

**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 Number:

400898838

Date Received:

09/11/2015

Spill report taken by:

LUJAN, CARLOS

Spill/Release Point ID:

442525

## SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

### OPERATOR INFORMATION

Name of Operator: <u>CAERUS PICEANCE LLC</u>	Operator No: <u>10456</u>	<b>Phone Numbers</b>
Address: <u>600 17TH STREET #1600N</u>		Phone: <u>(970) 285-9606</u>
City: <u>DENVER</u>	State: <u>CO</u>	Mobile: <u>(970) 778-2314</u>
Zip: <u>80202</u>		Email: <u>jjanicek@caerusoilandgas.com</u>
Contact Person: <u>Jake Janicek</u>		

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400870201

Initial Report Date: 07/17/2015      Date of Discovery: 07/14/2015      Spill Type: Historical Release

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWNE SEC 17 TWP 6S RNG 96W MERIDIAN 6Latitude: 39.528190 Longitude: -108.130220Municipality (if within municipal boundaries): \_\_\_\_\_ County: GARFIELD

#### Reference Location:

Facility Type: FLOWLINE ☒ Facility/Location ID No 335781☐ No Existing Facility or Location ID No.☐ Well API No. (Only if the reference facility is well) 05- -

#### Fluid(s) Spilled/Released (please answer Yes/No):

Was one (1) barrel or more spilled outside of berms or secondary containment? Yes

*Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.*

Were Five (5) barrels or more spilled? Yes

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): 0Estimated Condensate Spill Volume(bbl): UnknownEstimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): UnknownEstimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: \_\_\_\_\_

#### Land Use:

Current Land Use: NON-CROP LAND

Other(Specify): \_\_\_\_\_

Weather Condition: cloudy 85Surface Owner: FEEOther(Specify): Chevron USA, Inc.

#### Check if impacted or threatened by spill/Release (please answer Yes/No to all that apply):

Waters of the State ☐ Residence/Occupied Structure ☐ Livestock ☐ Public Byway ☐ Surface Water Supply Area ☐

As defined in COGCC 100-Series Rules

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

During a routine site visit, the pumper responsible for the site observed a stain and what appeared to be a hole where fluid from the subsurface was being conveyed to the surface immediately north of the site's tank battery. The wells associated with that tank battery were turned off and all flowlines/dumplines near the tank battery were relieved of all fluid and pressure. The area near the stain was excavated and impacted soil near the condensate dumpline was observed.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
7/15/2015	Garfield County	Kirby Wynn	970-987-2557	No response - Left voicemail
7/15/2015	COGCC	Carlos Lujan	970-286-3292	Responded with a phone call
7/13/2015	Chevron USA	Craig Tysse	970-285-9722	Requested an onsite meeting

**SPILL/RELEASE DETAIL REPORTS**

#1	Supplemental Report Date: 09/11/2015		
<b>FLUIDS</b>	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE			<input checked="" type="checkbox"/>
PRODUCED WATER			<input checked="" type="checkbox"/>
DRILLING FLUID	0	0	<input type="checkbox"/>
FLOW BACK FLUID	0	0	<input type="checkbox"/>
OTHER E&P WASTE	0	0	<input type="checkbox"/>
specify: _____			
Was spill/release completely contained within berms or secondary containment? <u>NO</u> Was an Emergency Pit constructed? <u>NO</u>			
<i>Secondary containment, including walls &amp; floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
<b>A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit</b>			
Impacted Media (Check all that apply) <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): 56		Width of Impact (feet): 18	
Depth of Impact (feet BGS): 17		Depth of Impact (inches BGS): _____	
How was extent determined?			
The extent was determined by collecting confirmation samples and submitting them for laboratory analysis.			
Soil/Geology Description:			
Arvada loam, 6 to 20 percent slopes			
Depth to Groundwater (feet BGS) 43		Number Water Wells within 1/2 mile radius: 6	
If less than 1 mile, distance in feet to nearest		Water Well 1158 None <input type="checkbox"/>	Surface Water 528 None <input type="checkbox"/>
		Wetlands None <input checked="" type="checkbox"/>	Springs 1056 None <input type="checkbox"/>
		Livestock None <input checked="" type="checkbox"/>	Occupied Building 918 None <input type="checkbox"/>
Additional Spill Details Not Provided Above:			

## CORRECTIVE ACTIONS

#1	Supplemental Report Date: 09/11/2015
Cause of Spill (Check all that apply) <input type="checkbox"/> Human Error <input checked="" type="checkbox"/> Equipment Failure <input type="checkbox"/> Historical-Unknown <input type="checkbox"/> Other (specify) _____	
Describe Incident & Root Cause (include specific equipment and point of failure) <div>The release was caused by a hole that developed in the dumpline.</div>	
Describe measures taken to prevent the problem(s) from reoccurring: <div>Pressure testing of dumplines is ongoing and will continue per the COGCC regulations.</div>	
Volume of Soil Excavated (cubic yards): 850	
Disposition of Excavated Soil (attach documentation) <input type="checkbox"/> Offsite Disposal <input type="checkbox"/> Onsite Treatment <input checked="" type="checkbox"/> Other (specify) Backfill Material	
Volume of Impacted Ground Water Removed (bbls): 0	
Volume of Impacted Surface Water Removed (bbls): 0	

## REQUEST FOR CLOSURE

**Spill/Release Reports should be closed when impacts have been remediated or when further investigation and corrective actions will take place under an approved Form 27.**

Basis for Closure: ☒ Corrective Actions Completed (documentation attached)

☐ Work proceeding under an approved Form 27

Form 27 Remediation Project No: \_\_\_\_\_

## OPERATOR COMMENTS:

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

Signed: \_\_\_\_\_ Print Name: Jake Janicek

Title: EHS Professional Date: 09/11/2015 Email: jjanicek@caerusoilandgas.com

## COA Type

## Description

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## Attachment Check List

### Att Doc Num

### Name

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Total Attach: 0 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Environmental	<p>Thanks for submitting the confirmation analytical results. Results are within Table 910-1 values except for SAR, EC, pH but upper 3 feet of excavation will be filled with native soil.</p> <p>Per new management instructions, we have to notify Engineering when a spill/release occurs due to a flowline issue. Please do not backfill until we get a response from COGCC Engineering group. I will leave this spill report open for now. C Lujan, 09/15/2015.</p> <p>Engineering group confirmed that the excavation can be backfilled. Caerus notified that back fill work has been completed. The spill report #400870201 will be closed. No Further Action is Necessary.</p>	<p>9/15/2015 11:04:39 AM</p>

Total: 1 comment(s)

**Parachute Creek 5 (COGCC Location ID 335781)**  
**Dumpline Release Remediation (COGCC Spill/Release Point ID 442525)**  
**Form 19 (Notice of Completion)**  
**Narrative Attachment**

This Notice of Completion was prepared for the purpose of describing completed work associated with the removal of impacted soil discovered during the assessment of a condensate dumpline leak at the Parachute Creek 5 (Location ID 335781) pad location in the Caerus Piceance, LLC (Caerus) area of operations. A Sample Location Map which includes the excavation extents is included as an attachment to this form.

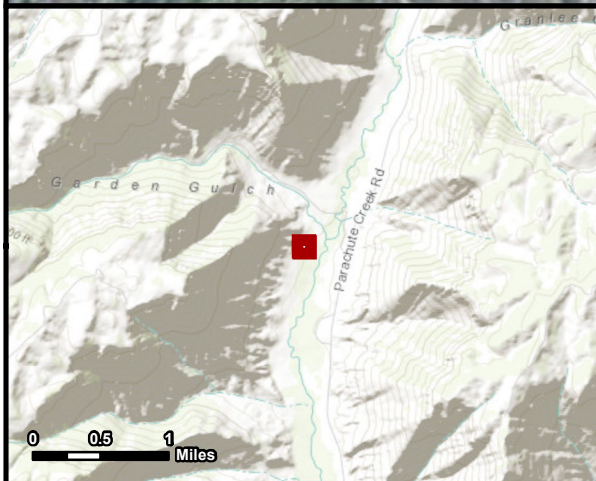
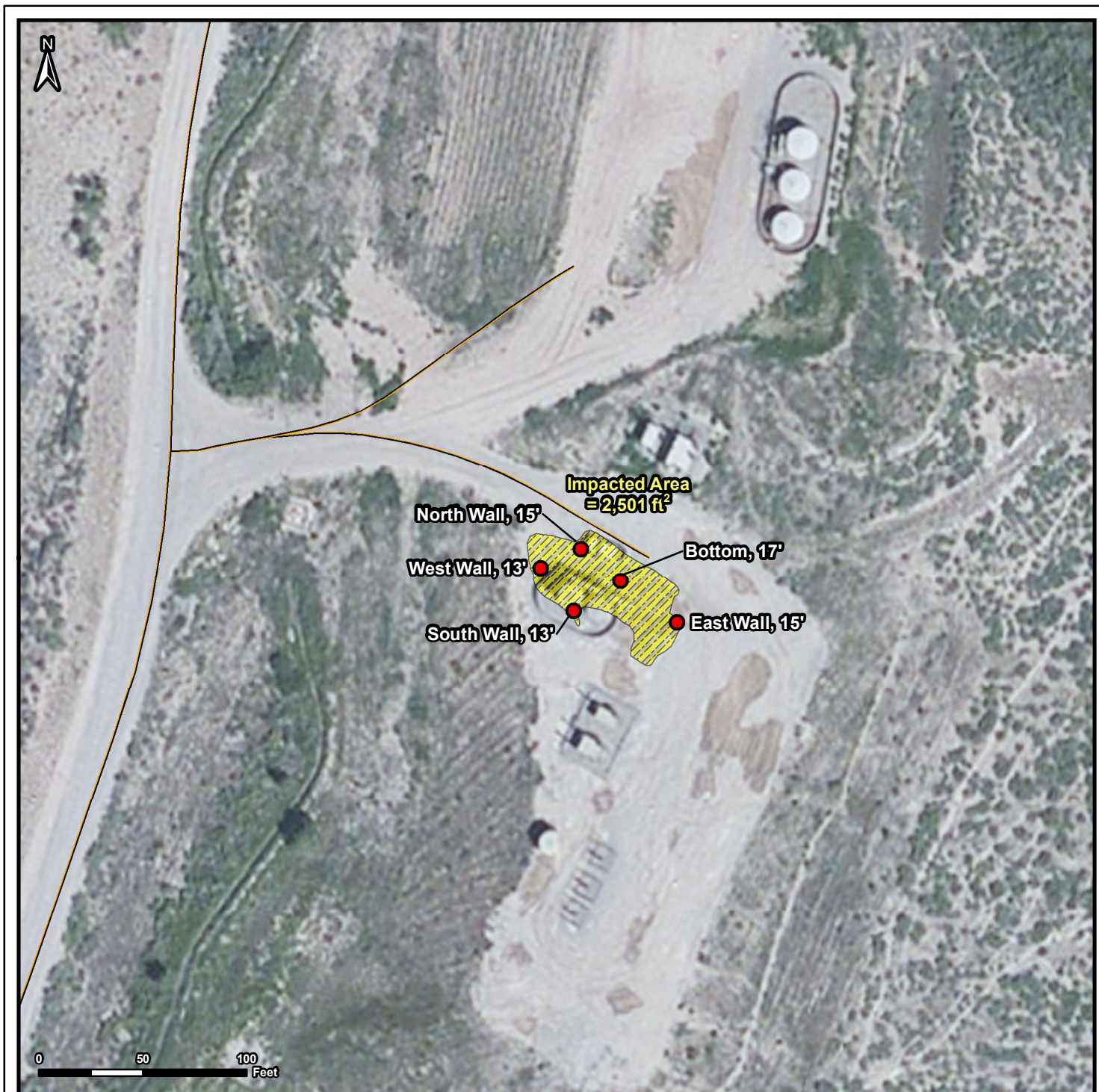
On July 20, 2015, we began excavating using field screening equipment to determine the extents of the impacted area. On July 24, 2015, it was determined that all impacted soil had been removed. All soil removed during excavation activities was stockpiled on site within containment berms.

On July 22 and 24, 2015, confirmation soil samples were collected from the walls and base of the excavated area (North Wall, Bottom 17ft, West Wall, East Wall, and South Wall). Soil samples were submitted for laboratory analysis of all COGCC Table 910-1 analytes. Laboratory analytical results indicate all soil samples were in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations, except for the sodium adsorption ratio (SAR) and electrical conductivity (EC) concentrations. However, these samples were collected at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Levels for SAR and EC to soils deeper than three feet below ground surface. A background sample collected at a nearby pad (Chevron 41-8D, COGCC Location ID 324196) was used for comparison. Sample locations are depicted on the attached Sample Location Map and laboratory analytical results are summarized in the attached analytical table.

All impacted soil removed during excavation activities is stockpiled on site. On August 18, 2015, confirmation soil samples were collected from both of the stockpiles (North Stockpile and South Stockpile). The soil samples were submitted for laboratory analysis of all COGCC Table 910-1 analytes. Laboratory analytical results indicate all soil samples were in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations, except for the SAR and EC concentrations. However, the soil represented by these samples will be buried at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Levels for SAR and EC to soils deeper than three feet below ground surface. A background sample collected at a nearby pad (Chevron 41-8D, COGCC Location ID 324196) was used for comparison. The excavation will be backfilled using a combination of this stockpiled material, material from the Garden Gulch Road Powder Bunker, and remediated soil from the Parachute Creek 1 Landfarm.

Based on soil analytical results, Caerus requests an NFA designation for this project.





#### NOTES / COMMENTS:

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HCSL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantee as to the quality or accuracy of the underlying data.



### SAMPLE LOCATION MAP

Parachute Creek 5

39.528607 -108.130253  
Section 17, Township 6 South, Range 96 West

#### Mapped Features

- Sample Location
- Impacted Area

#### PLSS

- Township
- Section

#### Transportation

- CO Highways
- County Roads
- Local Streets
- Access Roads

#### Hydrography

- Ditch
- Intermittent Stream
- Perennial Stream
- Waterbody
- Watershed



HRL COMPLIANCE SOLUTIONS, INC.  
Environmental Consultants

Author: E. Fought

Revision: 0

Date: 8/4/2015

Caerus Piceance LLC  
Parachute Creek 5 Dumpline Release  
Soil Sample Confirmation and Background Analytical Results

COGCC Table 910-1 Analytical Suite	Table 910-1 Standard	Units	Sample ID							
			Bottom 17ft	South Wall	West Wall	North Wall	East Wall	South Stockpile	North Stockpile	BKGD 1*
Sample Date			7/22/2015	7/22/2015	7/22/2015	7/22/2015	7/24/2015	8/18/2015	8/18/2015	7/22/2013
Organics										
TPH (DRO)	500	mg/kg	21	19	24	20	45	54	24	NA
TPH (GRO)	500	mg/kg	ND	ND	ND	ND	22	140	ND	NA
TPH	500	mg/kg	21	19	24	20	67	194	24	NA
BENZENE	0.17	mg/kg	ND	0.060	ND	ND	ND	0.044	ND	NA
TOLUENE	85	mg/kg	ND	ND	ND	ND	ND	ND	ND	NA
ETHYLBENZENE	100	mg/kg	ND	ND	ND	ND	ND	0.44	ND	NA
XYLENE TOTAL	175	mg/kg	ND	ND	ND	ND	ND	1.1	ND	NA
ACENAPHTHENE	1,000	mg/kg	ND	ND	ND	ND	ND	ND	ND	NA
ANTHRACENE	1,000	mg/kg	ND	ND	0.0070	ND	ND	ND	ND	NA
BENZO(A)ANTHRACENE	0.22	mg/kg	ND	ND	0.018	ND	ND	ND	ND	NA
BENZO(A)PYRENE	0.022	mg/kg	0.011	ND	0.020	ND	ND	ND	ND	NA
BENZO(B)FLUORANTHENE	0.22	mg/kg	ND	ND	0.055	ND	ND	ND	ND	NA
BENZO(K)FLUORANTHENE	2.2	mg/kg	0.0069	ND	0.020	ND	ND	ND	ND	NA
CHRYSENE	22	mg/kg	ND	ND	0.037	ND	ND	ND	ND	NA
DIBENZO(A,H)ANTHRACENE	0.022	mg/kg	ND	ND	0.012	ND	ND	ND	ND	NA
FLUORANTHENE	1,000	mg/kg	ND	ND	0.013	ND	ND	ND	ND	NA
FLUORENE	1,000	mg/kg	ND	ND	ND	ND	ND	ND	ND	NA
INDENO(1,2,3-CD)PYRENE	0.22	mg/kg	0.014	ND	0.062	ND	ND	ND	ND	NA
NAPHTHALENE	23	mg/kg	ND	ND	ND	ND	ND	0.030	0.019	NA
PYRENE	1,000	mg/kg	ND	ND	0.013	ND	ND	ND	ND	NA
Metals										
MERCURY	23	mg/kg	0.021	0.019	0.015	0.015	0.022	0.024	0.027	NA
ARSENIC	0.39	mg/kg	8.6	7.5	8.5	7.6	13	10	11	39
BARIUM	15,000	mg/kg	160	160	150	150	360	370	230	NA
CADMIUM	70	mg/kg	0.29	ND	ND	ND	ND	ND	ND	NA
CHROMIUM (III)	120,000	mg/kg	9.2	10	9.9	54	11	12	12	NA
CHROMIUM (IV)	23	mg/kg	ND	ND	ND	ND	ND	ND	ND	NA
COPPER	3,100	mg/kg	16	17	17	16	20	21	20	NA
LEAD	400	mg/kg	6.9	7.9	8.5	7.6	6.9	8.3	10	NA
NICKEL	1,600	mg/kg	24	25	25	23	33	29	35	NA
SELENIUM	390	mg/kg	1.3	2.0	ND	0.77	1.1	ND	ND	NA
SILVER	390	mg/kg	ND	ND	ND	ND	ND	ND	ND	NA
ZINC	23,000	mg/kg	53	55	56	52	59	59	65	NA
Inorganics										
Sodium Absorption Ratio	<12	unitless	31	29	12	23	12	7.0	5.6	NA
Electric Conductivity	<4mmhos/cm or 2x background	mmhos/cm	24	23	9.3	17	11	9.8	11	NA
pH	6 to 9	SU	7.8	7.7	8.1	7.8	8.2	8.0	8.5	NA

Notes:

\* This background sample was collected near another pad location, Chevron 41-8D (COGCC Location ID 324196)

Highlight indicates reading above COGCC Table 910-1 standards

ND - non detect

NA - not analyzed

SU - standard unit

mg/kg - milligram per kilogram

mmhos/cm - millimhos per centimeter

TPH (DRO) - total petroleum hydrocarbons - Diesel range organics

TPH (GRO) - total petroleum hydrocarbons - Gasoline range organics

TPH - total petroleum hydrocarbons (TPH-GRO and TPH-DRO combined)

COGCC - Colorado Oil and Gas Conservation Commission



06-Aug-2015

Casey Richardson  
HRL Compliance Solutions, Inc  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **Parachute Creek 5 Condensate Spill**

Work Order: **15071274**

Dear Casey,

ALS Environmental received 4 samples on 23-Jul-2015 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 35.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold  
Senior Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

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

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

Environmental 

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

RIGHT SOLUTIONS RIGHT PARTNER



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**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Work Order:** 15071274

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**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15071274-01	Bottom 17ft	Soil		7/22/2015 10:00	7/23/2015 09:30	<input type="checkbox"/>
15071274-02	South Wall	Soil		7/22/2015 09:50	7/23/2015 09:30	<input type="checkbox"/>
15071274-03	West Wall	Soil		7/22/2015 10:15	7/23/2015 09:30	<input type="checkbox"/>
15071274-04	North Wall	Soil		7/22/2015 15:00	7/23/2015 09:30	<input type="checkbox"/>

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**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**WorkOrder:** 15071274

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**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 is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

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

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

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**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Work Order:** 15071274

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**Case Narrative**

This Revised Report reflects the change of units to mg/kg for all parameters and the re-analysis for PAH's on sample 15071274-03, per the client request.

Samples for the above noted Work Order were received on 7/23/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

**Volatile Organics:**

No other deviations or anomalies were noted.

**Extractable Organics :**

No other deviations or anomalies were noted.

**Metals:**

Batch 73903, Method ICP\_6010\_S, Sample 15071274-03B: The reporting limit for Selenium is elevated due to dilution needed to eliminate matrix-related interference.

**Wet Chemistry:**

No other deviations or anomalies were noted.

