Starkey 4 (Puckett 22C-31D) (Location ID 335390)
Partially Buried Vessel Removal (Non-Facility ID 435740)
Form 4 (Notice of Completion)
Narrative Attachment

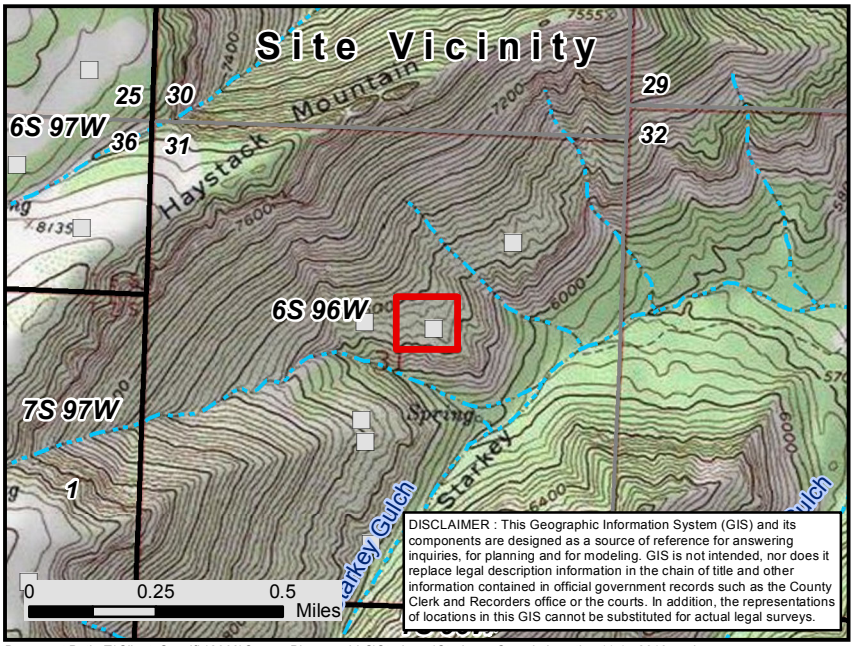
This Form 4 (Notice of Completion) was prepared for the purpose of describing completed work associated with the assessment of soil during the removal of a partially buried vessel (PBV) (Non-Facility ID 435740) at the Starkey 4 (Puckett 22C-31D) (Location ID 335390) in the Caerus Piceance, LLC (Caerus) area of operations. This assessment was conducted using procedures approved under Colorado Oil and Gas Conservation Commission (COGCC) Remediation #8164. A Form 19 was submitted to the COGCC, but at the time of reporting, a spill/release tracking number had not been assigned. However, based on analytical data, Carlos Lujan of the COGCC approved the closure of this project without this tracking number. A Sample Location Map is included as an attachment to this form.

Upon removing the PBV from the ground, visual observations and field screening of soil around and below the tank indicated that impacted soil was present. Excavation of the impacted soil was conducted and field screen readings were utilized to determine the extent of the impacts.

On July 23 and 31, 2013 confirmation soil samples were collected from the soil around and beneath the removed PBV (North Wall, 3.5', Footprint, 6', West Wall, 3.5', East Wall, 3', and South Wall, 3'). Soil samples were submitted for laboratory analysis of all COGCC Table 910-1 analytes. Analytical results indicate all soil samples were in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations. Background samples were collected from an area south of the pad surface. Sample locations are depicted on the attached Sample Location Map and laboratory analytical results are summarized in the attached analytical table. Laboratory analytical reports are included as an attachment.

All impacted soil removed during excavation activities was remediated onsite to below COGCC Table 910-1 Concentration Levels by utilizing ex-situ remediation technologies. On August 2, 2013, a confirmation soil sample was collected from the removed soil (Backfill Confirmation). The soil sample was submitted for laboratory analysis of all COGCC Table 910-1 analytes. Analytical results indicate the confirmation soil sample was in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations except for the electrical conductivity measurement (7.4 millimhos per centimeter). However, this soil was used to backfill the excavation which is under a lined containment and will not be re-vegetated for many years. Laboratory analytical results are summarized in the attached analytical table and laboratory analytical reports are included as an attachment.

Based on removal of the PBV and soil analytical results, Caerus requests an NFA designation for this project.



DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.

CAERUS OIL AND GAS LLC

Sample Location Map

Location: Puckett 22C-31D

39.481229 -108.148944
T6S R96W Sec 31 SW NE

- Sample Locations
- Caerus Pad
- Perennial Stream
- Intermittent Stream
- Roads
- Township
- Section
- Excavation Area

N

0 50 100 Feet

HCSI ENVIRONMENTAL CONSULTANTS
HRL COMPLIANCE SOLUTIONS, INC.

Document Path: T:\Client_Specific\2008\Caerus Piceance LLC\Starkey 4\Starkey 4 Sample Location 11-15-2013.mxd

Date: 11/15/2013 bhall

Caerus Piceance LLC
Starkey 4 Partially Buried Vault Removal
Soil Sample Confirmation and Background Analytical Results

			Sample ID									
COGCC Table 910-1 Analytical Suite	**Table 910-1 Standard**	**Units**	**North Wall, 3.5'**	**South Wall, 3'**	**East Wall, 3'**	**West Wall, 3.5'**	**Footprint, 6'**	**Footprint, 6'**	**Backfill Confirmation**	**BKGD 1**	**BKGD 2**	**BKGD 3**
Sample Date			**7/23/2013**	**7/23/2013**	**7/23/2013**	**7/23/2013**	**7/23/2013**	**7/31/2013**	**8/2/2013**	**7/29/2013**	**7/29/2013**	**7/29/2013**
Organics												
TEPH (DRO)	**500**	**mg/kg**	ND	32	ND	ND	ND	NA	160	NA	NA	NA
TVPH (GRO)	**500**	**mg/kg**	ND	ND	ND	ND	ND	NA	48	NA	NA	NA
TPH	**500**	**mg/kg**	ND	32	ND	ND	ND	NA	208	NA	NA	NA
BENZENE	**0.17**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
TOLUENE	**85**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
ETHYLBENZENE	**100**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
XYLENE TOTAL	**175**	**mg/kg**	ND	ND	ND	ND	ND	NA	0.19	NA	NA	NA
ACENAPHTHENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
ANTHRACENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
BENZO(A)ANTRHACENE	**0.22**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
BENZO(A)PYRENE	**0.022**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
BENZO(B)FLUORANTHENE	**0.22**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
BENZO(K)FLUORANTHENE	**2.2**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
CHRYSENE	**22**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
DIBENZO(A,H)ANTHRANCENE	**0.022**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
FLUORANTHENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
FLUORENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	**0.22**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
NAPHTHALENE	**23**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
PYRENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
Metals												
MERCURY	**23**	**mg/kg**	0.038	0.040	0.047	0.037	0.049	NA	0.052	NA	NA	NA
ARSENIC	**0.39**	**mg/kg**	10	8.6	9.4	12.0	11	NA	7.9	11	13	20
BARIUM	**15,000**	**mg/kg**	970	410	600	1,500	260	NA	960	NA	NA	NA
CADMIUM	**70**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
CHROMIUM (III)	**120,000**	**mg/kg**	11	11	10	9.9	11	NA	11	NA	NA	NA
CHROMIUM (VI)	**23**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
COPPER	**3,100**	**mg/kg**	17	15	14	16	17	NA	15	NA	NA	NA
LEAD	**400**	**mg/kg**	16	13	13	14	15	NA	12	NA	NA	NA
NICKEL	**1,600**	**mg/kg**	26	18	19	22	23	NA	19	NA	NA	NA
SELENIUM	**390**	**mg/kg**	ND	ND	ND	ND	1.6	NA	ND	NA	NA	NA
SILVER	**390**	**mg/kg**	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
ZINC	**23,000**	**mg/kg**	78	81	72	74	78	NA	59	NA	NA	NA
Inorganics												
Sodium Absorption Ratio	**<12**	**unitless**	0.67	1.8	0.95	1.2	NA	3.1	2.5	1.0	NA	NA
Electric Conductivity	**<4mmhos/cm or 2x background**	**mmhos/cm**	3.4	2.0	0.46	0.81	NA	0.83	7.4	0.57	NA	NA
pH	**6 to 9**	**SU**	7.8	8.7	8.6	8.8	8.5	NA	7.9	8.90	NA	NA

Notes:

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

TEPH - total petroleum hydrocarbons - Diesel range organics

TVPH - total petroleum hydrocarbons - gasoline range organics

TPH - total petroleum hydrocarbons (TEPH and TVPH combined)

COGCC - Colorado Oil and Gas Conservation Commission

30-Jul-2013

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

Re: **Caerus Starkey 4 Tank Removal 13-199-5 7/23/13** Work Order: **1307969**

Dear Herman,

ALS Environmental received 5 samples on 26-Jul-2013 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 30.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13
Work Order: **1307969**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307969-01	North Wall, 3.5'	Soil		7/23/2013 14:40	7/26/2013 09:30	☐
1307969-02	South Wall, 3'	Soil		7/23/2013 15:38	7/26/2013 09:30	☐
1307969-03	East Wall, 3'	Soil		7/23/2013 14:45	7/26/2013 09:30	☐
1307969-04	West Wall, 3.5'	Soil		7/23/2013 15:35	7/26/2013 09:30	☐
1307969-05	Footprint, 6'	Soil		7/23/2013 14:30	7/26/2013 09:30	☐

ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13
Work Order: 1307969

Case Narrative

Batch 50035 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 50044 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

The SAR analyses could not be run on sample 1307969-05. It was mostly rocks. There was not enough soil.

ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13
WorkOrder: **1307969**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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

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

ALS Group USA, Corp

Date: *30-Jul-13*

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: North Wall, 3.5' **Lab ID:** 1307969-01
Collection Date: 7/23/2013 02:40 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/26/2013**	Analyst: **RD**
DRO (C10-C28)	ND		5.5	mg/Kg-dry	1	7/26/2013 07:18 PM
Surr: 4-Terphenyl-d14	*63.1*		*39-115*	*%REC*	1	7/26/2013 07:18 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep Date: **7/26/2013**	Analyst: **RD**
GRO (C6-C10)	ND		3.3	mg/Kg-dry	1	7/26/2013 05:28 PM
Surr: Toluene-d8	*111*		*50-150*	*%REC*	1	7/26/2013 05:28 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2013**	Analyst: **LR**
Mercury	**0.038**		**0.018**	**mg/Kg-dry**	1	7/26/2013 03:56 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/26/2013**	Analyst: **ML**
Arsenic	**10**		**2.5**	**mg/Kg-dry**	5	7/26/2013 06:16 PM
Barium	**970**		**25**	**mg/Kg-dry**	50	7/29/2013 02:30 PM
Cadmium	ND		0.98	mg/Kg-dry	5	7/26/2013 06:16 PM
Chromium	**12**		**2.5**	**mg/Kg-dry**	5	7/26/2013 06:16 PM
Copper	**17**		**2.5**	**mg/Kg-dry**	5	7/26/2013 06:16 PM
Lead	**16**		**2.5**	**mg/Kg-dry**	5	7/26/2013 06:16 PM
Nickel	**26**		**2.5**	**mg/Kg-dry**	5	7/26/2013 06:16 PM
Selenium	ND		2.5	mg/Kg-dry	5	7/26/2013 06:16 PM
Silver	ND		2.5	mg/Kg-dry	5	7/26/2013 06:16 PM
Zinc	**78**		**4.9**	**mg/Kg-dry**	5	7/26/2013 06:16 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **7/29/2013**	Analyst: **RH**
Calcium	**310**		**10**	**mg/L**	20	7/29/2013 04:14 PM
Magnesium	**96**		**4.0**	**mg/L**	20	7/29/2013 04:14 PM
Sodium	**52**		**4.0**	**mg/L**	20	7/29/2013 04:14 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **RH**
Sodium Adsorption Ratio	**0.67**		**0.010**	**none**	1	7/29/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/26/2013**	Analyst: **HL**
Acenaphthene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM
Acenaphthylene	ND		39	µg/Kg-dry	1	7/26/2013 05:20 PM
Anthracene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM
Benzo(a)anthracene	ND		22	µg/Kg-dry	1	7/26/2013 05:20 PM
Benzo(a)pyrene	ND		22	µg/Kg-dry	1	7/26/2013 05:20 PM
Benzo(b)fluoranthene	ND		24	µg/Kg-dry	1	7/26/2013 05:20 PM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	7/26/2013 05:20 PM
Benzo(k)fluoranthene	ND		24	µg/Kg-dry	1	7/26/2013 05:20 PM
Chrysene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM
Dibenzo(a,h)anthracene	ND		24	µg/Kg-dry	1	7/26/2013 05:20 PM
Fluoranthene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM

