

State of Colorado  
Oil and Gas Conservation Commission

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

DOCUMENT  
#2221383

## 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  
11/17/2011

1. OGCC Operator Number: 96850	4. Contact Name Karolina Blaney	Complete the Attachment Checklist
2. Name of Operator: Williams Production RMT Company	Phone: 970-683-2295	
3. Address: 1058 County Road 215	Fax: 970-285-9573	OP OGCC
City: Parachute State: CO Zip: 81635		
5. API Number 05-045-07422	OGCC Facility ID Number 335447	Survey Plat
6. Well/Facility Name: Jolley	7. Well/Facility Number 16-12	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NWSW, 16, 6S, 91W, 6TH		Surface Equipmt Diagram
9. County: Garfield	10. Field Name: Kokopelli	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

## General Notice

<input type="checkbox"/> <b>CHANGE OF LOCATION:</b> Attach New Survey Plat (a change of surface qtr/qr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/SL <input type="checkbox"/> FLL/WL
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:
<b>GPS DATA:</b>	
Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> <b>CHANGE SPACING UNIT</b>	
Formation	Formation Code
Spacing order number	Unit Acreage
Unit configuration	
<input type="checkbox"/> <b>CHANGE OF OPERATOR (prior to drilling):</b>	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> <b>CHANGE WELL NAME</b> NUMBER	
From:	
To:	
Effective Date:	
<input type="checkbox"/> <b>ABANDONED LOCATION:</b>	
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"/> <b>NOTICE OF CONTINUED SHUT IN STATUS</b>	
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"/> <b>SPUD DATE:</b>	
<input type="checkbox"/> <b>REQUEST FOR CONFIDENTIAL STATUS</b> (6 mos from date casing set)	
<input type="checkbox"/> <b>SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK</b> *submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> <b>RECLAMATION:</b> 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"/> <b>Notice of Intent</b>		<input type="checkbox"/> <b>Report of Work Done</b>	
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"/> E&P Waste Disposal	
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	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: 11/17/2011 Email: karolina.blaney@williams.com  
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: [Signature] Title: FOR Date: 12/05/2011

CONDITIONS OF APPROVAL, IF ANY:

Linda Spry O'Rourke  
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850	API Number: 05-045-07422
2. Name of Operator: Williams Production RMT Company	OGCC Facility ID # 335447
3. Well/Facility Name: Jolley	Well/Facility Number: 16-12
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW, 16, 6S, 91W, 6TH	

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

Williams Production is submitting the analytical data for KP 13-16 as requested by the COGCC. The release occurred on April 5, 2011. The incident tracking number for the release is 2213317. No live surface water was impacted by the release and the entire release was contained to the well pad. The impacted area was sampled on April 15, 2011. All parameters were below Table 910-1 standards for for hydrcarbons and metals in soil with the exception of arsenic. Two additional soil samples were collected on October 28, 2011 at the request of the COGCC. One was collected on the pad from the area impacted by the release. It was collected adjacent to where the confirmation sample was collected. The other was a background sample collected at the BKGD 3 location off the pad. The samples were analyzed for SAR, EC and pH. Refer to the attached map for the sample locations. The only paramaeter that exceeded Table 910-1 was SAR on the pad as noted below. It is anticipated that the SAR levels on the pad will naturally attenuate over time through natural precipitation events. When the pad is slated for final closure and reclamation, the SAR values on the pad will be addressed. Background arsenic samples were previously collected off the pad on August 31, 2010. Williams would like to close this incident out if approved by the COGCC. A copy of the analytical results is included with the Form 4 for reference.

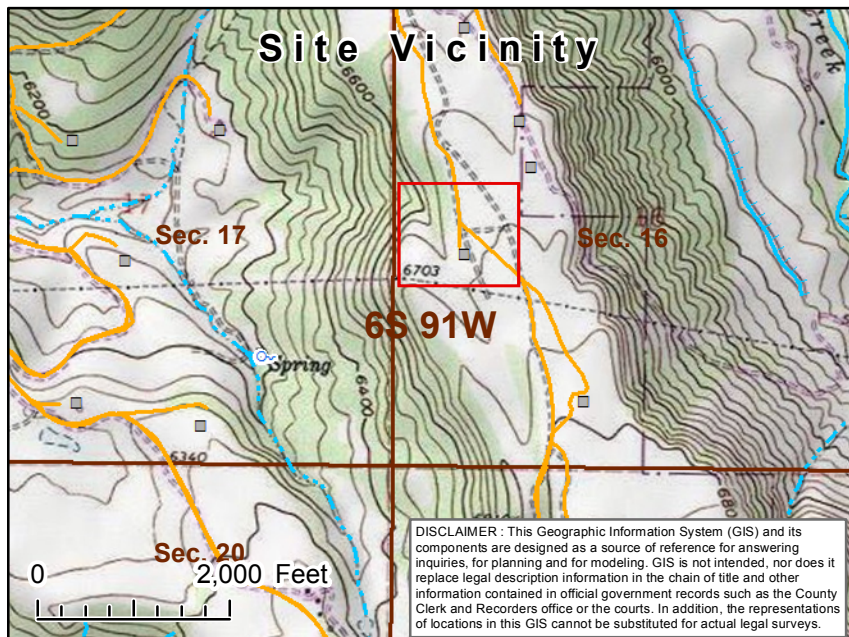
Below are the analytical results for arsenic and the background locations.

Confirmation Sample	Depth collected 0-12 inches	3.3 mg/Kg
Background 1	Depth collected 0-12 inches	4.2 mg/Kg
Background 2	Depth collected 0-12 inches	4.8 mg/Kg
Background 3	Depth collected 0-12 inches	4.5 mg/Kg

Below are the analytical results for SAR on the pad and the background location.

On Site Pad Sample	Depth collected 0-12 inches	45.9 mg/Kg
BKGD 3	Depth collected 0-12 inches	1.0 mg/Kg





## Attachment A--Sample Location Map

Location: KP 13-16

Williams Production RMT

### Legend

#### Location Features

- Well Head Location
- Sample Location

#### PLSS

- ▭ Township
- ▭ Section

#### Transportation Features

- Highways
- Public Roads
- Williams Access Roads

#### Hydrographic Features

- Perennial Stream
- Intermittent Stream
- Ditch/Canal



0 50 100 200 Feet





26-Apr-2011

Mark Mumby  
HRL Compliance Solutions  
744 Horizon Ct. Suite 140  
Grand Junction, CO 81506

Re: **KP 13-16 Confirmation Sample 4/15/11**

Work Order: **1104474**

Dear Mark,

ALS Environmental received 1 sample on 19-Apr-2011 11:00 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 22.

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: IL100452

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:** KP 13-16 Confirmation Sample 4/15/11  
**Work Order:** 1104474

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**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>
1104474-01	KP 13-16 Confirmation Sample	Soil		4/15/2011 10:30	4/19/2011 11:00	<input type="checkbox"/>

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**Client:** HRL Compliance Solutions  
**Project:** KP 13-16 Confirmation Sample 4/15/11  
**Work Order:** 1104474

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**Case Narrative**

Batch 32971 sample KP 13-16 Confirmation Sample MSD recovery for Mercury is below control limits. Both the MSD recovery and RPD met quality control criteria.

Batch 32929 MS/MSD data for PAHs is not related to this project's samples.

Batch 32916 MS/MSD data for Metals is not related to this project's samples.

**Client:** HRL Compliance Solutions  
**Project:** KP 13-16 Confirmation Sample 4/15/11  
**WorkOrder:** 1104474

## **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
SQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
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

# ALS Group USA, Corp

Date: 26-Apr-11

**Client:** HRL Compliance Solutions  
**Project:** KP 13-16 Confirmation Sample 4/15/11  
**Sample ID:** KP 13-16 Confirmation Sample  
**Collection Date:** 4/15/2011 10:30 AM