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** Bottom 17ft  
**Collection Date:** 7/22/2015 10:00 AM

**Work Order:** 15071274  
**Lab ID:** 15071274-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>21</b>		<b>4.1</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: IT</b> 7/28/2015 06:57 PM
Surr: 4-Terphenyl-d14	76.5		39-133	%REC	1	7/28/2015 06:57 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.5</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: IT</b> 7/24/2015 02:12 AM
Surr: Toluene-d8	103		50-150	%REC	1	7/24/2015 02:12 AM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.021</b>		<b>0.013</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: LR</b> 7/24/2015 09:02 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>8.6</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: RH</b> 7/23/2015 05:42 PM
<b>Barium</b>	<b>160</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Cadmium</b>	<b>0.29</b>		<b>0.26</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Chromium</b>	<b>9.5</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Copper</b>	<b>16</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Lead</b>	<b>6.9</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Nickel</b>	<b>24</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Selenium</b>	<b>1.3</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Silver</b>	<b>ND</b>		<b>0.32</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>Zinc</b>	<b>53</b>		<b>0.64</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:42 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 7/27/15	<b>Analyst: JEC</b>
<b>Calcium</b>	<b>380</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	7/28/2015 03:06 PM
<b>Magnesium</b>	<b>510</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	7/28/2015 03:06 PM
<b>Sodium</b>	<b>3,900</b>		<b>20</b>	<b>mg/L</b>	<b>100</b>	7/28/2015 05:14 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 7/27/15	<b>Analyst: JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>31</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	7/28/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 7/26/15	<b>Analyst: RS</b>
<b>Acenaphthene</b>	<b>ND</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Acenaphthylene</b>	<b>ND</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Anthracene</b>	<b>ND</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Benzo(a)pyrene</b>	<b>0.011</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Benzo(g,h,i)perylene</b>	<b>0.0095</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Benzo(k)fluoranthene</b>	<b>0.0069</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM
<b>Chrysene</b>	<b>ND</b>		<b>0.0066</b>	<b>mg/Kg</b>	<b>1</b>	7/27/2015 08:24 PM

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

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** Bottom 17ft  
**Collection Date:** 7/22/2015 10:00 AM

**Work Order:** 15071274  
**Lab ID:** 15071274-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		0.0066	mg/Kg	1	7/27/2015 08:24 PM
Fluoranthene	ND		0.0066	mg/Kg	1	7/27/2015 08:24 PM
Fluorene	ND		0.0066	mg/Kg	1	7/27/2015 08:24 PM
Indeno(1,2,3-cd)pyrene	0.014		0.0066	mg/Kg	1	7/27/2015 08:24 PM
Naphthalene	ND		0.0066	mg/Kg	1	7/27/2015 08:24 PM
Pyrene	ND		0.0066	mg/Kg	1	7/27/2015 08:24 PM
Surr: 2-Fluorobiphenyl	72.3		12-100	%REC	1	7/27/2015 08:24 PM
Surr: 4-Terphenyl-d14	97.4		25-137	%REC	1	7/27/2015 08:24 PM
Surr: Nitrobenzene-d5	72.0		37-107	%REC	1	7/27/2015 08:24 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/23/15		Analyst: AK
Benzene	ND		0.030	mg/Kg	1	7/24/2015 07:05 AM
Ethylbenzene	ND		0.030	mg/Kg	1	7/24/2015 07:05 AM
m,p-Xylene	ND		0.060	mg/Kg	1	7/24/2015 07:05 AM
o-Xylene	ND		0.030	mg/Kg	1	7/24/2015 07:05 AM
Toluene	ND		0.030	mg/Kg	1	7/24/2015 07:05 AM
Xylenes, Total	ND		0.090	mg/Kg	1	7/24/2015 07:05 AM
Surr: 1,2-Dichloroethane-d4	97.4		70-130	%REC	1	7/24/2015 07:05 AM
Surr: 4-Bromofluorobenzene	97.2		70-130	%REC	1	7/24/2015 07:05 AM
Surr: Dibromofluoromethane	92.4		70-130	%REC	1	7/24/2015 07:05 AM
Surr: Toluene-d8	96.6		70-130	%REC	1	7/24/2015 07:05 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 7/27/15		Analyst: JB
Electrical Conductivity @ Saturation	24		0.050	mmhos/cm @2	10	7/27/2015 01:45 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JB
Chromium, Trivalent	9.2		0.50	mg/Kg	1	7/27/2015 09:30 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/23/15		Analyst: MB
Chromium, Hexavalent	ND		1.0	mg/Kg	1	7/24/2015 10:00 AM
PH			SW9045D	Prep: EXTRACT / 7/23/15		Analyst: STP
pH	7.8			s.u.	1	7/23/2015 04:00 PM

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



# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** South Wall  
**Collection Date:** 7/22/2015 09:50 AM

**Work Order:** 15071274  
**Lab ID:** 15071274-02  
**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>19</b>		<b>4.1</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: IT</b> 7/28/2015 10:27 PM
Surr: 4-Terphenyl-d14	72.4		39-133	%REC	1	7/28/2015 10:27 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.5</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: IT</b> 7/24/2015 02:36 AM
Surr: Toluene-d8	104		50-150	%REC	1	7/24/2015 02:36 AM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.019</b>		<b>0.013</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: LR</b> 7/24/2015 09:04 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>7.5</b>		<b>0.36</b>	<b>mg/Kg</b>	<b>1</b>	<b>Analyst: RH</b> 7/23/2015 05:49 PM
<b>Barium</b>	<b>160</b>		<b>0.36</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:49 PM
Cadmium	ND		0.29	mg/Kg	1	7/23/2015 05:49 PM
<b>Chromium</b>	<b>11</b>		<b>0.36</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:49 PM
<b>Copper</b>	<b>17</b>		<b>0.36</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:49 PM
<b>Lead</b>	<b>7.9</b>		<b>0.36</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:49 PM
<b>Nickel</b>	<b>25</b>		<b>0.36</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:49 PM
<b>Selenium</b>	<b>2.0</b>		<b>1.8</b>	<b>mg/Kg</b>	<b>5</b>	7/24/2015 03:44 PM
Silver	ND		0.36	mg/Kg	1	7/23/2015 05:49 PM
<b>Zinc</b>	<b>55</b>		<b>0.72</b>	<b>mg/Kg</b>	<b>1</b>	7/23/2015 05:49 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 7/27/15	<b>Analyst: JEC</b>
<b>Calcium</b>	<b>360</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	7/28/2015 03:12 PM
<b>Magnesium</b>	<b>520</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	7/28/2015 03:12 PM
<b>Sodium</b>	<b>3,700</b>		<b>20</b>	<b>mg/L</b>	<b>100</b>	7/28/2015 05:20 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 7/27/15	<b>Analyst: JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>29</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	7/28/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 7/27/15	<b>Analyst: RS</b>
Acenaphthene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Acenaphthylene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Anthracene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Benzo(a)anthracene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Benzo(a)pyrene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Benzo(b)fluoranthene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Benzo(g,h,i)perylene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Benzo(k)fluoranthene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Chrysene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM

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

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** South Wall  
**Collection Date:** 7/22/2015 09:50 AM

**Work Order:** 15071274  
**Lab ID:** 15071274-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Fluoranthene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Fluorene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Indeno(1,2,3-cd)pyrene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Naphthalene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Pyrene	ND		0.0065	mg/Kg	1	7/28/2015 01:19 AM
Surr: 2-Fluorobiphenyl	74.1		12-100	%REC	1	7/28/2015 01:19 AM
Surr: 4-Terphenyl-d14	90.2		25-137	%REC	1	7/28/2015 01:19 AM
Surr: Nitrobenzene-d5	69.1		37-107	%REC	1	7/28/2015 01:19 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/23/15		Analyst: BG
Benzene	0.060		0.030	mg/Kg	1	7/24/2015 11:08 PM
Ethylbenzene	ND		0.030	mg/Kg	1	7/24/2015 11:08 PM
m,p-Xylene	ND		0.060	mg/Kg	1	7/24/2015 11:08 PM
o-Xylene	ND		0.030	mg/Kg	1	7/24/2015 11:08 PM
Toluene	ND		0.030	mg/Kg	1	7/24/2015 11:08 PM
Xylenes, Total	ND		0.090	mg/Kg	1	7/24/2015 11:08 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	7/24/2015 11:08 PM
Surr: 4-Bromofluorobenzene	93.0		70-130	%REC	1	7/24/2015 11:08 PM
Surr: Dibromofluoromethane	97.6		70-130	%REC	1	7/24/2015 11:08 PM
Surr: Toluene-d8	101		70-130	%REC	1	7/24/2015 11:08 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 7/27/15		Analyst: JB
Electrical Conductivity @ Saturation	23		0.050	mmhos/cm @2	10	7/27/2015 01:45 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JB
Chromium, Trivalent	10		0.50	mg/Kg	1	7/27/2015 09:30 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/23/15		Analyst: MB
Chromium, Hexavalent	ND		0.99	mg/Kg	1	7/24/2015 10:00 AM
PH			SW9045D	Prep: EXTRACT / 7/23/15		Analyst: STP
pH	7.7			s.u.	1	7/23/2015 04:00 PM

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

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** West Wall  
**Collection Date:** 7/22/2015 10:15 AM

**Work Order:** 15071274  
**Lab ID:** 15071274-03  
**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>24</b>		<b>4.1</b>	<b>mg/Kg</b>	1	7/28/2015 10:57 PM
Surr: 4-Terphenyl-d14	65.9		39-133	%REC	1	7/28/2015 10:57 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.5</b>	<b>mg/Kg</b>	1	7/24/2015 03:00 AM
Surr: Toluene-d8	103		50-150	%REC	1	7/24/2015 03:00 AM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.015</b>		<b>0.015</b>	<b>mg/Kg</b>	1	7/24/2015 09:07 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>8.5</b>		<b>0.38</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
<b>Barium</b>	<b>150</b>		<b>0.38</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
Cadmium	ND		0.30	mg/Kg	1	7/23/2015 05:54 PM
<b>Chromium</b>	<b>10</b>		<b>0.38</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
<b>Copper</b>	<b>17</b>		<b>0.38</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
<b>Lead</b>	<b>8.5</b>		<b>0.38</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
<b>Nickel</b>	<b>25</b>		<b>0.38</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
Selenium	ND		1.9	mg/Kg	5	7/24/2015 03:50 PM
Silver	ND		0.38	mg/Kg	1	7/23/2015 05:54 PM
<b>Zinc</b>	<b>56</b>		<b>0.76</b>	<b>mg/Kg</b>	1	7/23/2015 05:54 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 7/27/15	Analyst: JEC
<b>Calcium</b>	<b>370</b>		<b>5.0</b>	<b>mg/L</b>	10	7/28/2015 03:18 PM
<b>Magnesium</b>	<b>200</b>		<b>2.0</b>	<b>mg/L</b>	10	7/28/2015 03:18 PM
<b>Sodium</b>	<b>1,200</b>		<b>2.0</b>	<b>mg/L</b>	10	7/28/2015 03:18 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 7/27/15	Analyst: JEC
<b>Sodium Adsorption Ratio</b>	<b>12</b>		<b>0.010</b>	<b>none</b>	1	7/28/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 7/27/15	Analyst: RM
Acenaphthene	ND		0.0066	mg/Kg	1	8/4/2015 03:25 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	8/4/2015 03:25 PM
<b>Anthracene</b>	<b>0.0070</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Benzo(a)anthracene</b>	<b>0.018</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Benzo(a)pyrene</b>	<b>0.020</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Benzo(b)fluoranthene</b>	<b>0.055</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Benzo(g,h,i)perylene</b>	<b>0.032</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Benzo(k)fluoranthene</b>	<b>0.020</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Chrysene</b>	<b>0.037</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM

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

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** West Wall  
**Collection Date:** 7/22/2015 10:15 AM

**Work Order:** 15071274  
**Lab ID:** 15071274-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Dibenzo(a,h)anthracene</b>	<b>0.012</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
<b>Fluoranthene</b>	<b>0.013</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
Fluorene	ND		0.0066	mg/Kg	1	8/4/2015 03:25 PM
<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.062</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
Naphthalene	ND		0.0066	mg/Kg	1	8/4/2015 03:25 PM
<b>Pyrene</b>	<b>0.013</b>		<b>0.0066</b>	<b>mg/Kg</b>	1	8/4/2015 03:25 PM
Surr: 2-Fluorobiphenyl	59.8		12-100	%REC	1	8/4/2015 03:25 PM
Surr: 4-Terphenyl-d14	91.5		25-137	%REC	1	8/4/2015 03:25 PM
Surr: Nitrobenzene-d5	49.3		37-107	%REC	1	8/4/2015 03:25 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 7/23/15	Analyst: <b>AK</b>
Benzene	ND		0.030	mg/Kg	1	7/24/2015 07:54 AM
Ethylbenzene	ND		0.030	mg/Kg	1	7/24/2015 07:54 AM
m,p-Xylene	ND		0.060	mg/Kg	1	7/24/2015 07:54 AM
o-Xylene	ND		0.030	mg/Kg	1	7/24/2015 07:54 AM
Toluene	ND		0.030	mg/Kg	1	7/24/2015 07:54 AM
Xylenes, Total	ND		0.090	mg/Kg	1	7/24/2015 07:54 AM
Surr: 1,2-Dichloroethane-d4	97.9		70-130	%REC	1	7/24/2015 07:54 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	7/24/2015 07:54 AM
Surr: Dibromofluoromethane	94.9		70-130	%REC	1	7/24/2015 07:54 AM
Surr: Toluene-d8	95.4		70-130	%REC	1	7/24/2015 07:54 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 7/27/15	Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	9.3		0.050	mmhos/cm @2	10	7/27/2015 01:45 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JB</b>
Chromium, Trivalent	9.9		0.50	mg/Kg	1	7/27/2015 09:30 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 7/23/15	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		0.86	mg/Kg	1	7/24/2015 10:00 AM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 7/23/15	Analyst: <b>STP</b>
pH	8.1			s.u.	1	7/23/2015 04:00 PM

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

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** North Wall  
**Collection Date:** 7/22/2015 03:00 PM

**Work Order:** 15071274  
**Lab ID:** 15071274-04  
**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>20</b>		<b>4.2</b>	<b>mg/Kg</b>	1	7/28/2015 09:57 PM
Surr: 4-Terphenyl-d14	62.3		39-133	%REC	1	7/28/2015 09:57 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.5</b>	<b>mg/Kg</b>	1	7/24/2015 03:24 AM
Surr: Toluene-d8	100		50-150	%REC	1	7/24/2015 03:24 AM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.015</b>		<b>0.013</b>	<b>mg/Kg</b>	1	7/24/2015 09:09 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>7.6</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
<b>Barium</b>	<b>150</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
Cadmium	ND		0.32	mg/Kg	1	7/23/2015 05:59 PM
<b>Chromium</b>	<b>10</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
<b>Copper</b>	<b>16</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
<b>Lead</b>	<b>7.6</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
<b>Nickel</b>	<b>23</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
<b>Selenium</b>	<b>0.77</b>		<b>0.40</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
Silver	ND		0.40	mg/Kg	1	7/23/2015 05:59 PM
<b>Zinc</b>	<b>52</b>		<b>0.81</b>	<b>mg/Kg</b>	1	7/23/2015 05:59 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 7/27/15	Analyst: JEC
<b>Calcium</b>	<b>500</b>		<b>5.0</b>	<b>mg/L</b>	10	7/28/2015 03:23 PM
<b>Magnesium</b>	<b>350</b>		<b>2.0</b>	<b>mg/L</b>	10	7/28/2015 03:23 PM
<b>Sodium</b>	<b>2,800</b>		<b>2.0</b>	<b>mg/L</b>	10	7/28/2015 03:23 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 7/27/15	Analyst: JEC
<b>Sodium Adsorption Ratio</b>	<b>23</b>		<b>0.010</b>	<b>none</b>	1	7/28/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 7/27/15	Analyst: RS
Acenaphthene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Acenaphthylene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Anthracene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Benzo(a)anthracene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Benzo(a)pyrene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Benzo(b)fluoranthene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Benzo(g,h,i)perylene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Benzo(k)fluoranthene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Chrysene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM

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

# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** North Wall  
**Collection Date:** 7/22/2015 03:00 PM

**Work Order:** 15071274  
**Lab ID:** 15071274-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Fluoranthene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Fluorene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Indeno(1,2,3-cd)pyrene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Naphthalene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Pyrene	ND		0.0067	mg/Kg	1	7/28/2015 02:04 AM
Surr: 2-Fluorobiphenyl	74.7		12-100	%REC	1	7/28/2015 02:04 AM
Surr: 4-Terphenyl-d14	75.5		25-137	%REC	1	7/28/2015 02:04 AM
Surr: Nitrobenzene-d5	72.3		37-107	%REC	1	7/28/2015 02:04 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/23/15		Analyst: AK
Benzene	ND		0.030	mg/Kg	1	7/24/2015 08:19 AM
Ethylbenzene	ND		0.030	mg/Kg	1	7/24/2015 08:19 AM
m,p-Xylene	ND		0.060	mg/Kg	1	7/24/2015 08:19 AM
o-Xylene	ND		0.030	mg/Kg	1	7/24/2015 08:19 AM
Toluene	ND		0.030	mg/Kg	1	7/24/2015 08:19 AM
Xylenes, Total	ND		0.090	mg/Kg	1	7/24/2015 08:19 AM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	7/24/2015 08:19 AM
Surr: 4-Bromofluorobenzene	97.9		70-130	%REC	1	7/24/2015 08:19 AM
Surr: Dibromofluoromethane	95.4		70-130	%REC	1	7/24/2015 08:19 AM
Surr: Toluene-d8	96.8		70-130	%REC	1	7/24/2015 08:19 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 7/27/15		Analyst: JB
Electrical Conductivity @ Saturation	17		0.050	mmhos/cm @2	10	7/27/2015 01:45 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JB
Chromium, Trivalent	54		0.50	mg/Kg	1	7/29/2015 05:15 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/27/15		Analyst: MB
Chromium, Hexavalent	ND		0.92	mg/Kg	1	7/29/2015 01:00 PM
PH			SW9045D	Prep: EXTRACT / 7/23/15		Analyst: STP
pH	7.8			s.u.	1	7/23/2015 04:00 PM

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



# ALS Group USA, Corp

Date: 06-Aug-15

**Client:** HRL Compliance Solutions, Inc

**Work Order:** 15071274

**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74009**

Instrument ID **GC8**

Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-74009-74009</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 12:50 PM</b>		
Client ID:		Run ID: <b>GC8_150727A</b>				SeqNo: <b>3389337</b>		Prep Date: <b>7/26/2015</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	5.0								
Surr: 4-Terphenyl-d14	1.402	0	2	0	70.1	39-133		0		

<b>LCS</b>		Sample ID: <b>DLCSS1-74009-74009</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 01:20 AM</b>		
Client ID:		Run ID: <b>GC8_150727A</b>				SeqNo: <b>3389330</b>		Prep Date: <b>7/26/2015</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)	139.2	5.0	200	0	69.6	61-109		0		
Surr: 4-Terphenyl-d14	1.285	0	2	0	64.2	39-133		0		

<b>MS</b>		Sample ID: <b>15071428-02B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 01:50 AM</b>		
Client ID:		Run ID: <b>GC8_150727A</b>				SeqNo: <b>3389331</b>		Prep Date: <b>7/26/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	708.6	82	329.8	396.1	94.8	48-110		0		
Surr: 4-Terphenyl-d14	2.275	0	3.298	0	69	39-133		0		

<b>MSD</b>		Sample ID: <b>15071428-02B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 02:20 AM</b>		
Client ID:		Run ID: <b>GC8_150727A</b>				SeqNo: <b>3389332</b>		Prep Date: <b>7/26/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	695.9	83	332.5	396.1	90.2	48-110	708.6	1.81	30	
Surr: 4-Terphenyl-d14	2.547	0	3.325	0	76.6	39-133	2.275	11.3	30	

The following samples were analyzed in this batch:

15071274-01B

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74025** Instrument ID **GC8** Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-74025-74025</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 07:57 PM</b>		
Client ID:		Run ID: <b>GC8_150728A</b>				SeqNo: <b>3391950</b>		Prep Date: <b>7/27/2015</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	5.0								
Surr: 4-Terphenyl-d14	1.369	0	2	0	68.5	39-133	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-74025-74025</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 08:27 PM</b>		
Client ID:		Run ID: <b>GC8_150728A</b>				SeqNo: <b>3391951</b>		Prep Date: <b>7/27/2015</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)	150.4	5.0	200	0	75.2	61-109	0			
Surr: 4-Terphenyl-d14	1.232	0	2	0	61.6	39-133	0			

<b>MS</b>		Sample ID: <b>15071274-04B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 08:57 PM</b>		
Client ID: <b>North Wall</b>		Run ID: <b>GC8_150728A</b>				SeqNo: <b>3391953</b>		Prep Date: <b>7/27/2015</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)	252.9	8.2	329	20.35	70.7	48-110	0			
Surr: 4-Terphenyl-d14	2.248	0	3.29	0	68.3	39-133	0			

<b>MSD</b>		Sample ID: <b>15071274-04B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/28/2015 09:27 PM</b>		
Client ID: <b>North Wall</b>		Run ID: <b>GC8_150728A</b>				SeqNo: <b>3391974</b>		Prep Date: <b>7/27/2015</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)	247.4	8.2	328.7	20.35	69.1	48-110	252.9	2.2	30	
Surr: 4-Terphenyl-d14	2.074	0	3.287	0	63.1	39-133	2.248	8.03	30	

The following samples were analyzed in this batch:

15071274-02B	15071274-03B	15071274-04B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73900**      Instrument ID **GC10**      Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-73900-73900</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/23/2015 04:55 PM</b>		
Client ID:		Run ID: <b>GC10_150723A</b>				SeqNo: <b>3385136</b>		Prep Date: <b>7/23/2015</b>		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	2,500								
Surr: Toluene-d8	4963	0	5000	0	99.3	50-150	0			

<b>LCS</b>		Sample ID: <b>LCS-73900-73900</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/23/2015 04:30 PM</b>		
Client ID:		Run ID: <b>GC10_150723A</b>				SeqNo: <b>3385135</b>		Prep Date: <b>7/23/2015</b>		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)	592100	2,500	500000	0	118	70-130	0			
Surr: Toluene-d8	4868	0	5000	0	97.4	50-150	0			

<b>MS</b>		Sample ID: <b>15071247-02A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/23/2015 07:45 PM</b>		
Client ID:		Run ID: <b>GC10_150723A</b>				SeqNo: <b>3385143</b>		Prep Date: <b>7/23/2015</b>		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)	586000	2,500	500000	0	117	70-130	0			
Surr: Toluene-d8	4710	0	5000	0	94.2	50-150	0			

<b>MSD</b>		Sample ID: <b>15071247-02A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/23/2015 08:09 PM</b>		
Client ID:		Run ID: <b>GC10_150723A</b>				SeqNo: <b>3385144</b>		Prep Date: <b>7/23/2015</b>		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)	605900	2,500	500000	0	121	70-130	586000	3.33	30	
Surr: Toluene-d8	4870	0	5000	0	97.4	50-150	4710	3.32	30	

The following samples were analyzed in this batch:

15071274-01A	15071274-02A	15071274-03A
15071274-04A		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73937** Instrument ID **HG1** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-73937-73937</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 03:24 PM</b>		
Client ID:		Run ID: <b>HG1_150724A</b>				SeqNo: <b>3385740</b>		Prep Date: <b>7/24/2015</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-73937-73937</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 03:26 PM</b>		
Client ID:		Run ID: <b>HG1_150724A</b>				SeqNo: <b>3385741</b>		Prep Date: <b>7/24/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1797 0.020 0.1665 0 108 80-120 0

<b>MS</b>		Sample ID: <b>15071308-02BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 03:31 PM</b>		
Client ID:		Run ID: <b>HG1_150724A</b>				SeqNo: <b>3385744</b>		Prep Date: <b>7/24/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1191 0.013 0.105 0.005277 108 75-125 0