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

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: North Wall, 3.5' **Lab ID:** 1307969-01
Collection Date: 7/23/2013 02:40 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM
Indeno(1,2,3-cd)pyrene	ND		26	µg/Kg-dry	1	7/26/2013 05:20 PM
Naphthalene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM
Pyrene	ND		20	µg/Kg-dry	1	7/26/2013 05:20 PM
Surr: 2-Fluorobiphenyl	*55.1*		*12-100*	*%REC*	1	7/26/2013 05:20 PM
Surr: 4-Terphenyl-d14	*88.5*		*25-137*	*%REC*	1	7/26/2013 05:20 PM
Surr: Nitrobenzene-d5	*52.0*		*37-107*	*%REC*	1	7/26/2013 05:20 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **7/26/2013**	Analyst: **AK**
Benzene	ND		40	µg/Kg-dry	1	7/26/2013 04:48 PM
Ethylbenzene	ND		40	µg/Kg-dry	1	7/26/2013 04:48 PM
m,p-Xylene	ND		80	µg/Kg-dry	1	7/26/2013 04:48 PM
o-Xylene	ND		40	µg/Kg-dry	1	7/26/2013 04:48 PM
Toluene	ND		40	µg/Kg-dry	1	7/26/2013 04:48 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	7/26/2013 04:48 PM
Surr: 1,2-Dichloroethane-d4	*98.2*		*70-130*	*%REC*	1	7/26/2013 04:48 PM
Surr: 4-Bromofluorobenzene	*103*		*70-130*	*%REC*	1	7/26/2013 04:48 PM
Surr: Dibromofluoromethane	*95.6*		*70-130*	*%REC*	1	7/26/2013 04:48 PM
Surr: Toluene-d8	*96.9*		*70-130*	*%REC*	1	7/26/2013 04:48 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**3.4**		**0.10**	**mmhos/cm @25**	20	7/30/2013 09:15 AM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**11**		**0.67**	**mg/Kg-dry**	1	7/29/2013 04:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/26/2013**	Analyst: **JB**
Chromium, Hexavalent	ND		0.67	mg/Kg-dry	1	7/29/2013 02:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**25**		**0.050**	**% of sample**	1	7/26/2013 11:00 AM
PH			**SW9045D**		Prep Date: **7/26/2013**	Analyst: **JJG**
pH	**7.8**			**s.u.**	1	7/26/2013 04:20 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: South Wall, 3' **Lab ID:** 1307969-02
Collection Date: 7/23/2013 03:38 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/26/2013**	Analyst: **RD**
DRO (C10-C28)	**32**		**4.8**	**mg/Kg-dry**	1	7/26/2013 07:48 PM
Surr: 4-Terphenyl-d14	*74.8*		*39-115*	*%REC*	1	7/26/2013 07:48 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep Date: **7/26/2013**	Analyst: **RD**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	7/26/2013 05:53 PM
Surr: Toluene-d8	*120*		*50-150*	*%REC*	1	7/26/2013 05:53 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2013**	Analyst: **LR**
Mercury	**0.040**		**0.019**	**mg/Kg-dry**	1	7/26/2013 04:09 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/26/2013**	Analyst: **ML**
Arsenic	**8.6**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
Barium	**410**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
Cadmium	ND		0.83	mg/Kg-dry	5	7/26/2013 06:22 PM
Chromium	**11**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
Copper	**15**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
Lead	**13**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
Nickel	**18**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
Selenium	ND		2.1	mg/Kg-dry	5	7/26/2013 06:22 PM
Silver	ND		2.1	mg/Kg-dry	5	7/26/2013 06:22 PM
Zinc	**81**		**4.2**	**mg/Kg-dry**	5	7/26/2013 06:22 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **7/29/2013**	Analyst: **RH**
Calcium	**120**		**10**	**mg/L**	20	7/29/2013 04:20 PM
Magnesium	**63**		**4.0**	**mg/L**	20	7/29/2013 04:20 PM
Sodium	**99**		**4.0**	**mg/L**	20	7/29/2013 04:20 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **RH**
Sodium Adsorption Ratio	**1.8**		**0.010**	**none**	1	7/29/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/26/2013**	Analyst: **HL**
Acenaphthene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM
Acenaphthylene	ND		34	µg/Kg-dry	1	7/26/2013 05:42 PM
Anthracene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM
Benzo(a)anthracene	ND		19	µg/Kg-dry	1	7/26/2013 05:42 PM
Benzo(a)pyrene	ND		19	µg/Kg-dry	1	7/26/2013 05:42 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	7/26/2013 05:42 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	7/26/2013 05:42 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	7/26/2013 05:42 PM
Chrysene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	7/26/2013 05:42 PM
Fluoranthene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: South Wall, 3' **Lab ID:** 1307969-02
Collection Date: 7/23/2013 03:38 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	7/26/2013 05:42 PM
Naphthalene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM
Pyrene	ND		17	µg/Kg-dry	1	7/26/2013 05:42 PM
Surr: 2-Fluorobiphenyl	*75.7*		*12-100*	*%REC*	1	7/26/2013 05:42 PM
Surr: 4-Terphenyl-d14	*115*		*25-137*	*%REC*	1	7/26/2013 05:42 PM
Surr: Nitrobenzene-d5	*71.9*		*37-107*	*%REC*	1	7/26/2013 05:42 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **7/26/2013**	Analyst: **AK**
Benzene	ND		34	µg/Kg-dry	1	7/26/2013 05:13 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	7/26/2013 05:13 PM
m,p-Xylene	ND		69	µg/Kg-dry	1	7/26/2013 05:13 PM
o-Xylene	ND		34	µg/Kg-dry	1	7/26/2013 05:13 PM
Toluene	ND		34	µg/Kg-dry	1	7/26/2013 05:13 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	7/26/2013 05:13 PM
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-130*	*%REC*	1	7/26/2013 05:13 PM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	7/26/2013 05:13 PM
Surr: Dibromofluoromethane	*96.5*		*70-130*	*%REC*	1	7/26/2013 05:13 PM
Surr: Toluene-d8	*96.0*		*70-130*	*%REC*	1	7/26/2013 05:13 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**2.0**		**0.050**	**mmhos/cm @25**	10	7/30/2013 09:15 AM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**11**		**0.57**	**mg/Kg-dry**	1	7/29/2013 04:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/26/2013**	Analyst: **JB**
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	7/29/2013 02:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**13**		**0.050**	**% of sample**	1	7/26/2013 11:00 AM
PH			**SW9045D**		Prep Date: **7/26/2013**	Analyst: **JJG**
pH	**8.7**			**s.u.**	1	7/26/2013 04:20 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: East Wall, 3' **Lab ID:** 1307969-03
Collection Date: 7/23/2013 02:45 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/26/2013**	Analyst: **RD**
DRO (C10-C28)	ND		4.8	mg/Kg-dry	1	7/26/2013 08:18 PM
Surr: 4-Terphenyl-d14	*74.3*		*39-115*	*%REC*	1	7/26/2013 08:18 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep Date: **7/26/2013**	Analyst: **RD**
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	7/26/2013 06:18 PM
Surr: Toluene-d8	*115*		*50-150*	*%REC*	1	7/26/2013 06:18 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2013**	Analyst: **LR**
Mercury	**0.047**		**0.017**	**mg/Kg-dry**	1	7/26/2013 04:11 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/26/2013**	Analyst: **ML**
Arsenic	**9.4**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
Barium	**600**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
Cadmium	ND		0.84	mg/Kg-dry	5	7/26/2013 06:28 PM
Chromium	**10**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
Copper	**14**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
Lead	**13**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
Nickel	**19**		**2.1**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
Selenium	ND		2.1	mg/Kg-dry	5	7/26/2013 06:28 PM
Silver	ND		2.1	mg/Kg-dry	5	7/26/2013 06:28 PM
Zinc	**72**		**4.2**	**mg/Kg-dry**	5	7/26/2013 06:28 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **7/29/2013**	Analyst: **RH**
Calcium	**37**		**10**	**mg/L**	20	7/29/2013 04:26 PM
Magnesium	**19**		**4.0**	**mg/L**	20	7/29/2013 04:26 PM
Sodium	**28**		**4.0**	**mg/L**	20	7/29/2013 04:26 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **RH**
Sodium Adsorption Ratio	**0.95**		**0.010**	**none**	1	7/29/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/26/2013**	Analyst: **HL**
Acenaphthene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	7/26/2013 06:05 PM
Anthracene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	7/26/2013 06:05 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	7/26/2013 06:05 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	7/26/2013 06:05 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	7/26/2013 06:05 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	7/26/2013 06:05 PM
Chrysene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	7/26/2013 06:05 PM
Fluoranthene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: East Wall, 3' **Lab ID:** 1307969-03
Collection Date: 7/23/2013 02:45 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	7/26/2013 06:05 PM
Naphthalene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM
Pyrene	ND		17	µg/Kg-dry	1	7/26/2013 06:05 PM
Surr: 2-Fluorobiphenyl	*64.7*		*12-100*	*%REC*	1	7/26/2013 06:05 PM
Surr: 4-Terphenyl-d14	*106*		*25-137*	*%REC*	1	7/26/2013 06:05 PM
Surr: Nitrobenzene-d5	*61.6*		*37-107*	*%REC*	1	7/26/2013 06:05 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **7/26/2013**	Analyst: **AK**
Benzene	ND		36	µg/Kg-dry	1	7/26/2013 05:37 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	7/26/2013 05:37 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	7/26/2013 05:37 PM
o-Xylene	ND		36	µg/Kg-dry	1	7/26/2013 05:37 PM
Toluene	ND		36	µg/Kg-dry	1	7/26/2013 05:37 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	7/26/2013 05:37 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	1	7/26/2013 05:37 PM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	1	7/26/2013 05:37 PM
Surr: Dibromofluoromethane	*98.6*		*70-130*	*%REC*	1	7/26/2013 05:37 PM
Surr: Toluene-d8	*100*		*70-130*	*%REC*	1	7/26/2013 05:37 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.46**		**0.050**	**mmhos/cm @25**	10	7/30/2013 09:15 AM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**10**		**0.59**	**mg/Kg-dry**	1	7/29/2013 04:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/26/2013**	Analyst: **JB**
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	7/29/2013 02:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**16**		**0.050**	**% of sample**	1	7/26/2013 11:00 AM
PH			**SW9045D**		Prep Date: **7/26/2013**	Analyst: **JJG**
pH	**8.6**			**s.u.**	1	7/26/2013 04:20 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: West Wall, 3.5' **Lab ID:** 1307969-04
Collection Date: 7/23/2013 03:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/26/2013**	Analyst: **RD**
DRO (C10-C28)	ND		5.2	mg/Kg-dry	1	7/26/2013 08:48 PM
Surr: 4-Terphenyl-d14	*52.3*		*39-115*	*%REC*	1	7/26/2013 08:48 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep Date: **7/26/2013**	Analyst: **RD**
GRO (C6-C10)	ND		3.2	mg/Kg-dry	1	7/26/2013 06:43 PM
Surr: Toluene-d8	*115*		*50-150*	*%REC*	1	7/26/2013 06:43 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2013**	Analyst: **LR**
Mercury	**0.037**		**0.010**	**mg/Kg-dry**	1	7/26/2013 04:13 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/26/2013**	Analyst: **ML**
Arsenic	**12**		**1.7**	**mg/Kg-dry**	5	7/26/2013 06:33 PM
Barium	**1,500**		**17**	**mg/Kg-dry**	50	7/29/2013 02:36 PM
Cadmium	ND		0.70	mg/Kg-dry	5	7/26/2013 06:33 PM
Chromium	**9.9**		**1.7**	**mg/Kg-dry**	5	7/26/2013 06:33 PM
Copper	**16**		**1.7**	**mg/Kg-dry**	5	7/26/2013 06:33 PM
Lead	**14**		**1.7**	**mg/Kg-dry**	5	7/26/2013 06:33 PM
Nickel	**22**		**1.7**	**mg/Kg-dry**	5	7/26/2013 06:33 PM
Selenium	ND		1.7	mg/Kg-dry	5	7/26/2013 06:33 PM
Silver	ND		1.7	mg/Kg-dry	5	7/26/2013 06:33 PM
Zinc	**74**		**3.5**	**mg/Kg-dry**	5	7/26/2013 06:33 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **7/29/2013**	Analyst: **RH**
Calcium	**64**		**10**	**mg/L**	20	7/29/2013 04:31 PM
Magnesium	**18**		**4.0**	**mg/L**	20	7/29/2013 04:31 PM
Sodium	**44**		**4.0**	**mg/L**	20	7/29/2013 04:31 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **RH**
Sodium Adsorption Ratio	**1.2**		**0.010**	**none**	1	7/29/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/26/2013**	Analyst: **HL**
Acenaphthene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM
Acenaphthylene	ND		38	µg/Kg-dry	1	7/26/2013 06:27 PM
Anthracene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM
Benzo(a)anthracene	ND		21	µg/Kg-dry	1	7/26/2013 06:27 PM
Benzo(a)pyrene	ND		21	µg/Kg-dry	1	7/26/2013 06:27 PM
Benzo(b)fluoranthene	ND		23	µg/Kg-dry	1	7/26/2013 06:27 PM
Benzo(g,h,i)perylene	ND		35	µg/Kg-dry	1	7/26/2013 06:27 PM
Benzo(k)fluoranthene	ND		23	µg/Kg-dry	1	7/26/2013 06:27 PM
Chrysene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM
Dibenzo(a,h)anthracene	ND		23	µg/Kg-dry	1	7/26/2013 06:27 PM
Fluoranthene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM

