115	0			

<b>MSD</b>		Sample ID: <b>1211226-09A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 07:00 PM</b>		
Client ID:		Run ID: <b>GC8_121113A</b>				SeqNo: <b>2138792</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	372.8	12	488.2	128.4	50.1	49-130	443.4	17.3	30	
<i>Surr: 4-Terphenyl-d14</i>	4.401	0	4.882	0	90.2	39-115	4.559	3.52	30	

The following samples were analyzed in this batch: | 1211286-01B |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **R112449**      Instrument ID **GC10**      Method: **SW8015**

<b>MBLK</b>		Sample ID: <b>GBLK1-121112-R112449</b>				Units: <b>µg/L</b>		Analysis Date: <b>11/12/2012 02:20 PM</b>		
Client ID:		Run ID: <b>GC10_121112A</b>				SeqNo: <b>2137267</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>117.9</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>118</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>GLCS1-121112-R112449</b>				Units: <b>µg/L</b>		Analysis Date: <b>11/12/2012 11:51 PM</b>		
Client ID:		Run ID: <b>GC10_121112A</b>				SeqNo: <b>2137268</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	9386	200	10000	0	93.9	70-130	0			
<i>Surr: Toluene-d8</i>	<i>102.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>1211283-01A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 11:01 PM</b>		
Client ID:		Run ID: <b>GC10_121112A</b>				SeqNo: <b>2137290</b>		Prep Date:		DF: <b>50</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	549200	2,500	500000	16860	106	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5117</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>102</i>	<i>50-150</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>1211283-01A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 11:26 PM</b>		
Client ID:		Run ID: <b>GC10_121112A</b>				SeqNo: <b>2137291</b>		Prep Date:		DF: <b>50</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	535500	2,500	500000	16860	104	70-130	549200	2.52	30	
<i>Surr: Toluene-d8</i>	<i>5336</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>107</i>	<i>50-150</i>	<i>5117</i>	<i>4.19</i>	<i>30</i>	

The following samples were analyzed in this batch:

1211286-01A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

# QC BATCH REPORT

Batch ID: **44736**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>		Sample ID: <b>MBLK-44736-44736</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 02:05 PM</b>		
Client ID:		Run ID: <b>HG1_121114A</b>				SeqNo: <b>2139413</b>		Prep Date: <b>11/14/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.006667      0.020      J

<b>LCS</b>		Sample ID: <b>LCS-44736-44736</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 02:07 PM</b>		
Client ID:		Run ID: <b>HG1_121114A</b>				SeqNo: <b>2139414</b>		Prep Date: <b>11/14/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.1625      0.020      0.1665      0      97.6      80-120      0

<b>MS</b>		Sample ID: <b>1211266-09BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 02:20 PM</b>		
Client ID:		Run ID: <b>HG1_121114A</b>				SeqNo: <b>2139420</b>		Prep Date: <b>11/14/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.1599      0.018      0.1493      0.02557      89.9      75-125      0

<b>MS</b>		Sample ID: <b>1211266-16BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 03:08 PM</b>		
Client ID:		Run ID: <b>HG1_121114A</b>				SeqNo: <b>2139441</b>		Prep Date: <b>11/14/2012</b>		DF: <b>2</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.3223      0.035      0.1439      0.1004      154      75-125      0      S

<b>MSD</b>		Sample ID: <b>1211266-09BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 02:22 PM</b>		
Client ID:		Run ID: <b>HG1_121114A</b>				SeqNo: <b>2139421</b>		Prep Date: <b>11/14/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.1798      0.018      0.1537      0.02557      100      75-125      0.1599      11.8      35

<b>MSD</b>		Sample ID: <b>1211266-16BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 03:10 PM</b>		
Client ID:		Run ID: <b>HG1_121114A</b>				SeqNo: <b>2139442</b>		Prep Date: <b>11/14/2012</b>		DF: <b>2</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury      0.3541      0.036      0.1509      0.1004      168      75-125      0.3223      9.39      35      S

The following samples were analyzed in this batch:

1211286-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44658**      Instrument ID **ICPMS1**      Method: **SW6020A**      **(Dissolve)**

<b>DUP</b>		Sample ID: <b>1211252-02C DUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>11/14/2012 02:25 PM</b>		
Client ID:		Run ID: <b>ICPMS1_121114A</b>				SeqNo: <b>2139457</b>		Prep Date: <b>11/13/2012</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	184.4	5.0	0	0	0	0-0	197.9	7.06		
Magnesium	13.66	2.0	0	0	0	0-0	14.9	8.68		
Sodium	22.28	2.0	0	0	0	0-0	23.48	5.24		