**Work Order:** 1104474  
**Lab ID:** 1104474-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep Date: <b>4/20/2011</b>	Analyst: <b>RM</b>
<b>DRO (C10-C28)</b>	<b>350</b>		<b>4.4</b>	<b>mg/Kg-dry</b>	1	4/22/2011 07:08 AM
Surr: 4-Terphenyl-d14	103		39-115	%REC	1	4/22/2011 07:08 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015</b>			Analyst: <b>RM</b>
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>5.4</b>	<b>mg/Kg-dry</b>	100	4/22/2011 11:34 PM
Surr: Toluene-d8	97.4		50-150	%REC	100	4/22/2011 11:34 PM
<b>MERCURY BY CVAA</b>						
			<b>SW7471</b>		Prep Date: <b>4/22/2011</b>	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.039</b>		<b>0.020</b>	<b>mg/Kg-dry</b>	1	4/22/2011 03:14 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020A</b>		Prep Date: <b>4/20/2011</b>	Analyst: <b>CES</b>
<b>Arsenic</b>	<b>3.3</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
<b>Barium</b>	<b>810</b>		<b>8.3</b>	<b>mg/Kg-dry</b>	20	4/23/2011 12:22 AM
<b>Cadmium</b>	<b>0.92</b>		<b>0.33</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
<b>Chromium</b>	<b>7.0</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
<b>Copper</b>	<b>9.1</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
<b>Lead</b>	<b>8.3</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
<b>Nickel</b>	<b>14</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
Selenium	ND		0.83	mg/Kg-dry	2	4/21/2011 11:39 PM
Silver	ND		0.83	mg/Kg-dry	2	4/21/2011 11:39 PM
<b>Zinc</b>	<b>45</b>		<b>1.7</b>	<b>mg/Kg-dry</b>	2	4/21/2011 11:39 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270</b>		Prep Date: <b>4/20/2011</b>	Analyst: <b>HL</b>
Acenaphthene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Anthracene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Benzo(a)anthracene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Benzo(a)pyrene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Benzo(b)fluoranthene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Benzo(k)fluoranthene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Chrysene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Dibenzo(a,h)anthracene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Fluoranthene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Fluorene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Indeno(1,2,3-cd)pyrene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Naphthalene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Pyrene	ND		32	µg/Kg-dry	1	4/22/2011 05:52 PM
Surr: 2,4,6-Tribromophenol	88.7		34-140	%REC	1	4/22/2011 05:52 PM
Surr: 2-Fluorobiphenyl	66.3		12-100	%REC	1	4/22/2011 05:52 PM
Surr: 2-Fluorophenol	58.7		33-117	%REC	1	4/22/2011 05:52 PM
Surr: 4-Terphenyl-d14	94.5		25-137	%REC	1	4/22/2011 05:52 PM

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



**ALS Group USA, Corp**

Date: 26-Apr-11

**Client:** HRL Compliance Solutions  
**Project:** KP 13-16 Confirmation Sample 4/15/11  
**Sample ID:** KP 13-16 Confirmation Sample  
**Collection Date:** 4/15/2011 10:30 AM

**Work Order:** 1104474  
**Lab ID:** 1104474-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Nitrobenzene-d5	66.7		37-107	%REC	1	4/22/2011 05:52 PM
Surr: Phenol-d6	71.8		40-106	%REC	1	4/22/2011 05:52 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>BG</b>
Benzene	ND		18	µg/Kg-dry	100	4/25/2011 07:13 AM
Ethylbenzene	ND		13	µg/Kg-dry	100	4/25/2011 07:13 AM
m,p-Xylene	ND		17	µg/Kg-dry	100	4/25/2011 07:13 AM
o-Xylene	ND		13	µg/Kg-dry	100	4/25/2011 07:13 AM
Toluene	ND		12	µg/Kg-dry	100	4/25/2011 07:13 AM
Xylenes, Total	ND		30	µg/Kg-dry	100	4/25/2011 07:13 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>MB</b>
Chromium, Trivalent	7.0			mg/L-dry	1	4/25/2011 05:00 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>4/22/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.52	mg/Kg-dry	1	4/25/2011 03:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>JJG</b>
Moisture	7.0		0.050	% of sample	1	4/19/2011 11:57 AM

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

# ALS Group USA, Corp

Date: 26-Apr-11

**Client:** HRL Compliance Solutions

## QC BATCH REPORT

**Work Order:** 1104474

**Project:** KP 13-16 Confirmation Sample 4/15/11

Batch ID: **32917** Instrument ID **GC8** Method: **SW8015M**

<b>MBLK</b>	Sample ID: <b>DBLKS1-32917-32917</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 02:16 AM</b>			
Client ID:	Run ID: <b>GC8_110421A</b>				SeqNo: <b>1608194</b>		Prep Date: <b>4/20/2011</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>	<i>1.594</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>95.7</i>	<i>39-115</i>	<i>0</i>			

<b>LCS</b>	Sample ID: <b>DLCSS1-32917-32917</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 12:38 PM</b>			
Client ID:	Run ID: <b>GC8_110421A</b>				SeqNo: <b>1608221</b>		Prep Date: <b>4/20/2011</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)	147.6	4.2	166.7	0	88.6	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.614</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>96.8</i>	<i>39-115</i>	<i>0</i>			

<b>LCSD</b>	Sample ID: <b>DLCSDS1-32917-32917</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 12:38 PM</b>			
Client ID:	Run ID: <b>GC8_110421A</b>				SeqNo: <b>1608022</b>		Prep Date: <b>4/20/2011</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)	133.6	4.2	166.7	0	80.2	60-130	147.6	9.95	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.661</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>99.7</i>	<i>39-115</i>	<i>1.614</i>	<i>2.89</i>	<i>30</i>	

<b>MS</b>	Sample ID: <b>1104497-01B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 01:03 AM</b>			
Client ID:	Run ID: <b>GC8_110421A</b>				SeqNo: <b>1608192</b>		Prep Date: <b>4/20/2011</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)	215	7.6	302.4	0	71.1	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.833</i>	<i>0</i>	<i>3.024</i>	<i>0</i>	<i>60.6</i>	<i>39-115</i>	<i>0</i>			

<b>MSD</b>	Sample ID: <b>1104497-01B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 01:03 AM</b>			
Client ID:	Run ID: <b>GC8_110421A</b>				SeqNo: <b>1607983</b>		Prep Date: <b>4/20/2011</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)	301.1	7.8	313.9	0	95.9	60-130	215	33.4	30	R
<i>Surr: 4-Terphenyl-d14</i>	<i>2.844</i>	<i>0</i>	<i>3.139</i>	<i>0</i>	<i>90.6</i>	<i>39-115</i>	<i>1.833</i>	<i>43.3</i>	<i>30</i>	<i>R</i>

The following samples were analyzed in this batch:

1104474-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **R89381**      Instrument ID **GC9**      Method: **SW8015**

<b>MBLK</b>	Sample ID: <b>MBLK-R89381-R89381</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/22/2011 07:42 PM</b>			
Client ID:	Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609709</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>100</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>	Sample ID: <b>LCS-R89381-R89381</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/22/2011 06:18 PM</b>			
Client ID:	Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609707</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)	26210	200	25000	0	105	70-130	0			
<i>Surr: Toluene-d8</i>	<i>105.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			

<b>LCSD</b>	Sample ID: <b>LCSD-R89381-R89381</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/22/2011 06:44 PM</b>			
Client ID:	Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609708</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)	26210	200	25000	0	105	70-130	26210	0.0124	30	
<i>Surr: Toluene-d8</i>	<i>103.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>105.3</i>	<i>1.93</i>	<i>30</i>	

<b>MS</b>	Sample ID: <b>1104561-03B MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/23/2011 02:33 AM</b>			
Client ID:	Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609723</b>		Prep Date:		DF: <b>100</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2708000	5,000	2500000	0	108	70-130	0			
<i>Surr: Toluene-d8</i>	<i>10280</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>103</i>	<i>50-150</i>	<i>0</i>			

<b>MS</b>	Sample ID: <b>1104499-18A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/23/2011 02:58 AM</b>			
Client ID:	Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609724</b>		Prep Date:		DF: <b>100</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2439000	5,000	2500000	0	97.6	70-130	0			
<i>Surr: Toluene-d8</i>	<i>9381</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>93.8</i>	<i>50-150</i>	<i>0</i>			

<b>MSD</b>	Sample ID: <b>1104561-03B MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/23/2011 03:24 AM</b>			
Client ID:	Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609725</b>		Prep Date:		DF: <b>100</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2514000	5,000	2500000	0	101	70-130	2708000	7.45	30	
<i>Surr: Toluene-d8</i>	<i>10400</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>104</i>	<i>50-150</i>	<i>10280</i>	<i>1.23</i>	<i>30</i>	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **R89381** Instrument ID **GC9** Method: **SW8015**

<b>MSD</b>		Sample ID: <b>1104499-18A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/23/2011 03:49 AM</b>		
Client ID:		Run ID: <b>GC9_110422B</b>				SeqNo: <b>1609753</b>		Prep Date:		DF: <b>100</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2269000	5,000	2500000	0	90.8	70-130	2439000	7.23	30	
<i>Surr: Toluene-d8</i>	<i>8715</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>87.2</i>	<i>50-150</i>	<i>9381</i>	<i>7.36</i>	<i>30</i>	

The following samples were analyzed in this batch:

1104474-01A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32971**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>		Sample ID: <b>MBLK-32971-32971</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 02:36 PM</b>		
Client ID:		Run ID: <b>HG1_110422B</b>				SeqNo: <b>1608104</b>		Prep Date: <b>4/22/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

<b>LCS</b>		Sample ID: <b>LCS-32971-32971</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 02:43 PM</b>		
Client ID:		Run ID: <b>HG1_110422B</b>				SeqNo: <b>1608107</b>		Prep Date: <b>4/22/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1676	0.020	0.1665	0	101	80-120	0			

<b>LCSD</b>		Sample ID: <b>LCSD-32971-32971</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 02:45 PM</b>		
Client ID:		Run ID: <b>HG1_110422B</b>				SeqNo: <b>1608108</b>		Prep Date: <b>4/22/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1707	0.020	0.1665	0	103	80-120	0.1676	1.82	20	