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

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: West Wall, 3.5' **Lab ID:** 1307969-04
Collection Date: 7/23/2013 03:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM
Indeno(1,2,3-cd)pyrene	ND		25	µg/Kg-dry	1	7/26/2013 06:27 PM
Naphthalene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM
Pyrene	ND		19	µg/Kg-dry	1	7/26/2013 06:27 PM
Surr: 2-Fluorobiphenyl	*47.7*		*12-100*	*%REC*	1	7/26/2013 06:27 PM
Surr: 4-Terphenyl-d14	*82.1*		*25-137*	*%REC*	1	7/26/2013 06:27 PM
Surr: Nitrobenzene-d5	*46.8*		*37-107*	*%REC*	1	7/26/2013 06:27 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **7/26/2013**	Analyst: **AK**
Benzene	ND		39	µg/Kg-dry	1	7/26/2013 06:01 PM
Ethylbenzene	ND		39	µg/Kg-dry	1	7/26/2013 06:01 PM
m,p-Xylene	ND		77	µg/Kg-dry	1	7/26/2013 06:01 PM
o-Xylene	ND		39	µg/Kg-dry	1	7/26/2013 06:01 PM
Toluene	ND		39	µg/Kg-dry	1	7/26/2013 06:01 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	7/26/2013 06:01 PM
Surr: 1,2-Dichloroethane-d4	*102*		*70-130*	*%REC*	1	7/26/2013 06:01 PM
Surr: 4-Bromofluorobenzene	*104*		*70-130*	*%REC*	1	7/26/2013 06:01 PM
Surr: Dibromofluoromethane	*98.8*		*70-130*	*%REC*	1	7/26/2013 06:01 PM
Surr: Toluene-d8	*101*		*70-130*	*%REC*	1	7/26/2013 06:01 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **7/29/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.81**		**0.10**	**mmhos/cm @25**	20	7/30/2013 09:15 AM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**9.9**		**0.64**	**mg/Kg-dry**	1	7/29/2013 04:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/26/2013**	Analyst: **JB**
Chromium, Hexavalent	ND		0.65	mg/Kg-dry	1	7/29/2013 02:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**22**		**0.050**	**% of sample**	1	7/26/2013 11:00 AM
PH			**SW9045D**		Prep Date: **7/26/2013**	Analyst: **JJG**
pH	**8.8**			**s.u.**	1	7/26/2013 04:20 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: Footprint, 6' **Lab ID:** 1307969-05
Collection Date: 7/23/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **7/26/2013**	Analyst: **RD**
DRO (C10-C28)	ND		4.9	mg/Kg-dry	1	7/26/2013 09:18 PM
Surr: 4-Terphenyl-d14	*76.6*		*39-115*	*%REC*	1	7/26/2013 09:18 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep Date: **7/26/2013**	Analyst: **RD**
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	7/26/2013 07:08 PM
Surr: Toluene-d8	*114*		*50-150*	*%REC*	1	7/26/2013 07:08 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **7/26/2013**	Analyst: **LR**
Mercury	**0.049**		**0.012**	**mg/Kg-dry**	1	7/26/2013 04:15 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **7/26/2013**	Analyst: **ML**
Arsenic	**11**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Barium	**260**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Cadmium	ND		0.57	mg/Kg-dry	5	7/26/2013 06:39 PM
Chromium	**11**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Copper	**17**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Lead	**15**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Nickel	**23**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Selenium	**1.6**		**1.4**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
Silver	ND		1.4	mg/Kg-dry	5	7/26/2013 06:39 PM
Zinc	**78**		**2.9**	**mg/Kg-dry**	5	7/26/2013 06:39 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **7/26/2013**	Analyst: **HL**
Acenaphthene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	7/26/2013 06:48 PM
Anthracene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	7/26/2013 06:48 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	7/26/2013 06:48 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	7/26/2013 06:48 PM
Benzo(g,h,i)perylene	ND		33	µg/Kg-dry	1	7/26/2013 06:48 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	7/26/2013 06:48 PM
Chrysene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	7/26/2013 06:48 PM
Fluoranthene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Fluorene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	7/26/2013 06:48 PM
Naphthalene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Pyrene	ND		18	µg/Kg-dry	1	7/26/2013 06:48 PM
Surr: 2-Fluorobiphenyl	*65.5*		*12-100*	*%REC*	1	7/26/2013 06:48 PM
Surr: 4-Terphenyl-d14	*106*		*25-137*	*%REC*	1	7/26/2013 06:48 PM
Surr: Nitrobenzene-d5	*62.5*		*37-107*	*%REC*	1	7/26/2013 06:48 PM

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 Starkey 4 Tank Removal 13-199-5 7/23/13 **Work Order:** 1307969
Sample ID: Footprint, 6' **Lab ID:** 1307969-05
Collection Date: 7/23/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **7/26/2013**	Analyst: **AK**
Benzene	ND		36	µg/Kg-dry	1	7/26/2013 06:25 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	7/26/2013 06:25 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	7/26/2013 06:25 PM
o-Xylene	ND		36	µg/Kg-dry	1	7/26/2013 06:25 PM
Toluene	ND		36	µg/Kg-dry	1	7/26/2013 06:25 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	7/26/2013 06:25 PM
Surr: 1,2-Dichloroethane-d4	*102*		*70-130*	*%REC*	1	7/26/2013 06:25 PM
Surr: 4-Bromofluorobenzene	*100*		*70-130*	*%REC*	1	7/26/2013 06:25 PM
Surr: Dibromofluoromethane	*97.8*		*70-130*	*%REC*	1	7/26/2013 06:25 PM
Surr: Toluene-d8	*98.1*		*70-130*	*%REC*	1	7/26/2013 06:25 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**11**		**0.59**	**mg/Kg-dry**	1	7/29/2013 04:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **7/26/2013**	Analyst: **JB**
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	7/29/2013 02:00 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**16**		**0.050**	**% of sample**	1	7/26/2013 11:00 AM
PH			**SW9045D**		Prep Date: **7/26/2013**	Analyst: **JJG**
pH	**8.5**			**s.u.**	1	7/26/2013 04:20 PM

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

ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1307969

Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

Batch ID: **50028** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-50028-50028** Units: **mg/Kg** Analysis Date: **7/26/2013 01:46 PM**

Client ID: Run ID: **GC8_130726A** SeqNo: **2392542** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	*1.305*	0	*1.667*	0	*78.3*	*39-115*	0			

LCS Sample ID: **DLCSS1-50028-50028** Units: **mg/Kg** Analysis Date: **7/26/2013 02:16 PM**

Client ID: Run ID: **GC8_130726A** SeqNo: **2392543** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	131.7	4.2	166.7	0	79	49-124	0			
Surr: 4-Terphenyl-d14	*0.823*	0	*1.667*	0	*49.4*	*39-115*	0			

MS Sample ID: **1307968-04B MS** Units: **mg/Kg** Analysis Date: **7/26/2013 04:47 PM**

Client ID: Run ID: **GC8_130726A** SeqNo: **2393747** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	280.5	8.3	332	24.69	77.1	49-130	0			
Surr: 4-Terphenyl-d14	*2.098*	0	*3.32*	0	*63.2*	*39-115*	0			

MSD Sample ID: **1307968-04B MSD** Units: **mg/Kg** Analysis Date: **7/26/2013 05:17 PM**

Client ID: Run ID: **GC8_130726A** SeqNo: **2393748** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	268.3	7.9	316.9	24.69	76.9	49-130	280.5	4.45	30	
Surr: 4-Terphenyl-d14	*1.981*	0	*3.169*	0	*62.5*	*39-115*	2.098	*5.74*	*30*	

The following samples were analyzed in this batch: 1307969-01B, 1307969-02B, 1307969-03B, 1307969-04B, 1307969-05B

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50031** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-50031-50031** Units: **mg/Kg** Analysis Date: **7/26/2013 03:08 PM**
Client ID: Run ID: **HG1_130726A** SeqNo: **2392315** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002333	0.020								J

LCS Sample ID: **LCS-50031-50031** Units: **mg/Kg** Analysis Date: **7/26/2013 03:10 PM**
Client ID: Run ID: **HG1_130726A** SeqNo: **2392316** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1722	0.020	0.1665	0	103	80-120	0			