<b>DUP</b>		Sample ID: <b>1211252-02C DUP</b>				Units: <b>none</b>		Analysis Date: <b>11/14/2012</b>		
Client ID:		Run ID: <b>SAR_121114B</b>				SeqNo: <b>2139541</b>		Prep Date: <b>11/13/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.4265	0.010	0	0	0		0.4335	1.62	50	

The following samples were analyzed in this batch: | 1211286-01C |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44716**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-44716-44716</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 04:40 PM</b>		
Client ID:		Run ID: <b>ICPMS1_121113A</b>				SeqNo: <b>2138872</b>		Prep Date: <b>11/13/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.0011	0.25								J
Nickel	0.00677	0.25								J
Selenium	0.03508	0.25								J
Silver	ND	0.25								
Zinc	ND	0.50								

<b>LCS</b>		Sample ID: <b>LCS-44716-44716</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 04:46 PM</b>		
Client ID:		Run ID: <b>ICPMS1_121113A</b>				SeqNo: <b>2138873</b>		Prep Date: <b>11/13/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.414	0.25	5	0	88.3	80-120	0			
Barium	4.746	0.25	5	0	94.9	80-120	0			
Cadmium	4.896	0.10	5	0	97.9	80-120	0			
Chromium	4.74	0.25	5	0	94.8	80-120	0			
Copper	4.564	0.25	5	0	91.3	80-120	0			
Lead	4.94	0.25	5	0	98.8	80-120	0			
Nickel	4.564	0.25	5	0	91.3	80-120	0			
Selenium	4.352	0.25	5	0	87	80-120	0			
Silver	4.555	0.25	5	0	91.1	80-120	0			
Zinc	4.425	0.50	5	0	88.5	80-120	0			

<b>MS</b>		Sample ID: <b>1211251-04AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 07:35 PM</b>		
Client ID:		Run ID: <b>ICPMS1_121113A</b>				SeqNo: <b>2138898</b>		Prep Date: <b>11/13/2012</b>		DF: <b>2</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.316	0.72	7.246	3.032	86.7	75-125	0			
Barium	198.6	0.72	7.246	186.3	168	75-125	0			SO
Cadmium	7.214	0.29	7.246	0.1511	97.5	75-125	0			
Chromium	28.58	0.72	7.246	21.35	99.8	75-125	0			
Copper	12.96	0.72	7.246	6.814	84.9	75-125	0			
Lead	19.59	0.72	7.246	12.54	97.4	75-125	0			
Nickel	16.59	0.72	7.246	9.935	91.9	75-125	0			
Selenium	7.01	0.72	7.246	0.8135	85.5	75-125	0			
Silver	6.178	0.72	7.246	0.04006	84.7	75-125	0			
Zinc	40.28	1.4	7.246	34.54	79.2	75-125	0			O

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44716**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MSD</b>		Sample ID: <b>1211251-04AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/13/2012 07:41 PM</b>		
Client ID:		Run ID: <b>ICPMS1_121113A</b>				SeqNo: <b>2138899</b>		Prep Date: <b>11/13/2012</b>		DF: <b>2</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.428	0.70	7.032	3.032	90.9	75-125	9.316	1.19	25	
Barium	202.8	0.70	7.032	186.3	234	75-125	198.6	2.12	25	SO
Cadmium	7.082	0.28	7.032	0.1511	98.6	75-125	7.214	1.86	25	
Chromium	28.52	0.70	7.032	21.35	102	75-125	28.58	0.198	25	
Copper	12.8	0.70	7.032	6.814	85.1	75-125	12.96	1.28	25	
Lead	19.79	0.70	7.032	12.54	103	75-125	19.59	0.989	25	
Nickel	16.3	0.70	7.032	9.935	90.5	75-125	16.59	1.78	25	
Selenium	6.785	0.70	7.032	0.8135	84.9	75-125	7.01	3.27	25	
Silver	6.027	0.70	7.032	0.04006	85.1	75-125	6.178	2.48	25	
Zinc	40.8	1.4	7.032	34.54	89.1	75-125	40.28	1.3	25	O

The following samples were analyzed in this batch: | 1211286-01B |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44681**      Instrument ID **SVMS6**      Method: **SW8270**