<b>MS</b>		Sample ID: <b>1104474-01BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 03:16 PM</b>		
Client ID: <b>KP 13-16 Confirmation Sample</b>		Run ID: <b>HG1_110422B</b>				SeqNo: <b>1608122</b>		Prep Date: <b>4/22/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1796	0.019	0.1622	0.03667	88.1	75-125	0			

<b>MSD</b>		Sample ID: <b>1104474-01BMDS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/22/2011 03:18 PM</b>		
Client ID: <b>KP 13-16 Confirmation Sample</b>		Run ID: <b>HG1_110422B</b>				SeqNo: <b>1608123</b>		Prep Date: <b>4/22/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1405	0.019	0.1619	0.03667	64.1	75-125	0.1796	24.4	35	S

The following samples were analyzed in this batch:

1104474-01B

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

# QC BATCH REPORT

Batch ID: **32929** Instrument ID **ICPMS1** Method: **SW6020A**

<b>MBLK</b>	Sample ID: <b>MBLK-32929-32929</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>4/21/2011 12:14 PM</b>					
Client ID:	Run ID: <b>ICPMS1_110421A</b>		SeqNo: <b>1606503</b>		Prep Date: <b>4/20/2011</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	0.01972	0.10								J
Chromium	0.005265	0.25								J
Copper	ND	0.25								
Lead	0.001298	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

<b>LCS</b>	Sample ID: <b>LCS-32929-32929</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>4/21/2011 12:20 PM</b>					
Client ID:	Run ID: <b>ICPMS1_110421A</b>		SeqNo: <b>1606504</b>		Prep Date: <b>4/20/2011</b>		DF: <b>2</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.543	0.50	5	0	90.9	80-120	0			
Barium	4.687	0.50	5	0	93.7	80-120	0			
Cadmium	4.627	0.20	5	0	92.5	80-120	0			
Chromium	4.656	0.50	5	0	93.1	80-120	0			
Copper	4.8	0.50	5	0	96	80-120	0			
Lead	4.881	0.50	5	0	97.6	80-120	0			
Nickel	4.774	0.50	5	0	95.5	80-120	0			
Selenium	4.596	0.50	5	0	91.9	80-120	0			
Silver	4.66	0.50	5	0	93.2	80-120	0			
Zinc	4.705	1.0	5	0	94.1	80-120	0			

<b>LCSD</b>	Sample ID: <b>LCSD-32929-32929</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>4/21/2011 12:26 PM</b>					
Client ID:	Run ID: <b>ICPMS1_110421A</b>		SeqNo: <b>1606505</b>		Prep Date: <b>4/20/2011</b>		DF: <b>2</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.669	0.50	5	0	93.4	80-120	4.543	2.74	20	
Barium	4.811	0.50	5	0	96.2	80-120	4.687	2.61	20	
Cadmium	4.707	0.20	5	0	94.1	80-120	4.627	1.71	20	
Chromium	4.762	0.50	5	0	95.2	80-120	4.656	2.25	20	
Copper	4.901	0.50	5	0	98	80-120	4.8	2.08	20	
Lead	4.901	0.50	5	0	98	80-120	4.881	0.409	20	
Nickel	4.65	0.50	5	0	93	80-120	4.774	2.63	20	
Selenium	4.478	0.50	5	0	89.6	80-120	4.596	2.6	20	
Silver	4.684	0.50	5	0	93.7	80-120	4.66	0.514	20	
Zinc	4.686	1.0	5	0	93.7	80-120	4.705	0.405	20	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32929**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MS</b>		Sample ID: <b>1104497-01BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/21/2011 12:38 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110421A</b>				SeqNo: <b>1606507</b>		Prep Date: <b>4/20/2011</b>		DF: <b>4</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.71	1.8	8.889	5.916	98.9	80-120	0			
Barium	58.2	1.8	8.889	48.04	114	80-120	0			O
Cadmium	9.323	0.71	8.889	0.837	95.5	80-120	0			
Chromium	28.74	1.8	8.889	20.95	87.6	80-120	0			
Copper	13.77	1.8	8.889	5.525	92.8	80-120	0			
Lead	26.33	1.8	8.889	17.24	102	80-120	0			
Nickel	14.45	1.8	8.889	5.977	95.3	80-120	0			
Selenium	8.793	1.8	8.889	0.6446	91.7	80-120	0			
Silver	8.036	1.8	8.889	0.1042	89.2	80-120	0			
Zinc	70.93	3.6	8.889	61.62	105	80-120	0			O

<b>MSD</b>		Sample ID: <b>1104497-01BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/21/2011 12:44 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110421A</b>				SeqNo: <b>1606508</b>		Prep Date: <b>4/20/2011</b>		DF: <b>4</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.25	1.7	8.606	5.916	96.8	80-120	14.71	3.16	25	
Barium	61.34	1.7	8.606	48.04	155	80-120	58.2	5.25	25	SO
Cadmium	8.964	0.69	8.606	0.837	94.4	80-120	9.323	3.92	25	
Chromium	30.77	1.7	8.606	20.95	114	80-120	28.74	6.83	25	
Copper	13.53	1.7	8.606	5.525	93	80-120	13.77	1.78	25	
Lead	26.32	1.7	8.606	17.24	105	80-120	26.33	0.0197	25	
Nickel	14.27	1.7	8.606	5.977	96.4	80-120	14.45	1.24	25	
Selenium	8.954	1.7	8.606	0.6446	96.5	80-120	8.793	1.81	25	
Silver	7.735	1.7	8.606	0.1042	88.7	80-120	8.036	3.81	25	
Zinc	73.49	3.4	8.606	61.62	138	80-120	70.93	3.55	25	SO

The following samples were analyzed in this batch:

1104474-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32916**      Instrument ID **SVMS5**      Method: **SW8270**

**MBLK**      Sample ID: **SBLKS1-32916-32916**      Units: **µg/Kg**      Analysis Date: **4/21/2011 04:40 PM**

Client ID:      Run ID: **SVMS5\_110421A**      SeqNo: **1607281**      Prep Date: **4/20/2011**      DF: **1**

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								
<i>Surr: 2,4,6-Tribromophenol</i>	1066	0	1667	0	63.9	34-140		0		
<i>Surr: 2-Fluorobiphenyl</i>	1212	0	1667	0	72.7	12-100		0		
<i>Surr: 2-Fluorophenol</i>	1341	0	1667	0	80.5	33-117		0		
<i>Surr: 4-Terphenyl-d14</i>	1953	0	1667	0	117	25-137		0		
<i>Surr: Nitrobenzene-d5</i>	1343	0	1667	0	80.6	37-107		0		
<i>Surr: Phenol-d6</i>	1292	0	1667	0	77.5	40-106		0		

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32916**      Instrument ID **SVMS5**      Method: **SW8270**

LCS		Sample ID: <b>SLCSS1-32916-32916</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/21/2011 05:54 PM</b>		
Client ID:		Run ID: <b>SVMS5_110421A</b>				SeqNo: <b>1607282</b>		Prep Date: <b>4/20/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1013	30	1333	0	76	45-110	0			
Anthracene	1068	30	1333	0	80.1	55-105	0			
Benzo(a)anthracene	1118	30	1333	0	83.8	50-110	0			
Benzo(a)pyrene	1176	30	1333	0	88.2	50-110	0			
Benzo(b)fluoranthene	1201	30	1333	0	90.1	45-115	0			
Benzo(g,h,i)perylene	1609	30	1333	0	121	40-125	0			
Benzo(k)fluoranthene	1018	30	1333	0	76.4	45-115	0			
Chrysene	1134	30	1333	0	85	55-110	0			
Dibenzo(a,h)anthracene	1522	30	1333	0	114	40-125	0			
Fluoranthene	1039	30	1333	0	78	55-115	0			
Fluorene	1039	30	1333	0	77.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1512	30	1333	0	113	40-120	0			
Naphthalene	936	30	1333	0	70.2	40-105	0			
Pyrene	1233	30	1333	0	92.5	45-125	0			
Surr: 2,4,6-Tribromophenol	1290	0	1667	0	77.4	34-140	0			
Surr: 2-Fluorobiphenyl	1206	0	1667	0	72.4	12-100	0			
Surr: 2-Fluorophenol	1204	0	1667	0	72.2	33-117	0			
Surr: 4-Terphenyl-d14	1634	0	1667	0	98	25-137	0			
Surr: Nitrobenzene-d5	1268	0	1667	0	76.1	37-107	0			
Surr: Phenol-d6	1217	0	1667	0	73	40-106	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32916**      Instrument ID **SVMS5**      Method: **SW8270**