<b>MSD</b>		Sample ID: <b>15071308-02BMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 03:33 PM</b>		
Client ID:		Run ID: <b>HG1_150724A</b>				SeqNo: <b>3385745</b>		Prep Date: <b>7/24/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.123 0.013 0.1063 0.005277 111 75-125 0.1191 3.22 35

The following samples were analyzed in this batch:

15071274-01B	15071274-02B	15071274-03B
15071274-04B		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73903** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK				Sample ID: MBLK-73903-73903				Units: mg/Kg		Analysis Date: 7/23/2015 03:19 PM	
Client ID:			Run ID: ICP2_150723B			SeqNo: 3384731		Prep Date: 7/23/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	ND	0.25									
Barium	ND	0.25									
Cadmium	ND	0.50									
Chromium	0.01415	0.25								J	
Copper	ND	0.50									
Lead	ND	0.25									
Nickel	ND	0.25									
Selenium	ND	0.50									
Silver	ND	0.25									
Zinc	ND	0.50									

LCS				Sample ID: LCS-73903-73903				Units: mg/Kg		Analysis Date: 7/23/2015 03:25 PM		
Client ID:			Run ID: ICP2_150723B			SeqNo: 3384732		Prep Date: 7/23/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	4.951	0.25	5	0	99	80-120	0					
Barium	4.985	0.25	5	0	99.7	80-120	0					
Cadmium	4.788	0.50	5	0	95.8	80-120	0					
Chromium	5.173	0.25	5	0	103	80-120	0					
Copper	5.242	0.50	5	0	105	80-120	0					
Lead	5.148	0.25	5	0	103	80-120	0					
Nickel	5.23	0.25	5	0	105	80-120	0					
Selenium	5.08	0.50	5	0	102	80-120	0					
Silver	4.896	0.25	5	0	97.9	80-120	0					
Zinc	4.863	0.50	5	0	97.3	80-120	0					

MS				Sample ID: 15071247-03AMS			Units: mg/Kg		Analysis Date: 7/23/2015 04:26 PM		
Client ID:			Run ID: ICP2_150723B			SeqNo: 3384743		Prep Date: 7/23/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	15.93	0.37	7.474	8.174	104	75-125	0				
Barium	308.8	0.37	7.474	282.9	346	75-125	0			SO	
Cadmium	6.987	0.75	7.474	-0.09547	94.8	75-125	0				
Chromium	67.08	0.37	7.474	57.1	133	75-125	0			SO	
Copper	19.94	0.75	7.474	11.46	113	75-125	0				
Lead	13.45	0.37	7.474	6.96	86.8	75-125	0				
Nickel	44.66	0.37	7.474	34.07	142	75-125	0			SO	
Selenium	8.028	0.75	7.474	0.4858	101	75-125	0				
Silver	7.392	0.37	7.474	-0.04362	99.5	75-125	0				
Zinc	36.56	0.75	7.474	26.31	137	75-125	0			S	

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73903**      Instrument ID **ICP2**      Method: **SW846 6010C**

MSD		Sample ID: <b>15071247-03AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/23/2015 04:31 PM</b>		
Client ID:		Run ID: <b>ICP2_150723B</b>				SeqNo: <b>3384744</b>		Prep Date: <b>7/23/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.86	0.37	7.452	8.174	103	75-125	15.93	0.44	20	
Barium	308.3	0.37	7.452	282.9	341	75-125	308.8	0.165	20	SO
Cadmium	7.012	0.75	7.452	-0.09547	95.4	75-125	6.987	0.351	20	
Chromium	69.15	0.37	7.452	57.1	162	75-125	67.08	3.04	20	SO
Copper	19.81	0.75	7.452	11.46	112	75-125	19.94	0.631	20	
Lead	13.53	0.37	7.452	6.96	88.1	75-125	13.45	0.593	20	
Nickel	45.67	0.37	7.452	34.07	156	75-125	44.66	2.25	20	SO
Selenium	8.094	0.75	7.452	0.4858	102	75-125	8.028	0.82	20	
Silver	7.434	0.37	7.452	-0.04362	100	75-125	7.392	0.56	20	
Zinc	35.46	0.75	7.452	26.31	123	75-125	36.56	3.05	20	

The following samples were analyzed in this batch:

15071274-01B	15071274-02B	15071274-03B
15071274-04B		

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



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73973**      Instrument ID **ICP2**      Method: **SW846 6010C**

<b>DUP</b>		Sample ID: <b>15071305-01ADUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/28/2015 03:35 PM</b>		
Client ID:		Run ID: <b>ICP2_150728A</b>				SeqNo: <b>3390478</b>		Prep Date: <b>7/27/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	292.1	5.0	0	0	0	0-0	292.1	0		
Magnesium	0.5489	2.0	0	0	0	0-0	0.5489	0		J
Sodium	2461	2.0	0	0	0	0-0	2461	0		

<b>DUP</b>		Sample ID: <b>15071305-01ADUP</b>				Units: <b>none</b>		Analysis Date: <b>7/28/2015</b>		
Client ID:		Run ID: <b>SAR_150728B</b>				SeqNo: <b>3390525</b>		Prep Date: <b>7/27/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	39.6	0.010	0	0	0		39.89	0.722	50	

The following samples were analyzed in this batch:

15071274-01C	15071274-02C	15071274-03C
15071274-04C		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74008** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: <b>SBLKS1-74008-74008</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/26/2015 04:44 PM</b>		
Client ID:		Run ID: <b>SVMS5_150726A</b>				SeqNo: <b>3387398</b>		Prep Date: <b>7/26/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1588	0	1667	0	95.3	12-100	0			
Surr: 4-Terphenyl-d14	1718	0	1667	0	103	25-137	0			
Surr: Nitrobenzene-d5	1653	0	1667	0	99.2	37-107	0			

LCS		Sample ID: <b>SLCSS1-74008-74008</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/26/2015 05:07 PM</b>		
Client ID:		Run ID: <b>SVMS5_150726A</b>				SeqNo: <b>3387400</b>		Prep Date: <b>7/26/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	616.3	6.7	666.7	0	92.4	45-110	0			
Acenaphthylene	623.3	6.7	666.7	0	93.5	45-105	0			
Anthracene	682.7	6.7	666.7	0	102	55-105	0			
Benzo(a)anthracene	681.3	6.7	666.7	0	102	50-110	0			
Benzo(a)pyrene	663.3	6.7	666.7	0	99.5	50-110	0			
Benzo(b)fluoranthene	687.7	6.7	666.7	0	103	45-115	0			
Benzo(g,h,i)perylene	635.7	6.7	666.7	0	95.3	40-125	0			
Benzo(k)fluoranthene	669	6.7	666.7	0	100	45-115	0			
Chrysene	668.7	6.7	666.7	0	100	55-110	0			
Dibenzo(a,h)anthracene	618.7	6.7	666.7	0	92.8	40-125	0			
Fluoranthene	703.7	6.7	666.7	0	106	55-115	0			
Fluorene	627.3	6.7	666.7	0	94.1	50-110	0			
Indeno(1,2,3-cd)pyrene	627.3	6.7	666.7	0	94.1	40-120	0			
Naphthalene	478	6.7	666.7	0	71.7	40-105	0			
Pyrene	689.3	6.7	666.7	0	103	45-125	0			
Surr: 2-Fluorobiphenyl	1574	0	1667	0	94.5	12-100	0			
Surr: 4-Terphenyl-d14	1668	0	1667	0	100	25-137	0			
Surr: Nitrobenzene-d5	1625	0	1667	0	97.5	37-107	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74008** Instrument ID **SVMS5** Method: **SW846 8270D**

MS				Sample ID: 15071220-03A MS			Units: µg/Kg		Analysis Date: 7/28/2015 12:00 PM		
Client ID:			Run ID: SVMS4_150727A			SeqNo: 3389483		Prep Date: 7/26/2015		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	ND	18,000	3544	6885	-194	45-110	0			S	
Acenaphthylene	ND	18,000	3544	0	0	45-105	0			S	
Anthracene	38990	18,000	3544	33690	150	55-105	0			SO	
Benzo(a)anthracene	138200	18,000	3544	157900	-554	50-110	0			SO	
Benzo(a)pyrene	124000	18,000	3544	140400	-461	50-110	0			SO	
Benzo(b)fluoranthene	222400	18,000	3544	229700	-205	45-115	0			SO	
Benzo(g,h,i)perylene	96580	18,000	3544	101100	-126	40-125	0			SO	
Benzo(k)fluoranthene	74430	18,000	3544	71310	88.1	45-115	0			O	
Chrysene	154200	18,000	3544	191100	-1040	55-110	0			SO	
Dibenzo(a,h)anthracene	ND	18,000	3544	33690	-950	40-125	0			SO	
Fluoranthene	313700	18,000	3544	360700	-1330	55-115	0			SO	
Fluorene	15060	18,000	3544	11060	113	50-110	0			JS	
Indeno(1,2,3-cd)pyrene	105400	18,000	3544	118500	-369	40-120	0			SO	
Naphthalene	ND	18,000	3544	0	0	40-105	0			S	
Pyrene	272000	18,000	3544	287900	-449	45-125	0			SO	
Surr: 2-Fluorobiphenyl	8861	0	8861	0	100	12-100	0				
Surr: 4-Terphenyl-d14	11520	0	8861	0	130	25-137	0				
Surr: Nitrobenzene-d5	32780	0	8861	0	370	37-107	0			S	

MSD				Sample ID: 15071220-03A MSD			Units: µg/Kg		Analysis Date: 7/28/2015 12:26 PM		
Client ID:		Run ID: SVMS4_150727A			SeqNo: 3389485		Prep Date: 7/26/2015		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	ND	18,000	3669	6885	-188	45-110	0	0	30	S	
Acenaphthylene	ND	18,000	3669	0	0	45-105	0	0	30	S	
Anthracene	35770	18,000	3669	33690	56.7	55-105	38990	8.61	30	O	
Benzo(a)anthracene	156800	18,000	3669	157900	-28.2	50-110	138200	12.6	30	SO	
Benzo(a)pyrene	152200	18,000	3669	140400	323	50-110	124000	20.4	30	SO	
Benzo(b)fluoranthene	277000	18,000	3669	229700	1290	45-115	222400	21.9	30	SO	
Benzo(g,h,i)perylene	107300	18,000	3669	101100	170	40-125	96580	10.5	30	SO	
Benzo(k)fluoranthene	76120	18,000	3669	71310	131	45-115	74430	2.25	30	SO	
Chrysene	198100	18,000	3669	191100	192	55-110	154200	24.9	30	SO	
Dibenzo(a,h)anthracene	ND	18,000	3669	33690	-918	40-125	0	0	30	SO	
Fluoranthene	346700	18,000	3669	360700	-383	55-115	313700	9.99	30	SO	
Fluorene	11920	18,000	3669	11060	23.4	50-110	15060	0	30	JS	
Indeno(1,2,3-cd)pyrene	137600	18,000	3669	118500	519	40-120	105400	26.4	30	SO	
Naphthalene	ND	18,000	3669	0	0	40-105	0	0	30	S	
Pyrene	343000	18,000	3669	287900	1500	45-125	272000	23.1	30	SO	
Surr: 2-Fluorobiphenyl	6420	0	9171	0	70	12-100	8861	31.9	40		
Surr: 4-Terphenyl-d14	8254	0	9171	0	90	25-137	11520	33	40		
Surr: Nitrobenzene-d5	36680	0	9171	0	400	37-107	32780	11.2	40	S	

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

**QC BATCH REPORT**

Batch ID: **74008**      Instrument ID **SVMS5**      Method: **SW846 8270D**

The following samples were analyzed in this batch:

15071274-01B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74024** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: <b>SBLKS1-74024-74024</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/27/2015 06:34 PM</b>		
Client ID:		Run ID: <b>SVMS4_150727A</b>				SeqNo: <b>3389474</b>		Prep Date: <b>7/27/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1262	0	1667	0	75.7	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1658	0	1667	0	99.5	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1186	0	1667	0	71.1	37-107	0			

LCS		Sample ID: <b>SLCSS1-74024-74024</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/27/2015 07:00 PM</b>		
Client ID:		Run ID: <b>SVMS4_150727A</b>				SeqNo: <b>3389476</b>		Prep Date: <b>7/27/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	619.7	6.7	666.7	0	92.9	45-110	0			
Acenaphthylene	645	6.7	666.7	0	96.7	45-105	0			
Anthracene	643.3	6.7	666.7	0	96.5	55-105	0			
Benzo(a)anthracene	716.3	6.7	666.7	0	107	50-110	0			
Benzo(a)pyrene	709	6.7	666.7	0	106	50-110	0			
Benzo(b)fluoranthene	741.3	6.7	666.7	0	111	45-115	0			
Benzo(g,h,i)perylene	786.3	6.7	666.7	0	118	40-125	0			
Benzo(k)fluoranthene	669.7	6.7	666.7	0	100	45-115	0			
Chrysene	693.7	6.7	666.7	0	104	55-110	0			
Dibenzo(a,h)anthracene	793	6.7	666.7	0	119	40-125	0			
Fluoranthene	683	6.7	666.7	0	102	55-115	0			
Fluorene	607	6.7	666.7	0	91	50-110	0			
Indeno(1,2,3-cd)pyrene	781.7	6.7	666.7	0	117	40-120	0			
Naphthalene	600.7	6.7	666.7	0	90.1	40-105	0			
Pyrene	799.3	6.7	666.7	0	120	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1543	0	1667	0	92.6	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1689	0	1667	0	101	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1444	0	1667	0	86.6	37-107	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74024** Instrument ID **SVMS4** Method: **SW846 8270D**

MS				Sample ID: <b>15071341-07C MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/27/2015 10:42 PM</b>	
Client ID:		Run ID: <b>SVMS4_150727A</b>			SeqNo: <b>3389478</b>		Prep Date: <b>7/27/2015</b>		DF: <b>10</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1574	130	1318	382.1	90.5	45-110	0			
Acenaphthylene	3043	130	1318	926.2	161	45-105	0			S
Anthracene	3551	130	1318	1616	147	55-105	0			S
Benzo(a)anthracene	8347	130	1318	5512	215	50-110	0			SO
Benzo(a)pyrene	12080	130	1318	7598	340	50-110	0			SO
Benzo(b)fluoranthene	16710	130	1318	10810	448	45-115	0			SO
Benzo(g,h,i)perylene	14650	130	1318	8375	476	40-125	0			SO
Benzo(k)fluoranthene	6133	130	1318	3430	205	45-115	0			S
Chrysene	8037	130	1318	5182	217	55-110	0			S
Dibenzo(a,h)anthracene	2846	130	1318	1357	113	40-125	0			
Fluoranthene	12840	130	1318	9149	280	55-115	0			SO
Fluorene	1693	130	1318	401.6	98	50-110	0			
Indeno(1,2,3-cd)pyrene	13910	130	1318	8880	381	40-120	0			SO
Naphthalene	4545	130	1318	1823	207	40-105	0			S
Pyrene	12690	130	1318	8683	304	45-125	0			SO
Surr: 2-Fluorobiphenyl	2490	0	3294	0	75.6	12-100	0			
Surr: 4-Terphenyl-d14	2997	0	3294	0	91	25-137	0			
Surr: Nitrobenzene-d5	1924	0	3294	0	58.4	37-107	0			

MSD				Sample ID: <b>15071341-07C MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/27/2015 11:08 PM</b>	
Client ID:		Run ID: <b>SVMS4_150727A</b>			SeqNo: <b>3389480</b>		Prep Date: <b>7/27/2015</b>		DF: <b>10</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1427	130	1274	382.1	82	45-110	1574	9.85	30	
Acenaphthylene	1955	130	1274	926.2	80.8	45-105	3043	43.5	30	R
Anthracene	2910	130	1274	1616	102	55-105	3551	19.8	30	
Benzo(a)anthracene	7158	130	1274	5512	129	50-110	8347	15.3	30	SO
Benzo(a)pyrene	8878	130	1274	7598	101	50-110	12080	30.6	30	RO
Benzo(b)fluoranthene	12480	130	1274	10810	132	45-115	16710	29	30	SO
Benzo(g,h,i)perylene	9368	130	1274	8375	78	40-125	14650	44	30	RO
Benzo(k)fluoranthene	4515	130	1274	3430	85.2	45-115	6133	30.4	30	R
Chrysene	6700	130	1274	5182	119	55-110	8037	18.1	30	SO
Dibenzo(a,h)anthracene	2618	130	1274	1357	99	40-125	2846	8.36	30	
Fluoranthene	10710	130	1274	9149	123	55-115	12840	18.1	30	SO
Fluorene	1490	130	1274	401.6	85.5	50-110	1693	12.7	30	
Indeno(1,2,3-cd)pyrene	9464	130	1274	8880	45.8	40-120	13910	38	30	RO
Naphthalene	1942	130	1274	1823	9.35	40-105	4545	80.2	30	SR
Pyrene	11060	130	1274	8683	186	45-125	12690	13.8	30	SO
Surr: 2-Fluorobiphenyl	2178	0	3184	0	68.4	12-100	2490	13.4	40	
Surr: 4-Terphenyl-d14	2713	0	3184	0	85.2	25-137	2997	9.96	40	
Surr: Nitrobenzene-d5	1777	0	3184	0	55.8	37-107	1924	7.93	40	

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

**QC BATCH REPORT**

Batch ID: **74024**      Instrument ID **SVMS4**      Method: **SW846 8270D**

The following samples were analyzed in this batch:

15071274-02B	15071274-03B	15071274-04B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **73928** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-73928-73928				Units: µg/Kg			Analysis Date: 7/23/2015 08:01 PM			
Client ID:				Run ID: VMS5_150723A				SeqNo: 3384676			Prep Date: 7/23/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	ND	30												
Ethylbenzene	ND	30												
m,p-Xylene	ND	60												
o-Xylene	ND	30												
Toluene	ND	30												
Xylenes, Total	ND	90												
Surr: 1,2-Dichloroethane-d4	1062	0	1000	0	106	70-130		0						
Surr: 4-Bromofluorobenzene	914	0	1000	0	91.4	70-130		0						
Surr: Dibromofluoromethane	1017	0	1000	0	102	70-130		0						
Surr: Toluene-d8	1000	0	1000	0	100	70-130		0						

LCS				Sample ID: LCS-73928-73928			Units: µg/Kg		Analysis Date: 7/23/2015 06:17 PM		
Client ID:			Run ID: VMS5_150723A			SeqNo: 3384675		Prep Date: 7/23/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1001	30	1000	0	100	75-125	0				
Ethylbenzene	984	30	1000	0	98.4	75-125	0				
m,p-Xylene	1964	60	2000	0	98.2	80-125	0				
o-Xylene	947.5	30	1000	0	94.8	75-125	0				
Toluene	961	30	1000	0	96.1	70-125	0				
Xylenes, Total	2912	90	3000	0	97.1	75-125	0				
Surr: 1,2-Dichloroethane-d4	1040	0	1000	0	104	70-130	0				
Surr: 4-Bromofluorobenzene	984	0	1000	0	98.4	70-130	0				
Surr: Dibromofluoromethane	1026	0	1000	0	103	70-130	0				
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0				

MS				Sample ID: 15071274-02A MS			Units: µg/Kg		Analysis Date: 7/24/2015 11:34 PM		
Client ID: South Wall			Run ID: VMS5_150724A		SeqNo: 3387295		Prep Date: 7/23/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1208	30	1000	60.5	115	75-125		0			
Ethylbenzene	1160	30	1000	13	115	75-125		0			
m,p-Xylene	2349	60	2000	17.5	117	80-125		0			
o-Xylene	1106	30	1000	0	111	75-125		0			
Toluene	1125	30	1000	0	112	70-125		0			
Xylenes, Total	3455	90	3000	0	115	75-125		0			
Surr: 1,2-Dichloroethane-d4	1042	0	1000	0	104	70-130		0			
Surr: 4-Bromofluorobenzene	1002	0	1000	0	100	70-130		0			
Surr: Dibromofluoromethane	1011	0	1000	0	101	70-130		0			
Surr: Toluene-d8	1004	0	1000	0	100	70-130		0			

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



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73928**      Instrument ID **VMS5**      Method: **SW8260B**

MSD				Sample ID: <b>15071274-02A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/25/2015 12:00 PM</b>	
Client ID: <b>South Wall</b>				Run ID: <b>VMS5_150724A</b>			SeqNo: <b>3387296</b>		Prep Date: <b>7/23/2015</b>	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1082	30	1000	60.5	102	75-125	1208	11	30	
Ethylbenzene	1026	30	1000	13	101	75-125	1160	12.3	30	
m,p-Xylene	2086	60	2000	17.5	103	80-125	2349	11.9	30	
o-Xylene	994.5	30	1000	0	99.4	75-125	1106	10.6	30	
Toluene	1001	30	1000	0	100	70-125	1125	11.7	30	
Xylenes, Total	3080	90	3000	0	103	75-125	3455	11.5	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1024</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>1042</i>	<i>1.74</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>983.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>1002</i>	<i>1.81</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>985</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.5</i>	<i>70-130</i>	<i>1011</i>	<i>2.61</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>995.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>1004</i>	<i>0.8</i>	<i>30</i>	

The following samples were analyzed in this batch:

15071274-01A	15071274-02A	15071274-03A
15071274-04A		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73934** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-73934-73934				Units: s.u.			Analysis Date: 7/23/2015 04:00 PM			
Client ID:				Run ID: WETCHEM_150723P				SeqNo: 3384351			Prep Date: 7/23/2015		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		4.01	0	4	0	100	90-110	0						

DUP				Sample ID: 15071267-01A DUP				Units: s.u.			Analysis Date: 7/23/2015 04:00 PM			
Client ID:				Run ID: WETCHEM_150723P				SeqNo: 3384353			Prep Date: 7/23/2015		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		7.5	0	0	0	0	0-0	7.47	0.401	20				

The following samples were analyzed in this batch:

15071274-01B	15071274-02B	15071274-03B
15071274-04B		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73973** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>15071305-01A DUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>7/27/2015 01:45 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150727I</b>				SeqNo: <b>3387922</b>		Prep Date: <b>7/27/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	14.51	0.050	0	0	0		14.51	0	50	

The following samples were analyzed in this batch:

