

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  
#2216649

## 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  
10/13/2011

1. OGCC Operator Number: 98850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Williams Production RMT Company	Phone: 970-683-2295	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970-285-9573	
5. API Number 05-103-11678	OGCC Facility ID Number 416819	Survey Plat
6. Well/Facility Name: Federal	7. Well/Facility Number RGU 31-25-198	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNE Sec 25 T1S R98W 6th		Surface Eqpm Diagram
9. County: Rio Blanco	10. Field Name: Sulphur Creek	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"/> FNU/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/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	<input type="checkbox"/> Remove from surface bond
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	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 checked="" type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed: 10/12/2011
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"/> 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: 10/13/2011 Email: karolina.blaney@williams.com

Print Name: Karolina Blaney

Title: Environmental Specialist

COGCC Approved:

Title: FOR

Date: 10/25/2011

CONDITIONS OF APPROVAL, IF ANY:

Chris Canfield,  
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850 API Number: 05-103-11678  
2. Name of Operator: Williams Production RMT Company OGCC Facility ID # 416819  
3. Well/Facility Name: Federal Well/Facility Number: RGU 31-25-198  
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNE Sec 25 T1S, 98W, 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

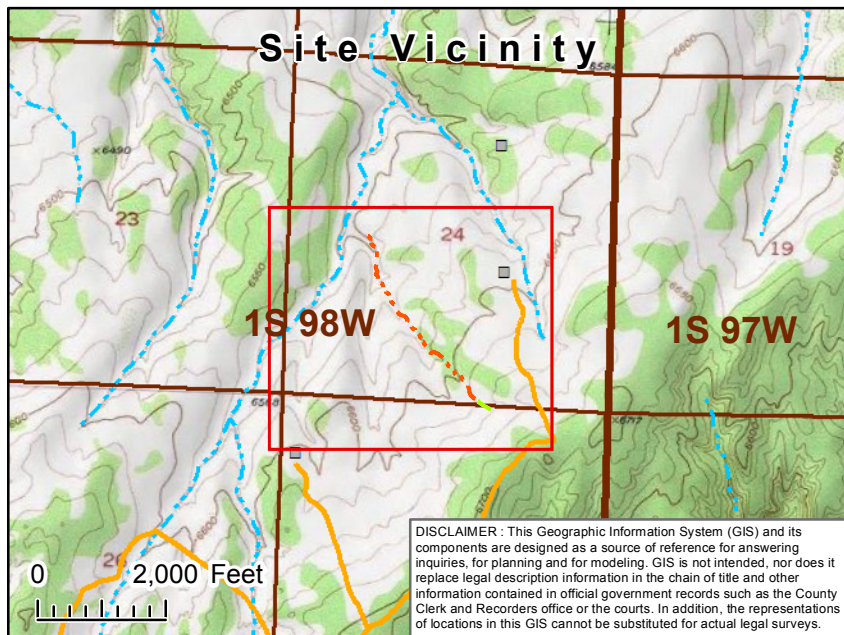
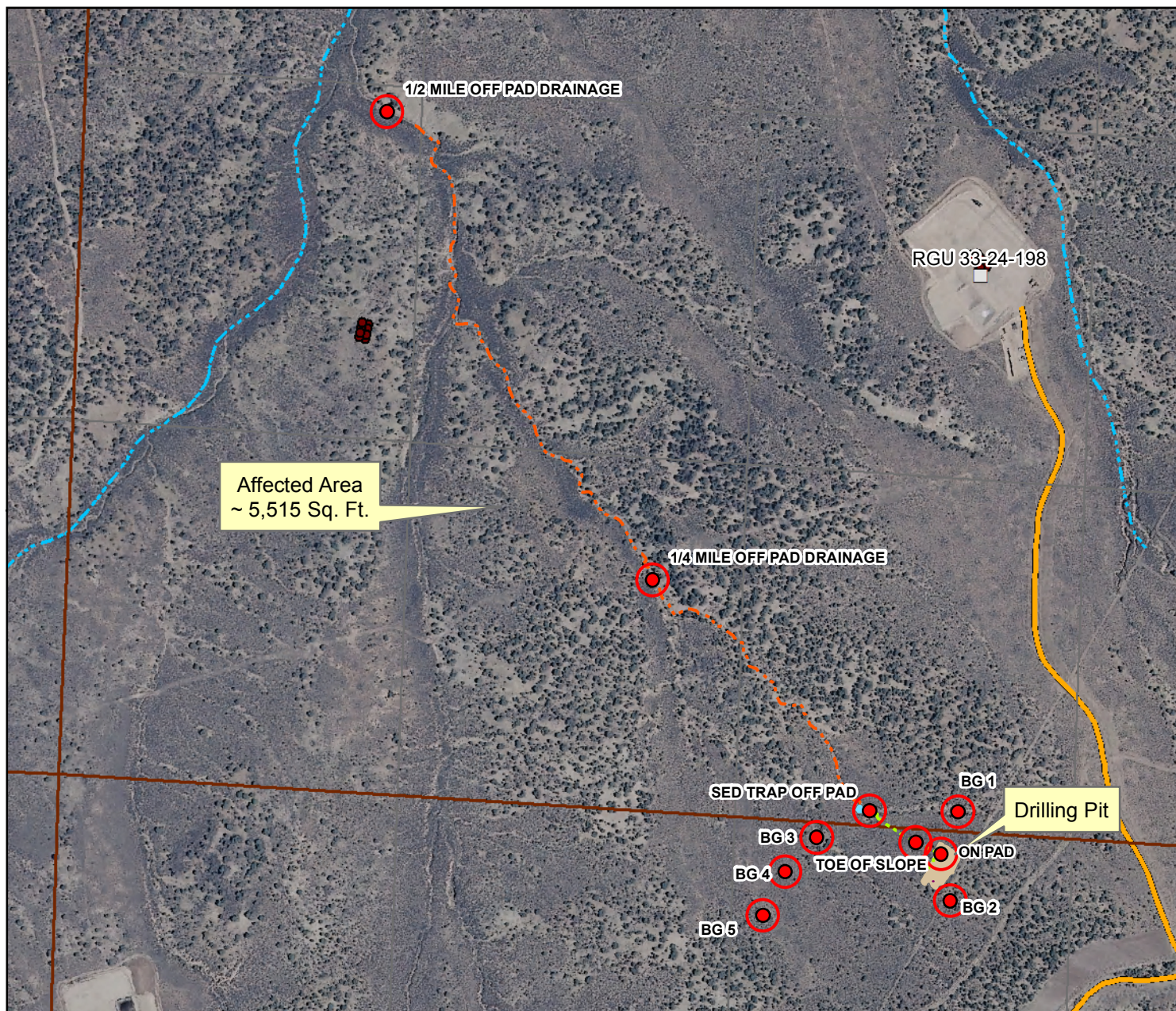
Williams Production is submitting the analytical data for the RGU 31-25-198 as requested by the COGCC on August 29, 2011. The release occurred on August 3, 2011. The incident tracking number for the release is 2215673. The areas impacted by the release were sampled on August 10, 2011. All parameters were below Table 910-1 standards for soil with the exception of the SAR sample collected on the pad. It is anticipated that the SAR value on the pad will drop as natural precipitation events attenuate the residual salt content over time. Refer to the attached map for the sampling locations. Five background arsenic samples as well as three SAR sample were collected off the pad. 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 at the point of origin, off site and background locations.

On pad	Depth collected 0-12 inches	5.3 mg/Kg
Toe of Slope	Depth collected 0-12 inches	3.3 mg/Kg
Sediment Trap	Depth collected 0-12 inches	2.9 mg/Kg
1/4 mile off pad	Depth collected 0-12 inches	1.8 mg/Kg
1/2 mile off pad	Depth collected 0-12 inches	1.6 mg/Kg
RGU 31-25-198 BG 1	Depth collected 0-12 inches	3.0 mg/Kg
RGU 31-25-198 BG 2	Depth collected 0-12 inches	2.8 mg/Kg
RGU 31-25-198 BG 3	Depth collected 0-12 inches	2.5 mg/Kg
RGU 31-25-198 BG 4	Depth collected 0-12 inches	2.2 mg/Kg
RGU 31-25-198 BG 5	Depth collected 0-12 inches	1.8 mg/Kg

Below are the analytical results for SAR on the pad, the sediment trap, toe of slope, the 1/4 and 1/2 mile sample locations, and the BG1 location.

On Pad	Depth collected 0-12 inches	62.6
Sediment Trap	Depth collected 0-12 inches	7.2
Toe of Slope	Depth collected 0-12 inches	9.2
1/4 mile off pad	Depth collected 0-12 inches	6.0
1/2 mile off pad	Depth collected 0-12 inches	2.3
RGU 31-25-198 BG 1	Depth collected 0-12 inches	3.1



## Attachment A--Sample Location Map

Location: RGU 31-25-198

Williams Production RMT

### Legend

#### Location Features

- Well Head Location

#### Affected Area

- Drainage Above Sediment Trap
- Drainage Below Sediment Trap

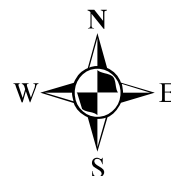
#### PLSS

- Township
- Section

Williams Access Roads

#### Hydrographic Features

- Perennial Stream
- Intermittent Stream



0 125 250 500 Feet



29-Aug-2011

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

Re: **Williams RGU 31-25-597 Pad LOE 8/10/11**

Work Order: **1108442**

Dear Mark,

ALS Environmental received 11 samples on 13-Aug-2011 11:30 AM for the analyses presented in the following report.

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

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 47.

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: 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 A small icon of the ALS Environmental logo, featuring a stylized flame inside a triangle.