MS Sample ID: **1307897-08BMS** Units: **mg/Kg** Analysis Date: **7/26/2013 03:14 PM**
Client ID: Run ID: **HG1_130726A** SeqNo: **2392318** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1355	0.014	0.1191	0.01035	105	75-125	0			

MSD Sample ID: **1307897-08BMSD** Units: **mg/Kg** Analysis Date: **7/26/2013 03:16 PM**
Client ID: Run ID: **HG1_130726A** SeqNo: **2392319** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1271	0.014	0.1143	0.01035	102	75-125	0.1355	6.4	35	

The following samples were analyzed in this batch:

1307969-01B	1307969-02B	1307969-03B
1307969-04B	1307969-05B	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50035** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-50035-50035** Units: **mg/Kg** Analysis Date: **7/26/2013 04:14 PM**
Client ID: Run ID: **ICPMS1_130726A** SeqNo: **2392665** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	0.04916	0.25								J
Silver	0.001264	0.25								J
Zinc	0.04066	0.50								J

LCS Sample ID: **LCS-50035-50035** Units: **mg/Kg** Analysis Date: **7/26/2013 04:20 PM**
Client ID: Run ID: **ICPMS1_130726A** SeqNo: **2392666** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.215	0.25	10	0	92.2	80-120	0			
Barium	9.86	0.25	10	0	98.6	80-120	0			
Cadmium	9.67	0.10	10	0	96.7	80-120	0			
Chromium	9.305	0.25	10	0	93	80-120	0			
Copper	9.26	0.25	10	0	92.6	80-120	0			
Lead	10.48	0.25	10	0	105	80-120	0			
Nickel	9.25	0.25	10	0	92.5	80-120	0			
Selenium	8.835	0.25	10	0	88.4	80-120	0			
Silver	9.945	0.25	10	0	99.4	80-120	0			
Zinc	9.31	0.50	10	0	93.1	80-120	0			

MS Sample ID: **1307984-01BMS** Units: **mg/Kg** Analysis Date: **7/26/2013 05:25 PM**
Client ID: Run ID: **ICPMS1_130726A** SeqNo: **2392678** Prep Date: **7/26/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	21.17	1.8	14.06	8.753	88.3	75-125	0			
Barium	316.2	1.8	14.06	302.4	98.1	75-125	0			O
Cadmium	14.54	0.70	14.06	0.4837	99.9	75-125	0			
Chromium	28.1	1.8	14.06	14	100	75-125	0			
Copper	32.3	1.8	14.06	20.36	84.9	75-125	0			
Lead	32.01	1.8	14.06	17.11	106	75-125	0			
Nickel	32.24	1.8	14.06	20.16	85.9	75-125	0			
Selenium	13.99	1.8	14.06	1.781	86.8	75-125	0			
Silver	13.52	1.8	14.06	0.0484	95.8	75-125	0			
Zinc	91.28	3.5	14.06	78.27	92.5	75-125	0			O

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50035** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1307984-01BMSD** Units: **mg/Kg** Analysis Date: **7/26/2013 05:35 PM**
Client ID: Run ID: **ICPMS1_130726A** SeqNo: **2392681** Prep Date: **7/26/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.63	1.7	6.812	8.753	101	75-125	15.63	0	25	
Barium	351.5	1.7	6.812	302.4	720	75-125	351.5	0	25	SO
Cadmium	7.425	0.68	6.812	0.4837	102	75-125	7.425	0	25	
Chromium	23.49	1.7	6.812	14	139	75-125	23.49	0	25	S
Copper	25.89	1.7	6.812	20.36	81.2	75-125	25.89	0	25	
Lead	25.24	1.7	6.812	17.11	119	75-125	25.24	0	25	
Nickel	26.46	1.7	6.812	20.16	92.5	75-125	26.46	0	25	
Selenium	8.191	1.7	6.812	1.781	94.1	75-125	8.191	0	25	
Silver	6.642	1.7	6.812	0.0484	96.8	75-125	6.642	0	25	
Zinc	85.8	3.4	6.812	78.27	110	75-125	85.8	0	25	O

The following samples were analyzed in this batch:

1307969-01B	1307969-02B	1307969-03B
1307969-04B	1307969-05B	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50052** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

DUP Sample ID: **1307968-03ADUP** Units: **mg/L** Analysis Date: **7/29/2013 03:29 PM**
Client ID: Run ID: **ICPMS2_130729A** SeqNo: **2394050** Prep Date: **7/29/2013** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	59.04	10	0	0	0	0-0	48.6	19.4		
Magnesium	8.526	4.0	0	0	0	0-0	7.872	7.98		
Sodium	4.556	4.0	0	0	0	0-0	3.768	18.9		

The following samples were analyzed in this batch:

1307969-01C 1307969-02C 1307969-03C
1307969-04C

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50027** Instrument ID **SVMS4** Method: **SW8270**

MBLK Sample ID: **SBLKS1-50027-50027** Units: **µg/Kg** Analysis Date: **7/26/2013 02:45 PM**
Client ID: Run ID: **SVMS4_130726A** SeqNo: **2392632** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	*1119*	0	*1667*	0	*67.1*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1681*	0	*1667*	0	*101*	*25-137*	0			
Surr: Nitrobenzene-d5	*1141*	0	*1667*	0	*68.5*	*37-107*	0			

LCS Sample ID: **SLCSS1-50027-50027** Units: **µg/Kg** Analysis Date: **7/26/2013 03:16 PM**
Client ID: Run ID: **SVMS4_130726A** SeqNo: **2392633** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	476.3	30	666.7	0	71.4	45-110	0			
Acenaphthylene	499.7	30	666.7	0	74.9	45-105	0			
Anthracene	545	30	666.7	0	81.7	55-105	0			
Benzo(a)anthracene	558.7	30	666.7	0	83.8	50-110	0			
Benzo(a)pyrene	615.7	30	666.7	0	92.3	50-110	0			
Benzo(b)fluoranthene	626.7	30	666.7	0	94	45-115	0			
Benzo(g,h,i)perylene	772.3	30	666.7	0	116	40-125	0			
Benzo(k)fluoranthene	621.3	30	666.7	0	93.2	45-115	0			
Chrysene	548.3	30	666.7	0	82.2	55-110	0			
Dibenzo(a,h)anthracene	718	30	666.7	0	108	40-125	0			
Fluoranthene	601.3	30	666.7	0	90.2	55-115	0			
Fluorene	503	30	666.7	0	75.4	50-110	0			
Indeno(1,2,3-cd)pyrene	664.7	30	666.7	0	99.7	40-120	0			
Naphthalene	466.7	30	666.7	0	70	40-105	0			
Pyrene	597.7	30	666.7	0	89.6	45-125	0			
Surr: 2-Fluorobiphenyl	*1168*	0	*1667*	0	*70.1*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1612*	0	*1667*	0	*96.7*	*25-137*	0			
Surr: Nitrobenzene-d5	*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
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50027** Instrument ID **SVMS4** Method: **SW8270**

MS Sample ID: **1307968-04B MS** Units: **µg/Kg** Analysis Date: **7/26/2013 05:21 PM**
Client ID: Run ID: **SVMS4_130726A** SeqNo: **2393860** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	948.3	58	1295	0	73.2	45-110	0			
Acenaphthylene	995.5	58	1295	0	76.9	45-105	0			
Anthracene	1076	58	1295	0	83.1	55-105	0			
Benzo(a)anthracene	1183	58	1295	0	91.4	50-110	0			
Benzo(a)pyrene	1199	58	1295	0	92.6	50-110	0			
Benzo(b)fluoranthene	1225	58	1295	0	94.6	45-115	0			
Benzo(g,h,i)perylene	1488	58	1295	0	115	40-125	0			
Benzo(k)fluoranthene	1050	58	1295	0	81.1	45-115	0			
Chrysene	1125	58	1295	0	86.9	55-110	0			
Dibenzo(a,h)anthracene	1342	58	1295	0	104	40-125	0			
Fluoranthene	1047	58	1295	0	80.8	55-115	0			
Fluorene	1029	58	1295	0	79.5	50-110	0			
Indeno(1,2,3-cd)pyrene	1256	58	1295	0	97	40-120	0			
Naphthalene	903	58	1295	0	69.7	40-105	0			
Pyrene	1120	58	1295	0	86.5	45-125	0			
Surr: 2-Fluorobiphenyl	*2355*	0	*3237*	0	*72.8*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3028*	0	*3237*	0	*93.6*	*25-137*	0			
Surr: Nitrobenzene-d5	*2225*	0	*3237*	0	*68.8*	*37-107*	0			

MSD Sample ID: **1307968-04B MSD** Units: **µg/Kg** Analysis Date: **7/26/2013 05:52 PM**
Client ID: Run ID: **SVMS4_130726A** SeqNo: **2393861** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	904.6	57	1267	0	71.4	45-110	948.3	4.72	30	
Acenaphthylene	938.8	57	1267	0	74.1	45-105	995.5	5.87	30	
Anthracene	1033	57	1267	0	81.5	55-105	1076	4.1	30	
Benzo(a)anthracene	1049	57	1267	0	82.8	50-110	1183	12	30	
Benzo(a)pyrene	1143	57	1267	0	90.2	50-110	1199	4.78	30	
Benzo(b)fluoranthene	1244	57	1267	0	98.1	45-115	1225	1.47	30	
Benzo(g,h,i)perylene	1390	57	1267	0	110	40-125	1488	6.83	30	
Benzo(k)fluoranthene	1067	57	1267	0	84.2	45-115	1050	1.65	30	
Chrysene	1074	57	1267	0	84.7	55-110	1125	4.66	30	
Dibenzo(a,h)anthracene	1150	57	1267	0	90.7	40-125	1342	15.4	30	
Fluoranthene	1028	57	1267	0	81.1	55-115	1047	1.79	30	
Fluorene	951.5	57	1267	0	75.1	50-110	1029	7.85	30	
Indeno(1,2,3-cd)pyrene	1074	57	1267	0	84.8	40-120	1256	15.6	30	
Naphthalene	866.6	57	1267	0	68.4	40-105	903	4.11	30	
Pyrene	1086	57	1267	0	85.7	45-125	1120	3.09	30	
Surr: 2-Fluorobiphenyl	*2227*	0	*3167*	0	*70.3*	*12-100*	2355	*5.62*	*40*	
Surr: 4-Terphenyl-d14	*2813*	0	*3167*	0	*88.8*	*25-137*	3028	*7.38*	*40*	
Surr: Nitrobenzene-d5	*2205*	0	*3167*	0	*69.6*	*37-107*	2225	*0.915*	*40*	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50027** Instrument ID **SVMS4** Method: **SW8270**

The following samples were analyzed in this batch:

1307969-01B	1307969-02B	1307969-03B
1307969-04B	1307969-05B	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50023** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **MBLK-50023-50023** Units: **µg/Kg** Analysis Date: **7/26/2013 01:02 PM**
Client ID: Run ID: **VMS5_130726A** SeqNo: **2392361** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
GRO (C6-C10)	ND	2,500								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*988*	0	*1000*	0	*98.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*985.5*	0	*1000*	0	*98.6*	*70-130*	0			
Surr: Dibromofluoromethane	*1014*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*995*	0	*1000*	0	*99.5*	*70-130*	0			