<b>MBLK</b>		Sample ID: <b>SBLKS1-44681-44681</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/13/2012 12:41 PM</b>		
Client ID:		Run ID: <b>SVMS6_121113A</b>				SeqNo: <b>2139049</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	1186	0	1667	0	71.2	12-100	0			
Surr: 4-Terphenyl-d14	1703	0	1667	0	102	25-137	0			
Surr: Nitrobenzene-d5	1379	0	1667	0	82.7	37-107	0			

<b>LCS</b>		Sample ID: <b>SLCSS1-44681-44681</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/13/2012 11:01 AM</b>		
Client ID:		Run ID: <b>SVMS6_121113A</b>				SeqNo: <b>2139045</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	576.3	30	666.7	0	86.4	45-110	0			
Anthracene	636	30	666.7	0	95.4	55-105	0			
Benzo(a)anthracene	669	30	666.7	0	100	50-110	0			
Benzo(a)pyrene	714	30	666.7	0	107	50-110	0			
Benzo(b)fluoranthene	682	30	666.7	0	102	45-115	0			
Benzo(g,h,i)perylene	658	30	666.7	0	98.7	40-125	0			
Benzo(k)fluoranthene	689	30	666.7	0	103	45-115	0			
Chrysene	649.3	30	666.7	0	97.4	55-110	0			
Dibenzo(a,h)anthracene	714.7	30	666.7	0	107	40-125	0			
Fluoranthene	653.3	30	666.7	0	98	55-115	0			
Fluorene	626	30	666.7	0	93.9	50-110	0			
Indeno(1,2,3-cd)pyrene	658	30	666.7	0	98.7	40-120	0			
Naphthalene	571.3	30	666.7	0	85.7	40-105	0			
Pyrene	675.3	30	666.7	0	101	45-125	0			
Surr: 2-Fluorobiphenyl	1201	0	1667	0	72	12-100	0			
Surr: 4-Terphenyl-d14	1643	0	1667	0	98.6	25-137	0			
Surr: Nitrobenzene-d5	1427	0	1667	0	85.6	37-107	0			

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44681**      Instrument ID **SVMS6**      Method: **SW8270**

MS				Sample ID: 1211226-09A MS			Units: µg/Kg		Analysis Date: 11/13/2012 11:26 AM		
Client ID:			Run ID: SVMS6_121113A			SeqNo: 2139046		Prep Date: 11/12/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1745	87	1929	0	90.4	45-110	0				
Anthracene	1965	87	1929	0	102	55-105	0				
Benzo(a)anthracene	2082	87	1929	146.7	100	50-110	0				
Benzo(a)pyrene	2304	87	1929	193.6	109	50-110	0				
Benzo(b)fluoranthene	2541	87	1929	242.5	119	45-115	0			S	
Benzo(g,h,i)perylene	1643	87	1929	80.52	81	40-125	0				
Benzo(k)fluoranthene	1913	87	1929	110.2	93.4	45-115	0				
Chrysene	2111	87	1929	172.5	100	55-110	0				
Dibenzo(a,h)anthracene	1700	87	1929	0	88.1	40-125	0				
Fluoranthene	2150	87	1929	197.5	101	55-115	0				
Fluorene	1951	87	1929	0	101	50-110	0				
Indeno(1,2,3-cd)pyrene	1643	87	1929	78.6	81.1	40-120	0				
Naphthalene	1316	87	1929	0	68.2	40-105	0				
Pyrene	2199	87	1929	230.1	102	45-125	0				
Surr: 2-Fluorobiphenyl	3362	0	4824	0	69.7	12-100	0				
Surr: 4-Terphenyl-d14	4615	0	4824	0	95.7	25-137	0				
Surr: Nitrobenzene-d5	3036	0	4824	0	62.9	37-107	0				