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

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Work Order:** 1108442

**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>
1108442-01	Sed Trap RGU 31-25- Water	Water		8/10/2011 13:10	8/13/2011 11:30	<input type="checkbox"/>
1108442-02	Sed Trap RGU 31-25- Soil	Soil		8/10/2011 01:10	8/13/2011 11:30	<input type="checkbox"/>
1108442-03	Toe of Slope RGU 31-25	Soil		8/10/2011 13:05	8/13/2011 11:30	<input type="checkbox"/>
1108442-04	On Pad RGU 31-25	Soil		8/10/2011 13:00	8/13/2011 11:30	<input type="checkbox"/>
1108442-05	1/4 mile off Pad RGU 31-25	Soil		8/10/2011 13:20	8/13/2011 11:30	<input type="checkbox"/>
1108442-06	1/2 mile off Pad RGU 31-25	Soil		8/10/2011 13:25	8/13/2011 11:30	<input type="checkbox"/>
1108442-07	RGU 31-25-BG 1	Soil		8/10/2011 14:00	8/13/2011 11:30	<input type="checkbox"/>
1108442-08	RGU 31-25-BG 2	Soil		8/10/2011 14:05	8/13/2011 11:30	<input type="checkbox"/>
1108442-09	RGU 31-25-BG 3	Soil		8/10/2011 14:10	8/13/2011 11:30	<input type="checkbox"/>
1108442-10	RGU 31-25-BG 4	Soil		8/10/2011 14:15	8/13/2011 11:30	<input type="checkbox"/>
1108442-11	RGU 31-25-BG 5	Soil		8/10/2011 14:20	8/13/2011 11:30	<input type="checkbox"/>

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**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Work Order:** 1108442

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**Case Narrative**

Batch 34931 MS/MSD data for Metals is not related to this project's samples.

Batch 34933 LCSD recovery for Anthracene was above control limits, but all samples in this quality control batch were ND for these compounds.

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**WorkOrder:** 1108442

**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
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
µg/L	Micrograms per Liter
as noted	
mg/kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** Sed Trap RGU 31-25- Water  
**Collection Date:** 8/10/2011 01:10 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-01  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			<b>SW8015</b>			Analyst: <b>RM</b>
GRO (C6-C10)	ND		0.20	mg/L	1	8/17/2011 09:52 PM
Surr: Toluene-d8	98.2		70-130	%REC	1	8/17/2011 09:52 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		1.0	µg/L	1	8/16/2011 03:32 AM
Ethylbenzene	ND		1.0	µg/L	1	8/16/2011 03:32 AM
m,p-Xylene	ND		2.0	µg/L	1	8/16/2011 03:32 AM
o-Xylene	ND		1.0	µg/L	1	8/16/2011 03:32 AM
Toluene	ND		1.0	µg/L	1	8/16/2011 03:32 AM
Xylenes, Total	ND		2.0	µg/L	1	8/16/2011 03:32 AM
Surr: 1,2-Dichloroethane-d4	97.9		70-120	%REC	1	8/16/2011 03:32 AM
Surr: 4-Bromofluorobenzene	97.4		75-120	%REC	1	8/16/2011 03:32 AM
Surr: Dibromofluoromethane	99.7		85-115	%REC	1	8/16/2011 03:32 AM
Surr: Toluene-d8	99.1		85-120	%REC	1	8/16/2011 03:32 AM
<b>ANIONS BY ION CHROMATOGRAPHY</b>			<b>E300.0</b>			Analyst: <b>ED</b>
Chloride	20		2.0	mg/L	2	8/15/2011 06:43 PM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** Sed Trap RGU 31-25- Soil  
**Collection Date:** 8/10/2011 01:10 AM

**Work Order:** 1108442  
**Lab ID:** 1108442-02  
**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>8/16/2011</b>	Analyst: <b>RM</b>
<b>DRO (C10-C28)</b>	<b>6.1</b>		<b>5.8</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/17/2011 10:27 AM
Surr: 4-Terphenyl-d14	62.7		39-115	%REC	1	8/17/2011 10:27 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015</b>			Analyst: <b>RM</b>
GRO (C6-C10)	ND		7.0	mg/Kg-dry	100	8/17/2011 01:28 AM
Surr: Toluene-d8	104		50-150	%REC	100	8/17/2011 01:28 AM
<b>MERCURY BY CVAA</b>						
			<b>SW7471</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>LR</b>
Mercury	ND		0.026	mg/Kg-dry	1	8/15/2011 01:49 PM
<b>METALS BY ICP-MS</b>						
			<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
Arsenic	<b>2.9</b>		<b>1.1</b>	<b>mg/Kg-dry</b>	<b>2</b>	8/17/2011 02:14 AM
Barium	<b>580</b>		<b>11</b>	<b>mg/Kg-dry</b>	<b>20</b>	8/17/2011 04:24 PM
Cadmium	ND		0.43	mg/Kg-dry	2	8/17/2011 02:14 AM
Chromium	<b>32</b>		<b>1.1</b>	<b>mg/Kg-dry</b>	<b>2</b>	8/17/2011 02:14 AM
Copper	<b>13</b>		<b>1.1</b>	<b>mg/Kg-dry</b>	<b>2</b>	8/17/2011 02:14 AM
Lead	<b>12</b>		<b>1.1</b>	<b>mg/Kg-dry</b>	<b>2</b>	8/17/2011 02:14 AM
Nickel	<b>16</b>		<b>1.1</b>	<b>mg/Kg-dry</b>	<b>2</b>	8/17/2011 02:14 AM
Selenium	ND		1.1	mg/Kg-dry	2	8/17/2011 02:14 AM
Silver	ND		1.1	mg/Kg-dry	2	8/17/2011 02:14 AM
Zinc	<b>67</b>		<b>2.1</b>	<b>mg/Kg-dry</b>	<b>2</b>	8/17/2011 02:14 AM
<b>SUBCONTRACTED ANALYSES</b>						
Subcontracted Analyses		Rcvd 8/18/11	<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			as noted		1	8/18/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8270</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>CW</b>
Acenaphthene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Anthracene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Benzo(a)anthracene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Benzo(a)pyrene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Benzo(b)fluoranthene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Benzo(g,h,i)perylene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Benzo(k)fluoranthene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Chrysene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Dibenzo(a,h)anthracene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Fluoranthene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Fluorene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Indeno(1,2,3-cd)pyrene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Naphthalene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Pyrene	ND		42	µg/Kg-dry	1	8/17/2011 10:52 AM
Surr: 2,4,6-Tribromophenol	58.9		34-140	%REC	1	8/17/2011 10:52 AM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** Sed Trap RGU 31-25- Soil  
**Collection Date:** 8/10/2011 01:10 AM