LCS Sample ID: **LCS-50023-50023** Units: **µg/Kg** Analysis Date: **7/26/2013 11:51 AM**
Client ID: Run ID: **VMS5_130726A** SeqNo: **2392360** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	879.5	30	1000	0	88	75-125	0			
Ethylbenzene	902	30	1000	0	90.2	75-125	0			
m,p-Xylene	1798	60	2000	0	89.9	80-125	0			
o-Xylene	903	30	1000	0	90.3	75-125	0			
Toluene	861	30	1000	0	86.1	70-125	0			
Xylenes, Total	2702	90	3000	0	90	75-125	0			
Surr: 1,2-Dichloroethane-d4	*987.5*	0	*1000*	0	*98.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*990.5*	0	*1000*	0	*99*	*70-130*	0			
Surr: Dibromofluoromethane	*1003*	0	*1000*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*971*	0	*1000*	0	*97.1*	*70-130*	0			

The following samples were analyzed in this batch:

1307969-01A	1307969-02A	1307969-03A
1307969-04A	1307969-05A	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50040** Instrument ID **WETCHEM** Method: **SW9045D**

DUP Sample ID: **1307967-02B DUP** Units: **s.u.** Analysis Date: **7/26/2013 04:00 PM**
Client ID: Run ID: **WETCHEM_130726G** SeqNo: **2392392** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.63	0	0	0	0	0-0	6.61	0.302	20	

DUP Sample ID: **1307979-01A DUP** Units: **s.u.** Analysis Date: **7/26/2013 04:00 PM**
Client ID: Run ID: **WETCHEM_130726G** SeqNo: **2392400** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.02	0	0	0	0	0-0	7.99	0.375	20	

DUP Sample ID: **1307969-02B DUP** Units: **s.u.** Analysis Date: **7/26/2013 04:20 PM**
Client ID: **South Wall, 3'** Run ID: **WETCHEM_130726J** SeqNo: **2392496** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.71	0	0	0	0	0-0	8.7	0.115	20	

DUP Sample ID: **1307984-03B DUP** Units: **s.u.** Analysis Date: **7/26/2013 04:20 PM**
Client ID: Run ID: **WETCHEM_130726J** SeqNo: **2392503** Prep Date: **7/26/2013** 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	8.21	0.486	20	

The following samples were analyzed in this batch:

1307969-01B	1307969-02B	1307969-03B
1307969-04B	1307969-05B	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50044** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-50044-50044** Units: **mg/Kg** Analysis Date: **7/29/2013 02:00 PM**
Client ID: Run ID: **WETCHEM_130729H** SeqNo: **2394034** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.50								

LCS Sample ID: **LCS-50044-50044** Units: **mg/Kg** Analysis Date: **7/29/2013 02:00 PM**
Client ID: Run ID: **WETCHEM_130729H** SeqNo: **2394033** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.772	0.50	2	0	88.6	80-120	0			

MS Sample ID: **1307968-05B MS** Units: **mg/Kg** Analysis Date: **7/29/2013 02:00 PM**
Client ID: Run ID: **WETCHEM_130729H** SeqNo: **2394021** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.50	2.008	0	0	75-125	0			S

MSD Sample ID: **1307968-05B MSD** Units: **mg/Kg** Analysis Date: **7/29/2013 02:00 PM**
Client ID: Run ID: **WETCHEM_130729H** SeqNo: **2394022** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.49	1.961	0	0	75-125	0	0	20	S

The following samples were analyzed in this batch:

1307969-01B	1307969-02B	1307969-03B
1307969-04B	1307969-05B	

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **50052** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **1307968-03A DUP** Units: **mmhos/cm @25°C** Analysis Date: **7/30/2013 09:15 AM**
Client ID: Run ID: **WETCHEM_130730A** SeqNo: **2394797** Prep Date: **7/29/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.383	0.050	0	0	0		0.327	15.8	50	

The following samples were analyzed in this batch:

1307969-01C 1307969-02C 1307969-03C
1307969-04C

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

Client: HRL Compliance Solutions
Work Order: 1307969
Project: Caerus Starkey 4 Tank Removal 13-199-5 7/23/13

QC BATCH REPORT

Batch ID: **R124196** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R124196** Units: **% of sample** Analysis Date: **7/26/2013 11:00 AM**
Client ID: Run ID: **MOIST_130726A** SeqNo: **2392302** 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-R124196** Units: **% of sample** Analysis Date: **7/26/2013 11:00 AM**
Client ID: Run ID: **MOIST_130726A** SeqNo: **2392298** 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: **1307967-01B DUP** Units: **% of sample** Analysis Date: **7/26/2013 11:00 AM**
Client ID: Run ID: **MOIST_130726A** SeqNo: **2392280** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.42	0.050	0	0	0	0-0	15.76	10	20	

DUP Sample ID: **1307969-05B DUP** Units: **% of sample** Analysis Date: **7/26/2013 11:00 AM**
Client ID: **Footprint, 6'** Run ID: **MOIST_130726A** SeqNo: **2392294** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.05	0.050	0	0	0	0-0	15.96	6.6	20	

The following samples were analyzed in this batch:

1307969-01B	1307969-02B	1307969-03B
1307969-04B	1307969-05B	

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

ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 202r8

WORKORDER # 1307969

PAGE 1 of 1

DISPOSAL ~~By Lab~~ or Return to Client

PROJECT NAME	Caerus Starkey 4 Tank Removal	SAMPLER	Casey Richardson
PROJECT No.	13-199-5	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HCSI	BILL TO COMPANY	Caerus Piceance LLC
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 crichardson@hrlcomp.com	E-MAIL	ewinters@caerusoilandgas.com

DATE 7/24/2013

TURNAROUND 24 hour

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	TOTAL METALS - TABEL 910-1	SEMI VOLS - PAH	SAR	EC	pH
1	North Wall, 3.5'	Soil	7/23/2013	1440	3	8		x	x	x	x	x	x	x	x
2	South Wall, 3'	Soil	7/23/2013	1538	3	8		x	x	x	x	x	x	x	x
3	East Wall, 3'	Soil	7/23/2013	1445	3	8		x	x	x	x	x	x	x	x
4	West Wall, 3.5'	Soil	7/23/2013	1535	3	8		x	x	x	x	x	x	x	x
5	Footprint, 6'	Soil	7/23/2013	1430	3	8		x	x	x	x	x	10	x	x

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

For metals or anions, please detail analytes below.

Comments: 6.0 'c

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	7/24/2013	1715
RECEIVED BY		Diane E Shaw	7/26/13	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **26-Jul-13 09:30**

Work Order: **1307969** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 26-Jul-13 (Date) Reviewed by: Ann Preston (eSignature) 28-Jul-13 (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 ☐	
Temperature(s)/Thermometer(s):	6.0 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/26/2013 10:43:07 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:

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8022 0273 1593

Form ID No. 0200

1 From

Date 7.24.13

Sender's Name CASEY RICHARDSON Phone 970 243.3271

Company LICI

Address 2385 F 1/2 RD Dept/Floor/Suite/Room

City GRAND JCT. State CO ZIP 81505

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIVING Phone 616 399.6070

Company ALS ENVIRONMENTAL

Address 3352 128TH AVE Dept/Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
Use this line for the HOLD location address or for continuation of your shipping address.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City HOLLAND State MI ZIP 49424

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | [X] Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.
Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

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

[X] No | Yes — As per attached Shipper's Declaration | Yes — Shipper's Declaration not required | Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed. | [X] Recipient | Third Party | Credit Card | Cash/Check

[redacted] 29

Total Packages 1 Total Weight ____ lbs. Credit Card Auth.

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

644

SVL SRS

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL

ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233

Date: 7.24.13

Signature: [signature]

05-Aug-2013

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

Re: **Caerus Starkey 4 Tank Removal 7/31/13** Work Order: **1308016**

Dear Herman,

ALS Environmental received 1 sample on 01-Aug-2013 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 7.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 05-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 7/31/13
Work Order: **1308016**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1308016-01	Footprint 6'	Soil		7/31/2013 15:34	8/1/2013 09:30	☐

ALS Group USA, Corp

Date: 05-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 Tank Removal 7/31/13
WorkOrder: **1308016**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group USA, Corp

Date: *05-Aug-13*

Client: HRL Compliance Solutions

Project: Caerus Starkey 4 Tank Removal 7/31/13 **Work Order:** 1308016

Sample ID: Footprint 6' **Lab ID:** 1308016-01

Collection Date: 7/31/2013 03:34 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **8/5/2013**	Analyst: **RH**
Calcium	**37**		**10**	**mg/L**	20	8/5/2013 12:35 PM
Magnesium	**19**		**4.0**	**mg/L**	20	8/5/2013 12:35 PM
Sodium	**92**		**4.0**	**mg/L**	20	8/5/2013 12:35 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **8/5/2013**	Analyst: **RH**
Sodium Adsorption Ratio	**3.1**		**0.010**	**none**	1	8/5/2013
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **8/5/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.83**		**0.050**	**mmhos/cm @25**	10	8/5/2013 12:30 PM

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

ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 202r8

WORKORDER #	1308016				
PAGE	1 of 1				
DISPOSAL	By Lab or Return to Client				

Caerus		SAMPLER	~~Casey Richardson~~ Mike Lobato	DATE	7-31-13
PROJECT NAME	Starkey 4 Tank Removal	SITE ID	Starkey #4	TURNAROUND	24 hr
PROJECT No.	Job# 13-199-2	EDD FORMAT			
		PURCHASE ORDER			
COMPANY NAME	HCSI	BILL TO COMPANY	Caerus Piceance LLC		
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 crichardson@hrlcomp.com	E-MAIL	ewinters@caerusoilandgas.com		

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	SAR	EC
1	Footprint 6'	S	7-31-13	1534	1			X	X

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

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	
If Soil moisture > 30%, please adjust parameters to within COGCC/CSEV Standards. 2.8°C	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	Mike Lobato	~~Casey Richardson~~ Mike Lobato	7-31-13	1630
RECEIVED BY			7-31	1630
RELINQUISHED BY		N. M.	7-31	1700
RECEIVED BY		Diane F. Sha	8/1/13	0930
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **01-Aug-13 09:30**

Work Order: **1308016** Received by: **DS**

Checklist completed by Diane Shaw eSignature 01-Aug-13 Date Reviewed by: Ann Preston eSignature 04-Aug-13 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 ☐	
Temperature(s)/Thermometer(s):	2.8 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/1/2013 10:50:07 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:

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

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J13111302120326

Ship Date: 31JUL13
ActWgt: 70.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-073113-5
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

THU - 01 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7963 6575 7396

XX GRRA

49424
MI-US
GRR

518G1/AA04/83AB

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.
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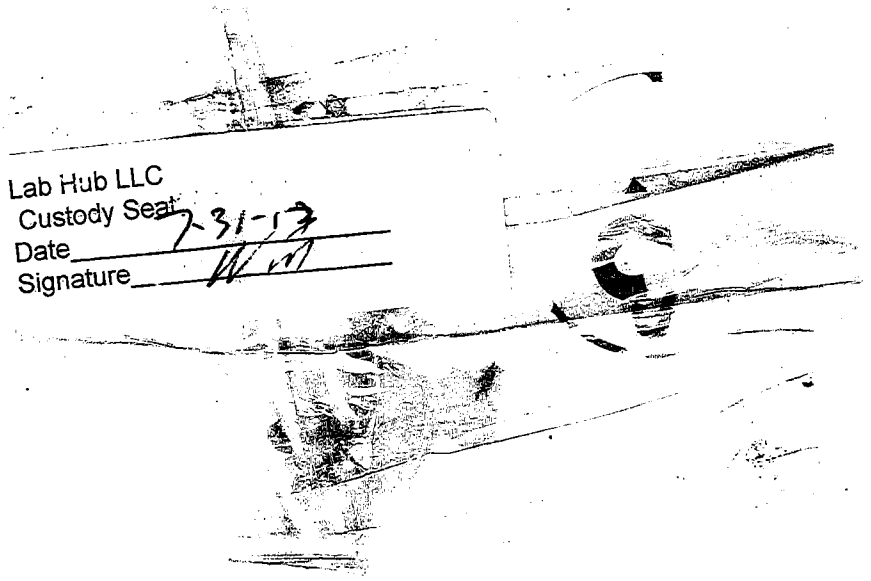

12-Aug-2013

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

Re: **Caerus Starkey 4 13-199-2 8/2/13** Work Order: **1308138**

Dear Herman,

ALS Environmental received 1 sample on 03-Aug-2013 12:00 PM for the analyses presented in the following report.