MSD				Sample ID: 1211226-09A MSD			Units: µg/Kg		Analysis Date: 11/13/2012 11:51 AM		
Client ID:			Run ID: SVMS6_121113A			SeqNo: 2139047		Prep Date: 11/12/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1844	87	1943	0	94.9	45-110	1745	5.51	30		
Anthracene	2018	87	1943	0	104	55-105	1965	2.65	30		
Benzo(a)anthracene	2063	87	1943	146.7	98.6	50-110	2082	0.928	30		
Benzo(a)pyrene	2331	87	1943	193.6	110	50-110	2304	1.17	30		
Benzo(b)fluoranthene	2688	87	1943	242.5	126	45-115	2541	5.63	30	S	
Benzo(g,h,i)perylene	1143	87	1943	80.52	54.7	40-125	1643	35.8	30	R	
Benzo(k)fluoranthene	2288	87	1943	110.2	112	45-115	1913	17.9	30		
Chrysene	2187	87	1943	172.5	104	55-110	2111	3.55	30		
Dibenzo(a,h)anthracene	1322	87	1943	0	68	40-125	1700	25	30		
Fluoranthene	2240	87	1943	197.5	105	55-115	2150	4.1	30		
Fluorene	2031	87	1943	0	105	50-110	1951	4.06	30		
Indeno(1,2,3-cd)pyrene	1140	87	1943	78.6	54.6	40-120	1643	36.2	30	R	
Naphthalene	1490	87	1943	0	76.7	40-105	1316	12.4	30		
Pyrene	2297	87	1943	230.1	106	45-125	2199	4.37	30		
Surr: 2-Fluorobiphenyl	3633	0	4858	0	74.8	12-100	3362	7.74	40		
Surr: 4-Terphenyl-d14	4764	0	4858	0	98.1	25-137	4615	3.18	40		
Surr: Nitrobenzene-d5	3474	0	4858	0	71.5	37-107	3036	13.5	40		

The following samples were analyzed in this batch: 1211286-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44661**      Instrument ID **VMS9**      Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>MBLK-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 12:52 PM</b>		
Client ID:		Run ID: <b>VMS9_121112A</b>				SeqNo: <b>2137453</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1047	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	916	0	1000	0	91.6	70-130	0			
Surr: Dibromofluoromethane	944.5	0	1000	0	94.4	70-130	0			
Surr: Toluene-d8	979.5	0	1000	0	98	70-130	0			

<b>MBLK</b>		Sample ID: <b>MBLK-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 04:13 PM</b>		
Client ID:		Run ID: <b>VMS8_121112A</b>				SeqNo: <b>2137785</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	976.5	0	1000	0	97.6	70-130	0			
Surr: 4-Bromofluorobenzene	1026	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	985	0	1000	0	98.5	70-130	0			
Surr: Toluene-d8	977.5	0	1000	0	97.8	70-130	0			

<b>MBLK</b>		Sample ID: <b>MBLK-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/13/2012 01:15 AM</b>		
Client ID:		Run ID: <b>VMS9_121112B</b>				SeqNo: <b>2137860</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1048	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	926	0	1000	0	92.6	70-130	0			
Surr: Dibromofluoromethane	923.5	0	1000	0	92.4	70-130	0			
Surr: Toluene-d8	966	0	1000	0	96.6	70-130	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44661**      Instrument ID **VMS9**      Method: **SW8260**

<b>MBLK</b>		Sample ID: <b>MBLK-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/14/2012 12:13 PM</b>		
Client ID:		Run ID: <b>VMS6_121114A</b>				SeqNo: <b>2140075</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1023	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	953.5	0	1000	0	95.4	70-130	0			
Surr: Dibromofluoromethane	997	0	1000	0	99.7	70-130	0			
Surr: Toluene-d8	991	0	1000	0	99.1	70-130	0			

<b>LCS</b>		Sample ID: <b>LCS-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 11:35 AM</b>		
Client ID:		Run ID: <b>VMS9_121112A</b>				SeqNo: <b>2137450</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	902.5	30	1000	0	90.2	75-125	0			
Ethylbenzene	921.5	30	1000	0	92.2	75-125	0			
m,p-Xylene	1844	60	2000	0	92.2	80-125	0			
o-Xylene	912.5	30	1000	0	91.2	75-125	0			
Toluene	905	30	1000	0	90.5	70-125	0			
Xylenes, Total	2756	90	3000	0	91.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	1039	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	999.5	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	1040	0	1000	0	104	70-130	0			
Surr: Toluene-d8	1019	0	1000	0	102	70-130	0			