**Work Order:** 1108442  
**Lab ID:** 1108442-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	45.2		12-100	%REC	1	8/17/2011 10:52 AM
<i>Surr: 2-Fluorophenol</i>	79.4		33-117	%REC	1	8/17/2011 10:52 AM
<i>Surr: 4-Terphenyl-d14</i>	78.0		25-137	%REC	1	8/17/2011 10:52 AM
<i>Surr: Nitrobenzene-d5</i>	67.7		37-107	%REC	1	8/17/2011 10:52 AM
<i>Surr: Phenol-d6</i>	76.7		40-106	%REC	1	8/17/2011 10:52 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		140	µg/Kg-dry	100	8/16/2011 03:57 AM
Ethylbenzene	ND		140	µg/Kg-dry	100	8/16/2011 03:57 AM
m,p-Xylene	ND		140	µg/Kg-dry	100	8/16/2011 03:57 AM
o-Xylene	ND		140	µg/Kg-dry	100	8/16/2011 03:57 AM
Toluene	ND		140	µg/Kg-dry	100	8/16/2011 03:57 AM
Xylenes, Total	ND		420	µg/Kg-dry	100	8/16/2011 03:57 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	99.3		70-120	%REC	100	8/16/2011 03:57 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.3		75-120	%REC	100	8/16/2011 03:57 AM
<i>Surr: Dibromofluoromethane</i>	97.4		85-115	%REC	100	8/16/2011 03:57 AM
<i>Surr: Toluene-d8</i>	98.7		85-115	%REC	100	8/16/2011 03:57 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	32			mg/kg-dry	1	8/19/2011 08:06 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.69	mg/Kg-dry	1	8/16/2011 04:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	29		0.050	% of sample	1	8/15/2011 03:07 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>KV</b>
pH	7.98			s.u.	1	8/14/2011 10:10 AM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** Toe of Slope RGU 31-25  
**Collection Date:** 8/10/2011 01:05 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 8/16/2011	Analyst: RM
DRO (C10-C28)	10		5.1	mg/Kg-dry	1	8/17/2011 10:50 AM
Surr: 4-Terphenyl-d14	72.8		39-115	%REC	1	8/17/2011 10:50 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		6.1	mg/Kg-dry	100	8/17/2011 01:53 AM
Surr: Toluene-d8	101		50-150	%REC	100	8/17/2011 01:53 AM
MERCURY BY CVAA			SW7471		Prep Date: 8/16/2011	Analyst: LR
Mercury	ND		0.019	mg/Kg-dry	1	8/17/2011 12:31 PM
METALS BY ICP-MS			SW6020A		Prep Date: 8/15/2011	Analyst: CES
Arsenic	3.3		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Barium	400		9.3	mg/Kg-dry	20	8/17/2011 04:29 PM
Cadmium	ND		0.37	mg/Kg-dry	2	8/17/2011 02:19 AM
Chromium	37		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Copper	14		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Lead	15		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Nickel	20		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Selenium	1.2		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Silver	ND		0.93	mg/Kg-dry	2	8/17/2011 02:19 AM
Zinc	62		1.9	mg/Kg-dry	2	8/17/2011 02:19 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 8/18/11		as noted		1	8/18/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 8/16/2011	Analyst: CW
Acenaphthene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Anthracene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Benzo(a)anthracene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Benzo(a)pyrene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Benzo(b)fluoranthene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Benzo(g,h,i)perylene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Chrysene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Dibenzo(a,h)anthracene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Fluoranthene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Fluorene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Indeno(1,2,3-cd)pyrene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Naphthalene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Pyrene	ND		36	µg/Kg-dry	1	8/17/2011 11:25 AM
Surr: 2,4,6-Tribromophenol	71.2		34-140	%REC	1	8/17/2011 11:25 AM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** Toe of Slope RGU 31-25  
**Collection Date:** 8/10/2011 01:05 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	71.3		12-100	%REC	1	8/17/2011 11:25 AM
<i>Surr: 2-Fluorophenol</i>	86.6		33-117	%REC	1	8/17/2011 11:25 AM
<i>Surr: 4-Terphenyl-d14</i>	99.3		25-137	%REC	1	8/17/2011 11:25 AM
<i>Surr: Nitrobenzene-d5</i>	81.5		37-107	%REC	1	8/17/2011 11:25 AM
<i>Surr: Phenol-d6</i>	86.7		40-106	%REC	1	8/17/2011 11:25 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		120	µg/Kg-dry	100	8/16/2011 04:22 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	8/16/2011 04:22 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	8/16/2011 04:22 AM
o-Xylene	ND		120	µg/Kg-dry	100	8/16/2011 04:22 AM
Toluene	ND		120	µg/Kg-dry	100	8/16/2011 04:22 AM
Xylenes, Total	ND		370	µg/Kg-dry	100	8/16/2011 04:22 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.8		70-120	%REC	100	8/16/2011 04:22 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.5		75-120	%REC	100	8/16/2011 04:22 AM
<i>Surr: Dibromofluoromethane</i>	97.0		85-115	%REC	100	8/16/2011 04:22 AM
<i>Surr: Toluene-d8</i>	98.5		85-115	%REC	100	8/16/2011 04:22 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	37			mg/kg-dry	1	8/19/2011 08:06 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	8/16/2011 04:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	18		0.050	% of sample	1	8/15/2011 01:47 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JS</b>
pH	8.72			s.u.	1	8/15/2011 09:10 AM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** On Pad RGU 31-25  
**Collection Date:** 8/10/2011 01:00 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-04  
**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>260</b>		<b>SW8015M</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>RM</b>
			<b>5.6</b>	<b>mg/Kg-dry</b>	1	8/17/2011 10:50 AM
Surr: 4-Terphenyl-d14	86.5		39-115	%REC	1	8/17/2011 10:50 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015</b>			Analyst: <b>RM</b>
			<b>6.8</b>	<b>mg/Kg-dry</b>	100	8/17/2011 02:19 AM
Surr: Toluene-d8	101		50-150	%REC	100	8/17/2011 02:19 AM
<b>MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7471</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>LR</b>
			<b>0.021</b>	<b>mg/Kg-dry</b>	1	8/17/2011 12:33 PM
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>5.3</b>		<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
			<b>0.94</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
<b>Barium</b>	<b>3,300</b>		<b>94</b>	<b>mg/Kg-dry</b>	200	8/17/2011 04:34 PM
Cadmium	ND		0.38	mg/Kg-dry	2	8/17/2011 02:46 AM
<b>Chromium</b>	<b>26</b>		<b>0.94</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
<b>Copper</b>	<b>13</b>		<b>0.94</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
<b>Lead</b>	<b>11</b>		<b>0.94</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
<b>Nickel</b>	<b>21</b>		<b>0.94</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
<b>Selenium</b>	<b>1.3</b>		<b>0.94</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
Silver	ND		0.94	mg/Kg-dry	2	8/17/2011 02:46 AM
<b>Zinc</b>	<b>140</b>		<b>1.9</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:46 AM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>Rcvd 8/18/11</b>		<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			<b>as noted</b>		1	8/18/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>Acenaphthene</b>	<b>ND</b>		<b>SW8270</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>CW</b>
			<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Anthracene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Benzo(a)pyrene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Benzo(g,h,i)perylene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Chrysene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Fluoranthene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Fluorene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Naphthalene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
<b>Pyrene</b>	<b>ND</b>		<b>40</b>	<b>µg/Kg-dry</b>	1	8/17/2011 02:13 PM
Surr: 2,4,6-Tribromophenol	70.3		34-140	%REC	1	8/17/2011 02:13 PM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** On Pad RGU 31-25  
**Collection Date:** 8/10/2011 01:00 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	57.8		12-100	%REC	1	8/17/2011 02:13 PM
<i>Surr: 2-Fluorophenol</i>	79.1		33-117	%REC	1	8/17/2011 02:13 PM
<i>Surr: 4-Terphenyl-d14</i>	83.6		25-137	%REC	1	8/17/2011 02:13 PM
<i>Surr: Nitrobenzene-d5</i>	60.4		37-107	%REC	1	8/17/2011 02:13 PM
<i>Surr: Phenol-d6</i>	77.6		40-106	%REC	1	8/17/2011 02:13 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		140	µg/Kg-dry	100	8/16/2011 04:47 AM
Ethylbenzene	ND		140	µg/Kg-dry	100	8/16/2011 04:47 AM
m,p-Xylene	ND		140	µg/Kg-dry	100	8/16/2011 04:47 AM
o-Xylene	ND		140	µg/Kg-dry	100	8/16/2011 04:47 AM
Toluene	ND		140	µg/Kg-dry	100	8/16/2011 04:47 AM
Xylenes, Total	ND		410	µg/Kg-dry	100	8/16/2011 04:47 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	98.6		70-120	%REC	100	8/16/2011 04:47 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.4		75-120	%REC	100	8/16/2011 04:47 AM
<i>Surr: Dibromofluoromethane</i>	96.8		85-115	%REC	100	8/16/2011 04:47 AM
<i>Surr: Toluene-d8</i>	98.9		85-115	%REC	100	8/16/2011 04:47 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	26			mg/kg-dry	1	8/19/2011 08:06 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.67	mg/Kg-dry	1	8/16/2011 04:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	26		0.050	% of sample	1	8/15/2011 01:47 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JS</b>
pH	8.86			s.u.	1	8/15/2011 09:10 AM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** 1/4 mile off Pad RGU 31-25  
**Collection Date:** 8/10/2011 01:20 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-05  
**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>7.5</b>		<b>SW8015M</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>RM</b>
			<b>4.8</b>	<b>mg/Kg-dry</b>	1	8/17/2011 11:13 AM
Surr: 4-Terphenyl-d14	81.3		39-115	%REC	1	8/17/2011 11:13 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015</b>			Analyst: <b>RM</b>
			<b>5.8</b>	<b>mg/Kg-dry</b>	100	8/17/2011 02:45 AM
Surr: Toluene-d8	102		50-150	%REC	100	8/17/2011 02:45 AM
<b>MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7471</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>LR</b>
			<b>0.021</b>	<b>mg/Kg-dry</b>	1	8/17/2011 12:35 PM
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>1.8</b>		<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
			<b>0.79</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
<b>Barium</b>	<b>360</b>		<b>7.9</b>	<b>mg/Kg-dry</b>	20	8/17/2011 04:39 PM
Cadmium	ND		0.32	mg/Kg-dry	2	8/17/2011 02:51 AM
<b>Chromium</b>	<b>37</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
<b>Copper</b>	<b>12</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
<b>Lead</b>	<b>14</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
<b>Nickel</b>	<b>20</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
<b>Selenium</b>	<b>0.94</b>		<b>0.79</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
Silver	ND		0.79	mg/Kg-dry	2	8/17/2011 02:51 AM
<b>Zinc</b>	<b>52</b>		<b>1.6</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:51 AM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>		<b>Rcvd 8/18/11</b>	<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			<b>as noted</b>		1	8/18/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>Acenaphthene</b>	<b>ND</b>		<b>SW8270</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>CW</b>
			<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Anthracene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Benzo(a)pyrene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Benzo(g,h,i)perylene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Chrysene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Fluoranthene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Fluorene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Naphthalene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
<b>Pyrene</b>	<b>ND</b>		<b>34</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:06 PM
Surr: 2,4,6-Tribromophenol	69.0		34-140	%REC	1	8/17/2011 01:06 PM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** 1/4 mile off Pad RGU 31-25  
**Collection Date:** 8/10/2011 01:20 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	74.3		12-100	%REC	1	8/17/2011 01:06 PM
<i>Surr: 2-Fluorophenol</i>	78.8		33-117	%REC	1	8/17/2011 01:06 PM
<i>Surr: 4-Terphenyl-d14</i>	101		25-137	%REC	1	8/17/2011 01:06 PM
<i>Surr: Nitrobenzene-d5</i>	67.1		37-107	%REC	1	8/17/2011 01:06 PM
<i>Surr: Phenol-d6</i>	79.2		40-106	%REC	1	8/17/2011 01:06 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		120	µg/Kg-dry	100	8/16/2011 05:12 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	8/16/2011 05:12 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	8/16/2011 05:12 AM
o-Xylene	ND		120	µg/Kg-dry	100	8/16/2011 05:12 AM
Toluene	ND		120	µg/Kg-dry	100	8/16/2011 05:12 AM
Xylenes, Total	ND		350	µg/Kg-dry	100	8/16/2011 05:12 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	98.4		70-120	%REC	100	8/16/2011 05:12 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.6		75-120	%REC	100	8/16/2011 05:12 AM
<i>Surr: Dibromofluoromethane</i>	96.6		85-115	%REC	100	8/16/2011 05:12 AM
<i>Surr: Toluene-d8</i>	97.6		85-115	%REC	100	8/16/2011 05:12 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	36			mg/kg-dry	1	8/19/2011 08:06 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	8/16/2011 04:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	13		0.050	% of sample	1	8/16/2011 02:03 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JS</b>
pH	8.93			s.u.	1	8/15/2011 09:10 AM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** 1/2 mile off Pad RGU 31-25  
**Collection Date:** 8/10/2011 01:25 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-06  
**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>7.3</b>		<b>SW8015M</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>RM</b>
			<b>4.5</b>	<b>mg/Kg-dry</b>	1	8/17/2011 11:13 AM
Surr: 4-Terphenyl-d14	83.6		39-115	%REC	1	8/17/2011 11:13 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015</b>			Analyst: <b>RM</b>
			<b>5.5</b>	<b>mg/Kg-dry</b>	100	8/17/2011 03:10 AM
Surr: Toluene-d8	104		50-150	%REC	100	8/17/2011 03:10 AM
<b>MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7471</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>LR</b>
			<b>0.020</b>	<b>mg/Kg-dry</b>	1	8/17/2011 12:46 PM
<b>METALS BY ICP-MS</b>						
<b>Arsenic</b>	<b>1.6</b>		<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
			<b>0.70</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
<b>Barium</b>	<b>310</b>		<b>7.0</b>	<b>mg/Kg-dry</b>	20	8/17/2011 05:06 PM
Cadmium	ND		0.28	mg/Kg-dry	2	8/17/2011 02:56 AM
<b>Chromium</b>	<b>36</b>		<b>0.70</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
<b>Copper</b>	<b>13</b>		<b>0.70</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
<b>Lead</b>	<b>14</b>		<b>0.70</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
<b>Nickel</b>	<b>20</b>		<b>0.70</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
<b>Selenium</b>	<b>0.98</b>		<b>0.70</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
Silver	ND		0.70	mg/Kg-dry	2	8/17/2011 02:56 AM
<b>Zinc</b>	<b>52</b>		<b>1.4</b>	<b>mg/Kg-dry</b>	2	8/17/2011 02:56 AM
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>Rcvd 8/18/11</b>		<b>SUBCONTRACT</b>			Analyst: <b>A&amp;LGL</b>
			<b>as noted</b>		1	8/18/2011
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
<b>Acenaphthene</b>	<b>ND</b>		<b>SW8270</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>CW</b>
			<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Anthracene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Benzo(a)pyrene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Benzo(g,h,i)perylene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Chrysene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Fluoranthene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Fluorene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Naphthalene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
<b>Pyrene</b>	<b>ND</b>		<b>32</b>	<b>µg/Kg-dry</b>	1	8/17/2011 01:39 PM
Surr: 2,4,6-Tribromophenol	66.4		34-140	%REC	1	8/17/2011 01:39 PM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** 1/2 mile off Pad RGU 31-25  
**Collection Date:** 8/10/2011 01:25 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	75.8		12-100	%REC	1	8/17/2011 01:39 PM
<i>Surr: 2-Fluorophenol</i>	80.6		33-117	%REC	1	8/17/2011 01:39 PM
<i>Surr: 4-Terphenyl-d14</i>	101		25-137	%REC	1	8/17/2011 01:39 PM
<i>Surr: Nitrobenzene-d5</i>	71.0		37-107	%REC	1	8/17/2011 01:39 PM
<i>Surr: Phenol-d6</i>	80.2		40-106	%REC	1	8/17/2011 01:39 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>			Analyst: <b>AK</b>
Benzene	ND		110	µg/Kg-dry	100	8/16/2011 05:36 AM
Ethylbenzene	ND		110	µg/Kg-dry	100	8/16/2011 05:36 AM
m,p-Xylene	ND		110	µg/Kg-dry	100	8/16/2011 05:36 AM
o-Xylene	ND		110	µg/Kg-dry	100	8/16/2011 05:36 AM
Toluene	ND		110	µg/Kg-dry	100	8/16/2011 05:36 AM
Xylenes, Total	ND		330	µg/Kg-dry	100	8/16/2011 05:36 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.8		70-120	%REC	100	8/16/2011 05:36 AM
<i>Surr: 4-Bromofluorobenzene</i>	100		75-120	%REC	100	8/16/2011 05:36 AM
<i>Surr: Dibromofluoromethane</i>	96.0		85-115	%REC	100	8/16/2011 05:36 AM
<i>Surr: Toluene-d8</i>	98.4		85-115	%REC	100	8/16/2011 05:36 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
Chromium, Trivalent	36			mg/kg-dry	1	8/19/2011 08:06 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep Date: <b>8/16/2011</b>	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.53	mg/Kg-dry	1	8/16/2011 04:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	8.7		0.050	% of sample	1	8/16/2011 02:03 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>JS</b>
pH	8.93			s.u.	1	8/15/2011 09:10 AM