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

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

The total number of pages in this report is 22.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 12-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 13-199-2 8/2/13
Work Order: **1308138**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1308138-01	Backfill Confirmation	Soil		8/2/2013 11:24	8/3/2013 12:00	☐

ALS Group USA, Corp

Date: 12-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 13-199-2 8/2/13
WorkOrder: **1308138**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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

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

ALS Group USA, Corp

Date: *12-Aug-13*

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 13-199-2 8/2/13
Work Order: 1308138
Sample ID: Backfill Confirmation
Lab ID: 1308138-01
Collection Date: 8/2/2013 11:24 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **8/6/2013**	Analyst: **RD**
DRO (C10-C28)	**160**		**4.5**	**mg/Kg-dry**	1	8/7/2013 11:15 AM
Surr: 4-Terphenyl-d14	*69.4*		*39-115*	*%REC*	1	8/7/2013 11:15 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep Date: **8/5/2013**	Analyst: **RD**
GRO (C6-C10)	**48**		**2.8**	**mg/Kg-dry**	1	8/5/2013 05:59 PM
Surr: Toluene-d8	*108*		*50-150*	*%REC*	1	8/5/2013 05:59 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **8/8/2013**	Analyst: **LR**
Mercury	**0.052**		**0.019**	**mg/Kg-dry**	1	8/8/2013 04:33 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **8/7/2013**	Analyst: **ML**
Arsenic	**7.9**		**1.9**	**mg/Kg-dry**	5	8/8/2013 09:18 PM
Barium	**960**		**19**	**mg/Kg-dry**	50	8/9/2013 11:47 AM
Cadmium	ND		0.77	mg/Kg-dry	5	8/8/2013 09:18 PM
Chromium	**11**		**1.9**	**mg/Kg-dry**	5	8/8/2013 09:18 PM
Copper	**15**		**1.9**	**mg/Kg-dry**	5	8/8/2013 09:18 PM
Lead	**12**		**1.9**	**mg/Kg-dry**	5	8/8/2013 09:18 PM
Nickel	**19**		**1.9**	**mg/Kg-dry**	5	8/8/2013 09:18 PM
Selenium	ND		1.9	mg/Kg-dry	5	8/8/2013 09:18 PM
Silver	ND		1.9	mg/Kg-dry	5	8/8/2013 09:18 PM
Zinc	**59**		**3.8**	**mg/Kg-dry**	5	8/8/2013 09:18 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **8/8/2013**	Analyst: **RH**
Calcium	**850**		**10**	**mg/L**	20	8/9/2013 03:08 AM
Magnesium	**220**		**4.0**	**mg/L**	20	8/9/2013 03:08 AM
Sodium	**320**		**4.0**	**mg/L**	20	8/9/2013 03:08 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **8/8/2013**	Analyst: **RH**
Sodium Adsorption Ratio	**2.5**		**0.010**	**none**	1	8/8/2013
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **8/6/2013**	Analyst: **RM**
Acenaphthene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM
Acenaphthylene	ND		32	µg/Kg-dry	1	8/8/2013 06:23 AM
Anthracene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	8/8/2013 06:23 AM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	8/8/2013 06:23 AM
Benzo(b)fluoranthene	ND		19	µg/Kg-dry	1	8/8/2013 06:23 AM
Benzo(g,h,i)perylene	ND		30	µg/Kg-dry	1	8/8/2013 06:23 AM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	8/8/2013 06:23 AM
Chrysene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	8/8/2013 06:23 AM
Fluoranthene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM

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

ALS Group USA, Corp

Date: *12-Aug-13*

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 13-199-2 8/2/13 **Work Order:** 1308138
Sample ID: Backfill Confirmation **Lab ID:** 1308138-01
Collection Date: 8/2/2013 11:24 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM
Indeno(1,2,3-cd)pyrene	ND		22	µg/Kg-dry	1	8/8/2013 06:23 AM
Naphthalene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM
Pyrene	ND		16	µg/Kg-dry	1	8/8/2013 06:23 AM
Surr: 2-Fluorobiphenyl	*75.8*		*12-100*	*%REC*	1	8/8/2013 06:23 AM
Surr: 4-Terphenyl-d14	*86.2*		*25-137*	*%REC*	1	8/8/2013 06:23 AM
Surr: Nitrobenzene-d5	*60.4*		*37-107*	*%REC*	1	8/8/2013 06:23 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **8/5/2013**	Analyst: **AK**
Benzene	ND		33	µg/Kg-dry	1	8/6/2013 07:00 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	8/6/2013 07:00 AM
m,p-Xylene	**160**		**66**	**µg/Kg-dry**	1	8/6/2013 07:00 AM
o-Xylene	**39**		**33**	**µg/Kg-dry**	1	8/6/2013 07:00 AM
Toluene	ND		33	µg/Kg-dry	1	8/6/2013 07:00 AM
Xylenes, Total	**190**		**99**	**µg/Kg-dry**	1	8/6/2013 07:00 AM
Surr: 1,2-Dichloroethane-d4	*102*		*70-130*	*%REC*	1	8/6/2013 07:00 AM
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	1	8/6/2013 07:00 AM
Surr: Dibromofluoromethane	*98.4*		*70-130*	*%REC*	1	8/6/2013 07:00 AM
Surr: Toluene-d8	*95.0*		*70-130*	*%REC*	1	8/6/2013 07:00 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **8/8/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.4**		**0.025**	**mmhos/cm @25**	5	8/8/2013 04:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**11**		**0.55**	**mg/Kg-dry**	1	8/9/2013 02:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **8/6/2013**	Analyst: **MB**
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	8/7/2013 02:05 AM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**9.4**		**0.050**	**% of sample**	1	8/7/2013 03:00 PM
PH			**SW9045D**		Prep Date: **8/5/2013**	Analyst: **JB**
pH	**7.9**			**s.u.**	1	8/5/2013 04:00 PM

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

QC BATCH REPORT

Batch ID: **50327** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-50327-50327** Units: **mg/Kg** Analysis Date: **8/7/2013 08:45 AM**

Client ID: Run ID: **GC8_130807A** SeqNo: **2406554** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	*1.079*	0	*1.667*	0	*64.8*	*39-115*	0			

LCS Sample ID: **DLCSS1-50327-50327** Units: **mg/Kg** Analysis Date: **8/7/2013 09:15 AM**

Client ID: Run ID: **GC8_130807A** SeqNo: **2406555** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	132.4	4.2	166.7	0	79.4	49-124	0			
Surr: 4-Terphenyl-d14	*1.055*	0	*1.667*	0	*63.3*	*39-115*	0			

MS Sample ID: **1308187-01B MS** Units: **mg/Kg** Analysis Date: **8/7/2013 09:45 AM**

Client ID: Run ID: **GC8_130807A** SeqNo: **2406556** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	226.9	8.0	321.4	18.31	64.9	49-130	0			
Surr: 4-Terphenyl-d14	*1.793*	0	*3.214*	0	*55.8*	*39-115*	0			

MSD Sample ID: **1308187-01B MSD** Units: **mg/Kg** Analysis Date: **8/7/2013 10:15 AM**

Client ID: Run ID: **GC8_130807A** SeqNo: **2406557** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	228.7	7.9	314.2	18.31	67	49-130	226.9	0.821	30	
Surr: 4-Terphenyl-d14	*1.851*	0	*3.142*	0	*58.9*	*39-115*	1.793	*3.23*	*30*	

The following samples were analyzed in this batch: 1308138-01B

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50397** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-50397-50397** Units: **mg/Kg** Analysis Date: **8/8/2013 04:04 PM**
Client ID: Run ID: **HG1_130808A** SeqNo: **2408138** Prep Date: **8/8/2013** 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-50397-50397** Units: **mg/Kg** Analysis Date: **8/8/2013 04:06 PM**
Client ID: Run ID: **HG1_130808A** SeqNo: **2408139** Prep Date: **8/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1909	0.020	0.1665	0	115	80-120	0			

MS Sample ID: **1308246-01BMS** Units: **mg/Kg** Analysis Date: **8/8/2013 04:44 PM**
Client ID: Run ID: **HG1_130808A** SeqNo: **2408225** Prep Date: **8/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1478	0.014	0.1168	0.02111	108	75-125	0			

MSD Sample ID: **1308246-01BMSD** Units: **mg/Kg** Analysis Date: **8/8/2013 04:46 PM**
Client ID: Run ID: **HG1_130808A** SeqNo: **2408226** Prep Date: **8/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1476	0.014	0.1162	0.02111	109	75-125	0.1478	0.149	35	

The following samples were analyzed in this batch: 1308138-01B

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50328** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

DUP Sample ID: **1308140-01ADUP** Units: **mg/L** Analysis Date: **8/9/2013 03:31 AM**
Client ID: Run ID: **ICPMS2_130808A** SeqNo: **2408473** Prep Date: **8/8/2013** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	195.9	10	0	0	0	0-0	191	2.5		
Magnesium	21.14	4.0	0	0	0	0-0	20.48	3.17		
Sodium	71.48	4.0	0	0	0	0-0	75.82	5.89		

DUP Sample ID: **1308140-01ADUP** Units: **none** Analysis Date: **8/8/2013**
Client ID: Run ID: **SAR_130808A** SeqNo: **2409331** Prep Date: **8/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.296	0.010	0	0	0		1.393	7.19	50	

The following samples were analyzed in this batch: 1308138-01C

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50366** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-50366-50366** Units: **mg/Kg** Analysis Date: **8/8/2013 08:07 AM**
Client ID: Run ID: **ICPMS1_130807A** SeqNo: **2407150** Prep Date: **8/7/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	0.04007	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.004087	0.25								J
Nickel	0.0675	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.07785	0.50								J

LCS Sample ID: **LCS-50366-50366** Units: **mg/Kg** Analysis Date: **8/8/2013 08:13 AM**
Client ID: Run ID: **ICPMS1_130807A** SeqNo: **2407152** Prep Date: **8/7/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.438	0.25	5	0	88.8	80-120	0			
Barium	4.954	0.25	5	0	99.1	80-120	0			
Cadmium	4.848	0.10	5	0	97	80-120	0			
Chromium	5.02	0.25	5	0	100	80-120	0			
Copper	5.065	0.25	5	0	101	80-120	0			
Lead	4.903	0.25	5	0	98.1	80-120	0			
Nickel	5.01	0.25	5	0	100	80-120	0			
Selenium	4.312	0.25	5	0	86.2	80-120	0			
Silver	5.06	0.25	5	0	101	80-120	0			
Zinc	4.498	0.50	5	0	90	80-120	0			