15071274-01C	15071274-02C	15071274-03C
15071274-04C		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **73989** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-73989-73989</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 10:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150724B</b>		SeqNo: <b>3385242</b>		Prep Date: <b>7/23/2015</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 1.0

<b>LCS</b>		Sample ID: <b>LCS-73989-73989</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 10:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150724B</b>		SeqNo: <b>3385241</b>		Prep Date: <b>7/23/2015</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 4.81 1.0 5 0 96.2 80-120 0

<b>MS</b>		Sample ID: <b>15071160-04A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 10:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150724B</b>		SeqNo: <b>3385233</b>		Prep Date: <b>7/23/2015</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 4.129 0.99 4.95 0.45 74.3 75-125 0 S

<b>MS</b>		Sample ID: <b>15071160-04A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 10:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150724B</b>		SeqNo: <b>3385235</b>		Prep Date: <b>7/23/2015</b>		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2584 97 2734 0.45 94.5 75-125 0

<b>MSD</b>		Sample ID: <b>15071160-04A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/24/2015 10:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150724B</b>		SeqNo: <b>3385234</b>		Prep Date: <b>7/23/2015</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 4.095 0.95 4.762 0.45 76.6 75-125 4.129 0.814 20

The following samples were analyzed in this batch:

15071274-01B	15071274-02B	15071274-03B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071274  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74204** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-74204-74204</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393385</b>		Prep Date: <b>7/27/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.32 1.0 J

<b>LCS</b>		Sample ID: <b>LCS-74204-74204</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393386</b>		Prep Date: <b>7/27/2015</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 4.56 1.0 5 0 91.2 80-120 0

<b>MS</b>		Sample ID: <b>15071480-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393392</b>		Prep Date: <b>7/27/2015</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 4.01 0.96 4.808 0.4369 74.3 75-125 0 S

<b>MS</b>		Sample ID: <b>15071480-01A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393394</b>		Prep Date: <b>7/27/2015</b>		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2285 100 2414 0.4369 94.6 75-125 0

<b>MSD</b>		Sample ID: <b>15071480-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393393</b>		Prep Date: <b>7/27/2015</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 4.122 1.0 5.102 0.4369 72.2 75-125 4.01 2.78 20 S

The following samples were analyzed in this batch:

15071274-04B

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



15071274

Form 2021-1

PAGE

of

## DISPOSAL

By Lab or Return to Client

\*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.**

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Reed Wald</i>	Reed Wald	7/22/15	4:00
RECEIVED BY	<i>[Signature]</i>	<i>[Signature]</i>	7-22-15	4:00
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	7-22-15	4:15
RECEIVED BY	<i>[Signature]</i>	KEITH WIERENCA	7/23/15	0930
RELINQUISHED BY				
RECEIVED BY				

ORIGIN ID: RILA (616) 298-1033  
NICK MARTINEZ  
ALS ENVIRONMENTAL PARACHUTE  
PARACHUTE SERVICE CENTER  
127 EAST 1ST ST  
PARACHUTE, CO 81635  
UNITED STATES US

SHIP DATE: 22 JUL 15  
ACTWGT: 63.00 LB  
CAD: 22648400 NET 3870  
DIMS: 26x16x16 IN  
BILL SENDER

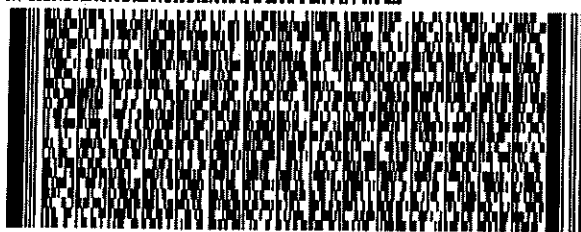
TO **SAMPLE RECEIVING**  
**ALS ENVIRONMENTAL HOLLAND LAB**  
**3352 128TH AVE**

538.03715153100

**HOLLAND MI 49424**

(616) 399-6070 REF: 072215-1

INV: PO: PARACHUTE DEPT:



**FedEx**  
Express



REL#  
3785346

4 of 6

**THU - 23 JUL 10:30A**  
**PRIORITY OVERNIGHT**

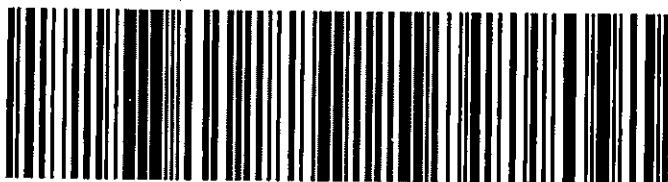
MP6N  
0263 **7741 1538 0962**

Mstr# 7741 1538 0127

0201

**XX HLMA**

**49424**  
**MI-US GRR**



**After printing this label:**

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

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

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 23-Jul-15 09:30

Work Order: 15071274

Received by: KRW

Checklist completed by Keith Wurenga  
eSignature

23-Jul-15  
Date

Reviewed by: Chad Whelton  
eSignature

23-Jul-15  
Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.8 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>7/23/2015 11:09:03 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:





03-Aug-2015

Casey Richardson  
HRL Compliance Solutions, Inc  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **Parachute Creek 5 Condensate Spill**

Work Order: **15071491**

Dear Casey,

ALS Environmental received 1 sample on 25-Jul-2015 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 26.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold  
Senior Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

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

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

Environmental 

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

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Work Order:** 15071491

---

**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>
15071491-01	East Wall	Soil		7/24/2015 09:30	7/25/2015 10:00	<input type="checkbox"/>

---

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**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**WorkOrder:** 15071491

---

**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 is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

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

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

---

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Work Order:** 15071491

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**Case Narrative**

Samples for the above noted Work Order were received on 07/25/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

**Sample Receiving:**

No deviations or anomalies were noted.

**Volatile Organics:**

No deviations or anomalies were noted.

**Extractable Organics:**

No deviations or anomalies were noted.

**Metals:**

No deviations or anomalies were noted.

**Wet Chemistry:**

No deviations or anomalies were noted.

# ALS Group USA, Corp

Date: 03-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** East Wall  
**Collection Date:** 7/24/2015 09:30 AM

**Work Order:** 15071491  
**Lab ID:** 15071491-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep: SW3541 / 7/28/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>45</b>		<b>4.6</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/29/2015 04:23 PM
Surr: 4-Terphenyl-d14	62.8		39-133	%REC	1	7/29/2015 04:23 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015D</b>		Prep: SW5035 / 7/28/15	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>22</b>		<b>2.8</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/28/2015 04:54 PM
Surr: Toluene-d8	98.7		50-150	%REC	1	7/28/2015 04:54 PM
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 / 7/30/15	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.022</b>		<b>0.014</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 05:30 PM
<b>METALS ANALYSIS BY ICP</b>						
			<b>SW846 6010C</b>		Prep: SW3050B / 7/28/15	Analyst: <b>JEC</b>
<b>Arsenic</b>	<b>13</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
<b>Barium</b>	<b>360</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
Cadmium	ND		0.34	mg/Kg-dry	1	7/30/2015 12:23 AM
<b>Chromium</b>	<b>11</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
<b>Copper</b>	<b>20</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
<b>Lead</b>	<b>6.9</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
<b>Nickel</b>	<b>33</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
<b>Selenium</b>	<b>1.1</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/31/2015 11:08 AM
Silver	ND		0.42	mg/Kg-dry	1	7/30/2015 12:23 AM
<b>Zinc</b>	<b>59</b>		<b>0.84</b>	<b>mg/Kg-dry</b>	<b>1</b>	7/30/2015 12:23 AM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 7/29/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>580</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	7/30/2015 05:14 PM
<b>Magnesium</b>	<b>210</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	7/30/2015 05:14 PM
<b>Sodium</b>	<b>1,300</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	7/30/2015 05:14 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 7/29/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>12</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	7/30/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 7/30/15	Analyst: <b>RM</b>
Acenaphthene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Acenaphthylene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Anthracene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Benzo(a)anthracene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Benzo(a)pyrene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Benzo(b)fluoranthene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Benzo(g,h,i)perylene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Benzo(k)fluoranthene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Chrysene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM

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

# ALS Group USA, Corp

Date: 03-Aug-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Parachute Creek 5 Condensate Spill  
**Sample ID:** East Wall  
**Collection Date:** 7/24/2015 09:30 AM

**Work Order:** 15071491  
**Lab ID:** 15071491-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Fluoranthene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Fluorene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Indeno(1,2,3-cd)pyrene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Naphthalene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Pyrene	ND		0.0074	mg/Kg-dry	1	7/31/2015 09:27 AM
Surr: 2-Fluorobiphenyl	60.3		12-100	%REC	1	7/31/2015 09:27 AM
Surr: 4-Terphenyl-d14	73.0		25-137	%REC	1	7/31/2015 09:27 AM
Surr: Nitrobenzene-d5	50.5		37-107	%REC	1	7/31/2015 09:27 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 7/28/15		Analyst: <b>BG</b>
Benzene	ND		0.034	mg/Kg-dry	1	7/30/2015 07:26 PM
Ethylbenzene	ND		0.034	mg/Kg-dry	1	7/30/2015 07:26 PM
m,p-Xylene	ND		0.068	mg/Kg-dry	1	7/30/2015 07:26 PM
o-Xylene	ND		0.034	mg/Kg-dry	1	7/30/2015 07:26 PM
Toluene	ND		0.034	mg/Kg-dry	1	7/30/2015 07:26 PM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	7/30/2015 07:26 PM
Surr: 1,2-Dichloroethane-d4	96.8		70-130	%REC	1	7/30/2015 07:26 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	7/30/2015 07:26 PM
Surr: Dibromofluoromethane	92.6		70-130	%REC	1	7/30/2015 07:26 PM
Surr: Toluene-d8	96.4		70-130	%REC	1	7/30/2015 07:26 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>	Prep: USDA Method 20B / 7/29/15		Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	11		0.050	mmhos/cm @2	10	7/30/2015 10:15 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JB</b>
Chromium, Trivalent	11		0.56	mg/Kg-dry	1	7/30/2015 11:30 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A / 7/27/15		Analyst: <b>MB</b>
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	7/29/2015 01:00 PM
<b>MOISTURE</b>			<b>E160.3M</b>			Analyst: <b>EVB</b>
Moisture	11		0.050	% of sample	1	7/30/2015 03:55 PM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT / 7/27/15		Analyst: <b>STP</b>
pH	8.2		s.u.		1	7/27/2015 05:15 PM

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

# ALS Group USA, Corp

Date: 03-Aug-15

**Client:** HRL Compliance Solutions, Inc

**Work Order:** 15071491

**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74124**

Instrument ID **GC8**

Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-74124-74124</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:25 PM</b>		
Client ID:		Run ID: <b>GC8_150729A</b>				SeqNo: <b>3393430</b>		Prep Date: <b>7/28/2015</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	5.0								
Surr: 4-Terphenyl-d14	1.494	0	2	0	74.7	39-133		0		

<b>LCS</b>		Sample ID: <b>DLCSS1-74124-74124</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:53 PM</b>		
Client ID:		Run ID: <b>GC8_150729A</b>				SeqNo: <b>3393431</b>		Prep Date: <b>7/28/2015</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)	146.8	5.0	200	0	73.4	61-109		0		
Surr: 4-Terphenyl-d14	1.317	0	2	0	65.9	39-133		0		

<b>MS</b>		Sample ID: <b>15071532-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 02:23 PM</b>		
Client ID:		Run ID: <b>GC8_150729A</b>				SeqNo: <b>3393432</b>		Prep Date: <b>7/28/2015</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)	239.1	8.3	332.8	38.05	60.4	48-110		0		
Surr: 4-Terphenyl-d14	2.24	0	3.328	0	67.3	39-133		0		

<b>MSD</b>		Sample ID: <b>15071532-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 02:53 PM</b>		
Client ID:		Run ID: <b>GC8_150729A</b>				SeqNo: <b>3393433</b>		Prep Date: <b>7/28/2015</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)	252.5	8.1	322.6	38.05	66.5	48-110	239.1	5.47	30	
Surr: 4-Terphenyl-d14	2.351	0	3.226	0	72.9	39-133	2.24	4.85	30	

The following samples were analyzed in this batch:

15071491-01B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74111** Instrument ID **GC10** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-74111-74111</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/28/2015 03:44 PM</b>		
Client ID:		Run ID: <b>GC10_150728A</b>				SeqNo: <b>3392173</b>		Prep Date: <b>7/28/2015</b>		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	2,500								
Surr: Toluene-d8	5080	0	5000	0	102	50-150	0			

<b>MBLK</b>		Sample ID: <b>MBLK-74111-74111</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/30/2015 03:58 PM</b>		
Client ID:		Run ID: <b>GC10_150730B</b>				SeqNo: <b>3397202</b>		Prep Date: <b>7/28/2015</b>		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	2,500								

<b>LCS</b>		Sample ID: <b>LCS-74111-74111</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/28/2015 03:20 PM</b>		
Client ID:		Run ID: <b>GC10_150728A</b>				SeqNo: <b>3392172</b>		Prep Date: <b>7/28/2015</b>		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)	570900	2,500	500000	0	114	70-130	0			
Surr: Toluene-d8	4832	0	5000	0	96.6	50-150	0			

<b>LCS</b>		Sample ID: <b>LCS-74111-74111</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/30/2015 03:26 PM</b>		
Client ID:		Run ID: <b>GC10_150730B</b>				SeqNo: <b>3397201</b>		Prep Date: <b>7/28/2015</b>		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)	11360	2,500	10000	0	114	80-120	0			

<b>LCSD</b>		Sample ID: <b>LCSD-74111-74111</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/31/2015 01:35 AM</b>		
Client ID:		Run ID: <b>GC10_150730B</b>				SeqNo: <b>3397217</b>		Prep Date: <b>7/28/2015</b>		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)	10930	2,500	10000	0	109	80-120	11360	3.84	20	

<b>MS</b>		Sample ID: <b>15071491-01A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/28/2015 05:43 PM</b>		
Client ID: <b>East Wall</b>		Run ID: <b>GC10_150728A</b>				SeqNo: <b>3392181</b>		Prep Date: <b>7/28/2015</b>		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)	566200	2,500	500000	19080	109	70-130	0			
Surr: Toluene-d8	4714	0	5000	0	94.3	50-150	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74111** Instrument ID **GC10** Method: **SW8015D**

<b>MSD</b>		Sample ID: <b>15071491-01A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/28/2015 06:08 PM</b>		
Client ID: <b>East Wall</b>		Run ID: <b>GC10_150728A</b>				SeqNo: <b>3392183</b>		Prep Date: <b>7/28/2015</b>		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)	547400	2,500	500000	19080	106	70-130	566200	3.38	30	
<i>Surr: Toluene-d8</i>	<i>4694</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>93.9</i>	<i>50-150</i>	<i>4714</i>	<i>0.415</i>	<i>30</i>	

The following samples were analyzed in this batch:

15071491-01A

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74177** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-74177-74177				Units: mg/Kg		Analysis Date: 7/30/2015 04:34 PM		
Client ID:		Run ID: HG1_150730A				SeqNo: 3396053		Prep Date: 7/30/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-74177-74177				Units: mg/Kg		Analysis Date: 7/30/2015 04:36 PM		
Client ID:		Run ID: HG1_150730A				SeqNo: 3396054		Prep Date: 7/30/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1778 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 15071440-03CMS					Units: mg/Kg		Analysis Date: 7/30/2015 04:40 PM		
Client ID:			Run ID: HG1_150730A			SeqNo: 3396081		Prep Date: 7/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1109 0.013 0.105 0.001071 105 75-125 0

MSD		Sample ID: 15071440-03CMSD				Units: mg/Kg		Analysis Date: 7/30/2015 04:43 PM		
Client ID:		Run ID: HG1_150730A			SeqNo: 3396082		Prep Date: 7/30/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1085 0.012 0.1035 0.001071 104 75-125 0.1109 2.18 35

The following samples were analyzed in this batch:

15071491-01B

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74114** Instrument ID **ICP2** Method: **SW846 6010C**

<b>MBLK</b>		Sample ID: <b>MBLK-74114-74114</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 10:49 PM</b>		
Client ID:		Run ID: <b>ICP2_150729A</b>				SeqNo: <b>3393940</b>		Prep Date: <b>7/28/2015</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	0.50								
Chromium	0.01139	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.1008	0.50								J

<b>LCS</b>		Sample ID: <b>LCS-74114-74114</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 10:55 PM</b>		
Client ID:		Run ID: <b>ICP2_150729A</b>				SeqNo: <b>3393941</b>		Prep Date: <b>7/28/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.939	0.25	5	0	98.8	80-120	0			
Barium	5.048	0.25	5	0	101	80-120	0			
Cadmium	4.715	0.50	5	0	94.3	80-120	0			
Chromium	5.718	0.25	5	0	114	80-120	0			
Copper	4.98	0.50	5	0	99.6	80-120	0			
Lead	5.263	0.25	5	0	105	80-120	0			
Nickel	5.186	0.25	5	0	104	80-120	0			
Selenium	5.228	0.50	5	0	105	80-120	0			
Zinc	4.743	0.50	5	0	94.9	80-120	0			

<b>LCS</b>		Sample ID: <b>LCS-74114-74114</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/30/2015 11:07 AM</b>		
Client ID:		Run ID: <b>ICP2_150730A</b>				SeqNo: <b>3395414</b>		Prep Date: <b>7/28/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	4.995	0.25	5	0	99.9	80-120	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74114** Instrument ID **ICP2** Method: **SW846 6010C**

MS				Sample ID: 15071023-05AMS			Units: mg/Kg		Analysis Date: 7/29/2015 11:22 PM		
Client ID:			Run ID: ICP2_150729A			SeqNo: 3393946		Prep Date: 7/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	15.82	0.35	6.983	7.948	113	75-125	0				
Barium	143.5	0.35	6.983	128.2	220	75-125	0			SO	
Cadmium	6.924	0.70	6.983	-0.005169	99.2	75-125	0				
Chromium	20.23	0.35	6.983	9.957	147	75-125	0			S	
Copper	20.95	0.70	6.983	14.01	99.4	75-125	0				
Lead	17.46	0.35	6.983	10.36	102	75-125	0				
Nickel	34.7	0.35	6.983	27.57	102	75-125	0				
Selenium	9.559	0.70	6.983	1.718	112	75-125	0				
Silver	6.84	0.35	6.983	-0.06698	98.9	75-125	0				
Zinc	67.37	0.70	6.983	59.56	112	75-125	0			O	

MS	Sample ID: 15071023-05AMS					Units: mg/Kg		Analysis Date: 7/30/2015 11:12 AM		
	Client ID:		Run ID: ICP2_150730A			SeqNo: 3395415		Prep Date: 7/28/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	7.35	0.35	6.983	0	105	75-125	0			

MSD				Sample ID: 15071023-05AMSD			Units: mg/Kg		Analysis Date: 7/29/2015 11:27 PM		
Client ID:			Run ID: ICP2_150729A			SeqNo: 3393947		Prep Date: 7/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	15.46	0.35	6.993	7.948	107	75-125	15.82	2.28	20		
Barium	143.8	0.35	6.993	128.2	224	75-125	143.5	0.207	20	SO	
Cadmium	6.784	0.70	6.993	-0.005169	97.1	75-125	6.924	2.03	20		
Chromium	19.75	0.35	6.993	9.957	140	75-125	20.23	2.38	20	S	
Copper	20.66	0.70	6.993	14.01	95.2	75-125	20.95	1.38	20		
Lead	16.91	0.35	6.993	10.36	93.7	75-125	17.46	3.2	20		
Nickel	34.21	0.35	6.993	27.57	95	75-125	34.7	1.41	20		
Selenium	9.495	0.70	6.993	1.718	111	75-125	9.559	0.668	20		
Silver	6.684	0.35	6.993	-0.06698	96.5	75-125	6.84	2.32	20		
Zinc	66.28	0.70	6.993	59.56	96.1	75-125	67.37	1.64	20	O	

MSD				Sample ID: 15071023-05AMSD				Units: mg/Kg			Analysis Date: 7/30/2015 11:18 AM			
Client ID:				Run ID: ICP2_150730A				SeqNo: 3395418			Prep Date: 7/28/2015		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Silver		7.242	0.35	6.993	0	104	75-125	7.35	1.48	20				

The following samples were analyzed in this batch:

15071491-01B

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74132** Instrument ID **ICP2** Method: **SW846 6010C**

<b>DUP</b>		Sample ID: <b>15071362-01ADUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>7/30/2015 01:17 PM</b>		
Client ID:		Run ID: <b>ICP2_150730A</b>				SeqNo: <b>3395748</b>		Prep Date: <b>7/29/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	136.6	5.0	0	0	0	0-0	137.4	0.635		
Magnesium	31.75	2.0	0	0	0	0-0	31.14	1.94		
Sodium	12.68	2.0	0	0	0	0-0	13.57	6.79		

<b>DUP</b>		Sample ID: <b>15071362-01ADUP</b>				Units: <b>none</b>		Analysis Date: <b>7/30/2015</b>		
Client ID:		Run ID: <b>SAR_150730A</b>				SeqNo: <b>3395801</b>		Prep Date: <b>7/29/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.254	0.010	0	0	0			0		

The following samples were analyzed in this batch:

15071491-01C

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74209** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: <b>SBLKS1-74209-74209</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/30/2015 07:32 PM</b>		
Client ID:		Run ID: <b>SVMS5_150730A</b>				SeqNo: <b>3397692</b>		Prep Date: <b>7/30/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1062	0	1667	0	63.7	12-100	0			
Surr: 4-Terphenyl-d14	1644	0	1667	0	98.6	25-137	0			
Surr: Nitrobenzene-d5	1047	0	1667	0	62.8	37-107	0			