<b>LCS</b>		Sample ID: <b>LCS-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 03:02 PM</b>		
Client ID:		Run ID: <b>VMS8_121112A</b>				SeqNo: <b>2137784</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	938.5	30	1000	0	93.8	75-125	0			
Ethylbenzene	975	30	1000	0	97.5	75-125	0			
m,p-Xylene	1936	60	2000	0	96.8	80-125	0			
o-Xylene	948	30	1000	0	94.8	75-125	0			
Toluene	934.5	30	1000	0	93.4	70-125	0			
Xylenes, Total	2884	90	3000	0	96.1	75-125	0			
Surr: 1,2-Dichloroethane-d4	969	0	1000	0	96.9	70-130	0			
Surr: 4-Bromofluorobenzene	999	0	1000	0	99.9	70-130	0			
Surr: Dibromofluoromethane	1041	0	1000	0	104	70-130	0			
Surr: Toluene-d8	1039	0	1000	0	104	70-130	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44661**      Instrument ID **VMS9**      Method: **SW8260**

<b>LCS</b>		Sample ID: <b>LCS-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/12/2012 11:58 PM</b>		
Client ID:		Run ID: <b>VMS9_121112B</b>				SeqNo: <b>2137858</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1026	30	1000	0	103	75-125	0			
Ethylbenzene	1025	30	1000	0	102	75-125	0			
m,p-Xylene	2048	60	2000	0	102	80-125	0			
o-Xylene	1019	30	1000	0	102	75-125	0			
Toluene	1006	30	1000	0	101	70-125	0			
Xylenes, Total	3068	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	1046	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	969.5	0	1000	0	97	70-130	0			
Surr: Dibromofluoromethane	1056	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0			

<b>LCS</b>		Sample ID: <b>LCS-44661-44661</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/14/2012 11:01 AM</b>		
Client ID:		Run ID: <b>VMS6_121114A</b>				SeqNo: <b>2140073</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	850.5	30	1000	0	85	75-125	0			
Ethylbenzene	820.5	30	1000	0	82	75-125	0			
m,p-Xylene	1676	60	2000	0	83.8	80-125	0			
o-Xylene	847.5	30	1000	0	84.8	75-125	0			
Toluene	830.5	30	1000	0	83	70-125	0			
Xylenes, Total	2524	90	3000	0	84.1	75-125	0			
Surr: 1,2-Dichloroethane-d4	1031	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	988.5	0	1000	0	98.8	70-130	0			
Surr: Dibromofluoromethane	1041	0	1000	0	104	70-130	0			
Surr: Toluene-d8	983.5	0	1000	0	98.4	70-130	0			

<b>MS</b>		Sample ID: <b>1211314-01B MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/14/2012 09:05 PM</b>		
Client ID:		Run ID: <b>VMS6_121114A</b>				SeqNo: <b>2140080</b>		Prep Date: <b>11/10/2012</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	854	30	1010	0	84.6	75-125	0			
Ethylbenzene	848.5	30	1010	0	84	75-125	0			
m,p-Xylene	1726	61	2020	0	85.4	80-125	0			
o-Xylene	878.8	30	1010	0	87	75-125	0			
Toluene	864.1	30	1010	0	85.6	70-125	0			
Xylenes, Total	2605	91	3030	0	86	75-125	0			
Surr: 1,2-Dichloroethane-d4	988.4	0	1010	0	97.8	70-130	0			
Surr: 4-Bromofluorobenzene	987.4	0	1010	0	97.8	70-130	0			
Surr: Dibromofluoromethane	1003	0	1010	0	99.2	70-130	0			
Surr: Toluene-d8	1013	0	1010	0	100	70-130	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44661**      Instrument ID **VMS9**      Method: **SW8260**

MSD				Sample ID: <b>1211314-01B MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>11/14/2012 09:29 PM</b>	
Client ID:				Run ID: <b>VMS6_121114A</b>			SeqNo: <b>2140082</b>		Prep Date: <b>11/10/2012</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	881.8	30	1010	0	87.3	75-125	854	3.2	30	
Ethylbenzene	863.6	30	1010	0	85.5	75-125	848.5	1.77	30	
m,p-Xylene	1732	61	2020	0	85.7	80-125	1726	0.321	30	
o-Xylene	880.8	30	1010	0	87.2	75-125	878.8	0.23	30	
Toluene	860.1	30	1010	0	85.2	70-125	864.1	0.469	30	
Xylenes, Total	2613	91	3030	0	86.2	75-125	2605	0.29	30	
Surr: 1,2-Dichloroethane-d4	992.4	0	1010	0	98.2	70-130	988.4	0.408	30	
Surr: 4-Bromofluorobenzene	984.8	0	1010	0	97.5	70-130	987.4	0.256	30	
Surr: Dibromofluoromethane	1006	0	1010	0	99.6	70-130	1003	0.352	30	
Surr: Toluene-d8	991.9	0	1010	0	98.2	70-130	1013	2.07	30	