MS Sample ID: **1308106-03CMS** Units: **mg/Kg** Analysis Date: **8/8/2013 08:39 AM**
Client ID: Run ID: **ICPMS1_130807A** SeqNo: **2407157** Prep Date: **8/7/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.364	0.32	6.337	1.935	85.7	75-125	0			
Barium	21.38	0.32	6.337	14.32	111	75-125	0			
Cadmium	6.307	0.13	6.337	0.0301	99	75-125	0			
Chromium	11.33	0.32	6.337	5.02	99.6	75-125	0			
Copper	9.575	0.32	6.337	3.489	96	75-125	0			
Lead	9.075	0.32	6.337	3.078	94.6	75-125	0			
Nickel	11.64	0.32	6.337	5.311	99.9	75-125	0			
Selenium	5.703	0.32	6.337	0.2486	86.1	75-125	0			
Silver	6.116	0.32	6.337	0.006445	96.4	75-125	0			
Zinc	16.91	0.63	6.337	10.39	103	75-125	0			

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50366** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1308106-03CMSD** Units: **mg/Kg** Analysis Date: **8/8/2013 07:06 PM**
Client ID: Run ID: **ICPMS1_130808A** SeqNo: **2408416** Prep Date: **8/7/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.273	0.32	6.477	1.935	82.4	75-125	7.364	1.24	25	
Barium	21.35	0.32	6.477	14.32	108	75-125	21.38	0.131	25	
Cadmium	6.271	0.13	6.477	0.0301	96.4	75-125	6.307	0.562	25	
Chromium	11.35	0.32	6.477	5.02	97.7	75-125	11.33	0.144	25	
Copper	9.132	0.32	6.477	3.489	87.1	75-125	9.575	4.74	25	
Lead	9.093	0.32	6.477	3.078	92.9	75-125	9.075	0.204	25	
Nickel	11.22	0.32	6.477	5.311	91.3	75-125	11.64	3.65	25	
Selenium	5.588	0.32	6.477	0.2486	82.4	75-125	5.703	2.04	25	
Silver	6.26	0.32	6.477	0.006445	96.6	75-125	6.116	2.33	25	
Zinc	16.18	0.65	6.477	10.39	89.4	75-125	16.91	4.44	25	

The following samples were analyzed in this batch: 1308138-01B

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50326** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-50326-50326** Units: **µg/Kg** Analysis Date: **8/7/2013 10:34 AM**
Client ID: Run ID: **SVMS6_130807A** SeqNo: **2407571** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	*1230*	0	*1667*	0	*73.8*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1979*	0	*1667*	0	*119*	*25-137*	0			
Surr: Nitrobenzene-d5	*1093*	0	*1667*	0	*65.6*	*37-107*	0			

LCS Sample ID: **SLCSS1-50326-50326** Units: **µg/Kg** Analysis Date: **8/7/2013 10:53 AM**
Client ID: Run ID: **SVMS6_130807A** SeqNo: **2407572** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	523	30	666.7	0	78.4	45-110	0			
Acenaphthylene	550.7	30	666.7	0	82.6	45-105	0			
Anthracene	620	30	666.7	0	93	55-105	0			
Benzo(a)anthracene	622.7	30	666.7	0	93.4	50-110	0			
Benzo(a)pyrene	659.7	30	666.7	0	98.9	50-110	0			
Benzo(b)fluoranthene	733.3	30	666.7	0	110	45-115	0			
Benzo(g,h,i)perylene	639.3	30	666.7	0	95.9	40-125	0			
Benzo(k)fluoranthene	749	30	666.7	0	112	45-115	0			
Chrysene	675.7	30	666.7	0	101	55-110	0			
Dibenzo(a,h)anthracene	664.3	30	666.7	0	99.6	40-125	0			
Fluoranthene	643.7	30	666.7	0	96.5	55-115	0			
Fluorene	564	30	666.7	0	84.6	50-110	0			
Indeno(1,2,3-cd)pyrene	635	30	666.7	0	95.2	40-120	0			
Naphthalene	516.3	30	666.7	0	77.4	40-105	0			
Pyrene	742.7	30	666.7	0	111	45-125	0			
Surr: 2-Fluorobiphenyl	*1258*	0	*1667*	0	*75.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1962*	0	*1667*	0	*118*	*25-137*	0			
Surr: Nitrobenzene-d5	*1198*	0	*1667*	0	*71.9*	*37-107*	0			

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50326** Instrument ID **SVMS6** Method: **SW8270**

MS Sample ID: **1308187-01B MS** Units: **µg/Kg** Analysis Date: **8/7/2013 12:20 PM**
Client ID: Run ID: **SVMS6_130807A** SeqNo: **2407573** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	871.7	57	1257	0	69.3	45-110	0			
Acenaphthylene	914.4	57	1257	0	72.7	45-105	0			
Anthracene	1021	57	1257	0	81.2	55-105	0			
Benzo(a)anthracene	1029	57	1257	0	81.8	50-110	0			
Benzo(a)pyrene	1090	57	1257	0	86.7	50-110	0			
Benzo(b)fluoranthene	1163	57	1257	0	92.5	45-115	0			
Benzo(g,h,i)perylene	1131	57	1257	0	90	40-125	0			
Benzo(k)fluoranthene	1192	57	1257	0	94.8	45-115	0			
Chrysene	1086	57	1257	0	86.4	55-110	0			
Dibenzo(a,h)anthracene	1163	57	1257	0	92.5	40-125	0			
Fluoranthene	959.7	57	1257	0	76.3	55-115	0			
Fluorene	908.7	57	1257	0	72.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1112	57	1257	0	88.5	40-120	0			
Naphthalene	833.3	57	1257	0	66.3	40-105	0			
Pyrene	1262	57	1257	0	100	45-125	0			
Surr: 2-Fluorobiphenyl	*2173*	0	*3142*	0	*69.1*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3164*	0	*3142*	0	*101*	*25-137*	0			
Surr: Nitrobenzene-d5	*1984*	0	*3142*	0	*63.1*	*37-107*	0			

MSD Sample ID: **1308187-01B MSD** Units: **µg/Kg** Analysis Date: **8/7/2013 12:39 PM**
Client ID: Run ID: **SVMS6_130807A** SeqNo: **2407574** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	897.3	58	1295	0	69.3	45-110	871.7	2.9	30	
Acenaphthylene	952.4	58	1295	0	73.5	45-105	914.4	4.07	30	
Anthracene	1030	58	1295	0	79.5	55-105	1021	0.919	30	
Benzo(a)anthracene	1038	58	1295	0	80.2	50-110	1029	0.936	30	
Benzo(a)pyrene	1110	58	1295	0	85.7	50-110	1090	1.87	30	
Benzo(b)fluoranthene	1174	58	1295	0	90.6	45-115	1163	0.952	30	
Benzo(g,h,i)perylene	1156	58	1295	0	89.3	40-125	1131	2.19	30	
Benzo(k)fluoranthene	1205	58	1295	0	93.1	45-115	1192	1.11	30	
Chrysene	1093	58	1295	0	84.4	55-110	1086	0.63	30	
Dibenzo(a,h)anthracene	1193	58	1295	0	92.1	40-125	1163	2.54	30	
Fluoranthene	1014	58	1295	0	78.3	55-115	959.7	5.49	30	
Fluorene	931	58	1295	0	71.9	50-110	908.7	2.42	30	
Indeno(1,2,3-cd)pyrene	1142	58	1295	0	88.2	40-120	1112	2.63	30	
Naphthalene	878.5	58	1295	0	67.8	40-105	833.3	5.28	30	
Pyrene	1239	58	1295	0	95.6	45-125	1262	1.87	30	
Surr: 2-Fluorobiphenyl	*2275*	0	*3237*	0	*70.3*	*12-100*	2173	*4.61*	*40*	
Surr: 4-Terphenyl-d14	*3134*	0	*3237*	0	*96.8*	*25-137*	3164	*0.937*	*40*	
Surr: Nitrobenzene-d5	*2122*	0	*3237*	0	*65.5*	*37-107*	1984	*6.7*	*40*	

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50326** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch: 1308138-01B

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50268** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **MBLK-50268-50268** Units: **µg/Kg** Analysis Date: **8/5/2013 12:19 PM**
Client ID: Run ID: **VMS5_130805A** SeqNo: **2403452** Prep Date: **8/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
GRO (C6-C10)	ND	2,500								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*990.5*	0	*1000*	0	*99*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*989.5*	0	*1000*	0	*99*	*70-130*	0			
Surr: Toluene-d8	*966*	0	*1000*	0	*96.6*	*70-130*	0			

LCS Sample ID: **LCS-50268-50268** Units: **µg/Kg** Analysis Date: **8/5/2013 10:46 AM**
Client ID: Run ID: **VMS5_130805A** SeqNo: **2403448** Prep Date: **8/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	914.5	30	1000	0	91.4	75-125	0			
Ethylbenzene	924.5	30	1000	0	92.4	75-125	0			
m,p-Xylene	1884	60	2000	0	94.2	80-125	0			
o-Xylene	934	30	1000	0	93.4	75-125	0			
Toluene	915.5	30	1000	0	91.6	70-125	0			
Xylenes, Total	2818	90	3000	0	93.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1000*	0	*1000*	0	*100*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*998.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*994.5*	0	*1000*	0	*99.4*	*70-130*	0			
Surr: Toluene-d8	*967*	0	*1000*	0	*96.7*	*70-130*	0			

MS Sample ID: **1308097-10A MS** Units: **µg/Kg** Analysis Date: **8/5/2013 10:35 PM**
Client ID: Run ID: **VMS9_130805A** SeqNo: **2403604** Prep Date: **8/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1219	38	1279	0	95.3	75-125	0			
Ethylbenzene	1222	38	1279	0	95.6	75-125	0			
m,p-Xylene	2454	77	2558	0	96	80-125	0			
o-Xylene	1218	38	1279	0	95.2	75-125	0			
Toluene	1224	38	1279	0	95.7	70-125	0			
Xylenes, Total	3672	120	3836	0	95.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1251*	0	*1279*	0	*97.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1258*	0	*1279*	0	*98.4*	*70-130*	0			
Surr: Dibromofluoromethane	*1275*	0	*1279*	0	*99.7*	*70-130*	0			
Surr: Toluene-d8	*1270*	0	*1279*	0	*99.4*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50268** Instrument ID **VMS5** Method: **SW8260B**

MSD Sample ID: **1308097-10A MSD** Units: **µg/Kg** Analysis Date: **8/5/2013 10:59 PM**
Client ID: Run ID: **VMS9_130805A** SeqNo: **2403605** Prep Date: **8/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1215	38	1279	0	95	75-125	1219	0.263	30	
Ethylbenzene	1207	38	1279	0	94.4	75-125	1222	1.26	30	
m,p-Xylene	2420	77	2558	0	94.6	80-125	2454	1.39	30	
o-Xylene	1217	38	1279	0	95.2	75-125	1218	0.0525	30	
Toluene	1194	38	1279	0	93.4	70-125	1224	2.43	30	
Xylenes, Total	3637	120	3836	0	94.8	75-125	3672	0.945	30	
Surr: 1,2-Dichloroethane-d4	*1263*	0	*1279*	0	*98.8*	*70-130*	1251	*0.916*	*30*	
Surr: 4-Bromofluorobenzene	*1248*	0	*1279*	0	*97.6*	*70-130*	1258	*0.766*	*30*	
Surr: Dibromofluoromethane	*1297*	0	*1279*	0	*101*	*70-130*	1275	*1.74*	*30*	
Surr: Toluene-d8	*1272*	0	*1279*	0	*99.5*	*70-130*	1270	*0.151*	*30*	