LCS		Sample ID: <b>SLCSS1-74209-74209</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>7/31/2015 04:06 PM</b>		
Client ID:		Run ID: <b>SVMS5_150730A</b>				SeqNo: <b>3398574</b>		Prep Date: <b>7/30/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	623	6.7	666.7	0	93.4	45-110	0			
Acenaphthylene	604	6.7	666.7	0	90.6	45-105	0			
Anthracene	694	6.7	666.7	0	104	55-105	0			
Benzo(a)anthracene	678.3	6.7	666.7	0	102	50-110	0			
Benzo(a)pyrene	664.7	6.7	666.7	0	99.7	50-110	0			
Benzo(b)fluoranthene	665.3	6.7	666.7	0	99.8	45-115	0			
Benzo(g,h,i)perylene	637.3	6.7	666.7	0	95.6	40-125	0			
Benzo(k)fluoranthene	671.3	6.7	666.7	0	101	45-115	0			
Chrysene	693	6.7	666.7	0	104	55-110	0			
Dibenzo(a,h)anthracene	610.3	6.7	666.7	0	91.5	40-125	0			
Fluoranthene	650	6.7	666.7	0	97.5	55-115	0			
Fluorene	642.3	6.7	666.7	0	96.3	50-110	0			
Indeno(1,2,3-cd)pyrene	655.3	6.7	666.7	0	98.3	40-120	0			
Naphthalene	597.3	6.7	666.7	0	89.6	40-105	0			
Pyrene	695.7	6.7	666.7	0	104	45-125	0			
Surr: 2-Fluorobiphenyl	1328	0	1667	0	79.7	12-100	0			
Surr: 4-Terphenyl-d14	1485	0	1667	0	89.1	25-137	0			
Surr: Nitrobenzene-d5	1455	0	1667	0	87.3	37-107	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74209** Instrument ID **SVMS5** Method: **SW846 8270D**

MS				Sample ID: <b>15071535-01B MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/30/2015 11:07 PM</b>	
Client ID:		Run ID: <b>SVMS5_150730A</b>			SeqNo: <b>3397920</b>		Prep Date: <b>7/30/2015</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	638.1	6.6	663.7	0	96.1	45-110	0			
Acenaphthylene	635.8	6.6	663.7	0	95.8	45-105	0			
Anthracene	763.6	6.6	663.7	4.665	114	55-105	0			S
Benzo(a)anthracene	734.1	6.6	663.7	26.99	107	50-110	0			
Benzo(a)pyrene	722.8	6.6	663.7	42.32	103	50-110	0			
Benzo(b)fluoranthene	741	6.6	663.7	25.66	108	45-115	0			
Benzo(g,h,i)perylene	656.4	6.6	663.7	31.99	94.1	40-125	0			
Benzo(k)fluoranthene	695.2	6.6	663.7	14.99	102	45-115	0			
Chrysene	767.9	6.6	663.7	17.99	113	55-110	0			S
Dibenzo(a,h)anthracene	620.2	6.6	663.7	30.32	88.9	40-125	0			
Fluoranthene	712.2	6.6	663.7	42.32	101	55-115	0			
Fluorene	670.3	6.6	663.7	0	101	50-110	0			
Indeno(1,2,3-cd)pyrene	709.5	6.6	663.7	57.31	98.3	40-120	0			
Naphthalene	596	6.6	663.7	0	89.8	40-105	0			
Pyrene	782.8	6.6	663.7	35.65	113	45-125	0			
Surr: 2-Fluorobiphenyl	1392	0	1659	0	83.9	12-100	0			
Surr: 4-Terphenyl-d14	1696	0	1659	0	102	25-137	0			
Surr: Nitrobenzene-d5	1502	0	1659	0	90.5	37-107	0			

MSD				Sample ID: <b>15071535-01B MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/30/2015 11:30 PM</b>	
Client ID:		Run ID: <b>SVMS5_150730A</b>			SeqNo: <b>3397698</b>		Prep Date: <b>7/30/2015</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	662.3	6.7	666.3	0	99.4	45-110	638.1	3.72	30	
Acenaphthylene	654.7	6.7	666.3	0	98.2	45-105	635.8	2.92	30	
Anthracene	781.2	6.7	666.3	4.665	117	55-105	763.6	2.29	30	S
Benzo(a)anthracene	770.6	6.7	666.3	26.99	112	50-110	734.1	4.86	30	S
Benzo(a)pyrene	772.3	6.7	666.3	42.32	110	50-110	722.8	6.62	30	
Benzo(b)fluoranthene	767.9	6.7	666.3	25.66	111	45-115	741	3.57	30	
Benzo(g,h,i)perylene	729.3	6.7	666.3	31.99	105	40-125	656.4	10.5	30	
Benzo(k)fluoranthene	744.6	6.7	666.3	14.99	109	45-115	695.2	6.86	30	
Chrysene	783.9	6.7	666.3	17.99	115	55-110	767.9	2.06	30	S
Dibenzo(a,h)anthracene	692.6	6.7	666.3	30.32	99.4	40-125	620.2	11	30	
Fluoranthene	738.3	6.7	666.3	42.32	104	55-115	712.2	3.6	30	
Fluorene	715.6	6.7	666.3	0	107	50-110	670.3	6.53	30	
Indeno(1,2,3-cd)pyrene	790.9	6.7	666.3	57.31	110	40-120	709.5	10.9	30	
Naphthalene	669.3	6.7	666.3	0	100	40-105	596	11.6	30	
Pyrene	835.9	6.7	666.3	35.65	120	45-125	782.8	6.55	30	
Surr: 2-Fluorobiphenyl	1468	0	1666	0	88.1	12-100	1392	5.32	40	
Surr: 4-Terphenyl-d14	1807	0	1666	0	108	25-137	1696	6.35	40	
Surr: Nitrobenzene-d5	1622	0	1666	0	97.4	37-107	1502	7.65	40	

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



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

**QC BATCH REPORT**

Batch ID: **74209**      Instrument ID **SVMS5**      Method: **SW846 8270D**

The following samples were analyzed in this batch:

15071491-01B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74110** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-74110-74110				Units: µg/Kg			Analysis Date: 7/28/2015 04:07 PM			
Client ID:				Run ID: VMS5_150728A				SeqNo: 3391862			Prep Date: 7/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	ND	30												
Ethylbenzene	ND	30												
m,p-Xylene	ND	60												
o-Xylene	ND	30												
Toluene	ND	30												
Xylenes, Total	ND	90												
Surr: 1,2-Dichloroethane-d4	1068	0	1000	0	107	70-130		0						
Surr: 4-Bromofluorobenzene	934	0	1000	0	93.4	70-130		0						
Surr: Dibromofluoromethane	1066	0	1000	0	107	70-130		0						
Surr: Toluene-d8	1002	0	1000	0	100	70-130		0						

LCS				Sample ID: LCS-74110-74110			Units: µg/Kg		Analysis Date: 7/28/2015 02:21 PM		
Client ID:			Run ID: VMS5_150728A			SeqNo: 3391857		Prep Date: 7/28/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1078	30	1000	0	108	75-125	0				
Ethylbenzene	986.5	30	1000	0	98.6	75-125	0				
m,p-Xylene	2002	60	2000	0	100	80-125	0				
o-Xylene	955.5	30	1000	0	95.6	75-125	0				
Toluene	1010	30	1000	0	101	70-125	0				
Xylenes, Total	2958	90	3000	0	98.6	75-125	0				
Surr: 1,2-Dichloroethane-d4	1036	0	1000	0	104	70-130	0				
Surr: 4-Bromofluorobenzene	988.5	0	1000	0	98.8	70-130	0				
Surr: Dibromofluoromethane	1028	0	1000	0	103	70-130	0				
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0				

MS				Sample ID: 15071491-01A MS			Units: µg/Kg		Analysis Date: 7/31/2015 12:20 PM		
Client ID: East Wall			Run ID: VMS8_150730A		SeqNo: 3396958		Prep Date: 7/28/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	858.5	30	1000	0	85.8	75-125	0				
Ethylbenzene	1008	30	1000	0	101	75-125	0				
m,p-Xylene	2013	60	2000	0	101	80-125	0				
o-Xylene	979.5	30	1000	0	98	75-125	0				
Toluene	975.5	30	1000	0	97.6	70-125	0				
Xylenes, Total	2992	90	3000	0	99.8	75-125	0				
Surr: 1,2-Dichloroethane-d4	942.5	0	1000	0	94.2	70-130	0				
Surr: 4-Bromofluorobenzene	1050	0	1000	0	105	70-130	0				
Surr: Dibromofluoromethane	924.5	0	1000	0	92.4	70-130	0				
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0				

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74110** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 15071491-01A MSD			Units: µg/Kg		Analysis Date: 7/31/2015 12:44 PM	
Client ID: East Wall				Run ID: VMS8_150730A			SeqNo: 3396961		Prep Date: 7/28/2015	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	878.5	30	1000	0	87.8	75-125	858.5	2.3	30	
Ethylbenzene	1038	30	1000	0	104	75-125	1008	2.88	30	
m,p-Xylene	2070	60	2000	0	103	80-125	2013	2.77	30	
o-Xylene	1015	30	1000	0	102	75-125	979.5	3.56	30	
Toluene	973	30	1000	0	97.3	70-125	975.5	0.257	30	
Xylenes, Total	3084	90	3000	0	103	75-125	2992	3.03	30	
Surr: 1,2-Dichloroethane-d4	973	0	1000	0	97.3	70-130	942.5	3.18	30	
Surr: 4-Bromofluorobenzene	1066	0	1000	0	107	70-130	1050	1.51	30	
Surr: Dibromofluoromethane	936	0	1000	0	93.6	70-130	924.5	1.24	30	
Surr: Toluene-d8	1018	0	1000	0	102	70-130	1006	1.19	30	

The following samples were analyzed in this batch:

15071491-01A

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74080** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-74080-74080				Units: s.u.		Analysis Date: 7/27/2015 05:15 PM		
Client ID:		Run ID: WETCHEM_1507270				SeqNo: 3388438		Prep Date: 7/27/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.02 0 4 0 100 90-110 0

DUP		Sample ID: 15071491-01B DUP				Units: s.u.		Analysis Date: 7/27/2015 05:15 PM		
Client ID: East Wall		Run ID: WETCHEM_1507270				SeqNo: 3388447		Prep Date: 7/27/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.08 0 0 0 0 0-0 8.24 1.96 20

DUP				Sample ID: 15071494-03A DUP				Units: s.u.			Analysis Date: 7/27/2015 05:15 PM			
Client ID:				Run ID: WETCHEM_1507270				SeqNo: 3388451			Prep Date: 7/27/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH 8.37 0 0 0 0 0-0 8.34 0.359 20

The following samples were analyzed in this batch:

15071491-01B

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **74132** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>15071362-01A DUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>7/30/2015 10:15 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150730C</b>				SeqNo: <b>3394795</b>		Prep Date: <b>7/29/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.05	0.050	0	0	0		1.265	18.6	50	

The following samples were analyzed in this batch:

15071491-01C

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

# QC BATCH REPORT

Batch ID: **74204** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-74204-74204</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393385</b>		Prep Date: <b>7/27/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.32 1.0 J

<b>LCS</b>		Sample ID: <b>LCS-74204-74204</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393386</b>		Prep Date: <b>7/27/2015</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 4.56 1.0 5 0 91.2 80-120 0

<b>MS</b>		Sample ID: <b>15071480-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393392</b>		Prep Date: <b>7/27/2015</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 4.01 0.96 4.808 0.4369 74.3 75-125 0 S

<b>MS</b>		Sample ID: <b>15071480-01A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393394</b>		Prep Date: <b>7/27/2015</b>		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2285 100 2414 0.4369 94.6 75-125 0

<b>MSD</b>		Sample ID: <b>15071480-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/29/2015 01:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150729F</b>		SeqNo: <b>3393393</b>		Prep Date: <b>7/27/2015</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 4.122 1.0 5.102 0.4369 72.2 75-125 4.01 2.78 20 S

The following samples were analyzed in this batch:

15071491-01B

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15071491  
**Project:** Parachute Creek 5 Condensate Spill

## QC BATCH REPORT

Batch ID: **R168794** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R168794					Units: % of sample		Analysis Date: 7/30/2015 03:55 PM		
Client ID:			Run ID: MOIST_150730D			SeqNo: 3398280		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-R168794				Units: % of sample		Analysis Date: 7/30/2015 03:55 PM		
Client ID:		Run ID: MOIST_150730D				SeqNo: 3398279		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: 15071470-01C DUP				Units: % of sample		Analysis Date: 7/30/2015 03:55 PM		
Client ID:		Run ID: MOIST_150730D			SeqNo: 3398259		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.32 0.050 0 0 0 18.1 4.4 20

<b>DUP</b>				Sample ID: <b>15071535-01B DUP</b>				Units: % of sample			Analysis Date: <b>7/30/2015 03:55 PM</b>			
Client ID:				Run ID: <b>MOIST_150730D</b>				SeqNo: <b>3398266</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 19.39 0.050 0 0 0 19.11 1.45 20

The following samples were analyzed in this batch:

15071491-01B

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



Cincinnati, OH  
+1 513 733 5336

Everett, WA  
+1 425 356 2600

Fort Collins, CO  
+1 970 490 1511

Holland, MI  
+1 616 399 6070

# Chain of Custody Form

Page 1 of 1

COC ID: 13059

Houston, TX  
+1 281 530 5656

Middletown, PA  
+1 717 944 5541

Spring City, PA  
+1 610 948 4903

Salt Lake City, UT  
+1 801 266 7700

South Charleston, WV  
+1 304 356 3168

York, PA  
+1 717 505 5280

**Environmental**

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #: 15071491	
Parameter/Method Request for Analysis							
Purchase Order		Project Name	Parachute Creek's condensate spill	A			
Work Order		Project Number		B			
Company Name	HRL Compliance	Bill To Company	Caerus Pinnacle, LLC	C			
Send Report To	Casey Richardson	Invoice Attn	Jake Janicek	D			
Address	2385 F1/2 Rd	Address	120 N. Rail Rd	E			
			Suite D	F			
City/State/Zip	Grand Junction CO 81505	City/State/Zip	Parachute CO 81635	G			
Phone	970-243-3271	Phone	970-285-9606	H			
Fax	crichardson@HRLcompliance.com	Fax		I			
e-Mail Address	RWold@HRLcompliance.com	e-Mail Address	invoices@caerusinc.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	East Wall	7/24/15	9:30	SO	8	3		X	X	X							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Reed Wold</i>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 2-5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by <i>Reed Wold</i>	Date: 7/24/15	Time: 12:30	Received by <i>[Signature]</i>	Notes:			
Relinquished by <i>[Signature]</i>	Date: 7-24-15	Time: 1235	Received by (Laboratory) <i>[Signature]</i>	Cooler ID	Cooler Temp 4.2°C	QC Package: (Check One Box Below)	
Logged by (Laboratory) <i>DES</i>	Date: 7/23/15	Time: 1100	Checked by (Laboratory) <i>[Signature]</i>			<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SWB48/CLP <input type="checkbox"/> Other	
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> 6-NaHSO <sub>3</sub> 7-Other 8-4°C 9-5035							



ORIGIN ID: RLA (816) 298-1033  
NICK MARTINEZ  
ALS ENVIRONMENTAL PARACHUTE  
PARACHUTE SERVICE CENTER  
127 EAST 1ST ST  
PARACHUTE, CO 81635  
UNITED STATES US

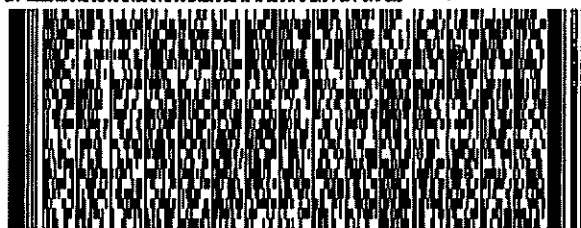
SHIP DATE: 23 JUL 15  
ACTWGT: 53.00 LB  
CAD: 2284840 NET 13870  
DIMS: 26x18x16 IN  
BILL SENDER

TO **SAMPLE RECEIVING**  
**ALS ENVIRONMENTAL HOLLAND LAB**  
**3352 128TH AVE**

539.03/1156100

**HOLLAND MI 49424**

(816) 398-6070 REF: 072315-1  
INV. DEPT:  
PO: PARACHUTE



**FedEx**  
Express



REL#  
3785346

3 of 3

MP8A 7741 2542 2106  
0283

Mstr# 7741 2542 2334

FRI - 24 JUL 10:30A  
PRIORITY OVERNIGHT.

**XX HLMA**

MI-US 49424  
GRR



**After printing this label:**

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

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the can: Use of this system constitutes your agreement will not be responsible for any claim in excess of information, unless you declare a higher value, found in the current FedEx Service Guide apply. Y of sales, income interest, profit, attorney's fees, or limited to the greater of \$100 or the authorized declaration value of \$1,000, e.g. jewelry, precious metals, etc. Recovery cannot exceed actual declared loss. Maximum for items of value in our ServiceGuide. Written claims must be filed within strict time limits, see current

ALS Parachute Custody Seal

Time 1730 Date 7-24

Name

22

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 25-Jul-15 10:00

Work Order: 15071491

Received by: DS

Checklist completed by Diane Shaw  
eSignature

27-Jul-15  
Date

Reviewed by: Chad Whelton  
eSignature

27-Jul-15  
Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 4.2 c SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 7/27/2015 11:03:46 AM

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



04-Sep-2015

Casey Richardson  
HRL Compliance Solutions, Inc  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **Caerus Parachute Creek 5 Soil Disposal Samples**

Work Order: **15081016**

Dear Casey,

ALS Environmental received 2 samples on 19-Aug-2015 09:50 PM for the analyses presented in the following report.

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

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

The total number of pages in this report is 44.

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

Sincerely,

A handwritten signature in black ink that reads "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold  
Senior Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

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

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

Environmental 

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

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**Work Order:** 15081016

**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>
15081016-01	South Stockpile	Soil		8/18/2015 11:45	8/19/2015 21:50	<input type="checkbox"/>
15081016-02	North Stockpile	Soil		8/18/2015 11:00	8/19/2015 21:50	<input type="checkbox"/>

---

**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**Work Order:** 15081016

---

**Case Narrative**

NORM RESULTS ARE ATTACHED FOLLOWING THE ALS HOLLAND ANALYTICAL REPORT.

Samples for the above noted Work Order were received on 08/19/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

**Sample Receiving:**

No deviations or anomalies were noted.

**Volatile Organics:**

No deviations or anomalies were noted.

**Extractable Organics:**

No deviations or anomalies were noted.

**Metals:**

No deviations or anomalies were noted.

**Wet Chemistry:**

No deviations or anomalies were noted.

# ALS Group USA, Corp

Date: 04-Sep-15

**Client:** HRL Compliance Solutions, Inc

**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

**Work Order:** 15081016

**Sample ID:** South Stockpile

**Lab ID:** 15081016-01

**Collection Date:** 8/18/2015 11:45 AM

**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>54</b>		<b>SW8015M</b>		Prep: SW3541 / 8/20/15	Analyst: <b>IT</b>
<i>Surr: 4-Terphenyl-d14</i>	<i>61.4</i>		<i>4.9</i>	<i>mg/Kg-dry</i>	<i>1</i>	8/20/2015 07:15 PM
			<i>39-133</i>	<i>%REC</i>	<i>1</i>	8/20/2015 07:15 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>140</b>		<b>SW8015D</b>		Prep: SW5035 / 8/20/15	Analyst: <b>IT</b>
<i>Surr: Toluene-d8</i>	<i>94.5</i>		<i>3.0</i>	<i>mg/Kg-dry</i>	<i>1</i>	8/20/2015 08:04 PM
			<i>50-150</i>	<i>%REC</i>	<i>1</i>	8/20/2015 08:04 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.024</b>		<b>SW7471B</b>		Prep: SW7471 / 8/20/15	Analyst: <b>LR</b>
			<b>0.016</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/20/2015 07:31 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>10</b>		<b>SW846 6010C</b>		Prep: SW3050B / 8/20/15	Analyst: <b>JEC</b>
			<b>0.44</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
<b>Barium</b>	<b>370</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
Cadmium	ND		0.87	mg/Kg-dry	1	8/21/2015 09:12 AM
<b>Chromium</b>	<b>12</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
<b>Copper</b>	<b>21</b>		<b>0.87</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
<b>Lead</b>	<b>8.3</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
<b>Nickel</b>	<b>29</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
Selenium	ND		0.87	mg/Kg-dry	1	8/21/2015 09:12 AM
Silver	ND		0.44	mg/Kg-dry	1	8/21/2015 09:12 AM
<b>Zinc</b>	<b>59</b>		<b>0.87</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:12 AM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 8/24/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>600</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	8/24/2015 02:06 PM
<b>Magnesium</b>	<b>250</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	8/24/2015 02:06 PM
<b>Sodium</b>	<b>810</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	8/24/2015 02:06 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 8/24/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>7.0</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	8/24/2015
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>See attached</b>		<b>SUBCONTRACT</b>			Analyst: <b>ALS</b>
			<b>as noted</b>		<b>1</b>	9/4/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 8/20/15	Analyst: <b>RM</b>
Acenaphthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Anthracene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Benzo(a)anthracene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Benzo(a)pyrene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Benzo(b)fluoranthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Benzo(k)fluoranthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Chrysene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM

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

# ALS Group USA, Corp

Date: 04-Sep-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**Sample ID:** South Stockpile  
**Collection Date:** 8/18/2015 11:45 AM

**Work Order:** 15081016  
**Lab ID:** 15081016-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Fluoranthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Indeno(1,2,3-cd)pyrene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
<b>Naphthalene</b>	<b>0.030</b>		<b>0.0078</b>	<b>mg/Kg-dry</b>	1	8/21/2015 01:38 AM
Pyrene	ND		0.0078	mg/Kg-dry	1	8/21/2015 01:38 AM
Surr: 2-Fluorobiphenyl	28.0		12-100	%REC	1	8/21/2015 01:38 AM
Surr: 4-Terphenyl-d14	39.5		25-137	%REC	1	8/21/2015 01:38 AM
Surr: Nitrobenzene-d5	32.3	S	37-107	%REC	1	8/21/2015 01:38 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 8/20/15		Analyst: <b>BG</b>
1,1,1-Trichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,1,2,2-Tetrachloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,1,2-Trichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,1-Dichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,1-Dichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,2-Dichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,2-Dichloropropane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
2-Butanone	ND		0.24	mg/Kg-dry	1	8/20/2015 08:43 PM
2-Hexanone	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
4-Methyl-2-pentanone	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Acetone	ND		0.12	mg/Kg-dry	1	8/20/2015 08:43 PM
<b>Benzene</b>	<b>0.044</b>		<b>0.036</b>	<b>mg/Kg-dry</b>	1	8/20/2015 08:43 PM
Bromodichloromethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Bromoform	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Bromomethane	ND		0.090	mg/Kg-dry	1	8/20/2015 08:43 PM
Carbon disulfide	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Carbon tetrachloride	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Chlorobenzene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Chloroethane	ND		0.12	mg/Kg-dry	1	8/20/2015 08:43 PM
Chloroform	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Chloromethane	ND		0.12	mg/Kg-dry	1	8/20/2015 08:43 PM
cis-1,2-Dichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
cis-1,3-Dichloropropene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Dibromochloromethane	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
<b>Ethylbenzene</b>	<b>0.44</b>		<b>0.036</b>	<b>mg/Kg-dry</b>	1	8/20/2015 08:43 PM
<b>m,p-Xylene</b>	<b>1.1</b>		<b>0.072</b>	<b>mg/Kg-dry</b>	1	8/20/2015 08:43 PM
Methylene chloride	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
o-Xylene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Styrene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Tetrachloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Toluene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM

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

# ALS Group USA, Corp

Date: 04-Sep-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**Sample ID:** South Stockpile  
**Collection Date:** 8/18/2015 11:45 AM

**Work Order:** 15081016  
**Lab ID:** 15081016-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
trans-1,3-Dichloropropene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Trichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
Vinyl chloride	ND		0.036	mg/Kg-dry	1	8/20/2015 08:43 PM
1,2-Dichloroethene, Total	ND		0.072	mg/Kg-dry	1	8/20/2015 08:43 PM
1,3-Dichloropropene, Total	ND		0.072	mg/Kg-dry	1	8/20/2015 08:43 PM
Xylenes, Total	1.1		0.11	mg/Kg-dry	1	8/20/2015 08:43 PM
Surr: 1,2-Dichloroethane-d4	99.8		70-130	%REC	1	8/20/2015 08:43 PM
Surr: 4-Bromofluorobenzene	98.2		70-130	%REC	1	8/20/2015 08:43 PM
Surr: Dibromofluoromethane	95.6		70-130	%REC	1	8/20/2015 08:43 PM
Surr: Toluene-d8	108		70-130	%REC	1	8/20/2015 08:43 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JJG
Electrical Conductivity @ Saturation	9.8		0.050	mmhos/cm @25	10	8/24/2015 02:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	12		0.60	mg/Kg-dry	1	8/24/2015 11:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 8/20/15	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	8/21/2015 03:00 PM
FLASHPOINT/IGNITABILITY ANALYSIS			SW1010A			Analyst: RLF
Flashpoint/Ignitability	>200			°F	1	8/24/2015 08:30 AM
PAINT FILTER (FREE LIQUIDS)			SW9095B			Analyst: JJG
Free Liquids	Pass			none	1	8/24/2015 10:00 AM
MOISTURE			E160.3M			Analyst: EVB
Moisture	16		0.050	% of sample	1	8/20/2015 08:40 AM
PH			SW9045D		Prep: EXTRACT / 8/24/15	Analyst: ED
pH	8.0			s.u.	1	8/24/2015 01:15 PM

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



# ALS Group USA, Corp

Date: 04-Sep-15

**Client:** HRL Compliance Solutions, Inc

**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

**Work Order:** 15081016

**Sample ID:** North Stockpile

**Lab ID:** 15081016-02

**Collection Date:** 8/18/2015 11:00 AM

**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>24</b>		<b>SW8015M</b>		Prep: SW3541 / 8/20/15	Analyst: <b>IT</b>
			<b>4.8</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/20/2015 07:45 PM
Surr: 4-Terphenyl-d14	58.9		39-133	%REC	1	8/20/2015 07:45 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015D</b>		Prep: SW5035 / 8/20/15	Analyst: <b>IT</b>
			<b>3.0</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/20/2015 08:28 PM
Surr: Toluene-d8	92.6		50-150	%REC	1	8/20/2015 08:28 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.027</b>		<b>SW7471B</b>		Prep: SW7471 / 8/20/15	Analyst: <b>LR</b>
			<b>0.017</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/20/2015 07:33 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>11</b>		<b>SW846 6010C</b>		Prep: SW3050B / 8/20/15	Analyst: <b>JEC</b>
			<b>0.43</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
<b>Barium</b>	<b>230</b>		<b>0.43</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
Cadmium	ND		0.86	mg/Kg-dry	1	8/21/2015 09:18 AM
<b>Chromium</b>	<b>12</b>		<b>0.43</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
<b>Copper</b>	<b>20</b>		<b>0.86</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
<b>Lead</b>	<b>10</b>		<b>0.43</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
<b>Nickel</b>	<b>35</b>		<b>0.43</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
Selenium	ND		0.86	mg/Kg-dry	1	8/21/2015 11:27 AM
Silver	ND		0.43	mg/Kg-dry	1	8/21/2015 09:18 AM
<b>Zinc</b>	<b>65</b>		<b>0.86</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/21/2015 09:18 AM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 8/24/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>840</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	8/24/2015 02:11 PM
<b>Magnesium</b>	<b>280</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	8/24/2015 02:11 PM
<b>Sodium</b>	<b>730</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	8/24/2015 02:11 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 8/24/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>5.6</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	8/24/2015
<b>SUBCONTRACTED ANALYSES</b>						
<b>Subcontracted Analyses</b>	<b>See attached</b>		<b>SUBCONTRACT</b>			Analyst: <b>ALS</b>
			<b>as noted</b>		<b>1</b>	9/4/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 8/20/15	Analyst: <b>RM</b>
Acenaphthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Anthracene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Benzo(a)anthracene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Chrysene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM

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

# ALS Group USA, Corp

Date: 04-Sep-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**Sample ID:** North Stockpile  
**Collection Date:** 8/18/2015 11:00 AM

**Work Order:** 15081016  
**Lab ID:** 15081016-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Fluoranthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
<b>Naphthalene</b>	<b>0.019</b>		<b>0.0077</b>	<b>mg/Kg-dry</b>	1	8/21/2015 01:57 AM
Pyrene	ND		0.0077	mg/Kg-dry	1	8/21/2015 01:57 AM
Surr: 2-Fluorobiphenyl	57.7		12-100	%REC	1	8/21/2015 01:57 AM
Surr: 4-Terphenyl-d14	75.1		25-137	%REC	1	8/21/2015 01:57 AM
Surr: Nitrobenzene-d5	66.0		37-107	%REC	1	8/21/2015 01:57 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 8/20/15		Analyst: <b>BG</b>
1,1,1-Trichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,1,2,2-Tetrachloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,1,2-Trichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,1-Dichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,1-Dichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,2-Dichloroethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,2-Dichloropropane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
2-Butanone	ND		0.24	mg/Kg-dry	1	8/20/2015 09:09 PM
2-Hexanone	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
4-Methyl-2-pentanone	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Acetone	ND		0.12	mg/Kg-dry	1	8/20/2015 09:09 PM
Benzene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Bromodichloromethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Bromoform	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Bromomethane	ND		0.089	mg/Kg-dry	1	8/20/2015 09:09 PM
Carbon disulfide	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Carbon tetrachloride	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Chlorobenzene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Chloroethane	ND		0.12	mg/Kg-dry	1	8/20/2015 09:09 PM
Chloroform	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Chloromethane	ND		0.12	mg/Kg-dry	1	8/20/2015 09:09 PM
cis-1,2-Dichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
cis-1,3-Dichloropropene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Dibromochloromethane	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Ethylbenzene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
m,p-Xylene	ND		0.071	mg/Kg-dry	1	8/20/2015 09:09 PM
Methylene chloride	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
o-Xylene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Styrene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Tetrachloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Toluene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM

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

# ALS Group USA, Corp

Date: 04-Sep-15

**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**Sample ID:** North Stockpile  
**Collection Date:** 8/18/2015 11:00 AM

**Work Order:** 15081016  
**Lab ID:** 15081016-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
trans-1,3-Dichloropropene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Trichloroethene	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
Vinyl chloride	ND		0.036	mg/Kg-dry	1	8/20/2015 09:09 PM
1,2-Dichloroethene, Total	ND		0.071	mg/Kg-dry	1	8/20/2015 09:09 PM
1,3-Dichloropropene, Total	ND		0.071	mg/Kg-dry	1	8/20/2015 09:09 PM
Xylenes, Total	ND		0.11	mg/Kg-dry	1	8/20/2015 09:09 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	8/20/2015 09:09 PM
Surr: 4-Bromofluorobenzene	97.2		70-130	%REC	1	8/20/2015 09:09 PM
Surr: Dibromofluoromethane	96.7		70-130	%REC	1	8/20/2015 09:09 PM
Surr: Toluene-d8	101		70-130	%REC	1	8/20/2015 09:09 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JJG
Electrical Conductivity @ Saturation	11		0.050	mmhos/cm @25	10	8/24/2015 02:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	12		0.59	mg/Kg-dry	1	8/24/2015 11:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 8/20/15	Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	8/21/2015 03:00 PM
FLASHPOINT/IGNITABILITY ANALYSIS			SW1010A			Analyst: RLF
Flashpoint/Ignitability	>200			°F	1	8/24/2015 08:30 AM
PAINT FILTER (FREE LIQUIDS)			SW9095B			Analyst: JJG
Free Liquids	Pass			none	1	8/24/2015 10:00 AM
MOISTURE			E160.3M			Analyst: EVB
Moisture	16		0.050	% of sample	1	8/20/2015 08:40 AM
PH			SW9045D		Prep: EXTRACT / 8/24/15	Analyst: ED
pH	8.5			s.u.	1	8/24/2015 01:15 PM

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

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**Client:** HRL Compliance Solutions, Inc  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples  
**WorkOrder:** 15081016

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**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 is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

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

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

**Client:** HRL Compliance Solutions, Inc

**QC BATCH REPORT**

**Work Order:** 15081016

**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

Batch ID: **75051**

Instrument ID **GC8**

Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-75051-75051</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/20/2015 04:45 PM</b>		
Client ID:		Run ID: <b>GC8_150820A</b>				SeqNo: <b>3426468</b>		Prep Date: <b>8/20/2015</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	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.098</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>54.9</i>	<i>39-133</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>DLCSS1-75051-75051</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/20/2015 05:15 PM</b>		
Client ID:		Run ID: <b>GC8_150820A</b>				SeqNo: <b>3426469</b>		Prep Date: <b>8/20/2015</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)	185.8	5.0	200	0	92.9	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.212</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>60.6</i>	<i>39-133</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>15081030-01B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/20/2015 05:45 PM</b>		
Client ID:		Run ID: <b>GC8_150820A</b>				SeqNo: <b>3426470</b>		Prep Date: <b>8/20/2015</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)	199.7	4.1	162.6	84.64	70.7	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9826</i>	<i>0</i>	<i>1.626</i>	<i>0</i>	<i>60.4</i>	<i>39-133</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>15081030-01B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/20/2015 06:15 PM</b>		
Client ID:		Run ID: <b>GC8_150820A</b>				SeqNo: <b>3426471</b>		Prep Date: <b>8/20/2015</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)	211.9	4.1	163.1	84.64	78	48-110	199.7	5.95	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9884</i>	<i>0</i>	<i>1.631</i>	<i>0</i>	<i>60.6</i>	<i>39-133</i>	<i>0.9826</i>	<i>0.58</i>	<i>30</i>	

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75052** Instrument ID **GC10** Method: **SW8015D**

<b>MBLK</b>	Sample ID: <b>MBLK-75052-75052</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 07:40 PM</b>		
Client ID:	Run ID: <b>GC10_150820A</b>				SeqNo: <b>3426573</b>		Prep Date: <b>8/20/2015</b>		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	2,500								
<i>Surr: Toluene-d8</i>	4782	0	5000	0	95.6	50-150	0			

<b>MBLK</b>	Sample ID: <b>MBLK-75052-75052</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 04:55 PM</b>		
Client ID:	Run ID: <b>GC9_150820A</b>				SeqNo: <b>3427218</b>		Prep Date: <b>8/20/2015</b>		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	2,500								
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<b>MBLK</b>	Sample ID: <b>MBLK-75052-75052</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>8/27/2015 09:29 PM</b>		
Client ID:	Run ID: <b>GC9_150827A</b>				SeqNo: <b>3434896</b>		Prep Date: <b>8/20/2015</b>		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	2,500								
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<b>LCS</b>	Sample ID: <b>LCS-75052-75052</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 07:16 PM</b>		
Client ID:	Run ID: <b>GC10_150820A</b>				SeqNo: <b>3426572</b>		Prep Date: <b>8/20/2015</b>		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)	532100	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	4736	0	5000	0	94.7	50-150	0			

<b>LCS</b>	Sample ID: <b>LCS-75052-75052</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 04:30 PM</b>		
Client ID:	Run ID: <b>GC9_150820A</b>				SeqNo: <b>3427216</b>		Prep Date: <b>8/20/2015</b>		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)	555900	2,500	500000	0	111	80-120	0			
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<b>MS</b>	Sample ID: <b>15081030-01A MS</b>					Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 10:54 PM</b>		
Client ID:	Run ID: <b>GC10_150820A</b>				SeqNo: <b>3426580</b>		Prep Date: <b>8/20/2015</b>		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)	718000	2,500	500000	176900	108	70-130	0			
<i>Surr: Toluene-d8</i>	4842	0	5000	0	96.8	50-150	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75052**      Instrument ID **GC10**      Method: **SW8015D**

<b>MSD</b>		Sample ID: <b>15081030-01A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 11:18 PM</b>		
Client ID:		Run ID: <b>GC10_150820A</b>				SeqNo: <b>3426581</b>		Prep Date: <b>8/20/2015</b>		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)	701900	2,500	500000	176900	105	70-130	718000	2.27	30	
<i>Surr: Toluene-d8</i>	<i>4844</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>96.9</i>	<i>50-150</i>	<i>4842</i>	<i>0.0206</i>	<i>30</i>	

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75057** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-75057-75057					Units: mg/Kg		Analysis Date: 8/20/2015 07:13 PM		
Client ID:			Run ID: HG1_150820A			SeqNo: 3426694		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.020

LCS		Sample ID: LCS-75057-75057					Units: mg/Kg		Analysis Date: 8/20/2015 07:16 PM		
Client ID:			Run ID: HG1_150820A			SeqNo: 3426696		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1907 0.020 0.1665 0 115 80-120 0

MS		Sample ID: 1508953-03AMS					Units: mg/Kg		Analysis Date: 8/20/2015 08:07 PM		
Client ID:			Run ID: HG1_150820A			SeqNo: 3426733		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1986 0.013 0.1092 0.09607 93.9 75-125 0

MSD		Sample ID: 1508953-03AMSD				Units: mg/Kg		Analysis Date: 8/20/2015 08:10 PM		
Client ID:		Run ID: HG1_150820A			SeqNo: 3426735		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2396 0.013 0.1046 0.09607 137 75-125 0.1986 18.7 35 SE

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75062**

Instrument ID **ICP2**

Method: **SW846 6010C**

Sample ID: MBLK-75062-75062				Units: mg/Kg			Analysis Date: 8/21/2015 09:01 AM			
Client ID:		Run ID: ICP2_150821A			SeqNo: 3426798		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.01461	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS				Sample ID: LCS-75062-75062				Units: mg/Kg		Analysis Date: 8/21/2015 09:07 AM	
Client ID:			Run ID: ICP2_150821A			SeqNo: 3426799		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.849	0.25	5	0	97	80-120	0				
Barium	4.878	0.25	5	0	97.6	80-120	0				
Cadmium	4.55	0.50	5	0	91	80-120	0				
Chromium	5.129	0.25	5	0	103	80-120	0				
Copper	4.928	0.50	5	0	98.6	80-120	0				
Lead	5.002	0.25	5	0	100	80-120	0				
Nickel	5.055	0.25	5	0	101	80-120	0				
Selenium	4.944	0.50	5	0	98.9	80-120	0				
Silver	4.807	0.25	5	0	96.1	80-120	0				
Zinc	4.534	0.50	5	0	90.7	80-120	0				

MS					Sample ID: 15081041-04AMS			Units: mg/Kg		Analysis Date: 8/21/2015 09:53 AM		
Client ID:			Run ID: ICP2_150821A			SeqNo: 3426807		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	22.9	0.37	7.396	14.14	119	75-125	0					
Barium	30.46	0.37	7.396	19.19	152	75-125	0			S		
Cadmium	7.163	0.74	7.396	0.01627	96.6	75-125	0					
Chromium	24.05	0.37	7.396	12.26	159	75-125	0			S		
Copper	67.11	0.74	7.396	51.86	206	75-125	0			SO		
Lead	26.16	0.37	7.396	14.63	156	75-125	0			S		
Nickel	68.53	0.37	7.396	56.96	156	75-125	0			SO		
Selenium	9.44	0.74	7.396	1.493	107	75-125	0					
Silver	7.866	0.37	7.396	-0.01271	107	75-125	0					
Zinc	31.28	0.74	7.396	19.51	159	75-125	0			S		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75062**      Instrument ID **ICP2**      Method: **SW846 6010C**

MSD		Sample ID: <b>15081041-04AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/21/2015 10:21 AM</b>		
Client ID:		Run ID: <b>ICP2_150821A</b>				SeqNo: <b>3426812</b>		Prep Date: <b>8/20/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.85	0.37	7.321	14.14	119	75-125	22.9	0.224	20	
Barium	29.07	0.37	7.321	19.19	135	75-125	30.46	4.65	20	S
Cadmium	7.02	0.73	7.321	0.01627	95.7	75-125	7.163	2.02	20	
Chromium	23.56	0.37	7.321	12.26	154	75-125	24.05	2.08	20	S
Copper	67.47	0.73	7.321	51.86	213	75-125	67.11	0.537	20	SO
Lead	28.08	0.37	7.321	14.63	184	75-125	26.16	7.07	20	S
Nickel	68.98	0.37	7.321	56.96	164	75-125	68.53	0.659	20	SO
Selenium	8.976	0.73	7.321	1.493	102	75-125	9.44	5.05	20	
Silver	7.77	0.37	7.321	-0.01271	106	75-125	7.866	1.23	20	
Zinc	32.6	0.73	7.321	19.51	179	75-125	31.28	4.15	20	S

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75099** Instrument ID **ICP2** Method: **SW846 6010C**

<b>DUP</b>		Sample ID: <b>15081030-02CDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/24/2015 02:28 PM</b>		
Client ID:		Run ID: <b>ICP2_150824A</b>				SeqNo: <b>3429366</b>		Prep Date: <b>8/24/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	480.8	5.0	0	0	0	0-0	464.8	3.4		
Magnesium	236.5	2.0	0	0	0	0-0	220.8	6.87		
Sodium	1208	2.0	0	0	0	0-0	1133	6.39		

<b>DUP</b>		Sample ID: <b>15081030-02CDUP</b>				Units: <b>none</b>		Analysis Date: <b>8/24/2015</b>		
Client ID:		Run ID: <b>SAR_150824A</b>				SeqNo: <b>3429432</b>		Prep Date: <b>8/24/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	11.27	0.010	0	0	0		10.84	3.92	50	

The following samples were analyzed in this batch:

15081016-01B	15081016-02B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75050**      Instrument ID **SVMS8**      Method: **SW846 8270D**

Sample ID: SBLKS1-75050-75050				Units: µg/Kg			Analysis Date: 8/20/2015 05:44 PM			
Client ID:		Run ID: SVMS8_150820A			SeqNo: 3426932		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	4	6.7								J
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	878	0	1667	0	52.7	12-100	0			
Surr: 4-Terphenyl-d14	1246	0	1667	0	74.7	25-137	0			
Surr: Nitrobenzene-d5	917	0	1667	0	55	37-107	0			

LCS			Sample ID: <b>SLCSS1-75050-75050</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 06:04 PM</b>		
Client ID:		Run ID: <b>SVMS8_150820A</b>			SeqNo: <b>3426933</b>		Prep Date: <b>8/20/2015</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	507	6.7	666.7		0	76	45-110	0		
Anthracene	610	6.7	666.7		0	91.5	55-105	0		
Benzo(a)anthracene	613.3	6.7	666.7		0	92	50-110	0		
Benzo(a)pyrene	621.7	6.7	666.7		0	93.2	50-110	0		
Benzo(b)fluoranthene	650	6.7	666.7		0	97.5	45-115	0		
Benzo(k)fluoranthene	655	6.7	666.7		0	98.2	45-115	0		
Chrysene	621	6.7	666.7		0	93.1	55-110	0		
Dibenzo(a,h)anthracene	542.7	6.7	666.7		0	81.4	40-125	0		
Fluoranthene	642.3	6.7	666.7		0	96.3	55-115	0		
Indeno(1,2,3-cd)pyrene	549.7	6.7	666.7		0	82.4	40-120	0		
Naphthalene	462	6.7	666.7		0	69.3	40-105	0		
Pyrene	639.7	6.7	666.7		0	95.9	45-125	0		
<i>Surr: 2-Fluorobiphenyl</i>	1091	0	1667		0	65.4	12-100	0		
<i>Surr: 4-Terphenyl-d14</i>	1394	0	1667		0	83.6	25-137	0		
<i>Surr: Nitrobenzene-d5</i>	1169	0	1667		0	70.2	37-107	0		

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75050** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: <b>1508996-02B MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 08:08 PM</b>	
Client ID:		Run ID: <b>SVMS8_150820A</b>			SeqNo: <b>3426934</b>		Prep Date: <b>8/20/2015</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	874.5	13	1260	10.86	68.5	45-110	0			
Anthracene	1050	13	1260	0	83.3	55-105	0			
Benzo(a)anthracene	1019	13	1260	13.41	79.8	50-110	0			
Benzo(a)pyrene	1041	13	1260	0	82.6	50-110	0			
Benzo(b)fluoranthene	1069	13	1260	0	84.8	45-115	0			
Benzo(k)fluoranthene	1078	13	1260	0	85.5	45-115	0			
Chrysene	1037	13	1260	12.77	81.3	55-110	0			
Dibenzo(a,h)anthracene	846.8	13	1260	0	67.2	40-125	0			
Fluoranthene	1101	13	1260	11.5	86.4	55-115	0			
Indeno(1,2,3-cd)pyrene	885.8	13	1260	0	70.3	40-120	0			
Naphthalene	826	13	1260	0	65.5	40-105	0			
Pyrene	1045	13	1260	14.05	81.8	45-125	0			
Surr: 2-Fluorobiphenyl	1979	0	3150	0	62.8	12-100	0			
Surr: 4-Terphenyl-d14	2298	0	3150	0	72.9	25-137	0			
Surr: Nitrobenzene-d5	2184	0	3150	0	69.3	37-107	0			