MS				Sample ID: 1104497-01B MS		Units: µg/Kg		Analysis Date: 4/22/2011 12:06 PM		
Client ID:		Run ID: SVMS5_110422A			SeqNo: 1607931		Prep Date: 4/20/2011		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1015	140	1275	0	79.6	45-110	0			
Anthracene	1138	140	1275	8.604	88.6	55-105	0			
Benzo(a)anthracene	1370	140	1275	48.44	104	50-110	0			
Benzo(a)pyrene	1294	140	1275	45.25	98	50-110	0			
Benzo(b)fluoranthene	1847	140	1275	50.99	141	45-115	0			S
Benzo(g,h,i)perylene	527.4	140	1275	22.63	39.6	40-125	0			S
Benzo(k)fluoranthene	1498	140	1275	37.92	115	45-115	0			
Chrysene	1181	140	1275	50.67	88.7	55-110	0			
Dibenzo(a,h)anthracene	607.1	140	1275	0	47.6	40-125	0			
Fluoranthene	1510	140	1275	78.71	112	55-115	0			
Fluorene	1119	140	1275	0	87.8	50-110	0			
Indeno(1,2,3-cd)pyrene	554.5	140	1275	19.76	42	40-120	0			
Naphthalene	991	140	1275	0	77.8	40-105	0			
Pyrene	1369	140	1275	63.73	102	45-125	0			
Surr: 2,4,6-Tribromophenol	1313	0	1593	0	82.4	34-140	0			
Surr: 2-Fluorobiphenyl	983.1	0	1593	0	61.7	12-100	0			
Surr: 2-Fluorophenol	1257	0	1593	0	78.9	33-117	0			
Surr: 4-Terphenyl-d14	1295	0	1593	0	81.3	25-137	0			
Surr: Nitrobenzene-d5	1276	0	1593	0	80.1	37-107	0			
Surr: Phenol-d6	1299	0	1593	0	81.5	40-106	0			

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32916**      Instrument ID **SVMS5**      Method: **SW8270**

MSD				Sample ID: <b>1104497-01B MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/22/2011 12:43 PM</b>	
Client ID:				Run ID: <b>SVMS5_110422A</b>			SeqNo: <b>1607932</b>		Prep Date: <b>4/20/2011</b>	
									DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	971.9	140	1275	0	76.3	45-110	1015	4.33	30	
Anthracene	1075	140	1275	8.604	83.7	55-105	1138	5.62	30	
Benzo(a)anthracene	1318	140	1275	48.44	99.6	50-110	1370	3.91	30	
Benzo(a)pyrene	1256	140	1275	45.25	95	50-110	1294	3	30	
Benzo(b)fluoranthene	1561	140	1275	50.99	119	45-115	1847	16.7	30	S
Benzo(g,h,i)perylene	519.4	140	1275	22.63	39	40-125	527.4	1.52	30	S
Benzo(k)fluoranthene	1560	140	1275	37.92	119	45-115	1498	4.06	30	S
Chrysene	1090	140	1275	50.67	81.5	55-110	1181	8	30	
Dibenzo(a,h)anthracene	602.3	140	1275	0	47.3	40-125	607.1	0.791	30	
Fluoranthene	1385	140	1275	78.71	102	55-115	1510	8.7	30	
Fluorene	1056	140	1275	0	82.9	50-110	1119	5.71	30	
Indeno(1,2,3-cd)pyrene	592.7	140	1275	19.76	45	40-120	554.5	6.67	30	
Naphthalene	971.9	140	1275	0	76.3	40-105	991	1.95	30	
Pyrene	1251	140	1275	63.73	93.1	45-125	1369	9	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1281</i>	<i>0</i>	<i>1593</i>	<i>0</i>	<i>80.4</i>	<i>34-140</i>	<i>1313</i>	<i>2.46</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>876.3</i>	<i>0</i>	<i>1593</i>	<i>0</i>	<i>55</i>	<i>12-100</i>	<i>983.1</i>	<i>11.5</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1187</i>	<i>0</i>	<i>1593</i>	<i>0</i>	<i>74.5</i>	<i>33-117</i>	<i>1257</i>	<i>5.74</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>1198</i>	<i>0</i>	<i>1593</i>	<i>0</i>	<i>75.2</i>	<i>25-137</i>	<i>1295</i>	<i>7.8</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1206</i>	<i>0</i>	<i>1593</i>	<i>0</i>	<i>75.7</i>	<i>37-107</i>	<i>1276</i>	<i>5.65</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>1243</i>	<i>0</i>	<i>1593</i>	<i>0</i>	<i>78</i>	<i>40-106</i>	<i>1299</i>	<i>4.39</i>	<i>40</i>	

The following samples were analyzed in this batch: | 1104474-01B |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **R89343**      Instrument ID **VMS6**      Method: **SW8260**

<b>MBLK</b>	Sample ID: <b>VBLKW2-110424-R89343</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/25/2011 12:38 PM</b>			
Client ID:	Run ID: <b>VMS6_110424A</b>				SeqNo: <b>1608904</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
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								

<b>LCS</b>	Sample ID: <b>VLCSW1-110424-R89343</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/24/2011 11:21 PM</b>			
Client ID:	Run ID: <b>VMS6_110424A</b>				SeqNo: <b>1608902</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
Benzene	20.03	1.0	20	0	100	80-120	0			
Ethylbenzene	20.1	1.0	20	0	100	75-125	0			
m,p-Xylene	40.05	2.0	40	0	100	75-130	0			
o-Xylene	19.71	1.0	20	0	98.6	80-120	0			
Toluene	19.33	1.0	20	0	96.6	75-120	0			
Xylenes, Total	59.76	2.0	60	0	99.6	75-130	0			

<b>LCSD</b>	Sample ID: <b>VLCSW1-110424-R89343</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/24/2011 11:47 PM</b>			
Client ID:	Run ID: <b>VMS6_110424A</b>				SeqNo: <b>1608903</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
Benzene	19.36	1.0	20	0	96.8	80-120	20.03	3.4	30	
Ethylbenzene	19.03	1.0	20	0	95.2	75-125	20.1	5.47	30	
m,p-Xylene	37.87	2.0	40	0	94.7	75-130	40.05	5.6	30	
o-Xylene	18.98	1.0	20	0	94.9	80-120	19.71	3.77	30	
Toluene	18.1	1.0	20	0	90.5	75-120	19.33	6.57	30	
Xylenes, Total	56.85	2.0	60	0	94.8	75-130	59.76	4.99	30	

<b>MS</b>	Sample ID: <b>1104498-09A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/25/2011 09:45 AM</b>			
Client ID:	Run ID: <b>VMS6_110424A</b>				SeqNo: <b>1609300</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
Benzene	19.75	1.0	20	0	98.8	80-120	0			
Ethylbenzene	19.15	1.0	20	0	95.8	75-125	0			
m,p-Xylene	38.16	2.0	40	0	95.4	75-130	0			
o-Xylene	18.9	1.0	20	0	94.5	80-120	0			
Toluene	18.61	1.0	20	0	93	75-120	0			
Xylenes, Total	57.06	2.0	60	0	95.1	75-130	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **R89343** Instrument ID **VMS6** Method: **SW8260**

<b>MSD</b>		Sample ID: <b>1104498-09A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>4/25/2011 10:11 AM</b>		
Client ID:		Run ID: <b>VMS6_110424A</b>				SeqNo: <b>1609302</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
Benzene	19.11	1.0	20	0	95.6	80-120	19.75	3.29	30	
Ethylbenzene	18.65	1.0	20	0	93.2	75-125	19.15	2.65	30	
m,p-Xylene	36.98	2.0	40	0	92.4	75-130	38.16	3.14	30	
o-Xylene	18.37	1.0	20	0	91.8	80-120	18.9	2.84	30	
Toluene	18.02	1.0	20	0	90.1	75-120	18.61	3.22	30	
Xylenes, Total	55.35	2.0	60	0	92.2	75-130	57.06	3.04	30	

The following samples were analyzed in this batch: 1104474-01A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **32998** Instrument ID **WETCHEM** Method: **SW7196A**

**MBLK** Sample ID: **MBLK-32998-32998** Units: **mg/Kg** Analysis Date: **4/25/2011 03:00 PM**

Client ID: Run ID: **WETCHEM\_110425E** SeqNo: **1609785** Prep Date: **4/22/2011** DF: **1**

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

**LCS** Sample ID: **LCS-32998-32998** Units: **mg/Kg** Analysis Date: **4/25/2011 03:00 PM**

Client ID: Run ID: **WETCHEM\_110425E** SeqNo: **1609783** Prep Date: **4/22/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.911	0.48	1.938	0	98.6	75-110	0			

**LCSD** Sample ID: **LCSD-32998-32998** Units: **mg/Kg** Analysis Date: **4/25/2011 03:00 PM**

Client ID: Run ID: **WETCHEM\_110425E** SeqNo: **1609784** Prep Date: **4/22/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.857	0.50	1.984	0	93.6	75-110	1.911	2.85	20	

**MS** Sample ID: **1104474-01B MS** Units: **mg/Kg** Analysis Date: **4/25/2011 03:00 PM**

Client ID: **KP 13-16 Confirmation Sample** Run ID: **WETCHEM\_110425E** SeqNo: **1609779** Prep Date: **4/22/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.603	0.50	1.984	0.1328	74.1	60-130	0			