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

**ALS Group USA, Corp****Date:** 29-Aug-11

**Client:** HRL Compliance Solutions  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11  
**Sample ID:** RGU 31-25-BG 1  
**Collection Date:** 8/10/2011 02:00 PM

**Work Order:** 1108442  
**Lab ID:** 1108442-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>						
Arsenic	3.0		SW6020A 0.78	mg/Kg-dry	Prep Date: 8/15/2011 2	Analyst: CES 8/17/2011 03:01 AM
<b>SUBCONTRACTED ANALYSES</b>						
Subcontracted Analyses	Rcvd 8/18/11		SUBCONTRACT as noted		1	Analyst: A&LGL 8/18/2011
<b>MOISTURE</b>						
Moisture	17		A2540 G 0.050	% of sample	1	Analyst: CG 8/15/2011 01:47 PM
<b>PH</b>						
pH	8.81		SW9045D s.u.		1	Analyst: JS 8/15/2011 09:10 AM

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

Report Number: F11228-0186

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: 1108442

DATE RECEIVED: 08/16/2011

DATE REPORTED: 08/18/2011

PAGE: 1

P.O. NUMBER: 20-122010562

ATTN: ANN PRESTON

## REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
64371	02B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.69	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	82	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	15	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	269	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	7.2	-	USDA Handbook 60
64372	03B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.60	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	50	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	9	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	271	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	9.2	-	USDA Handbook 60
64373	04B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	5.20	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	117	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	169	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	4548	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	62.6	-	USDA Handbook 60
64374	05B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.30	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	33	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	4	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	138	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	6.0	-	USDA Handbook 60

Report Number: F11228-0186

Account Number: 91000

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www.algreatlakes.com • lab@algreatlakes.com



**QUALITY ANALYSES FOR INFORMED DECISIONS**

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

RE: 1108442

DATE RECEIVED: 08/16/2011

DATE REPORTED: 08/18/2011

PAGE: 2

P.O. NUMBER: 20-122010562

ATTN: ANN PRESTON

## REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
64375	06B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.19	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	27	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	3	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	47	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	2.3	-	USDA Handbook 60
64376	07B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.24	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	31	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	4	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	68	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	3.1	-	USDA Handbook 60

## ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions

**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

**Work Order:** 1108442

**Sample ID:** RGU 31-25-BG 2

**Lab ID:** 1108442-08

**Collection Date:** 8/10/2011 02:05 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
Arsenic	2.8		0.74	mg/Kg-dry	2	8/17/2011 03:07 AM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	0.77		0.050	% of sample	1	8/16/2011 02:03 PM

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

## ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions

**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

**Work Order:** 1108442

**Sample ID:** RGU 31-25-BG 3

**Lab ID:** 1108442-09

**Collection Date:** 8/10/2011 02:10 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
Arsenic	2.5		0.86	mg/Kg-dry	2	8/17/2011 03:12 AM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	11		0.050	% of sample	1	8/15/2011 01:47 PM

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

## ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions

**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

**Work Order:** 1108442

**Sample ID:** RGU 31-25-BG 4

**Lab ID:** 1108442-10

**Collection Date:** 8/10/2011 02:15 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
Arsenic	2.2		0.66	mg/Kg-dry	2	8/17/2011 03:17 AM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	2.0		0.050	% of sample	1	8/15/2011 01:47 PM

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

## ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions

**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

**Work Order:** 1108442

**Sample ID:** RGU 31-25-BG 5

**Lab ID:** 1108442-11

**Collection Date:** 8/10/2011 02:20 PM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>8/15/2011</b>	Analyst: <b>CES</b>
Arsenic	1.8		0.74	mg/Kg-dry	2	8/17/2011 03:22 AM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	4.2		0.050	% of sample	1	8/16/2011 02:03 PM

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

# ALS Group USA, Corp

Date: 29-Aug-11

**Client:** HRL Compliance Solutions

## QC BATCH REPORT

**Work Order:** 1108442

**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

Batch ID: **34934** Instrument ID **GC8** Method: **SW8015M**

<b>MBLK</b>	Sample ID: <b>DBLKS1-34934-34934</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 08:55 AM</b>			
Client ID:	Run ID: <b>GC8_110817A</b>				SeqNo: <b>1708248</b>		Prep Date: <b>8/16/2011</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>	1.175	0	1.667	0	70.5	39-115	0			

<b>LCS</b>	Sample ID: <b>DLCSS1-34934-34934</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 07:46 AM</b>			
Client ID:	Run ID: <b>GC8_110817A</b>				SeqNo: <b>1708246</b>		Prep Date: <b>8/16/2011</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)	147.2	4.2	166.7	0	88.3	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.271	0	1.667	0	76.2	39-115	0			

<b>LCSD</b>	Sample ID: <b>DLCSDS1-34934-34934</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 07:46 AM</b>			
Client ID:	Run ID: <b>GC8_110817A</b>				SeqNo: <b>1708257</b>		Prep Date: <b>8/16/2011</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)	156.5	4.2	166.7	0	93.9	60-130	147.2	6.16	30	
<i>Surr: 4-Terphenyl-d14</i>	1.3	0	1.667	0	78	39-115	1.271	2.26	30	

<b>MS</b>	Sample ID: <b>1108453-01B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 08:09 AM</b>			
Client ID:	Run ID: <b>GC8_110817A</b>				SeqNo: <b>1708247</b>		Prep Date: <b>8/16/2011</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)	245	8.3	331.7	5.479	72.2	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.858	0	3.317	0	56	39-115	0			

<b>MSD</b>	Sample ID: <b>1108453-01B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 08:09 AM</b>			
Client ID:	Run ID: <b>GC8_110817A</b>				SeqNo: <b>1708258</b>		Prep Date: <b>8/16/2011</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)	214.5	8.0	318	5.479	65.7	60-130	245	13.3	30	
<i>Surr: 4-Terphenyl-d14</i>	1.677	0	3.18	0	52.7	39-115	1.858	10.3	30	

The following samples were analyzed in this batch:

1108442-02A	1108442-03A	1108442-04A
1108442-05A	1108442-06A	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93486**      Instrument ID **GC9**      Method: **SW8015**

<b>MBLK</b>	Sample ID: <b>MBLK-R93486-R93486</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/16/2011 10:03 PM</b>			
Client ID:	Run ID: <b>GC9_110816B</b>				SeqNo: <b>1707513</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>105.7</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>	Sample ID: <b>LCS-R93486-R93486</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/16/2011 08:46 PM</b>			
Client ID:	Run ID: <b>GC9_110816B</b>				SeqNo: <b>1707511</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)	25810	200	25000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	<i>106.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0</i>			