MSD				Sample ID: <b>1508996-02B MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 08:28 PM</b>	
Client ID:		Run ID: <b>SVMS8_150820A</b>			SeqNo: <b>3426935</b>		Prep Date: <b>8/20/2015</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	873.6	13	1257	10.86	68.6	45-110	874.5	0.101	30	
Anthracene	1046	13	1257	0	83.2	55-105	1050	0.426	30	
Benzo(a)anthracene	1031	13	1257	13.41	80.9	50-110	1019	1.17	30	
Benzo(a)pyrene	1055	13	1257	0	83.9	50-110	1041	1.32	30	
Benzo(b)fluoranthene	1091	13	1257	0	86.8	45-115	1069	2.03	30	
Benzo(k)fluoranthene	1083	13	1257	0	86.1	45-115	1078	0.453	30	
Chrysene	1035	13	1257	12.77	81.3	55-110	1037	0.245	30	
Dibenzo(a,h)anthracene	856	13	1257	0	68.1	40-125	846.8	1.08	30	
Fluoranthene	1110	13	1257	11.5	87.4	55-115	1101	0.836	30	
Indeno(1,2,3-cd)pyrene	875.5	13	1257	0	69.6	40-120	885.8	1.17	30	
Naphthalene	835.3	13	1257	0	66.4	40-105	826	1.12	30	
Pyrene	1043	13	1257	14.05	81.8	45-125	1045	0.185	30	
Surr: 2-Fluorobiphenyl	1936	0	3143	0	61.6	12-100	1979	2.17	40	
Surr: 4-Terphenyl-d14	2282	0	3143	0	72.6	25-137	2298	0.685	40	
Surr: Nitrobenzene-d5	2168	0	3143	0	69	37-107	2184	0.737	40	

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75049**      Instrument ID **VMS5**      Method: **SW8260B**

MBLK		Sample ID: <b>MBLK-75049-75049</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 03:12 PM</b>		
Client ID:		Run ID: <b>VMS5_150820A</b>				SeqNo: <b>3426688</b>		Prep Date: <b>8/20/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	30								
1,1,2,2-Tetrachloroethane	ND	30								
1,1,2-Trichloroethane	ND	30								
1,1-Dichloroethane	ND	30								
1,1-Dichloroethene	ND	30								
1,2-Dichloroethane	ND	30								
1,2-Dichloropropane	ND	30								
2-Butanone	ND	200								
2-Hexanone	ND	30								
4-Methyl-2-pentanone	ND	30								
Acetone	ND	100								
Benzene	ND	30								
Bromodichloromethane	ND	30								
Bromoform	ND	30								
Bromomethane	ND	75								
Carbon disulfide	ND	30								
Carbon tetrachloride	ND	30								
Chlorobenzene	ND	30								
Chloroethane	ND	100								
Chloroform	ND	30								
Chloromethane	ND	100								
cis-1,2-Dichloroethene	ND	30								
cis-1,3-Dichloropropene	ND	30								
Dibromochloromethane	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
Methylene chloride	ND	30								
o-Xylene	ND	30								
Styrene	ND	30								
Tetrachloroethene	ND	30								
Toluene	ND	30								
trans-1,2-Dichloroethene	ND	30								
trans-1,3-Dichloropropene	ND	30								
Trichloroethene	ND	30								
Vinyl chloride	ND	30								
1,2-Dichloroethene, Total	ND	60								
1,3-Dichloropropene, Total	ND	60								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1008</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>988.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1020</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75049**      Instrument ID **VMS5**      Method: **SW8260B**

LCS				Sample ID: <b>LCS-75049-75049</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 01:55 PM</b>	
Client ID:				Run ID: <b>VMS5_150820A</b>			SeqNo: <b>3426687</b>		Prep Date: <b>8/20/2015</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1014	30	1000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	1039	30	1000	0	104	55-130	0			
1,1,2-Trichloroethane	913.5	30	1000	0	91.4	60-125	0			
1,1-Dichloroethane	989	30	1000	0	98.9	75-125	0			
1,1-Dichloroethene	1093	30	1000	0	109	65-135	0			
1,2-Dichloroethane	923.5	30	1000	0	92.4	70-135	0			
1,2-Dichloropropane	977	30	1000	0	97.7	70-120	0			
2-Butanone	829.5	200	1000	0	83	30-160	0			
2-Hexanone	929.5	30	1000	0	93	45-145	0			
4-Methyl-2-pentanone	1200	30	1000	0	120	74-176	0			
Acetone	810	100	1000	0	81	20-160	0			
Benzene	993	30	1000	0	99.3	75-125	0			
Bromodichloromethane	939.5	30	1000	0	94	70-130	0			
Bromoform	881	30	1000	0	88.1	55-135	0			
Bromomethane	1527	75	1000	0	153	30-160	0			
Carbon disulfide	1023	30	1000	0	102	45-160	0			
Carbon tetrachloride	998.5	30	1000	0	99.8	65-135	0			
Chlorobenzene	939	30	1000	0	93.9	75-125	0			
Chloroethane	1132	100	1000	0	113	40-155	0			
Chloroform	928	30	1000	0	92.8	70-125	0			
Chloromethane	1212	100	1000	0	121	50-130	0			
cis-1,2-Dichloroethene	1001	30	1000	0	100	65-125	0			
cis-1,3-Dichloropropene	950.5	30	1000	0	95	70-125	0			
Dibromochloromethane	849	30	1000	0	84.9	65-135	0			
Ethylbenzene	971	30	1000	0	97.1	75-125	0			
m,p-Xylene	1966	60	2000	0	98.3	80-125	0			
Methylene chloride	1067	30	1000	0	107	55-145	0			
o-Xylene	957.5	30	1000	0	95.8	75-125	0			
Styrene	928	30	1000	0	92.8	75-125	0			
Tetrachloroethene	960	30	1000	0	96	64-140	0			
Toluene	992	30	1000	0	99.2	70-125	0			
trans-1,2-Dichloroethene	1026	30	1000	0	103	65-135	0			
trans-1,3-Dichloropropene	902.5	30	1000	0	90.2	65-125	0			
Trichloroethene	976.5	30	1000	0	97.6	75-125	0			
Vinyl chloride	1190	30	1000	0	119	60-125	0			
Xylenes, Total	2924	90	3000	0	97.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	963.5	0	1000	0	96.4	70-130	0			
Surr: 4-Bromofluorobenzene	995.5	0	1000	0	99.6	70-130	0			
Surr: Dibromofluoromethane	999.5	0	1000	0	100	70-130	0			
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0			

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



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75049**      Instrument ID **VMS5**      Method: **SW8260B**

MS				Sample ID: <b>15081030-01A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>8/20/2015 11:41 PM</b>	
Client ID:				Run ID: <b>VMS5_150820A</b>			SeqNo: <b>3426784</b>		Prep Date: <b>8/20/2015</b>	
							DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	986	30	1000	0	98.6	70-135	0			
1,1,2,2-Tetrachloroethane	1059	30	1000	0	106	55-130	0			
1,1,2-Trichloroethane	820	30	1000	0	82	60-125	0			
1,1-Dichloroethane	973.5	30	1000	0	97.4	75-125	0			
1,1-Dichloroethene	1130	30	1000	0	113	65-135	0			
1,2-Dichloroethane	876.5	30	1000	0	87.6	70-135	0			
1,2-Dichloropropane	926	30	1000	0	92.6	70-120	0			
2-Butanone	1522	200	1000	0	152	30-160	0			
2-Hexanone	7086	30	1000	0	709	45-145	0			SE
4-Methyl-2-pentanone	799.5	30	1000	0	80	74-176	0			
Acetone	1917	100	1000	0	192	20-160	0			S
Benzene	973	30	1000	0	97.3	75-125	0			
Bromodichloromethane	859	30	1000	0	85.9	70-130	0			
Bromoform	754.5	30	1000	0	75.4	55-135	0			
Bromomethane	960	75	1000	0	96	30-160	0			
Carbon disulfide	933.5	30	1000	0	93.4	45-160	0			
Carbon tetrachloride	973.5	30	1000	0	97.4	65-135	0			
Chlorobenzene	899.5	30	1000	0	90	75-125	0			
Chloroethane	1020	100	1000	0	102	40-155	0			
Chloroform	910	30	1000	0	91	70-125	0			
Chloromethane	1224	100	1000	0	122	50-130	0			
cis-1,2-Dichloroethene	980	30	1000	0	98	65-125	0			
cis-1,3-Dichloropropene	863.5	30	1000	0	86.4	70-125	0			
Dibromochloromethane	768	30	1000	0	76.8	65-135	0			
Ethylbenzene	955	30	1000	65.5	89	75-125	0			
m,p-Xylene	1962	60	2000	327	81.8	80-125	0			
Methylene chloride	1040	30	1000	0	104	55-145	0			
o-Xylene	942	30	1000	66	87.6	75-125	0			
Styrene	905.5	30	1000	0	90.6	75-125	0			
Tetrachloroethene	1496	30	1000	0	150	64-140	0			S
Toluene	957.5	30	1000	0	95.8	70-125	0			
trans-1,2-Dichloroethene	1034	30	1000	0	103	65-135	0			
trans-1,3-Dichloropropene	805	30	1000	0	80.5	65-125	0			
Trichloroethene	989	30	1000	0	98.9	75-125	0			
Vinyl chloride	1201	30	1000	0	120	60-125	0			
Xylenes, Total	2904	90	3000	396	83.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	983	0	1000	0	98.3	70-130	0			
Surr: 4-Bromofluorobenzene	1031	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	971.5	0	1000	0	97.2	70-130	0			
Surr: Toluene-d8	1010	0	1000	0	101	70-130	0			

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

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75049**      Instrument ID **VMS5**      Method: **SW8260B**

MSD					Sample ID: 15081030-01A MSD			Units: µg/Kg		Analysis Date: 8/21/2015 12:07 PM	
Client ID:			Run ID: VMS5_150820A			SeqNo: 3426785		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	1036	30	1000	0	104	70-135	986	4.99	30		
1,1,2,2-Tetrachloroethane	1060	30	1000	0	106	55-130	1059	0.0472	30		
1,1,2-Trichloroethane	844	30	1000	0	84.4	60-125	820	2.88	30		
1,1-Dichloroethane	1018	30	1000	0	102	75-125	973.5	4.42	30		
1,1-Dichloroethene	1162	30	1000	0	116	65-135	1130	2.75	30		
1,2-Dichloroethane	914	30	1000	0	91.4	70-135	876.5	4.19	30		
1,2-Dichloropropane	958	30	1000	0	95.8	70-120	926	3.4	30		
2-Butanone	1560	200	1000	0	156	30-160	1522	2.4	30		
2-Hexanone	5722	30	1000	0	572	45-145	7086	21.3	30	SE	
4-Methyl-2-pentanone	861.5	30	1000	0	86.2	74-176	799.5	7.47	30		
Acetone	2048	100	1000	0	205	20-160	1917	6.63	30	S	
Benzene	1011	30	1000	0	101	75-125	973	3.83	30		
Bromodichloromethane	881.5	30	1000	0	88.2	70-130	859	2.59	30		
Bromoform	793.5	30	1000	0	79.4	55-135	754.5	5.04	30		
Bromomethane	1181	75	1000	0	118	30-160	960	20.6	30		
Carbon disulfide	984.5	30	1000	0	98.4	45-160	933.5	5.32	30		
Carbon tetrachloride	1016	30	1000	0	102	65-135	973.5	4.32	30		
Chlorobenzene	923	30	1000	0	92.3	75-125	899.5	2.58	30		
Chloroethane	1111	100	1000	0	111	40-155	1020	8.49	30		
Chloroform	951.5	30	1000	0	95.2	70-125	910	4.46	30		
Chloromethane	1238	100	1000	0	124	50-130	1224	1.14	30		
cis-1,2-Dichloroethene	1007	30	1000	0	101	65-125	980	2.72	30		
cis-1,3-Dichloropropene	920	30	1000	0	92	70-125	863.5	6.34	30		
Dibromochloromethane	804.5	30	1000	0	80.4	65-135	768	4.64	30		
Ethylbenzene	997	30	1000	65.5	93.2	75-125	955	4.3	30		
m,p-Xylene	2003	60	2000	327	83.8	80-125	1962	2.04	30		
Methylene chloride	1073	30	1000	0	107	55-145	1040	3.17	30		
o-Xylene	961	30	1000	66	89.5	75-125	942	2	30		
Styrene	936	30	1000	0	93.6	75-125	905.5	3.31	30		
Tetrachloroethene	1607	30	1000	0	161	64-140	1496	7.12	30	S	
Toluene	989.5	30	1000	0	99	70-125	957.5	3.29	30		
trans-1,2-Dichloroethene	1064	30	1000	0	106	65-135	1034	2.86	30		
trans-1,3-Dichloropropene	851	30	1000	0	85.1	65-125	805	5.56	30		
Trichloroethene	1052	30	1000	0	105	75-125	989	6.17	30		
Vinyl chloride	1249	30	1000	0	125	60-125	1201	3.92	30		
Xylenes, Total	2964	90	3000	396	85.6	75-125	2904	2.03	30		
Surr: 1,2-Dichloroethane-d4	982.5	0	1000	0	98.2	70-130	983	0.0509	30		
Surr: 4-Bromofluorobenzene	1009	0	1000	0	101	70-130	1031	2.16	30		
Surr: Dibromofluoromethane	959	0	1000	0	95.9	70-130	971.5	1.3	30		
Surr: Toluene-d8	993	0	1000	0	99.3	70-130	1010	1.7	30		

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75099** Instrument ID **WETCHEM** Method: **USDA H60 Method**

<b>DUP</b>		Sample ID: <b>15081030-02C DUP</b>				Units: <b>mmhos/cm @25°C</b>		Analysis Date: <b>8/24/2015 02:15 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150824G</b>				SeqNo: <b>3429231</b>		Prep Date: <b>8/24/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	11.45	0.050	0	0	0		10.48	8.85	50	

The following samples were analyzed in this batch:

15081016-01B	15081016-02B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75107** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-75107-75107</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/21/2015 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150821H</b>				SeqNo: <b>3427785</b>		Prep Date: <b>8/20/2015</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 1.0

<b>LCS</b>		Sample ID: <b>LCS-75107-75107</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/21/2015 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150821H</b>				SeqNo: <b>3427784</b>		Prep Date: <b>8/20/2015</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 5.2 1.0 5 0 104 80-120 0

<b>MS</b>		Sample ID: <b>1508869-05A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/21/2015 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150821H</b>				SeqNo: <b>3427780</b>		Prep Date: <b>8/20/2015</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 2.336 0.93 4.673 0.181 46.1 75-125 0 S

<b>MS</b>		Sample ID: <b>1508869-05A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/21/2015 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150821H</b>				SeqNo: <b>3427782</b>		Prep Date: <b>8/20/2015</b>		DF: <b>100</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2422 98 2587 0.181 93.6 75-125 0

<b>MSD</b>		Sample ID: <b>1508869-05A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/21/2015 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150821H</b>				SeqNo: <b>3427781</b>		Prep Date: <b>8/20/2015</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 3.366 0.99 4.95 0.181 64.3 75-125 2.336 36.1 20 SR

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **75166**      Instrument ID **WETCHEM**      Method: **SW9045D**

LCS					Sample ID: LCS-75166-75166					Units: s.u.			Analysis Date: 8/24/2015 01:15 PM				
Client ID:					Run ID: WETCHEM_150824I					SeqNo: 3429444			Prep Date: 8/24/2015			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value		%RPD	RPD Limit	Qual
pH					3.97		0	4	0	99.2		90-110	0				

DUP					Sample ID: 15081016-01A DUP		Units: s.u.		Analysis Date: 8/24/2015 01:15 PM		
Client ID: South Stockpile				Run ID: WETCHEM_150824I			SeqNo: 3429447		Prep Date: 8/24/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.18	0	0	0	0	0-0	8.02	1.98	20		

DUP				Sample ID: 15081117-01A DUP				Units: s.u.			Analysis Date: 8/24/2015 01:15 PM			
Client ID:				Run ID: WETCHEM_150824I				SeqNo: 3429457			Prep Date: 8/24/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	8.25	0	0	0	0	0-0	8.23	0.243	20					

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

## QC BATCH REPORT

Batch ID: **R170085**      Instrument ID **MOIST**      Method: **E160.3M**

<b>MBLK</b>		Sample ID: <b>WBLKS-R170085</b>				Units: % of sample		Analysis Date: <b>8/20/2015 08:40 AM</b>		
Client ID:		Run ID: <b>MOIST_150820B</b>				SeqNo: <b>3426878</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-R170085</b>				Units: % of sample		Analysis Date: <b>8/20/2015 08:40 AM</b>		
Client ID:		Run ID: <b>MOIST_150820B</b>				SeqNo: <b>3426876</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>15081043-01A DUP</b>				Units: % of sample		Analysis Date: <b>8/20/2015 08:40 AM</b>		
Client ID:		Run ID: <b>MOIST_150820B</b>				SeqNo: <b>3426840</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      5.87      0.050      0      0      0      6.24      6.11      20

<b>DUP</b>		Sample ID: <b>1508996-03B DUP</b>				Units: % of sample		Analysis Date: <b>8/20/2015 08:40 AM</b>		
Client ID:		Run ID: <b>MOIST_150820B</b>				SeqNo: <b>3426851</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      34.77      0.050      0      0      0      35.53      2.16      20

The following samples were analyzed in this batch:

15081016-01A	15081016-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15081016  
**Project:** Caerus Parachute Creek 5 Soil Disposal Samples

**QC BATCH REPORT**

Batch ID: **R170227**      Instrument ID **WETCHEM**      Method: **SW1010A**

LCS		Sample ID: LCS-R170227-R170227				Units: °F		Analysis Date: 8/24/2015 08:30 AM		
Client ID:		Run ID: WETCHEM_150824M		SeqNo: 3429623		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	81	0	81	0	100	97-103	0			

**The following samples were analyzed in this batch:**

15081016-01A	15081016-02A
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**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 #

15081016

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME	Caerus Parachute Creek 5 Soil Disposal Samples	SAMPLER	Reed Wold	DATE	8/18/2015	TURNAROUND	5-DAY
PROJECT No.		SITE ID	Parachute Creek 5				
COMPANY NAME	HRL Compliance	EDD FORMAT					
SEND REPORT TO	Casey Richardson Janicek	PURCHASE ORDER					
ADDRESS	2385 F 1/2 Rd	BILL TO COMPANY	Caerus Piceance, LLC				
CITY/STATE/ZIP	Grand Junction, CO 81505	INVOICE ATTN TO	Jake Janicek				
PHONE	970-243-3271	ADDRESS	120 N. Railroad, Suite D				
FAX	970-243-3280	CITY/STATE/ZIP	Parachute, CO 81635				
E-MAIL	Crichardson@hrlcomp.com Rwold@hrlcomp.com JJanicek@caerusoilandgas.com	PHONE	970-285-9606				
E-MAIL	Invoices@caerusoilandgas.com JJanicek@caerusoilandgas.com	FAX					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	South stockpile	SO	8/18/2015	11:45	3	8	
2	North stockpile	SO	8/18/2015	11:00	3	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)
2.6°C	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
Preservative Key:	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE	PRINTED NAME	DATE	TIME
Reed Wold	Reed Wold	8/18/2015	12:40
Wold	Wold	8-18-15	1:28
Wold	Wold	8-18-15	2:50
Wold	Wold		
Wold	Wold		



ORIGIN ID: RILA (816) 298-1033  
 NICK MARTINEZ  
 ALS ENVIRONMENTAL PARACHUTE  
 PARACHUTE SERVICE CENTER  
 127 EAST 1ST ST  
 PARACHUTE, CO 81635  
 UNITED STATES US

SHIP DATE: 18AUG15  
 ACTWGT: 30.00 LB  
 CAD: 2264840/NET 3870  
 DIMS: 21x12x12 IN  
 BILL SENDER

TO **SAMPLE RECEIVING**  
**ALS ENVIRONMENTAL HOLLAND LAB**  
**3352 128TH AVE**

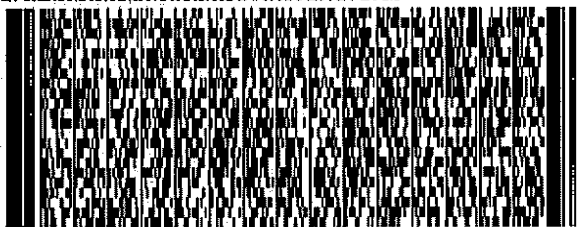
**HOLLAND MI 49424**

(616) 399-6070  
 INV:  
 PO: PARACHUTE

REF: 081815-1

DEPT:

536J1FE0A3100



**FedEx**  
 Express



REL#  
 3785346

2 of 2

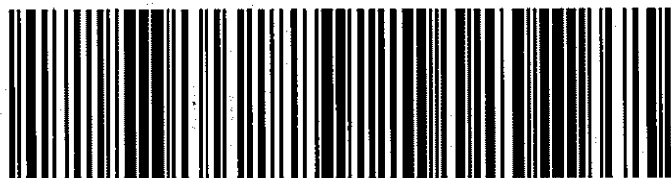
**WED - 19 AUG 10:30A**  
**PRIORITY OVERNIGHT**

MP6#  
 0283 **7743 1279 9957**  
 Mstr# **7743 1279 9876**

0201

**XX HLMA**

**49424**  
**MI-US GRR**



**After printing this label:**

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

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Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 19-Aug-15 21:50

Work Order: 15081016

Received by: LA

Checklist completed by Diane Shaw 20-Aug-15  
eSignature Date

Reviewed by: Lee Arnold 20-Aug-15  
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.6/2.6 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>8/20/2015 8:32:46 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u></u>		

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Friday, September 04, 2015

Les Arnold  
ALS Environmental  
3352 128th Avenue  
Holland, MI 49424

Re: ALS Workorder: 1508416  
Project Name:  
Project Number: 15081016

Dear Mr. Arnold:

Two soil samples were received from ALS Environmental, on 8/25/2015. The samples were scheduled for the following analysis:

Gross Alpha/Beta

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental  
Jeff R. Kujawa  
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



**1508416**

**Gross Alpha/Beta:**

The samples were analyzed for gross alpha and beta activity by gas flow proportional counting according to the current revision of SOP 724. Gross alpha results are referenced to  $^{241}\text{Am}$ . Gross beta results are referenced to  $^{90}\text{Sr/Y}$ .