**MSD** Sample ID: **1104474-01B MSD** Units: **mg/Kg** Analysis Date: **4/25/2011 03:00 PM**

Client ID: **KP 13-16 Confirmation Sample** Run ID: **WETCHEM\_110425E** SeqNo: **1609780** Prep Date: **4/22/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.561	0.50	1.992	0.1328	71.7	60-130	1.603	2.69	30	

The following samples were analyzed in this batch:

1104474-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1104474  
**Project:** KP 13-16 Confirmation Sample 4/15/11

## QC BATCH REPORT

Batch ID: **R89207** Instrument ID **MOIST** Method: **A2540 G**

<b>MBLK</b>	Sample ID: <b>WBLKS1-R89207</b>				Units: % of sample			Analysis Date: <b>4/19/2011 11:57 AM</b>		
Client ID:	Run ID: <b>MOIST_110419B</b>				SeqNo: <b>1605090</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-R89207</b>				Units: % of sample			Analysis Date: <b>4/19/2011 11:57 AM</b>		
Client ID:	Run ID: <b>MOIST_110419B</b>				SeqNo: <b>1605086</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			

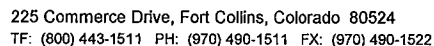
<b>DUP</b>	Sample ID: <b>1104469-01A DUP</b>				Units: % of sample			Analysis Date: <b>4/19/2011 11:57 AM</b>		
Client ID:	Run ID: <b>MOIST_110419B</b>				SeqNo: <b>1605079</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	38.27	0.050	0	0	0	0-0	33.75	12.6	20	

The following samples were analyzed in this batch:

1104474-01B

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








## 110474

PAGE 1 of 1

DISPOSAL By Lab or Return to Client

**For metals or anions, please detail analytes below.**

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY			4/19/11	4:20
RECEIVED BY		KEITH W. ERENCA	4/19/11	1100
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 19-Apr-11 11:00

Work Order: 1104474

Received by: KRW

Checklist completed by Keith Wurenga 19-Apr-11  
eSignature Date

Reviewed by: Ann Preston 20-Apr-11  
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):			
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:

# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

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**Paragon OrderNum:** 1009013

**Client Name:** HRL Compliance Solutions

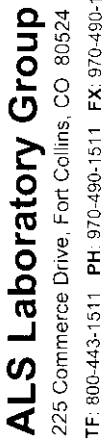
**Client Project Name:** Williams KP 13-16

**Client Project Number:**

**Client PO Number:**

---

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Point of Terminus	1009013-1		SOIL	31-Aug-10	9:30
Culvert	1009013-2		SOIL	31-Aug-10	9:45
Origin	1009013-3		SOIL	31-Aug-10	9:00
BKGD 1	1009013-4		SOIL	31-Aug-10	9:50
BKGD 2	1009013-5		SOIL	31-Aug-10	9:55
BKGD 3	1009013-6		SOIL	31-Aug-10	10:00



109613

4 of 32

**Originator:** Retain pink page or a photocopy!

Form 2027 (5/19/09)



## CONDITION OF SAMPLE UPON RECEIPT FORM

Client: HRLWorkorder No: 1009013Project Manager: JKInitials: CDT Date: 9-1-10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>      </u> < green pea <u>      </u> > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <input checked="" type="radio"/> #4		RAD ONLY	<input checked="" type="radio"/> YES
Cooler #: <u>1</u>			
Temperature (°C): <u>5.2</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>13</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

If applicable, was the client contacted? YES / NO ☒ NA Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_Project Manager Signature / Date: [Signature] 9/1/10

\*IR Gun #2: Oakton, SN 29922500201-0066

\*IR Gun #4: Oakton, SN 2372220101-0002



# FedEx® US Airbill

8660 5244 3912

0200

FedEx Retrieval Copy

1 From Date 8/31/10 Sender's FedEx Account Number 970 443 3371

Sender's Name Kris Rowe Phone 970 443 3371

Company H&C Compliance Solutions, Inc.

Address 744 Harrison St

City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To Recipient's Name Sample Receiving Phone 970 490-1511

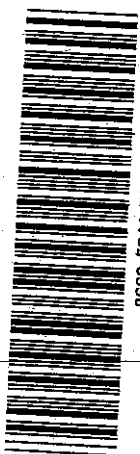
Company ALS Laboratory Group

Recipient's Address 325 Commerce Drive

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

Address To request a package be held at a specific FedEx location, print FedEx address here.

City Fort Collins State CO ZIP 80504



8660 5244 3912

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 Second business day, before 12 p.m.®  
 Mon-Fri. Delivery by 12 p.m.®  
 Saturday Delivery NOT available.  
 Packages over 150 lbs.  
☐ FedEx 3Day Freight®  
 Third business day, before 3 p.m.®  
 Mon-Fri. Delivery by 3 p.m.®  
 Saturday Delivery NOT available.  
 Packages over 150 lbs.

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☐ FedEx Pak®  
 Includes FedEx Small Pak and FedEx Large Pak and FedEx Sure Pak.  
☐ FedEx Tube  
☒ Other  
 Declared value limit \$500.

6 Special Handling  
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 Not available for FedEx Priority Overnight, FedEx Standard Overnight, FedEx 2Day, FedEx Express Saver, FedEx 1Day Freight, FedEx 2Day Freight, and FedEx 3Day Freight.  
☐ HOLD Weekday at FedEx Location  
 Not available for FedEx Priority Overnight, FedEx Standard Overnight, FedEx 2Day, FedEx Express Saver, FedEx 1Day Freight, FedEx 2Day Freight, and FedEx 3Day Freight.  
☐ HOLD Saturday at FedEx Location  
 Not available for FedEx Priority Overnight, FedEx Standard Overnight, FedEx 2Day, FedEx Express Saver, FedEx 1Day Freight, FedEx 2Day Freight, and FedEx 3Day Freight.  
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 Shipper's Declaration  
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 Signature of someone at the recipient's address may sign for delivery. Fee applies.  
 Rev. Date 10/06/07 7/15/2010 © 2008 FedEx® PRINTED IN U.S.A. 520

**ALS Environmental -- FC****SAMPLE SUMMARY REPORT**

**Client:** HRL Compliance Solutions  
**Project:** Williams KP 13-16  
**Sample ID:** BKGD 1  
**Collection Date:** 8/31/2010 09:50

**Date:** 17-Sep-10  
**Work Order:** 1009013  
**Lab ID:** 1009013-4  
**Matrix:** SOIL  
**Percent Moisture:** 3.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
ICPMS METALS			SW6020				
ARSENIC	4200		200	UG/KG	10	17	9/9/2010 13:11

**ALS Environmental -- FC****SAMPLE SUMMARY REPORT**

**Client:** HRL Compliance Solutions  
**Project:** Williams KP 13-16  
**Sample ID:** BKGD 2  
**Collection Date:** 8/31/2010 09:55

**Date:** 17-Sep-10  
**Work Order:** 1009013  
**Lab ID:** 1009013-5  
**Matrix:** SOIL  
**Percent Moisture:** 3.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
ICPMS METALS			SW6020				
ARSENIC	4800		200	UG/KG	10	17	9/9/2010 13:14

**ALS Environmental -- FC****SAMPLE SUMMARY REPORT**

**Client:** HRL Compliance Solutions  
**Project:** Williams KP 13-16  
**Sample ID:** BKGD 3  
**Collection Date:** 8/31/2010 10:00

**Date:** 17-Sep-10  
**Work Order:** 1009013  
**Lab ID:** 1009013-6  
**Matrix:** SOIL  
**Percent Moisture:** 10.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
ICPMS METALS			SW6020				
ARSENIC	4500		230	UG/KG	10	19	9/9/2010 13:16

# ALS Environmental -- FC

# SAMPLE SUMMARY REPORT

**Client:** HRL Compliance Solutions  
**Project:** Williams KP 13-16  
**Sample ID:** BKGD 3  
**Collection Date:** 8/31/2010 10:00

**Date:** 17-Sep-10  
**Work Order:** 1009013  
**Lab ID:** 1009013-6  
**Matrix:** SOIL  
**Percent Moisture:** 10.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
----------	--------	------	--------------	-------	-----------------	-----	---------------

## Explanation of Qualifiers

### Radiochemistry:

U - Result is less than the sample specific MDC.  
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.  
Y2 - Chemical Yield outside default limits.  
W - DER is greater than Warning Limit of 1.42  
\* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.  
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.  
G - Sample density differs by more than 15% of LCS density.  
D - DER is greater than Control Limit  
M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.  
L - LCS Recovery below lower control limit.  
H - LCS Recovery above upper control limit.  
P - LCS, Matrix Spike Recovery within control limits.  
N - Matrix Spike Recovery outside control limits  
NC - Not Calculated for duplicate results less than 5 times MDC  
B - Analyte concentration greater than MDC.  
B3 - Analyte concentration greater than MDC but less than Requested MDC.

### Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).  
U - Indicates that the compound was analyzed for but not detected.  
E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.  
M - Duplicate injection precision was not met.  
N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.  
Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.  
\* - Duplicate analysis (relative percent difference) not within control limits.

### Organics:

U - Indicates that the compound was analyzed for but not detected.  
B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.  
E - Analyte concentration exceeds the upper level of the calibration range.  
J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).  
A - A tentatively identified compound is a suspected aldol-condensation product.  
X - The analyte was diluted below an accurate quantitation level.  
\* - The spike recovery is equal to or outside the control criteria used.  
+ - The relative percent difference (RPD) equals or exceeds the control criteria.

### Diesel Range Organics:

# ALS Environmental -- FC

# SAMPLE SUMMARY REPORT

**Client:** HRL Compliance Solutions  
**Project:** Williams KP 13-16  
**Sample ID:** BKGD 3  
**Collection Date:** 8/31/2010 10:00

**Date:** 17-Sep-10  
**Work Order:** 1009013  
**Lab ID:** 1009013-6  
**Matrix:** SOIL  
**Percent Moisture:** 10.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
<p>G - A pattern resembling gasoline was detected in this sample.</p> <p>D - A pattern resembling diesel was detected in this sample.</p> <p>M - A pattern resembling motor oil was detected in this sample.</p> <p>C - A pattern resembling crude oil was detected in this sample.</p> <p>4 - A pattern resembling JP-4 was detected in this sample.</p> <p>5 - A pattern resembling JP-5 was detected in this sample.</p> <p>H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.</p> <p>L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.</p> <p>Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:</p> <ul style="list-style-type: none"> <li>- gasoline</li> <li>- JP-8</li> <li>- diesel</li> <li>- mineral spirits</li> <li>- motor oil</li> <li>- Stoddard solvent</li> <li>- bunker C</li> </ul>							

# ALS Environmental -- FC

Date: 9/17/2010 11:50

Client: HRL Compliance Solutions

## QC BATCH REPORT

Work Order: 1009013

Project: Williams KP 13-16

Batch ID: EX100909-4-1 Instrument ID: FUELS-1 Method: SW8015M

LCS	Sample ID: EX100909-4				Units: MG/KG		Analysis Date: 9/9/2010 21:54			
Client ID:	Run ID: HCD100909-3A				Prep Date: 9/9/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	49.7	5	50		99	43-139			20	
Surr: O-TERPHENYL	7.1		12.5		57	47-142				

LCSD	Sample ID: EX100909-4				Units: MG/KG		Analysis Date: 9/9/2010 22:48			
Client ID:	Run ID: HCD100909-3A				Prep Date: 9/9/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	50.1	5	50		100	43-139	49.7	1	20	
Surr: O-TERPHENYL	6.92		12.5		55	47-142		3		

MB	Sample ID: EX100909-4				Units: MG/KG		Analysis Date: 9/9/2010 21:00			
Client ID:	Run ID: HCD100909-3A				Prep Date: 9/9/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	ND	5								
Surr: O-TERPHENYL	7.23		12.5		58	47-142				

The following samples were analyzed in this batch:

1009013-1 1009013-2

**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **HCG100908-1-1** Instrument ID: **FUELS-1** Method: **SW8015**

**LCS** Sample ID: **HCG100908-1** Units: **MG/KG** Analysis Date: **9/8/2010 10:59**

Client ID: Run ID: **HCG100908-1A** Prep Date: **9/8/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	5.28	0.5	5		106	79-118			20	
Surr: 2,3,4-TRIFLUOROTOLUEN	0.567		0.5		113	76-126				

**LCSD** Sample ID: **HCG100908-1** Units: **MG/KG** Analysis Date: **9/8/2010 17:19**

Client ID: Run ID: **HCG100908-1A** Prep Date: **9/8/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	4.82	0.5	5		96	79-118	5.28	9	20	
Surr: 2,3,4-TRIFLUOROTOLUEN	0.572		0.5		114	76-126		1		

**MB** Sample ID: **HCG100908-1** Units: **MG/KG** Analysis Date: **9/8/2010 11:28**

Client ID: Run ID: **HCG100908-1A** Prep Date: **9/8/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	0.5								
Surr: 2,3,4-TRIFLUOROTOLUEN	0.545		0.5		109	76-126				

The following samples were analyzed in this batch:

1009013-1	1009013-2	1009013-3
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**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **HG100903-1-3** Instrument ID: **CETAC** Method: **SW7471**

LCS	Sample ID: <b>HG100903-2</b>				Units: <b>MG/KG</b>		Analysis Date: <b>9/7/2010 14:47</b>			
Client ID:	Run ID: <b>HG100907-1A5</b>				Prep Date: <b>9/3/2010</b>			DF: <b>1</b>		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.165	0.0333	0.167		99	80-120			20	

MB	Sample ID: HG100903-2				Units: MG/KG			Analysis Date: 9/7/2010 14:46		
Client ID:	Run ID: HG100907-1A5				Prep Date: 9/3/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.0023	0.033								B

MS	Sample ID: 1009013-1				Units: MG/KG		Analysis Date: 9/7/2010 15:02			
Client ID: Point of Terminus		Run ID: HG100907-1A5				Prep Date: 9/3/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.469	0.0453	0.453	0.026	98	80-120			20	

MSD	Sample ID: 1009013-1				Units: MG/KG		Analysis Date: 9/7/2010 15:03			
Client ID: Point of Terminus		Run ID: HG100907-1A5				Prep Date: 9/3/2010		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.455	0.0449	0.449	0.026	96	80-120	0.469	3	20	

The following samples were analyzed in this batch:

1009013-1	1009013-2	1009013-3
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**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **IP100908-1-4** Instrument ID: **ICPMS2** Method: **SW6020**

**LCS** Sample ID: **IM100908-1** Units: **UG/KG** Analysis Date: **9/9/2010 12:35**

Client ID: Run ID: **IM100909-10A3** Prep Date: **9/8/2010** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
ARSENIC	10100	200	10000		101	80-120			20	

**MB** Sample ID: **IP100908-1** Units: **UG/KG** Analysis Date: **9/9/2010 12:30**

Client ID: Run ID: **IM100909-10A3** Prep Date: **9/8/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
ARSENIC	ND	20								

The following samples were analyzed in this batch:

1009013-1	1009013-2	1009013-3
1009013-4	1009013-5	1009013-6

**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **IP100908-1-7** Instrument ID: **ICPTrace2** Method: **SW6010**

**LCS** Sample ID: **IP100908-1** Units: **MG/KG** Analysis Date: **9/9/2010 13:01**

Client ID: Run ID: **IT100909-2A2** Prep Date: **9/8/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	200	10	200		100	80-120			20	
CADMIUM	4.83	0.5	5		97	80-120			20	
CHROMIUM	19.4	1	20		97	80-120			20	
COPPER	25.5	1	25		102	80-120			20	
LEAD	48.7	0.3	50		97	80-120			20	
NICKEL	47.7	2	50		95	80-120			20	
SELENIUM	178	0.5	200		89	80-120			20	
SILVER	9.57	1	10		96	80-120			20	
ZINC	48.2	2	50		96	80-120			20	

**MB** Sample ID: **IP100908-1** Units: **MG/KG** Analysis Date: **9/9/2010 12:56**

Client ID: Run ID: **IT100909-2A2** Prep Date: **9/8/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	ND	10								
CADMIUM	ND	0.5								
CHROMIUM	ND	1								
COPPER	ND	1								
LEAD	ND	0.3								
NICKEL	ND	2								
SELENIUM	ND	0.5								
SILVER	ND	1								
ZINC	ND	2								

The following samples were analyzed in this batch:

1009013-1 1009013-2 1009013-3

**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **EX100908-7-1**      Instrument ID: **HPSV1**      Method: **SW8270SIMPAAH**

<b>LCS</b>		Sample ID: <b>EX100908-7</b>		Units: <b>UG/KG</b>		Analysis Date: <b>9/13/2010 16:37</b>				
Client ID:		Run ID: <b>SV100913-1</b>		Prep Date: <b>9/8/2010</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
NAPHTHALENE	48	3.33	66.7		72	40-107			30	
2-METHYLNAPHTHALENE	48.8	3.33	66.7		73	47-107			30	
ACENAPHTHYLENE	52.5	3.33	66.7		79	44-107			30	
ACENAPHTHENE	49.6	3.33	66.7		74	46-108			30	
FLUORENE	57.5	3.33	66.7		86	49-108			30	
PHENANTHRENE	59.5	3.33	66.7		89	50-110			30	
ANTHRACENE	55.1	3.33	66.7		83	53-107			30	
FLUORANTHENE	53.9	3.33	66.7		81	54-114			30	
PYRENE	60.9	3.33	66.7		91	46-123			30	
BENZO(A)ANTHRACENE	60.7	3.33	66.7		91	52-111			30	
CHRYSENE	61.8	3.33	66.7		93	53-112			30	
BENZO(B)FLUORANTHENE	55.3	3.33	66.7		83	45-114			30	
BENZO(K)FLUORANTHENE	55.6	3.33	66.7		83	45-123			30	
BENZO(A)PYRENE	54.7	3.33	66.7		82	50-111			30	
INDENO(1,2,3-CD)PYRENE	57	3.33	66.7		86	38-121			30	
DIBENZO(A,H)ANTHRACENE	57.3	3.33	66.7		86	41-125			30	
BENZO(G,H,I)PERYLENE	65.2	3.33	66.7		98	38-126			30	
Surr: NITROBENZENE-D5	55		66.7		82	28-113				
Surr: 2-FLUOROBIPHENYL	54.2		66.7		81	41-106				
Surr: TERPHENYL-D14	57.9		66.7		87	25-147				