<b>LCSD</b>	Sample ID: <b>LCSD-R93486-R93486</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/16/2011 09:11 PM</b>			
Client ID:	Run ID: <b>GC9_110816B</b>				SeqNo: <b>1707512</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)	24660	200	25000	0	98.6	70-130	25810	4.58	30	
<i>Surr: Toluene-d8</i>	<i>101.9</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>106.6</i>	<i>4.59</i>	<i>30</i>	

<b>MS</b>	Sample ID: <b>1108387-14A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/17/2011 07:02 AM</b>			
Client ID:	Run ID: <b>GC9_110816B</b>				SeqNo: <b>1707531</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)	1274000	2,500	1250000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5111</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>1108387-14A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/17/2011 07:28 AM</b>			
Client ID:	Run ID: <b>GC9_110816B</b>				SeqNo: <b>1707532</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)	1205000	2,500	1250000	0	96.4	70-130	1274000	5.5	30	
<i>Surr: Toluene-d8</i>	<i>4716</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>94.3</i>	<i>50-150</i>	<i>5111</i>	<i>8.03</i>	<i>30</i>	

The following samples were analyzed in this batch:

1108442-02C	1108442-03C	1108442-04C
1108442-05C	1108442-06C	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93555**      Instrument ID **GC9**      Method: **SW8015**

<b>MBLK</b>	Sample ID: <b>MBLK-R93555-R93555</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/17/2011 04:43 PM</b>			
Client ID:	Run ID: <b>GC9_110817A</b>				SeqNo: <b>1709461</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>103.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>			

<b>LCS</b>	Sample ID: <b>LCS-R93555-R93555</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/17/2011 03:26 PM</b>			
Client ID:	Run ID: <b>GC9_110817A</b>				SeqNo: <b>1709459</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)	26420	200	25000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	<i>105.1</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-R93555-R93555</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/17/2011 03:52 PM</b>			
Client ID:	Run ID: <b>GC9_110817A</b>				SeqNo: <b>1709460</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)	25240	200	25000	0	101	70-130	26420	4.57	30	
<i>Surr: Toluene-d8</i>	<i>102.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>105.1</i>	<i>2.69</i>	<i>30</i>	

<b>MS</b>	Sample ID: <b>1108512-03B MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/18/2011 01:41 AM</b>			
Client ID:	Run ID: <b>GC9_110817A</b>				SeqNo: <b>1709498</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)	1199000	2,500	1250000	0	95.9	70-130	0			
<i>Surr: Toluene-d8</i>	<i>4712</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>94.2</i>	<i>50-150</i>	<i>0</i>			

<b>MSD</b>	Sample ID: <b>1108512-03B MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/18/2011 02:07 AM</b>			
Client ID:	Run ID: <b>GC9_110817A</b>				SeqNo: <b>1709499</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)	1138000	2,500	1250000	0	91	70-130	1199000	5.26	30	
<i>Surr: Toluene-d8</i>	<i>4366</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>87.3</i>	<i>50-150</i>	<i>4712</i>	<i>7.61</i>	<i>30</i>	

The following samples were analyzed in this batch: | 1108442-01A |

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34912**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>	Sample ID: <b>MBLK-34912-34912</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/15/2011 12:41 PM</b>			
Client ID:	Run ID: <b>HG1_110815A</b>				SeqNo: <b>1705247</b>		Prep Date: <b>8/15/2011</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-34912-34912</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/15/2011 12:43 PM</b>			
Client ID:	Run ID: <b>HG1_110815A</b>				SeqNo: <b>1705248</b>		Prep Date: <b>8/15/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1772	0.020	0.1665		0	106	80-120	0		

<b>LCSD</b>	Sample ID: <b>LCSD-34912-34912</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/15/2011 12:45 PM</b>			
Client ID:	Run ID: <b>HG1_110815A</b>				SeqNo: <b>1705249</b>		Prep Date: <b>8/15/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1732	0.020	0.1665		0	104	80-120	0.1772	2.28	20

<b>MS</b>	Sample ID: <b>1108437-02BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/15/2011 01:24 PM</b>			
Client ID:	Run ID: <b>HG1_110815A</b>				SeqNo: <b>1705273</b>		Prep Date: <b>8/15/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1716	0.018	0.15	0.02334	98.9	75-125		0		

<b>MSD</b>	Sample ID: <b>1108437-02BMDS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/15/2011 01:27 PM</b>			
Client ID:	Run ID: <b>HG1_110815A</b>				SeqNo: <b>1705274</b>		Prep Date: <b>8/15/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1671	0.018	0.1523	0.02334	94.4	75-125	0.1716	2.64	35	

The following samples were analyzed in this batch:

1108442-02A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34946**      Instrument ID **HG1**      Method: **SW7471**

<b>MBLK</b>	Sample ID: <b>MBLK-34946-34946</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 12:18 PM</b>			
Client ID:	Run ID: <b>HG1_110817A</b>				SeqNo: <b>1707736</b>		Prep Date: <b>8/16/2011</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-34946-34946</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 12:20 PM</b>			
Client ID:	Run ID: <b>HG1_110817A</b>				SeqNo: <b>1707737</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1664	0.020	0.1665	0	99.9	80-120	0			

<b>LCSD</b>	Sample ID: <b>LCSD-34946-34946</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 12:22 PM</b>			
Client ID:	Run ID: <b>HG1_110817A</b>				SeqNo: <b>1707738</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1705	0.020	0.1665	0	102	80-120	0.1664	2.42	20	

<b>MS</b>	Sample ID: <b>1108442-05AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 12:38 PM</b>			
Client ID: <b>1/4 mile off Pad RGU 31-25</b>	Run ID: <b>HG1_110817A</b>				SeqNo: <b>1707747</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1587	0.018	0.1496	0.005142	103	75-125	0			

<b>MSD</b>	Sample ID: <b>1108442-05AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 12:44 PM</b>			
Client ID: <b>1/4 mile off Pad RGU 31-25</b>	Run ID: <b>HG1_110817A</b>				SeqNo: <b>1707752</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1538	0.018	0.1489	0.005142	99.8	75-125	0.1587	3.12	35	

The following samples were analyzed in this batch:

1108442-03A	1108442-04A	1108442-05A
1108442-06A		

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34931** Instrument ID **ICPMS1** Method: **SW6020A**

<b>MBLK</b>	Sample ID: <b>MBLK-34931-34931</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 10:20 PM</b>			
Client ID:	Run ID: <b>ICPMS1_110816A</b>				SeqNo: <b>1707293</b>		Prep Date: <b>8/15/2011</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	ND	0.10								
Chromium	0.003514	0.25								J
Copper	ND	0.25								
Lead	0.001838	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-34931-34931</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 10:26 PM</b>			
Client ID:	Run ID: <b>ICPMS1_110816A</b>				SeqNo: <b>1707295</b>		Prep Date: <b>8/15/2011</b>		DF: <b>2</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.441	0.50	5	0	88.8	80-120	0			
Barium	4.358	0.50	5	0	87.2	80-120	0			
Cadmium	4.306	0.20	5	0	86.1	80-120	0			
Chromium	4.393	0.50	5	0	87.9	80-120	0			
Copper	4.543	0.50	5	0	90.9	80-120	0			
Lead	4.549	0.50	5	0	91	80-120	0			
Nickel	4.711	0.50	5	0	94.2	80-120	0			
Selenium	4.236	0.50	5	0	84.7	80-120	0			
Silver	4.232	0.50	5	0	84.6	80-120	0			
Zinc	4.614	1.0	5	0	92.3	80-120	0			

<b>LCSD</b>	Sample ID: <b>LCSD-34931-34931</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 10:31 PM</b>			
Client ID:	Run ID: <b>ICPMS1_110816A</b>				SeqNo: <b>1707297</b>		Prep Date: <b>8/15/2011</b>		DF: <b>2</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.373	0.50	5	0	87.5	80-120	4.441	1.54	20	
Barium	4.453	0.50	5	0	89.1	80-120	4.358	2.16	20	
Cadmium	4.333	0.20	5	0	86.7	80-120	4.306	0.625	20	
Chromium	4.503	0.50	5	0	90.1	80-120	4.393	2.47	20	
Copper	4.575	0.50	5	0	91.5	80-120	4.543	0.702	20	
Lead	4.605	0.50	5	0	92.1	80-120	4.549	1.22	20	
Nickel	4.756	0.50	5	0	95.1	80-120	4.711	0.951	20	
Selenium	4.251	0.50	5	0	85	80-120	4.236	0.353	20	
Silver	4.311	0.50	5	0	86.2	80-120	4.232	1.85	20	
Zinc	4.654	1.0	5	0	93.1	80-120	4.614	0.863	20	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34931**      Instrument ID **ICPMS1**      Method: **SW6020A**

<b>MS</b>		Sample ID: <b>1108435-06BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 11:22 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110816A</b>				SeqNo: <b>1707307</b>		Prep Date: <b>8/15/2011</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.96	3.4	6.803	4.912	88.9	80-120	0			
Barium	79.05	3.4	6.803	76.3	40.3	80-120	0			SO
Cadmium	205.1	1.4	6.803	202.7	35.6	80-120	0			SO
Chromium	26.18	3.4	6.803	22.29	57.3	80-120	0			S
Copper	22.38	3.4	6.803	16.73	83.1	80-120	0			
Lead	77.48	3.4	6.803	59.53	264	80-120	0			SO
Nickel	46.92	3.4	6.803	43.29	53.3	80-120	0			SO
Selenium	6.267	3.4	6.803	0.8025	80.3	80-120	0			
Silver	5.305	3.4	6.803	0.05554	77.2	80-120	0			S

<b>MS</b>		Sample ID: <b>1108435-06BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 03:20 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110817A</b>				SeqNo: <b>1708166</b>		Prep Date: <b>8/15/2011</b>		DF: <b>10000</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	87410	6,800	6.803	90910	-51400	80-120	0			SO