All acceptance criteria were met.

# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

---

**OrderNum:** 1508416

**Client Name:** ALS Environmental

**Client Project Name:**

**Client Project Number:** 15081016

**Client PO Number:** 20-15081016

---

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
South Stockpile	1508416-1		SOIL	18-Aug-15	11:45
North Stockpile	1508416-2		SOIL	18-Aug-15	11:00

1508416



Environmental

## Subcontractor:

ALS Environmental, Fort Collins  
225 Commerce Dr.

TEL: (800) 443-1511

FAX:

Fort Collins, CO 80524

Acct #:

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: **20-Aug-15**COC ID: **5875**Due D **25-Aug-15**

Salesperson

Bruce Schlatter

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	15081016	A Subcontracted Analyses (SUBCONTRACT) <b>Gross Alpha/Beta</b>												
Work Order		Project Number		B												
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C												
Send Report To	Les Arnold	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	les.arnold@alsglobal.com	eMail CC	chad.whelton@alsglobal.com	J												
<b>ALS Sample ID</b>	<b>Client 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>		
15081016-01C	South Stockpile	Soil	18/Aug/2015 11:45	(1) 16OZGNEAT	X											

## Comments:

Please analyze enclosed samples for gross-Alpha &amp; gross-Beta.

**10 - day TAT**

Les Arnold

**08/20/2015**

GAY

8/25/15 11000

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time



Environmental

Subcontractor:

ALS Environmental, Fort Collins

225 Commerce Dr.

Fort Collins, CO 80524

TEL: (800) 443-1511

FAX:

Acct #:

# CHAIN-OF-CUSTODY RECORD

Page 2 of 1

Date: **20-Aug-15**

COC ID: **5875**

Due D **25-Aug-15**

Salesperson

**Bruce Schlatter**

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	15081016	A Subcontracted Analyses (SUBCONTRACT)
Work Order		Project Number		B
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C
Send Report To	Les Arnold	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	les.arnold@alsglobal.com	eMail CC	chad.whelton@alsglobal.com	J

ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
15081016-02C	North Stockpile	Soil	18/Aug/2015 11:00	(1) 16OZGNEAT	X									

## Comments:

Please analyze enclosed samples for gross-Alpha & gross-Beta.

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
		<i>SA</i>	<i>8/25/15 11:00</i>		<b>Std</b>
Relinquished by:	Date/Time	Received by:	Date/Time		





ALS Environmental - Fort Collins  
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: ALS MI

Workorder No: 1508416

Project Manager: JRW

Initials: SDM Date: 08-25-15

1. Does this project require any special handling in addition to standard ALS procedures?	YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?	<input checked="" type="radio"/> YES	YES NO
5. Are the COC and bottle labels complete and legible?	<input checked="" type="radio"/> YES	YES NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	<input checked="" type="radio"/> YES	YES NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF <input checked="" type="radio"/> YES	YES NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES NO
10. Is there sufficient sample for the requested analyses?	<input checked="" type="radio"/> YES	YES NO
11. Were all samples placed in the proper containers for the requested analyses?	<input checked="" type="radio"/> YES	YES NO
12. Are all samples within holding times for the requested analyses?	<input checked="" type="radio"/> YES	YES NO
13. Were all sample containers received intact? (not broken or leaking, etc.)	<input checked="" type="radio"/> YES	YES NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	<input checked="" type="radio"/> N/A	YES NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	<input checked="" type="radio"/> N/A	YES NO
16. Were the samples shipped on ice?	YES	<input checked="" type="radio"/> NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	<input checked="" type="radio"/> RAD ONLY	YES NO
Cooler #: <u>1</u>		
Temperature (°C): <u>Am6</u>		
No. of custody seals on cooler: <u>0</u>		
External µR/hr reading: <u>12</u>		
Background µR/hr reading: <u>12</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES NO / NA (If no, see Form 008.)		

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

If applicable, was the client contacted? YES / NO ☒ NO Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager Signature / Date: [Signature] 8-25-15

1508416

Date: 20Aug15  
Wgt: 7.15 LBS  
COD:  
DV:

SHIPPING:  
SPECIAL:  
HANDLING:  
0.00 TOTAL:

SIGND PPD  
TRACK: 625167957522

(616) 399-6070

ING  
S ENVIRONMENTAL  
3352 128TH AVENUE

HOLLAND MI 48424  
US

SHIP DATE: 20AUG15  
ACTWGT: 7.2 LB  
CAD: 0122071/CAFE280

BILL SENDER

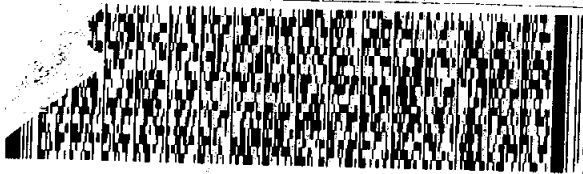
TO **SAMPLE RECEIVING  
ALS LABORATORY GROUP  
225 COMMERCE DR.**

**FORT COLLINS CO 80524**

(719) 443-1511

REF:

DEPT:



FedEx  
Ground



J14121407/300114

TRK# **6251 6795 7522**

80524

9622 0019 0 (000 041 4790) 1 00 6251 6795 7522



T 237 04:49 PR-1D 2650562  
ALS LABORATORY GROUP  
52101/FEU

G

(US)

**Client:** ALS Environmental  
**Project:** 15081016  
**Sample ID:** South Stockpile  
**Legal Location:**  
**Collection Date:** 8/18/2015 11:45

**Date:** 04-Sep-15  
**Work Order:** 1508416  
**Lab ID:** 1508416-1  
**Matrix:** SOIL  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Gross Alpha/Beta by GFPC</b>						
			<b>PAI 724</b>		Prep Date: <b>9/2/2015</b>	PrepBy: <b>JKB</b>
GROSS ALPHA	14.9 (+/- 5.3)	M3	4.2	pCi/g	NA	9/3/2015 11:58
GROSS BETA	7.1 (+/- 3)	M3	4.8	pCi/g	NA	9/3/2015 11:58

**Client:** ALS Environmental  
**Project:** 15081016  
**Sample ID:** North Stockpile  
**Legal Location:**  
**Collection Date:** 8/18/2015 11:00

**Date:** 04-Sep-15  
**Work Order:** 1508416  
**Lab ID:** 1508416-2  
**Matrix:** SOIL  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Gross Alpha/Beta by GFPC</b>			<b>PAI 724</b>		Prep Date: <b>9/2/2015</b>	PrepBy: <b>JKB</b>
<b>GROSS ALPHA</b>	<b>7.1 (+/- 3.5)</b>	M3	<b>3.9</b>	<b>pCi/g</b>	NA	9/3/2015 11:58
<b>GROSS BETA</b>	<b>5.9 (+/- 2.6)</b>	M3	<b>4.2</b>	<b>pCi/g</b>	NA	9/3/2015 11:58

**Client:** ALS Environmental  
**Project:** 15081016  
**Sample ID:** North Stockpile  
**Legal Location:**  
**Collection Date:** 8/18/2015 11:00

**Date:** 04-Sep-15  
**Work Order:** 1508416  
**Lab ID:** 1508416-2  
**Matrix:** SOIL  
**Percent Moisture:**

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

### Explanation of Qualifiers

#### Radiochemistry:

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

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

#### Inorganics:

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

#### Organics:

U or ND - Indicates that the compound was analyzed for but not detected.  
B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.  
E - Analyte concentration exceeds the upper level of the calibration range.  
J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).  
A - A tentatively identified compound is a suspected aldol-condensation product.  
X - The analyte was diluted below an accurate quantitation level.  
\* - The spike recovery is equal to or outside the control criteria used.  
+ - The relative percent difference (RPD) equals or exceeds the control criteria.  
G - A pattern resembling gasoline was detected in this sample.  
D - A pattern resembling diesel was detected in this sample.  
M - A pattern resembling motor oil was detected in this sample.  
C - A pattern resembling crude oil was detected in this sample.  
4 - A pattern resembling JP-4 was detected in this sample.  
5 - A pattern resembling JP-5 was detected in this sample.  
H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.  
L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.  
Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:  
- gasoline  
- JP-8  
- diesel  
- mineral spirits  
- motor oil  
- Stoddard solvent  
- bunker C

## ALS Environmental -- FC

Date: 9/4/2015 11:38:

Client: ALS Environmental

## QC BATCH REPORT

Work Order: 1508416

Project: 15081016

Batch ID: AB150902-1-1

Instrument ID: LB4100-C

Method: Gross Alpha/Beta by GFPC

<b>DUP</b>	Sample ID: <b>1508416-1</b>			Units: <b>pCi/g</b>			Analysis Date: <b>9/3/2015 11:58</b>					
Client ID: <b>South Stockpile</b>	Run ID: <b>AB150902-1A</b>				Prep Date: <b>9/2/2015</b>		DF: <b>NA</b>					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual	
GROSS ALPHA	10.5 (+/- 4.3)	4.1						14.9	0.6	2.1	M3	
GROSS BETA	5.9 (+/- 2.7)	4.5						7.1	0.3	2.1	M3	

<b>LCS</b>	Sample ID: <b>AB150902-1</b>			Units: <b>pCi/g</b>			Analysis Date: <b>9/3/2015 12:26</b>					
Client ID:	Run ID: <b>AB150902-1A</b>				Prep Date: <b>9/2/2015</b>		DF: <b>NA</b>					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual	
GROSS ALPHA	17.8 (+/- 3.4)	0.6	14.94		119	70-130					P	
GROSS BETA	14.2 (+/- 2.5)	1.1	13.67		104	70-130					P	

<b>MB</b>	Sample ID: <b>AB150902-1</b>			Units: <b>pCi/g</b>			Analysis Date: <b>9/3/2015 12:26</b>					
Client ID:	Run ID: <b>AB150902-1A</b>				Prep Date: <b>9/2/2015</b>		DF: <b>NA</b>					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual	
GROSS ALPHA	ND	0.5									U	
GROSS BETA	ND	0.61									U	

<b>MS</b>	Sample ID: <b>1508416-2</b>			Units: <b>pCi/g</b>			Analysis Date: <b>9/3/2015 11:58</b>					
Client ID: <b>North Stockpile</b>	Run ID: <b>AB150902-1A</b>				Prep Date: <b>9/2/2015</b>		DF: <b>NA</b>					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual	
GROSS ALPHA	23.6 (+/- 6.9)	4	14.81	7.1	111	70-130					P,M3	
GROSS BETA	19.6 (+/- 4.9)	4.8	13.55	5.9	101	70-130					P,M3	

The following samples were analyzed in this batch:

1508416-1 1508416-2



30-Jul-2013

Herman Lucero  
HRL Compliance Solutions  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **Caerus Chevron 41-8D 13-199 7/22/13**

Work Order: **1307799**

Dear Herman,

ALS Environmental received 3 samples on 23-Jul-2013 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 14.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

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

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

Environmental 

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

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** HRL Compliance Solutions  
**Project:** Caerus Chevron 41-8D 13-199 7/22/13  
**Work Order:** 1307799

---

**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>
1307799-01	BKGD 1	Soil		7/22/2013 13:45	7/23/2013 10:00	<input type="checkbox"/>
1307799-02	BKGD 2	Soil		7/22/2013 13:35	7/23/2013 10:00	<input type="checkbox"/>
1307799-03	BKGD 3	Soil		7/22/2013 13:30	7/23/2013 10:00	<input type="checkbox"/>

---



**Client:** HRL Compliance Solutions  
**Project:** Caerus Chevron 41-8D 13-199 7/22/13  
**WorkOrder:** 1307799

## **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 is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

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

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

**ALS Group USA, Corp**

Date: 30-Jul-13

Client: HRL Compliance Solutions

Project: Caerus Chevron 41-8D 13-199 7/22/13

Sample ID: BKGD 1

Collection Date: 7/22/2013 01:45 PM

Work Order: 1307799

Lab ID: 1307799-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>7/25/2013</b>	Analyst: <b>ML</b>
Arsenic	39		9.2	mg/Kg-dry	5	7/27/2013 02:20 AM
<b>SOLUBLE CATIONS FOR SAR</b>			<b>SW6020A</b>		Prep Date: <b>7/25/2013</b>	Analyst: <b>RH</b>
Calcium	81		10	mg/L	20	7/26/2013 03:49 PM
Magnesium	28		4.0	mg/L	20	7/26/2013 03:49 PM
Sodium	120		4.0	mg/L	20	7/26/2013 03:49 PM
<b>SODIUM ADSORPTION RATIO</b>			<b>USDA H60 METHO</b>		Prep Date: <b>7/25/2013</b>	Analyst: <b>RH</b>
Sodium Adsorption Ratio	2.8		0.010	none	1	7/26/2013
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep Date: <b>7/25/2013</b>	Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	1.2		0.050	mmhos/cm @25	10	7/25/2013 03:10 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>BD</b>
Moisture	82		0.050	% of sample	1	7/23/2013 12:40 PM
<b>PH</b>			<b>SW9045D</b>		Prep Date: <b>7/23/2013</b>	Analyst: <b>JB</b>
pH	9.1			s.u.	1	7/23/2013 11:00 AM

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

# ALS Group USA, Corp

Date: 30-Jul-13

**Client:** HRL Compliance Solutions

**Project:** Caerus Chevron 41-8D 13-199 7/22/13

**Sample ID:** BKGD 2

**Collection Date:** 7/22/2013 01:35 PM

**Work Order:** 1307799

**Lab ID:** 1307799-02

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>7/25/2013</b>	Analyst: <b>ML</b>
Arsenic	8.3		2.0	mg/Kg-dry	5	7/27/2013 02:44 AM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>BD</b>
Moisture	7.3		0.050	% of sample	1	7/23/2013

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

# ALS Group USA, Corp

Date: 30-Jul-13

**Client:** HRL Compliance Solutions

**Project:** Caerus Chevron 41-8D 13-199 7/22/13

**Sample ID:** BKGD 3

**Collection Date:** 7/22/2013 01:30 PM

**Work Order:** 1307799

**Lab ID:** 1307799-03

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>			<b>SW6020A</b>		Prep Date: <b>7/25/2013</b>	Analyst: <b>ML</b>
Arsenic	8.6		1.8	mg/Kg-dry	5	7/27/2013 02:50 AM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>BD</b>
Moisture	5.2		0.050	% of sample	1	7/23/2013

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

Client: HRL Compliance Solutions

Work Order: 1307799

Project: Caerus Chevron 41-8D 13-199 7/22/13

## QC BATCH REPORT

Batch ID: 50013

Instrument ID ICPMS1

Method: SW6020A

<b>MBLK</b>	Sample ID: <b>MBLK-50013-50013</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/26/2013 02:01 PM</b>		
Client ID:	Run ID: <b>ICPMS1_130726A</b>				SeqNo: <b>2392468</b>		Prep Date: <b>7/25/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.03916	0.25								J

<b>LCS</b>	Sample ID: <b>LCS-50013-50013</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/26/2013 02:07 PM</b>		
Client ID:	Run ID: <b>ICPMS1_130726A</b>				SeqNo: <b>2392469</b>		Prep Date: <b>7/25/2013</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.799	0.25	5	0	96	80-120	0			

<b>MS</b>	Sample ID: <b>1307769-02BMS</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/26/2013 02:19 PM</b>		
Client ID:	Run ID: <b>ICPMS1_130726A</b>				SeqNo: <b>2392471</b>		Prep Date: <b>7/25/2013</b>		DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.8	1.9	7.418	5.276	101	75-125	0			

<b>MSD</b>	Sample ID: <b>1307769-02BMSD</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>7/26/2013 02:25 PM</b>		
Client ID:	Run ID: <b>ICPMS1_130726A</b>				SeqNo: <b>2392472</b>		Prep Date: <b>7/25/2013</b>		DF: <b>5</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.82	1.9	7.645	5.276	112	75-125	12.8	7.68	25	

The following samples were analyzed in this batch:

1307799-01A	1307799-02A	1307799-03A
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**Client:** HRL Compliance Solutions  
**Work Order:** 1307799  
**Project:** Caerus Chevron 41-8D 13-199 7/22/13

## QC BATCH REPORT

Batch ID: **49915** Instrument ID **WETCHEM** Method: **USDA H60 Method**

<b>DUP</b>		Sample ID: <b>1307634-01B DUP</b>				Units: <b>mmhos/cm @25°C</b>		Analysis Date: <b>7/25/2013 03:10 PM</b>		
Client ID:		Run ID: <b>WETCHEM_130725J</b>				SeqNo: <b>2390794</b>		Prep Date: <b>7/25/2013</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.583	0.050	0	0	0		1.847	15.4	50	

The following samples were analyzed in this batch:

1307799-01B

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1307799  
**Project:** Caerus Chevron 41-8D 13-199 7/22/13

## QC BATCH REPORT

Batch ID: **49934** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-49934-49934				Units: s.u.			Analysis Date: 7/23/2013 11:00 AM			
Client ID:				Run ID: WETCHEM_130723L				SeqNo: 2388161			Prep Date: 7/23/2013		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		4.53	0	4.4	0	103	90-110	0						

DUP					Sample ID: 1307798-01B DUP					Units: s.u.			Analysis Date: 7/23/2013 11:00 AM		
Client ID:					Run ID: WETCHEM_130723L					SeqNo: 2388163		Prep Date: 7/23/2013		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					9.13	0	0	0	0	0-0	9.13	0	20		

The following samples were analyzed in this batch:

1307799-01A

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

**Client:** HRL Compliance Solutions  
**Work Order:** 1307799  
**Project:** Caerus Chevron 41-8D 13-199 7/22/13

## QC BATCH REPORT

Batch ID: **R124049** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R124049					Units: % of sample			Analysis Date: 7/23/2013 12:40 PM		
Client ID:		Run ID: MOIST_130723A					SeqNo: 2388372			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-R124049					Units: % of sample			Analysis Date: 7/23/2013 12:40 PM		
Client ID:		Run ID: MOIST_130723A			SeqNo: 2388371			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: 1307776-06A DUP					Units: % of sample			Analysis Date: 7/23/2013 12:40 PM		
Client ID:		Run ID: MOIST_130723A			SeqNo: 2388357			Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Moisture 48.63 0.050 0 0 0 0-0 49.35 1.47 20

DUP		Sample ID: 1307798-01B DUP					Units: % of sample		Analysis Date: 7/23/2013 12:40 PM		
Client ID:			Run ID: MOIST_130723A			SeqNo: 2388365		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 19.99 0.050 0 0 0 0-0 20.28 1.44 20

The following samples were analyzed in this batch:

1307799-01A

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



**Client:** HRL Compliance Solutions  
**Work Order:** 1307799  
**Project:** Caerus Chevron 41-8D 13-199 7/22/13

# QC BATCH REPORT

Batch ID: **R124058**      Instrument ID **MOIST**      Method: **A2540 G**

<b>MBLK</b>		Sample ID: <b>WBLKS-R124058</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388576</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-R124058</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388574</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>1307794-01B DUP</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388528</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      15.1      0.050      0      0      0      0-0      15.45      2.29      20

<b>DUP</b>		Sample ID: <b>1307801-04A DUP</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388551</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      32.26      0.050      0      0      0      0-0      31.81      1.4      20

The following samples were analyzed in this batch:

1307799-02A      1307799-03A

**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  
#

1307799

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

CAERUS CHEVRON 41-8D

SAMPLER

Casey Richardson

DATE

7-22-13

TURNAROUND

5 DAY

PROJECT No.

13-199

SITE ID

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HCSI

BILL TO COMPANY

PDC Energy

SEND REPORT TO

Herman Lucero

INVOICE ATTN TO

Ed Winters

ADDRESS

2385 F 1/2 Road

ADDRESS

120 Railroad Ave. Suite D

CITY / STATE / ZIP

Grand Junction, CO. 81505

CITY / STATE / ZIP

Parachute, CO 81635

PHONE

970-243-3271

PHONE

970-285-9606

FAX

970-243-3280

FAX

E-MAIL

hlucero@hrlcomp.com

E-MAIL

ewinters@peld.com

Lab ID

Field ID

Matrix

Sample  
Date

Sample  
Time

#  
Bottles

Pres.

QC

SAR/EC/PH  
ARSENIC

1

BKGD 1

SOIL

7-22-13

1345

2

8

X

X

2

BKGD 2

SOIL

7-22-13

1335

1

8

X

3

BKGD 3

SOIL

7-22-13

1330

1

8

X

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

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

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

Casey Richardson

Casey Richardson

7-22-13

1625

RECEIVED BY

Colby Koerner

Colby Koerner

7/22/13

1625

RELINQUISHED BY

Colby Koerner

Colby Koerner

7/22/13

1625

RECEIVED BY

Fed Ex

RELINQUISHED BY

Diane F Shaw

Diane F Shaw

7/23/13

1000

RECEIVED BY

# ALS Group USA, Corp

## Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **23-Jul-13 10:00**

Work Order: **1307799**

Received by: **DS**

Checklist completed by *Diane Shaw* 23-Jul-13  
eSignature Date

Reviewed by: *Ann Preston* 28-Jul-13  
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>7/23/2013 10:56:26 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

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

Origin ID: RILA



127 E First Street

PARACHUTE, CO 81635



J13111302120326

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving  
ALS Holland  
3352 128TH AVE

HOLLAND, MI 49424

Ship Date: 22JUL13  
ActWgt: 80.0 LB  
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code



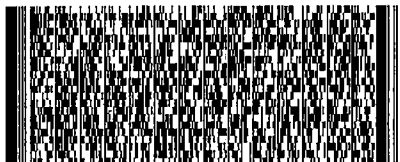
Ref # 1001-072213-3  
Invoice #  
PO #  
Dept #

TUE - 23 JUL 3:00P  
STANDARD OVERNIGHT

TRK# 7962 8879 8431  
0201

**XX GRRR**

**49424**  
MI-US  
GRR



518G1/AA04/63AB

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