The following samples were analyzed in this batch: | 1211286-01A |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44658** Instrument ID **WETCHEM** Method: **USDA H60 Method**

<b>DUP</b>		Sample ID: <b>1211252-02C DUP</b>				Units: <b>mmhos/cm @25°F</b>		Analysis Date: <b>11/14/2012 02:20 PM</b>		
Client ID:		Run ID: <b>WETCHEM_121114G</b>				SeqNo: <b>2139308</b>		Prep Date: <b>11/13/2012</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.119	0.050	0	0	0		1.145	2.3	50	

The following samples were analyzed in this batch:

1211286-01C

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **44691**      Instrument ID **WETCHEM**      Method: **SW7196A**

<b>MBLK</b>	Sample ID: <b>MBLK-44691-44691</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 03:30 PM</b>			
Client ID:	Run ID: <b>WETCHEM_121114I</b>				SeqNo: <b>2139460</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      ND      0.50

<b>LCS</b>	Sample ID: <b>LCS-44691-44691</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 03:30 PM</b>			
Client ID:	Run ID: <b>WETCHEM_121114I</b>				SeqNo: <b>2139461</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      1.853      0.50      1.992      0      93      75-110      0

<b>MS</b>	Sample ID: <b>1211284-06B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 03:30 PM</b>			
Client ID:	Run ID: <b>WETCHEM_121114I</b>				SeqNo: <b>2139474</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      0.3068      0.50      1.992      0      15.4      60-130      0      JS

<b>MSD</b>	Sample ID: <b>1211284-06B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/14/2012 03:30 PM</b>			
Client ID:	Run ID: <b>WETCHEM_121114I</b>				SeqNo: <b>2139475</b>		Prep Date: <b>11/12/2012</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent      0.261      0.50      2.008      0      13      60-130      0.3068      0      30      JS

The following samples were analyzed in this batch:

1211286-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **R112339** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-R112339-R112339					Units: s.u.		Analysis Date: 11/9/2012 08:30 AM		
Client ID:			Run ID: WETCHEM_121109K			SeqNo: 2135073		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	4.17	0	4.4	0	94.8	90-110	0			
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DUP		Sample ID: 1211284-01B DUP					Units: s.u.		Analysis Date: 11/9/2012 08:30 AM		
Client ID:		Run ID: WETCHEM_121109K			SeqNo: 2135075		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH	7.01	0	0	0	0	0-0	7.01	0	20	
----	------	---	---	---	---	-----	------	---	----	--

DUP				Sample ID: 1211286-01B DUP				Units: s.u.			Analysis Date: 11/9/2012 08:30 AM			
Client ID: RGU 33-24-198 Pit Bottom				Run ID: WETCHEM_121109K				SeqNo: 2135088			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH	8.45	0	0	0	0	0-0	8.45	0	20	
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The following samples were analyzed in this batch:

1211286-01B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** HRL Compliance Solutions  
**Work Order:** 1211286  
**Project:** WPX RGU 33-24-198 Pit Closure 11/6/12

## QC BATCH REPORT

Batch ID: **R112451**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>		Sample ID: <b>WBLKS1-R112451</b>				Units: % of sample		Analysis Date: <b>11/12/2012 06:15 PM</b>		
Client ID:		Run ID: <b>MOIST_121112B</b>				SeqNo: <b>2137348</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      ND      0.050

<b>LCS</b>		Sample ID: <b>LCS-R112451</b>				Units: % of sample		Analysis Date: <b>11/12/2012 06:15 PM</b>		
Client ID:		Run ID: <b>MOIST_121112B</b>				SeqNo: <b>2137344</b>		Prep Date:		DF: <b>1</b>
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

<b>DUP</b>		Sample ID: <b>1211236-06A DUP</b>				Units: % of sample		Analysis Date: <b>11/12/2012 06:15 PM</b>		
Client ID:		Run ID: <b>MOIST_121112B</b>				SeqNo: <b>2137333</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      8.96      0.050      0      0      0      0-0      9.48      5.64      20

<b>DUP</b>		Sample ID: <b>1211286-01B DUP</b>				Units: % of sample		Analysis Date: <b>11/12/2012 06:15 PM</b>		
Client ID: <b>RGU 33-24-198 Pit Bottom</b>		Run ID: <b>MOIST_121112B</b>				SeqNo: <b>2137340</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      11.83      0.050      0      0      0      0-0      11.82      0.0846      20