<b>MSD</b>		Sample ID: <b>1108435-06BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 11:28 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110816A</b>				SeqNo: <b>1707308</b>		Prep Date: <b>8/15/2011</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.516	3.3	6.545	4.912	70.3	80-120	10.96	14.1	25	S
Barium	96.27	3.3	6.545	76.3	305	80-120	79.05	19.6	25	SO
Cadmium	922.1	1.3	6.545	202.7	11000	80-120	205.1	127	25	SRO
Chromium	30.93	3.3	6.545	22.29	132	80-120	26.18	16.6	25	S
Copper	21.31	3.3	6.545	16.73	70	80-120	22.38	4.91	25	S
Lead	69.83	3.3	6.545	59.53	157	80-120	77.48	10.4	25	SO
Nickel	47.48	3.3	6.545	43.29	64	80-120	46.92	1.19	25	SO
Selenium	4.944	3.3	6.545	0.8025	63.3	80-120	6.267	23.6	25	S
Silver	5.651	3.3	6.545	0.05554	85.5	80-120	5.305	6.3	25	

<b>MSD</b>		Sample ID: <b>1108435-06BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/17/2011 03:25 PM</b>		
Client ID:		Run ID: <b>ICPMS1_110817A</b>				SeqNo: <b>1708167</b>		Prep Date: <b>8/15/2011</b>		DF: <b>10000</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	95750	6,500	6.545	90910	73900	80-120	87410	9.1	25	SO

The following samples were analyzed in this batch:

1108442-02A	1108442-03A	1108442-04A
1108442-05A	1108442-06A	1108442-07A
1108442-08A	1108442-09A	1108442-10A
1108442-11A		

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34933**      Instrument ID **SVMS5**      Method: **SW8270**

**MBLK**      Sample ID: **SBLKS1-34933-34933**      Units: **µg/Kg**      Analysis Date: **8/16/2011 08:41 PM**

Client ID:      Run ID: **SVMS5\_110816A**      SeqNo: **1707478**      Prep Date: **8/16/2011**      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>	837	0	1667	0	50.2	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1013	0	1667	0	60.8	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1053	0	1667	0	63.2	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1485	0	1667	0	89.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1060	0	1667	0	63.6	37-107	0			
<i>Surr: Phenol-d6</i>	1086	0	1667	0	65.2	40-106	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34933**      Instrument ID **SVMS5**      Method: **SW8270**

LCS		Sample ID: <b>SLCSS1-34933-34933</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/16/2011 07:32 PM</b>		
Client ID:		Run ID: <b>SVMS5_110816A</b>				SeqNo: <b>1707476</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1286	30	1333	0	96.5	45-110	0			
Anthracene	1389	30	1333	0	104	55-105	0			
Benzo(a)anthracene	1266	30	1333	0	95	50-110	0			
Benzo(a)pyrene	1368	30	1333	0	103	50-110	0			
Benzo(b)fluoranthene	1257	30	1333	0	94.3	45-115	0			
Benzo(g,h,i)perylene	1410	30	1333	0	106	40-125	0			
Benzo(k)fluoranthene	1446	30	1333	0	108	45-115	0			
Chrysene	1345	30	1333	0	101	55-110	0			
Dibenzo(a,h)anthracene	1452	30	1333	0	109	40-125	0			
Fluoranthene	1387	30	1333	0	104	55-115	0			
Fluorene	1321	30	1333	0	99.1	50-110	0			
Indeno(1,2,3-cd)pyrene	1406	30	1333	0	105	40-120	0			
Naphthalene	1228	30	1333	0	92.1	40-105	0			
Pyrene	1417	30	1333	0	106	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1457</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>87.4</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1435</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.1</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>1438</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.3</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1793</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>108</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1436</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.1</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>1412</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>84.7</i>	<i>40-106</i>	<i>0</i>			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34933**      Instrument ID **SVMS5**      Method: **SW8270**

LCSD		Sample ID: <b>SLCSDS1-34933-34933</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/16/2011 08:06 PM</b>		
Client ID:		Run ID: <b>SVMS5_110816A</b>				SeqNo: <b>1707477</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1310	30	1333	0	98.3	45-110	1286	1.85	25	S
Anthracene	1431	30	1333	0	107	55-105	1389	2.96	25	
Benzo(a)anthracene	1273	30	1333	0	95.5	50-110	1266	0.499	25	
Benzo(a)pyrene	1389	30	1333	0	104	50-110	1368	1.52	25	
Benzo(b)fluoranthene	1348	30	1333	0	101	45-115	1257	7.01	25	
Benzo(g,h,i)perylene	1419	30	1333	0	106	40-125	1410	0.636	25	
Benzo(k)fluoranthene	1365	30	1333	0	102	45-115	1446	5.74	25	
Chrysene	1384	30	1333	0	104	55-110	1345	2.86	25	
Dibenzo(a,h)anthracene	1449	30	1333	0	109	40-125	1452	0.207	25	
Fluoranthene	1426	30	1333	0	107	55-115	1387	2.8	25	
Fluorene	1341	30	1333	0	101	50-110	1321	1.5	25	
Indeno(1,2,3-cd)pyrene	1436	30	1333	0	108	40-120	1406	2.11	25	
Naphthalene	1249	30	1333	0	93.7	40-105	1228	1.7	25	
Pyrene	1435	30	1333	0	108	45-125	1417	1.22	25	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1493</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>89.6</i>	<i>34-140</i>	<i>1457</i>	<i>2.4</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1440</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.4</i>	<i>12-100</i>	<i>1435</i>	<i>0.348</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1423</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>85.4</i>	<i>33-117</i>	<i>1438</i>	<i>1.03</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>1805</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>108</i>	<i>25-137</i>	<i>1793</i>	<i>0.686</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>1437</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>86.2</i>	<i>37-107</i>	<i>1436</i>	<i>0.116</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>1421</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>85.3</i>	<i>40-106</i>	<i>1412</i>	<i>0.659</i>	<i>40</i>	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34933**      Instrument ID **SVMS5**      Method: **SW8270**

MS		Sample ID: <b>1108453-01B MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/17/2011 01:46 AM</b>		
Client ID:		Run ID: <b>SVMS5_110816A</b>				SeqNo: <b>1707444</b>		Prep Date: <b>8/16/2011</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2537	60	2661	0	95.3	45-110	0			
Anthracene	2625	60	2661	0	98.7	55-105	0			
Benzo(a)anthracene	2420	60	2661	12.53	90.5	50-110	0			
Benzo(a)pyrene	2515	60	2661	15.17	93.9	50-110	0			
Benzo(b)fluoranthene	2249	60	2661	9.232	84.2	45-115	0			
Benzo(g,h,i)perylene	2664	60	2661	19.12	99.4	40-125	0			
Benzo(k)fluoranthene	2717	60	2661	13.19	102	45-115	0			
Chrysene	2469	60	2661	11.21	92.4	55-110	0			
Dibenzo(a,h)anthracene	2667	60	2661	8.903	99.9	40-125	0			
Fluoranthene	2603	60	2661	13.19	97.3	55-115	0			
Fluorene	2590	60	2661	0	97.4	50-110	0			
Indeno(1,2,3-cd)pyrene	2640	60	2661	13.85	98.7	40-120	0			
Naphthalene	2463	60	2661	0	92.6	40-105	0			
Pyrene	2644	60	2661	13.85	98.9	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2902	0	3326	0	87.3	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	2815	0	3326	0	84.6	12-100	0			
<i>Surr: 2-Fluorophenol</i>	2890	0	3326	0	86.9	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	3121	0	3326	0	93.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2942	0	3326	0	88.4	37-107	0			
<i>Surr: Phenol-d6</i>	2863	0	3326	0	86.1	40-106	0			

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34933**      Instrument ID **SVMS5**      Method: **SW8270**

MSD				Sample ID: <b>1108453-01B MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/17/2011 02:20 AM</b>	
Client ID:				Run ID: <b>SVMS5_110816A</b>			SeqNo: <b>1707445</b>		Prep Date: <b>8/16/2011</b>	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2406	59	2613	0	92.1	45-110	2537	5.28	30	
Anthracene	2586	59	2613	0	99	55-105	2625	1.51	30	
Benzo(a)anthracene	2356	59	2613	12.53	89.7	50-110	2420	2.67	30	
Benzo(a)pyrene	2495	59	2613	15.17	94.9	50-110	2515	0.786	30	
Benzo(b)fluoranthene	2371	59	2613	9.232	90.4	45-115	2249	5.29	30	
Benzo(g,h,i)perylene	2573	59	2613	19.12	97.7	40-125	2664	3.47	30	
Benzo(k)fluoranthene	2493	59	2613	13.19	94.9	45-115	2717	8.6	30	
Chrysene	2452	59	2613	11.21	93.4	55-110	2469	0.714	30	
Dibenzo(a,h)anthracene	2613	59	2613	8.903	99.6	40-125	2667	2.06	30	
Fluoranthene	2574	59	2613	13.19	98	55-115	2603	1.13	30	
Fluorene	2462	59	2613	0	94.2	50-110	2590	5.07	30	
Indeno(1,2,3-cd)pyrene	2581	59	2613	13.85	98.2	40-120	2640	2.29	30	
Naphthalene	2216	59	2613	0	84.8	40-105	2463	10.5	30	
Pyrene	2568	59	2613	13.85	97.7	45-125	2644	2.93	30	
<i>Surr: 2,4,6-Tribromophenol</i>	2907	0	3267	0	89	34-140	2902	0.162	40	
<i>Surr: 2-Fluorobiphenyl</i>	2530	0	3267	0	77.5	12-100	2815	10.6	40	
<i>Surr: 2-Fluorophenol</i>	2554	0	3267	0	78.2	33-117	2890	12.3	40	
<i>Surr: 4-Terphenyl-d14</i>	2780	0	3267	0	85.1	25-137	3121	11.6	40	
<i>Surr: Nitrobenzene-d5</i>	2648	0	3267	0	81.1	37-107	2942	10.5	40	
<i>Surr: Phenol-d6</i>	2623	0	3267	0	80.3	40-106	2863	8.73	40	