**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **EX100908-7-1**      Instrument ID: **HPSV1**      Method: **SW8270SIMPAH**

<b>MB</b>		Sample ID: <b>EX100908-7</b>			Units: <b>UG/KG</b>		Analysis Date: <b>9/13/2010 16:16</b>			
Client ID:		Run ID: <b>SV100913-1</b>			Prep Date: <b>9/8/2010</b>		DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
NAPHTHALENE	ND	3.3								
2-METHYLNAPHTHALENE	ND	3.3								
1-METHYLNAPHTHALENE	ND	3.3								
ACENAPHTHYLENE	ND	3.3								
ACENAPHTHENE	ND	3.3								
FLUORENE	ND	3.3								
PHENANTHRENE	ND	3.3								
ANTHRACENE	ND	3.3								
FLUORANTHENE	ND	3.3								
PYRENE	ND	3.3								
BENZO(A)ANTHRACENE	ND	3.3								
CHRYSENE	ND	3.3								
BENZO(B)FLUORANTHENE	ND	3.3								
BENZO(K)FLUORANTHENE	ND	3.3								
BENZO(A)PYRENE	ND	3.3								
INDENO(1,2,3-CD)PYRENE	ND	3.3								
DIBENZO(A,H)ANTHRACENE	ND	3.3								
BENZO(G,H,I)PERYLENE	ND	3.3								
Surr: NITROBENZENE-D5	60.4		66.7		91	28-113				
Surr: 2-FLUOROBIPHENYL	58.2		66.7		87	41-106				
Surr: TERPHENYL-D14	65.5		66.7		98	25-147				

The following samples were analyzed in this batch:

1009013-1	1009013-2	1009013-3
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Client: HRL Compliance Solutions  
 Work Order: 1009013  
 Project: Williams KP 13-16

# QC BATCH REPORT

Batch ID: **VL100910-3-2** Instrument ID: **HPV1** Method: **SW8260**

LCS	Sample ID: VL100910-3				Units: UG/KG		Analysis Date: 9/10/2010 13:54			
Client ID:	Run ID: VL100910-3A				Prep Date: 9/10/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.7	5	50		87	73-126			30	
TOLUENE	44.4	5	50		89	71-127			30	
ETHYLBENZENE	44.6	5	50		89	74-127			30	
M+P-XYLENE	90.7	5	100		91	79-126			30	
O-XYLENE	45.8	5	50		92	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.6		50		101	61-134				
Surr: TOLUENE-D8	49.8		50		100	57-135				
Surr: 4-BROMOFLUOROBENZEN	50.3		50		101	52-151				

LCSD	Sample ID: VL100910-3				Units: UG/KG		Analysis Date: 9/10/2010 14:17			
Client ID:	Run ID: VL100910-3A				Prep Date: 9/10/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	45	5	50		90	73-126	43.7	3	30	
TOLUENE	45	5	50		90	71-127	44.4	1	30	
ETHYLBENZENE	45.1	5	50		90	74-127	44.6	1	30	
M+P-XYLENE	91.7	5	100		92	79-126	90.7	1	30	
O-XYLENE	46.4	5	50		93	77-125	45.8	1	30	
Surr: DIBROMOFLUOROMETHA	50.1		50		100	61-134		1		
Surr: TOLUENE-D8	49.3		50		99	57-135		1		
Surr: 4-BROMOFLUOROBENZEN	48.4		50		97	52-151		4		

MB	Sample ID: VL100910-3			Units: UG/KG			Analysis Date: 9/10/2010 15:50			
Client ID:	Run ID: VL100910-3A						Prep Date: 9/10/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	48.3		50		97	61-134				
Surr: TOLUENE-D8	48.7		50		97	57-135				
Surr: 4-BROMOFLUOROBENZEN	51.1		50		102	52-151				

The following samples were analyzed in this batch:

1009013-1	1009013-2	1009013-3
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**Client:** HRL Compliance Solutions  
**Work Order:** 1009013  
**Project:** Williams KP 13-16

## QC BATCH REPORT

Batch ID: **CR100909-1-1** Instrument ID: **Spec** Method: **SW7196**

<b>LCS</b>	Sample ID: <b>CR100909-1</b>			Units: <b>MG/KG</b>			Analysis Date: <b>9/13/2010</b>			
Client ID:	Run ID: <b>cr100913-1a</b>			Prep Date: <b>9/9/2010</b>			DF: <b>5</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
CHROMIUM VI	51.3	2	50		103	80-120			20	

<b>MB</b>	Sample ID: <b>CR100909-1</b>			Units: <b>MG/KG</b>			Analysis Date: <b>9/13/2010</b>			
Client ID:	Run ID: <b>cr100913-1a</b>			Prep Date: <b>9/9/2010</b>			DF: <b>5</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
CHROMIUM VI	ND	2								

The following samples were analyzed in this batch:

1009013-1	1009013-2	1009013-3
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08-Nov-2011

Mark Mumby  
HRL Compliance Solutions  
744 Horizon Ct. Suite 140  
Grand Junction, CO 81506

Re: **Gonzo KP 13-16 11-150 10/28/11**

Work Order: **1111082**

Dear Mark,

ALS Environmental received 2 samples on 02-Nov-2011 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 14.

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: IL100452

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

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

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

RIGHT SOLUTIONS RIGHT PARTNER



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**Client:** HRL Compliance Solutions  
**Project:** Gonzo KP 13-16 11-150 10/28/11  
**Work Order:** 1111082

**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>
1111082-01	Onsite Between Tank and Seperator	Soil		10/28/2011 14:15	11/2/2011 10:00	<input type="checkbox"/>
1111082-02	BKGD 3	Soil		10/28/2011 14:20	11/2/2011 10:00	<input type="checkbox"/>

## ALS Group USA, Corp

*Date: 08-Nov-11*

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**Client:** HRL Compliance Solutions  
**Project:** Gonzo KP 13-16 11-150 10/28/11  
**Work Order:** 1111082

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### Case Narrative

Batch 37096 MS/MSD data for Arsenic is not related to this project's samples.

**Client:** HRL Compliance Solutions  
**Project:** Gonzo KP 13-16 11-150 10/28/11  
**WorkOrder:** 1111082

**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 as noted	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

## ALS Group USA, Corp

Date: 08-Nov-11

**Client:** HRL Compliance Solutions

**Project:** Gonzo KP 13-16 11-150 10/28/11

**Sample ID:** Onsite Between Tank and Seperator

**Collection Date:** 10/28/2011 02:15 PM

**Work Order:** 1111082

**Lab ID:** 1111082-01

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
Subcontracted Analyses	Rcvd 11/5/11			as noted	1	11/5/2011
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JJG</b>
pH	8.90			s.u.	1	11/2/2011 08:40 AM

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

**ALS Group USA, Corp****Date:** 08-Nov-11

**Client:** HRL Compliance Solutions  
**Project:** Gonzo KP 13-16 11-150 10/28/11  
**Sample ID:** BKGD 3  
**Collection Date:** 10/28/2011 02:20 PM

**Work Order:** 1111082  
**Lab ID:** 1111082-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>						
Arsenic	3.4		SW6020A 1.0	mg/Kg-dry	Prep Date: 11/2/2011 2	Analyst: CES 11/4/2011 04:50 AM
<b>SUBCONTRACTED ANALYSES</b>						
Subcontracted Analyses	Rcvd 11/5/11		SUBCONTRACT as noted		1	Analyst: A&LGL 11/5/2011
<b>MOISTURE</b>						
Moisture	23		A2540 G 0.050	% of sample	1	Analyst: CG 11/2/2011 04:02 PM
<b>PH</b>						
pH	7.82		SW9045D	s.u.	1	Analyst: JJG 11/2/2011 08:40 AM

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

Report Number: F11307-0732

Account Number: 91000

# A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

www.algreatlakes.com • lab@algreatlakes.com



**QUALITY ANALYSES FOR INFORMED DECISIONS**

TO: ALS LABORATORY GROUP  
3352 128TH AVE  
HOLLAND, MI 49424-9263

RE: 1111082

DATE RECEIVED: 11/03/2011

DATE REPORTED: 11/05/2011

PAGE: 1

P.O. NUMBER: 20-122011151

ATTN: ANN PRESTON

## REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
43752	01B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	1.74	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	49	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	11	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1370	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	45.9	-	USDA Handbook 60
43753	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.23	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	29	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	5	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	21	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	1.0	-	USDA Handbook 60