<b>DUP</b>		Sample ID: <b>1211306-02A DUP</b>				Units: % of sample		Analysis Date: <b>11/12/2012 06:15 PM</b>		
Client ID:		Run ID: <b>MOIST_121112B</b>				SeqNo: <b>2137342</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      18.09      0.050      0      0      0      0-0      18.48      2.13      20

The following samples were analyzed in this batch:

1211286-01B

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



Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **08-Nov-12 10:00**

Work Order: **1211286**

Received by: **DS**

Checklist completed by Diane Shaw 09-Nov-12  
eSignature Date

Reviewed by: Ann Preston 11-Nov-12  
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"/>	
Temperature(s)/Thermometer(s):	<u>2.8 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

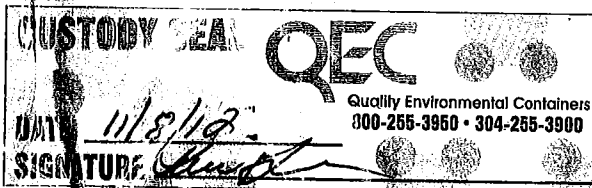
Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



**FedEx** Express **NEW Package** **US Airbill**

FedEx Tracking Number

8987 5964 3376

0200

FedEx Retrieval Copy

1 From  
Date 11/8/12  
Sender's Name [Redacted]  
Phone 978 443 2571  
Company [Redacted]  
Address [Redacted]  
City [Redacted] State [Redacted] ZIP [Redacted]

2 Your Internal Billing Reference

3 To  
Recipient's Name [Redacted]  
Phone 617 279 4070  
Company [Redacted]  
Address [Redacted]  
City [Redacted] State [Redacted] ZIP [Redacted]

4 Express Package Service  
NOTE: Service order lines changed. Please select carefully.  
Next Business Day  
FedEx First Overnight  
FedEx Priority Overnight  
FedEx Standard Overnight  
NEW FedEx 2Day A.M.  
FedEx 2Day  
FedEx Express Saver

5 Packaging  
FedEx Envelope  
FedEx Pak  
FedEx Box  
FedEx Tube  
Other  
6 Special Handling and Delivery Signature Options  
SATURDAY DELIVERY  
No Signature Required  
Direct Signature  
Indirect Signature  
Does this shipment contain dangerous goods?  
One box must be checked.

7 Payment Bill to:  
Sender  
Recipient  
Third Party  
Credit Card  
Cash/Check



8987 5964 3376

612

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12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

## Report Summary

Wednesday September 21, 2011

Report Number: L536452

Samples Received: 09/16/11

Client Project:

Description: RGU 33-24-198 Pit Sampling

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

September 21, 2011

Date Received : September 16, 2011  
Description : RGU 33-24-198 Pit Sampling  
Sample ID : RGU 33-24-198-B-1 0.5FT  
Collected By : SG / JS  
Collection Date : 09/14/11 14:56

ESC Sample # : L536452-01

Site ID : RGU 433-24-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.6	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

September 21, 2011

Date Received : September 16, 2011  
Description : RGU 33-24-198 Pit Sampling  
Sample ID : RGU 33-24-198-B-2 0.5FT  
Collected By : SG / JS  
Collection Date : 09/14/11 15:00

ESC Sample # : L536452-02

Site ID : RGU 433-24-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	2.4	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

September 21, 2011

Date Received : September 16, 2011  
Description : RGU 33-24-198 Pit Sampling  
Sample ID : RGU 33-24-198-B-3 0.5FT  
Collected By : SG / JS  
Collection Date : 09/14/11 15:05

ESC Sample # : L536452-03

Site ID : RGU 433-24-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.8	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

September 21, 2011

Date Received : September 16, 2011  
Description : RGU 33-24-198 Pit Sampling  
Sample ID : RGU 33-24-198-B-4 0.5FT  
Collected By : SG / JS  
Collection Date : 09/14/11 15:08

ESC Sample # : L536452-04

Site ID : RGU 433-24-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.5	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

September 21, 2011

Date Received : September 16, 2011  
Description : RGU 33-24-198 Pit Sampling  
Sample ID : RGU 33-24-198-B-5 0.5FT  
Collected By : SG / JS  
Collection Date : 09/14/11 15:12

ESC Sample # : L536452-05

Site ID : RGU 433-24-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.1	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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