The following samples were analyzed in this batch:

1108442-02A	1108442-03A	1108442-04A
1108442-05A	1108442-06A	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93418**      Instrument ID **VMS5**      Method: **SW8260**

<b>MBLK</b>	Sample ID: <b>VBLKW2-110815-R93418</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/15/2011 11:24 PM</b>			
Client ID:	Run ID: <b>VMS5_110815B</b>				SeqNo: <b>1706441</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								
Surr: 1,2-Dichloroethane-d4	97.46	0	100	0	97.5	70-120	0			
Surr: 4-Bromofluorobenzene	98.09	0	100	0	98.1	75-120	0			
Surr: Dibromofluoromethane	98.58	0	100	0	98.6	85-115	0			
Surr: Toluene-d8	99.13	0	100	0	99.1	85-120	0			

<b>LCS</b>	Sample ID: <b>VLCSW2-110815-R93418</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/15/2011 10:09 PM</b>			
Client ID:	Run ID: <b>VMS5_110815B</b>				SeqNo: <b>1706439</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	21.16	1.0	20	0	106	80-120	0			
Ethylbenzene	21.16	1.0	20	0	106	75-125	0			
m,p-Xylene	42.6	2.0	40	0	106	75-130	0			
o-Xylene	20.9	1.0	20	0	104	80-120	0			
Toluene	21.54	1.0	20	0	108	75-120	0			
Xylenes, Total	63.5	2.0	60	0	106	75-130	0			
Surr: 1,2-Dichloroethane-d4	97.53	0	100	0	97.5	70-120	0			
Surr: 4-Bromofluorobenzene	100.5	0	100	0	100	75-120	0			
Surr: Dibromofluoromethane	101.4	0	100	0	101	85-115	0			
Surr: Toluene-d8	98.65	0	100	0	98.6	85-120	0			

<b>LCSD</b>	Sample ID: <b>VLCSW2-110815-R93418</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/15/2011 10:34 PM</b>			
Client ID:	Run ID: <b>VMS5_110815B</b>				SeqNo: <b>1706440</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	20.67	1.0	20	0	103	80-120	21.16	2.34	30	
Ethylbenzene	20.62	1.0	20	0	103	75-125	21.16	2.58	30	
m,p-Xylene	41.39	2.0	40	0	103	75-130	42.6	2.88	30	
o-Xylene	20.52	1.0	20	0	103	80-120	20.9	1.83	30	
Toluene	20.97	1.0	20	0	105	75-120	21.54	2.68	30	
Xylenes, Total	61.91	2.0	60	0	103	75-130	63.5	2.54	30	
Surr: 1,2-Dichloroethane-d4	96.57	0	100	0	96.6	70-120	97.53	0.989	30	
Surr: 4-Bromofluorobenzene	100.6	0	100	0	101	75-120	100.5	0.119	30	
Surr: Dibromofluoromethane	99.66	0	100	0	99.7	85-115	101.4	1.74	30	
Surr: Toluene-d8	98.43	0	100	0	98.4	85-120	98.65	0.223	30	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93418**      Instrument ID **VMS5**      Method: **SW8260**

MS				Sample ID: 1108441-03A MS			Units: µg/L		Analysis Date: 8/16/2011 07:41 AM		
Client ID:		Run ID: VMS5_110815B			SeqNo: 1706448		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	20.84	1.0	20	0.2	103	80-120		0			
Ethylbenzene	21.13	1.0	20	0.61	103	75-125		0			
m,p-Xylene	41.69	2.0	40	0.79	102	75-130		0			
o-Xylene	19.75	1.0	20	0	98.8	80-120		0			
Toluene	20.62	1.0	20	0	103	75-120		0			
Xylenes, Total	61.44	2.0	60	0.79	101	75-130		0			
Surr: 1,2-Dichloroethane-d4	95.26	0	100	0	95.3	70-120		0			
Surr: 4-Bromofluorobenzene	101.7	0	100	0	102	75-120		0			
Surr: Dibromofluoromethane	100.3	0	100	0	100	85-115		0			
Surr: Toluene-d8	98.59	0	100	0	98.6	85-120		0			

MSD				Sample ID: 1108441-03A MSD			Units: µg/L		Analysis Date: 8/16/2011 08:06 AM		
Client ID:		Run ID: VMS5_110815B			SeqNo: 1706449		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	21.5	1.0	20	0.2	106	80-120	20.84	3.12	30		
Ethylbenzene	20.91	1.0	20	0.61	102	75-125	21.13	1.05	30		
m,p-Xylene	41.58	2.0	40	0.79	102	75-130	41.69	0.264	30		
o-Xylene	19.93	1.0	20	0	99.6	80-120	19.75	0.907	30		
Toluene	20.67	1.0	20	0	103	75-120	20.62	0.242	30		
Xylenes, Total	61.51	2.0	60	0.79	101	75-130	61.44	0.114	30		
Surr: 1,2-Dichloroethane-d4	99.3	0	100	0	99.3	70-120	95.26	4.15	30		
Surr: 4-Bromofluorobenzene	102	0	100	0	102	75-120	101.7	0.245	30		
Surr: Dibromofluoromethane	102.1	0	100	0	102	85-115	100.3	1.75	30		
Surr: Toluene-d8	98.67	0	100	0	98.7	85-120	98.59	0.0811	30		

The following samples were analyzed in this batch:

1108442-01A	1108442-02C	1108442-03C
1108442-04C	1108442-05C	1108442-06C

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **34945**      Instrument ID **WETCHEM**      Method: **SW7196A**

<b>MBLK</b>	Sample ID: <b>MBLK-34945-34945</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 04:00 PM</b>			
Client ID:	Run ID: <b>WETCHEM_110816H</b>				SeqNo: <b>1706875</b>		Prep Date: <b>8/16/2011</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	0.49								

<b>LCS</b>	Sample ID: <b>LCS-34945-34945</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 04:00 PM</b>			
Client ID:	Run ID: <b>WETCHEM_110816H</b>				SeqNo: <b>1706873</b>		Prep Date: <b>8/16/2011</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	2.06	0.50	1.984		0	104	75-110	0		

<b>LCSD</b>	Sample ID: <b>LCSD-34945-34945</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 04:00 PM</b>			
Client ID:	Run ID: <b>WETCHEM_110816H</b>				SeqNo: <b>1706874</b>		Prep Date: <b>8/16/2011</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	1.872	0.49	1.946		0	96.2	75-110	2.06	9.56	20

<b>MS</b>	Sample ID: <b>1108432-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 04:00 PM</b>			
Client ID:	Run ID: <b>WETCHEM_110816H</b>				SeqNo: <b>1706863</b>		Prep Date: <b>8/16/2011</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	1.74	0.49	1.969	0.2372	76.4	60-130	0			

<b>MSD</b>	Sample ID: <b>1108432-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/16/2011 04:00 PM</b>			
Client ID:	Run ID: <b>WETCHEM_110816H</b>				SeqNo: <b>1706864</b>		Prep Date: <b>8/16/2011</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	1.864	0.48	1.938	0.2372	84	60-130	1.74	6.89	30	

The following samples were analyzed in this batch:

1108442-02A	1108442-03A	1108442-04A
1108442-05A	1108442-06A	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93396** Instrument ID **WETCHEM** Method: **SW9045D**

**DUP** Sample ID: **1108432-01A DUP** Units: **s.u.** Analysis Date: **8/14/2011 10:10 AM**

Client ID: Run ID: **WETCHEM\_110814D** SeqNo: **1705166** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.26	0	0	0	0	0-0	9.26	0	20	

The following samples were analyzed in this batch:

1108442-02A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93397** Instrument ID **WETCHEM** Method: **SW9045D**

**DUP** Sample ID: **1108442-05A DUP** Units: **s.u.** Analysis Date: **8/15/2011 09:10 AM**

Client ID: **1/4 mile off Pad RGU 31-25** Run ID: **WETCHEM\_110815F** SeqNo: **1705173** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.93	0	0	0	0	0-0	8.93	0	20	

The following samples were analyzed in this batch:

1108442-03A	1108442-04A	1108442-05A
1108442-06A	1108442-07A	

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93425b**      Instrument ID **IC4**      Method: **E300.0**

**MBLK**      Sample ID: **CCB/MBLK-R93425b**      Units: **mg/L**      Analysis Date: **8/15/2011 10:30 AM**

Client ID:      Run ID: **IC4\_110815A**      SeqNo: **1706098**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	1.0								

**LCS**      Sample ID: **CCV/LCS-R93425b**      Units: **mg/L**      Analysis Date: **8/15/2011 11:09 AM**

Client ID:      Run ID: **IC4\_110815A**      SeqNo: **1706100**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.16	1.0	10		0	102	90-110	0		

**LCSD**      Sample ID: **CCV/LCSD-R93425b**      Units: **mg/L**      Analysis Date: **8/15/2011 11:58 AM**

Client ID:      Run ID: **IC4\_110815A**      SeqNo: **1706102**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.23	1.0	10		0	102	90-110	10.16	0.667	20

The following samples were analyzed in this batch:

1108442-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93433**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>	Sample ID: <b>WBLKS1-R93433</b>				Units: % of sample			Analysis Date: <b>8/15/2011 01:47 PM</b>		
Client ID:	Run ID: <b>MOIST_110815B</b>				SeqNo: <b>1706347</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-R93433</b>				Units: % of sample			Analysis Date: <b>8/15/2011 01:47 PM</b>		
Client ID:	Run ID: <b>MOIST_110815B</b>				SeqNo: <b>1706346</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>1108433-03ADUP</b>				Units: % of sample			Analysis Date: <b>8/15/2011 01:47 PM</b>		
Client ID:	Run ID: <b>MOIST_110815B</b>				SeqNo: <b>1706320</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	2.92	0.050	0	0	0	0-0	2.8	4.2	20	