**Client:** HRL Compliance Solutions  
**Work Order:** 1111082  
**Project:** Gonzo KP 13-16 11-150 10/28/11

# QC BATCH REPORT

Batch ID: **37096** Instrument ID **ICPMS1** Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-37096-37096</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/4/2011 04:13 AM</b>		
Client ID:		Run ID: <b>ICPMS1_111103A</b>				SeqNo: <b>1806613</b>		Prep Date: <b>11/2/2011</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								

<b>LCS</b>		Sample ID: <b>LCS-37096-37096</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/4/2011 04:40 AM</b>		
Client ID:		Run ID: <b>ICPMS1_111103A</b>				SeqNo: <b>1806616</b>		Prep Date: <b>11/2/2011</b>		DF: <b>2</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.334	0.50	5	0	86.7	80-120	0			

<b>LCSD</b>		Sample ID: <b>LCSD-37096-37096</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/4/2011 04:45 AM</b>		
Client ID:		Run ID: <b>ICPMS1_111103A</b>				SeqNo: <b>1806617</b>		Prep Date: <b>11/2/2011</b>		DF: <b>2</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.406	0.50	5	0	88.1	80-120	4.334	1.65	20	

<b>MS</b>		Sample ID: <b>1111089-09AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/4/2011 05:27 AM</b>		
Client ID:		Run ID: <b>ICPMS1_111103A</b>				SeqNo: <b>1806625</b>		Prep Date: <b>11/2/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.801	0.36	7.225	3.664	71.1	80-120	0			S

<b>MSD</b>		Sample ID: <b>1111089-09AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/4/2011 07:19 AM</b>		
Client ID:		Run ID: <b>ICPMS1_111103A</b>				SeqNo: <b>1806821</b>		Prep Date: <b>11/2/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.496	0.37	7.418	3.664	78.6	80-120	8.801	7.6	25	S

The following samples were analyzed in this batch:

1111082-02A

**Client:** HRL Compliance Solutions  
**Work Order:** 1111082  
**Project:** Gonzo KP 13-16 11-150 10/28/11

## QC BATCH REPORT

Batch ID: **R97108**      Instrument ID **WETCHEM**      Method: **SW9045D**

LCS					Sample ID: LCS-R97108-R97108					Units: s.u.			Analysis Date: 11/2/2011 08:40 AM			
Client ID:					Run ID: WETCHEM_111102E					SeqNo: 1804176			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					4.32		0	4.4	0	98.2	90-110	0				

DUP					Sample ID: 1111065-01A DUP					Units: s.u.			Analysis Date: 11/2/2011 08:40 AM			
Client ID:					Run ID: WETCHEM_111102E					SeqNo: 1804178			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					8.65		0	0	0	0	0-0	8.65	0	20		

DUP	Sample ID: 1111089-01A DUP					Units: s.u.		Analysis Date: 11/2/2011 08:40 AM		
Client ID:			Run ID: WETCHEM_111102E			SeqNo: 1804191		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.86	0	0	0	0	0-0	7.86	0	20	

The following samples were analyzed in this batch:

1111082-01A      1111082-02A

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1111082  
**Project:** Gonzo KP 13-16 11-150 10/28/11

## QC BATCH REPORT

Batch ID: **R97159**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>	Sample ID: <b>WBLKS1-R97159</b>				Units: % of sample			Analysis Date: <b>11/2/2011 04:02 PM</b>		
Client ID:	Run ID: <b>MOIST_111102G</b>				SeqNo: <b>1805469</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-R97159</b>				Units: % of sample			Analysis Date: <b>11/2/2011 04:02 PM</b>		
Client ID:	Run ID: <b>MOIST_111102G</b>				SeqNo: <b>1805468</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>1111056-04ADUP</b>				Units: % of sample			Analysis Date: <b>11/2/2011 04:02 PM</b>		
Client ID:	Run ID: <b>MOIST_111102G</b>				SeqNo: <b>1805459</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      4.51      0.050      0      0      0      0-0      4.31      4.54      20

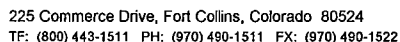
<b>DUP</b>	Sample ID: <b>1111082-02ADUP</b>				Units: % of sample			Analysis Date: <b>11/2/2011 04:02 PM</b>		
Client ID: <b>BKGD 3</b>	Run ID: <b>MOIST_111102G</b>				SeqNo: <b>1805463</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      22      0.050      0      0      0      0-0      22.57      2.56      20

The following samples were analyzed in this batch:

1111082-02A

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



**WORKORDER**  
#

1111082



Form 202r8

[illegible]

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

For metals or anions, please detail analytes below.

<b>Comments:</b>  <div style="text-align: center; font-size: 2em;">3.2.1</div>	<b>QC PACKAGE (check below)</b>	
	X	LEVEL II (Standard QC)
	<input checked="" type="checkbox"/>	LEVEL III (Std QC + forms)
	<input checked="" type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>	
<b>Preservative Key:</b> 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		DANIEL PINEDA	10/31/2011	5:00 PM
RECEIVED BY		Diane F. Shaw	11/2/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

**Subcontractor:**

A &amp; L Great Lakes Agricultural La

3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Ft. Wayne, IN 46808

Acct #: 91000

**CHAIN-OF-CUSTODY RECORD**Date: **02-Nov-11**COC ID: **3275**Due Da **08-Nov-11**

Page 1 of 1

**Environmental**

Salesperson

Debbie Fazio

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	20-122011151	Project Name	1111082	A	Subcontracted Analyses (SUBCONTRACT) <b>SAR-EC</b>												
Work Order		Project Number		B													
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C													
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D													
Address	3352 128th Avenue	Address	3352 128th Avenue	E													
				F													
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G													
Phone	(616) 399-6070	Phone	(616) 399-6070	H													
Fax	(616) 399-6185	Fax	(616) 399-6185	I													
eMail Address	ann.preston@alsglobal.com	eMail CC		J													
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J				
1111082-01B	Soil	28/Oct/2011 14:15	(1) MISC	X													
1111082-02B	Soil	28/Oct/2011 14:20	(1) MISC	X													

**Comments:**

Please analyze these samples per our instructions and indicated turnaround requirements. Please include all QC with data. The samples need to be returned once final report is issued. Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 02-Nov-11 10:00

Work Order: 1111082

Received by: DS

Checklist completed by Diane Shaw 02-Nov-11  
eSignature Date

Reviewed by: Alex Csaszar 02-Nov-11  
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>3.2 c</u>		
Cooler(s)/Kit(s):			
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

8769 1479 5761

0200

Form 4030

FedEx Retrieval Copy

Page 23

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From  
Date 11/11/11 Sender's FedEx Account Number  
Sender's Name XXXXXXXXXX Phone XXXXXXXXXX  
Company XXXXXXXXXX  
Address XXXXXXXXXX  
City XXXXXXXXXX State XXXX ZIP XXXXXX

2 Your Internal Billing Reference

3 To  
Recipient's Name XXXXXXXXXX Phone XXXXXXXXXX  
Company XXXXXXXXXX  
Address XXXXXXXXXX  
We cannot deliver to P.O. boxes or P.O. ZIP codes.  
Address XXXXXXXXXX  
Use this line for the HOLD location address or for continuation of your shipping address.  
City XXXXXXXXXX State XXXX ZIP XXXXXX

HOLD Weekday  
FedEx Express  
REQUIRED for delivery  
FedEx Express

01

HOLD Saturday  
FedEx Express  
REQUIRED for delivery  
FedEx Express

31



1479 5761

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

06 ☐ FedEx First Overnight  
Earliest next business morning delivery to select locations. Friday delivery only. Not for international Monday unless SATURDAY Delivery is selected.

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

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

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

03 ☐ FedEx 2Day  
Second business morning. Thursday shipments will be delivered on Friday unless SATURDAY Delivery is selected.

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

5 Packaging

Declared value limit \$500.

06 ☐ FedEx Envelope

02 ☐ FedEx Pak

03 ☐ FedEx Box

04 ☐ FedEx Tube

01 ☐ Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

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

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

34

Does this shipment contain dangerous goods?  
One box must be checked.

☒ No 04

☐ Yes  
As per attached Shipper's Declaration

☐ Yes  
Shippers Declaration not required

06 ☐ Dry Ice  
Dry Ice, 9

Dangerous goods for safety dry ice cannot be shipped in FedEx Express Box.

7 Payment Bill to:

1 ☐ Singular  
2 ☐ Joint  
3 ☐ Third Party  
4 ☐ Check

Total Packing XXXXXXXXXX  
Total Insurance XXXXXXXXXX  
Total XXXXXXXXXX

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

Rev'D Date 11/10 • Page 4 of 11 • ©1994-2010 FedEx • PRINTED IN U.S.A. 88V

Quality Environmental Containers  
1-255-3980 • 304-255-3900

SIGNATURE

DATE 11-31-11  
S/ODY SEAL