<b>DUP</b>	Sample ID: <b>1108434-01ADUP</b>				Units: % of sample			Analysis Date: <b>8/15/2011 01:47 PM</b>		
Client ID:	Run ID: <b>MOIST_110815B</b>				SeqNo: <b>1706322</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	8.82	0.050	0	0	0	0-0	8.94	1.35	20	

<b>DUP</b>	Sample ID: <b>1108435-06BDUP1</b>				Units: % of sample			Analysis Date: <b>8/15/2011 01:47 PM</b>		
Client ID:	Run ID: <b>MOIST_110815B</b>				SeqNo: <b>1706327</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	42.48	0.050	0	0	0	0-0	34.61	20.4	20	R

<b>DUP</b>	Sample ID: <b>1108435-06BDUP2</b>				Units: % of sample			Analysis Date: <b>8/15/2011 01:47 PM</b>		
Client ID:	Run ID: <b>MOIST_110815B</b>				SeqNo: <b>1706328</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	30.32	0.050	0	0	0	0-0	34.61	13.2	20	

The following samples were analyzed in this batch:

1108442-03A	1108442-04A	1108442-05A
1108442-06A	1108442-07A	1108442-08A
1108442-09A	1108442-10A	1108442-11A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93435**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>	Sample ID: <b>WBLKS1-R93435</b>				Units: % of sample			Analysis Date: <b>8/15/2011 03:07 PM</b>		
Client ID:	Run ID: <b>MOIST_110815C</b>				SeqNo: <b>1706403</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-R93435</b>				Units: % of sample			Analysis Date: <b>8/15/2011 03:07 PM</b>		
Client ID:	Run ID: <b>MOIST_110815C</b>				SeqNo: <b>1706397</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>1108434-04ADUP</b>				Units: % of sample			Analysis Date: <b>8/15/2011 03:07 PM</b>		
Client ID:	Run ID: <b>MOIST_110815C</b>				SeqNo: <b>1706359</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	18.15	0.050	0	0	0	0-0	17.87	1.55	20	

<b>DUP</b>	Sample ID: <b>1108440-10BDUP1</b>				Units: % of sample			Analysis Date: <b>8/15/2011 03:07 PM</b>		
Client ID:	Run ID: <b>MOIST_110815C</b>				SeqNo: <b>1706376</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	10.55	0.050	0	0	0	0-0	9.59	9.53	20	

<b>DUP</b>	Sample ID: <b>1108440-10BDUP2</b>				Units: % of sample			Analysis Date: <b>8/15/2011 03:07 PM</b>		
Client ID:	Run ID: <b>MOIST_110815C</b>				SeqNo: <b>1706377</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	10.48	0.050	0	0	0	0-0	9.59	8.87	20	

The following samples were analyzed in this batch:

1108442-02A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1108442  
**Project:** Williams RGU 31-25-597 Pad LOE 8/10/11

## QC BATCH REPORT

Batch ID: **R93487**      Instrument ID **MOIST**      Method: **A2540 G**

**MBLK**      Sample ID: **WBLKS1-R93487**      Units: **% of sample**      Analysis Date: **8/16/2011 02:03 PM**

Client ID:      Run ID: **MOIST\_110816A**      SeqNo: **1707572**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

**LCS**      Sample ID: **LCS-R93487**      Units: **% of sample**      Analysis Date: **8/16/2011 02:03 PM**

Client ID:      Run ID: **MOIST\_110816A**      SeqNo: **1707571**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

**DUP**      Sample ID: **1108438-10BDUP**      Units: **% of sample**      Analysis Date: **8/16/2011 02:03 PM**

Client ID:      Run ID: **MOIST\_110816A**      SeqNo: **1707559**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	27.21	0.050	0	0	0	0-0	29.93	9.52	20	

**DUP**      Sample ID: **1108442-08ADUP**      Units: **% of sample**      Analysis Date: **8/16/2011 02:03 PM**

Client ID: **RGU 31-25-BG 2**      Run ID: **MOIST\_110816A**      SeqNo: **1707563**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.83	0.050	0	0	0	0-0	0.77	7.5	20	

The following samples were analyzed in this batch:

1108442-05A	1108442-06A	1108442-08A
1108442-11A		

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



# ALS Laboratory Group

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

## Chain-of-Custody

Form 202r8

WORKORDER #	1108442
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PROJECT NAME	RGU 31-25-597 Pad LOE	SAMPLER	Reed Wold	DATE	8/12/2011	PAGE	1 of 1
PROJECT No.		SITE ID	RGU 31-25-597	TURNAROUND	Standard	DISPOSAL	(By Lab) or Return to Client
COMPANY NAME	HRL COMPLIANCE SOLUTIONS Inc.	EDD FORMAT					
SEND REPORT TO	Mark Mumby	PURCHASE ORDER					
ADDRESS	744 HORIZON CT SUITE 140	BILL TO COMPANY	Williams				
CITY / STATE / ZIP	GRAND JUNCTION CO 81506	INVOICE ATTN TO	Karolia Blaney				
PHONE	970-243-3271	ADDRESS	1058 co rd 215				
FAX	970-243-3280	CITY / STATE / ZIP	Parachute CO 81635				
E-MAIL	Mmumby@hrlcomp.com	PHONE	970-683-2295				
		FAX	970-285-9573				
		E-MAIL	Karolia.blaney@williams.com				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
-1/-2	Sed Trap RGU 31-25	W, SO	8/10/2011	1:10	9	8, 1	
-3	Toe of Slope RGU 31-25	SO	8/10/2011	1:05	3	8	
-4	On Pad RGU 31-25	SO	8/10/2011	1:00	3	8	
-5	1/4 mile off Pad RGU 31-25	SO	8/10/2011	1:20	3	8	
-6	1/2 mile off Pad RGU 31-25	SO	8/10/2011	1:25	3	8	
-7	RGU 31-25-BG 1	SO	8/10/2011	2:00	2	8	
-8	RGU 31-25-BG 2	SO	8/10/2011	2:05	1	8	
-9	RGU 31-25-BG 3	SO	8/10/2011	2:10	1	8	
-10	RGU 31-25-BG 4	SO	8/10/2011	2:15	1	8	
-11	RGU 31-25-BG 5	SO	8/10/2011	2:20	1	8	

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

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	X LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	

SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY <i>Reed Wold</i>	Reed Wold	8/12/11	5pm
RECEIVED BY <i>J. Quill</i>	Les Analo	8-13-11	
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

**Subcontractor:**A & L Great Lakes Agricultural La  
3505 Conestoga Dr

Ft. Wayne, IN 46808

TEL: (260) 483-4759

FAX: (260) 483-5274

Acct #: 91000

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

Date: 14-Aug-11COC ID: 3036Due Date 19-Aug-11

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order		Project Name	1108442	A	Subcontracted Analyses (SUBCONTRACT) <i>SAR-EC</i>												
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													
<b>Sample ID</b>	<b>Matrix</b>	<b>Collection Date 24hr</b>	<b>Bottle</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>				
1108442-02B (Sed Trap RGU 31-25- Soil)	Soil	10/Aug/2011 1:10	(1) MISC	X													
1108442-03B (Toe of Slope RGU 31-25)	Soil	10/Aug/2011 13:05	(1) MISC	X													
1108442-04B (On Pad RGU 31-25)	Soil	10/Aug/2011 13:00	(1) MISC	X													
1108442-05B (1/4 mile off Pad RGU 31-25)	Soil	10/Aug/2011 13:20	(1) MISC	X													
1108442-06B (1/2 mile off Pad RGU 31-25)	Soil	10/Aug/2011 13:25	(1) MISC	X													
1108442-07B (RGU 31-25-BG 1)	Soil	10/Aug/2011 14:00	(1) MISC	X													

**Comments:**Please analyze for SAR-EC. Email results to Ann Preston.Relinquished by: *[Signature]*Date/Time: *8/15/11*Received by: *[Signature]*

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: 13-Aug-11 11:30

Work Order: 1108442

Received by: LA

Checklist completed by Tom Bramish 13-Aug-11  
eSignature Date

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

Matrices: soil / water

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>0.8 C</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Quality Environmental Containers  
800-255-3950 • 304-255-3900

**QEC**

**FedEx Express**

**S**

**FedEx Saturday Delivery**

**FedEx Express NEW Package US Airbill**

FedEx Tracking Number

8758 3471 3775

0200

Form ID No.

**FedEx Retrieval Copy**

**1 From**  
Date 8/12/11 Sender's FedEx Account Number  
Sender's Name Reed W. J. Phone 970 243-3271  
Company HRH compliance  
Address 744 Horizon Ct Ste 140 Dept./Floor/Suite/Room  
City Gland Junction State CO ZIP 81506

**2 Your Internal Billing Reference**

**3 To**  
Recipient's Name Samuel Receiving Phone 606 399-6070  
Company ALS Group  
Address 3352 128th AV Dept./Floor/Suite/Room  
We cannot deliver to P.O. boxes or P.O. ZIP codes.  
Address: Holland State MT ZIP 599424  
Use this line for the HOLD location address or for continuation of your shipping address.

**4 Express Package Service**

\* To most locations.

NOTE: Service order has changed. Please select carefully.

**Next Business Day**

- 06 ☐ FedEx First Overnight  
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 01 ☒ 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.

**2 or 3 Business Days**

- 49 ☐ NEW FedEx 2Day A.M.  
Second business morning.\* Saturday Delivery NOT available.
- 03 ☐ FedEx 2Day  
Second business afternoon.\* Thursday shipments will be delivered on Monday 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 ☐ Indirect Signature  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

**Does this shipment contain dangerous goods?**

- One box must be checked.  
☒ No 04 ☐ Yes  
As per attached Shipper's Declaration. Shipper's Declaration not required.
- 06 ☐ Dry Ice  
Dry Ice, 9 UN 1845 kg
- ☐ Cargo Aircraft Only

**7 Payment Bill to:**

- 1 ☐ Sender  
Acct. No. in Section 1 will be billed.
- 2 ☒ Recipient
- 3 ☐ Third Party
- 4 ☐ Credit Card
- 5 ☐ Cash/Check

Total Packages 1 Total Weight 77 lbs.  
Credit Card Auth. 612

\*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339



8758 3471 3775