The following samples were analyzed in this batch: 1308138-01A

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50287** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-50287-50287** Units: **s.u.** Analysis Date: **8/5/2013 04:00 PM**
Client ID: Run ID: **WETCHEM_130805L** SeqNo: **2403224** Prep Date: **8/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.39	0	4.4	0	99.8	90-110	0			

DUP Sample ID: **1308139-01B DUP** Units: **s.u.** Analysis Date: **8/5/2013 04:00 PM**
Client ID: Run ID: **WETCHEM_130805L** SeqNo: **2403227** Prep Date: **8/5/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.38	0	0	0	0	0-0	7.35	0.407	20	

The following samples were analyzed in this batch: 1308138-01B

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50328** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **1308140-01A DUP** Units: **mmhos/cm @25°C** Analysis Date: **8/8/2013 04:30 PM**

Client ID: Run ID: **WETCHEM_130808Q** SeqNo: **2408197** Prep Date: **8/8/2013** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.56	0.025	0	0	0		1.47	5.94	50	

The following samples were analyzed in this batch: 1308138-01C

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **50356** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-50356-50356** Units: **mg/Kg** Analysis Date: **8/7/2013 02:05 AM**
Client ID: Run ID: **WETCHEM_130807G** SeqNo: **2405826** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.50								

LCS Sample ID: **LCS-50356-50356** Units: **mg/Kg** Analysis Date: **8/7/2013 02:05 AM**
Client ID: Run ID: **WETCHEM_130807G** SeqNo: **2405825** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.872	0.50	2	0	93.6	80-120	0			

MS Sample ID: **1308187-04B MS** Units: **mg/Kg** Analysis Date: **8/7/2013 02:05 AM**
Client ID: Run ID: **WETCHEM_130807G** SeqNo: **2405817** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.681	0.50	2.016	0.03922	81.5	75-125	0			

MSD Sample ID: **1308187-04B MSD** Units: **mg/Kg** Analysis Date: **8/7/2013 02:05 AM**
Client ID: Run ID: **WETCHEM_130807G** SeqNo: **2405818** Prep Date: **8/6/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.616	0.50	2	0.03922	78.8	75-125	1.681	3.97	20	

The following samples were analyzed in this batch: 1308138-01B

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

Client: HRL Compliance Solutions
Work Order: 1308138
Project: Caerus Starkey 4 13-199-2 8/2/13

QC BATCH REPORT

Batch ID: **R124829** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R124829** Units: **% of sample** Analysis Date: **8/7/2013 03:00 PM**
Client ID: Run ID: **MOIST_130807B** SeqNo: **2407318** 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-R124829** Units: **% of sample** Analysis Date: **8/7/2013 03:00 PM**
Client ID: Run ID: **MOIST_130807B** SeqNo: **2407317** 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: **1308080-01A DUP** Units: **% of sample** Analysis Date: **8/7/2013 03:00 PM**
Client ID: Run ID: **MOIST_130807B** SeqNo: **2407296** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.84	0.050	0	0	0	0-0	21.23	2.83	20	

DUP Sample ID: **1308106-02B DUP** Units: **% of sample** Analysis Date: **8/7/2013 03:00 PM**
Client ID: Run ID: **MOIST_130807B** SeqNo: **2407299** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.41	0.050	0	0	0	0-0	3.86	13.3	20	

The following samples were analyzed in this batch: 1308138-01B

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

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 12987

ALS Project Manager: | ALS Work Order #: 1308138

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Caerus Starkey 4	A	Complete Table 910-1 (COGCC)
Work Order		Project Number	13-199-2	B	
Company Name	HCSI	Bill To Company	Caerus Piceance LLC	C	
Send Report To	Herman Lucero	Invoice Attn	Ed Winters	D	
Address	2385 F½ Road	Address	120 Railroad Ave, Suite D	E	
				F	
City/State/Zip	Grand Junction, CO 81505	City/State/Zip	Parachute, CO 81635	G	
Phone	9702433271	Phone	970 2859606	H	
Fax	970 2433280	Fax		I	
e-Mail Address	hlucero@hrlcompa.com, crichardson@hrlcompa.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Backfill Confirmation	8-2-13	1124	S	8	3	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Lobato Mike Lobato

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ____ ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: Mike Lobato	Date: 8-2-13	Time: 1216	Received by:	
Relinquished by:	Date: 8-2-13	Time: 1300	Received by (Laboratory):	8/3/13 1200
Logged by (Laboratory): DFS	Date: 8/5/13	Time: 0900	Checked by (Laboratory):	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes:

Cooler ID	Cooler Temp
	4.0°c

QC Package: (Check One Box Below)

☒ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **03-Aug-13 12:00**

Work Order: **1308138** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 05-Aug-13 (Date) Reviewed by: Ann Preston (eSignature) 06-Aug-13 (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 ☐	
Temperature(s)/Thermometer(s):	4.0 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/5/2013 8:57:45 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:

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

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J13111302120326

Ship Date: 02AUG13
ActWgt: 65.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-080213-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070 BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7963 8590 5010

X0 GRRA

49424
MI-US
GRR

518G1/AA04/93AB

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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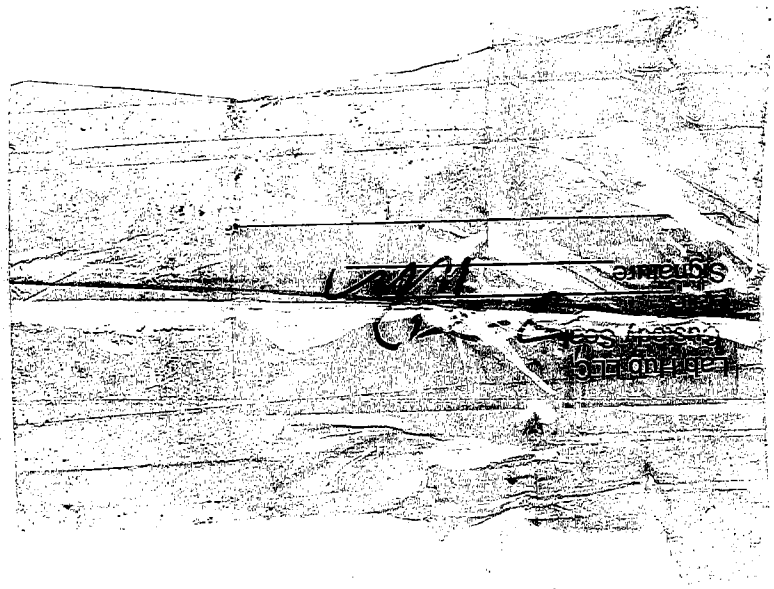

06-Aug-2013

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

Re: **Caerus Starkey 4 7/29/13** Work Order: **13071079**

Dear Herman,

ALS Environmental received 3 samples on 30-Jul-2013 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 13.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

Report of Laboratory Analysis

ALS Group USA, Corp

Date: 06-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 7/29/13
Work Order: **13071079**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
13071079-01	BKGD 1	Soil		7/29/2013 13:05	7/30/2013 09:30	☐
13071079-02	BKGD 2	Soil		7/29/2013 13:15	7/30/2013 09:30	☐
13071079-03	BKGD 3	Soil		7/29/2013 13:20	7/30/2013 09:30	☐

ALS Group USA, Corp

Date: 06-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 7/29/13
Work Order: 13071079

Case Narrative

Batch 50243 MS/MSD data for Arsenic is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 06-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 7/29/13
WorkOrder: **13071079**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
% 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: *06-Aug-13*

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 7/29/13
Work Order: 13071079
Sample ID: BKGD 1
Lab ID: 13071079-01
Collection Date: 7/29/2013 01:05 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **8/2/2013**	Analyst: **ML**
Arsenic	**11**		**2.1**	**mg/Kg-dry**	5	8/2/2013 04:23 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **8/2/2013**	Analyst: **ML**
Calcium	**45**		**10**	**mg/L**	20	8/2/2013 02:46 PM
Magnesium	**17**		**4.0**	**mg/L**	20	8/2/2013 02:46 PM
Sodium	**32**		**4.0**	**mg/L**	20	8/2/2013 02:46 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **8/2/2013**	Analyst: **ML**
Sodium Adsorption Ratio	**1.0**		**0.010**	**none**	1	8/2/2013
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **8/2/2013**	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.57**		**0.050**	**mmhos/cm @2**	10	8/2/2013 10:15 AM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**12**		**0.050**	**% of sample**	1	7/30/2013 04:50 PM
PH			**SW9045D**		Prep Date: **7/31/2013**	Analyst: **EE**
pH	**8.9**			**s.u.**	1	7/31/2013 10:25 AM

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

ALS Group USA, Corp

Date: *06-Aug-13*

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 7/29/13 **Work Order:** 13071079
Sample ID: BKGD 2 **Lab ID:** 13071079-02
Collection Date: 7/29/2013 01:15 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **8/2/2013**	Analyst: **ML**
Arsenic	**13**		**2.3**	**mg/Kg-dry**	5	8/2/2013 04:28 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**13**		**0.050**	**% of sample**	1	7/30/2013 04:50 PM

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

ALS Group USA, Corp

Date: *06-Aug-13*

Client: HRL Compliance Solutions
Project: Caerus Starkey 4 7/29/13
Work Order: 13071079
Sample ID: BKGD 3
Lab ID: 13071079-03
Collection Date: 7/29/2013 01:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **8/2/2013**	Analyst: **ML**
Arsenic	**20**		**2.1**	**mg/Kg-dry**	5	8/2/2013 04:33 PM
MOISTURE			**A2540 G**			Analyst: **BD**
Moisture	**9.4**		**0.050**	**% of sample**	1	7/30/2013 04:50 PM

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

ALS Group USA, Corp

Date: 06-Aug-13

Client: HRL Compliance Solutions

Work Order: 13071079

Project: Caerus Starkey 4 7/29/13

QC BATCH REPORT

Batch ID: **50243** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK Sample ID: **MBLK-50243-50243** Units: **mg/Kg** Analysis Date: **8/2/2013 01:49 PM**

Client ID: Run ID: **ICPMS2_130802A** SeqNo: **2400881** Prep Date: **8/2/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS Sample ID: **LCS-50243-50243** Units: **mg/Kg** Analysis Date: **8/2/2013 01:54 PM**

Client ID: Run ID: **ICPMS2_130802A** SeqNo: **2400882** Prep Date: **8/2/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.674	0.25	5	0	93.5	80-120	0			

MS Sample ID: **13071078-01BMS** Units: **mg/Kg** Analysis Date: **8/2/2013 02:10 PM**

Client ID: Run ID: **ICPMS2_130802A** SeqNo: **2400886** Prep Date: **8/2/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.858	0.33	6.51	2.998	74.6	75-125	0			S

MSD Sample ID: **13071078-01BMSD** Units: **mg/Kg** Analysis Date: **8/2/2013 02:15 PM**

Client ID: Run ID: **ICPMS2_130802A** SeqNo: **2400887** Prep Date: **8/2/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.439	0.32	6.435	2.998	69	75-125	7.858	5.48	25	S

The following samples were analyzed in this batch:

13071079-01A	13071079-02A	13071079-03A

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

Client: HRL Compliance Solutions
Work Order: 13071079
Project: Caerus Starkey 4 7/29/13

QC BATCH REPORT

Batch ID: **50165** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-50165-50165** Units: **s.u.** Analysis Date: **7/31/2013 10:25 AM**
Client ID: Run ID: **WETCHEM_130731K** SeqNo: **2397919** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.52	0	4.4	0	103	90-110	0			

DUP Sample ID: **13071144-01A DUP** Units: **s.u.** Analysis Date: **7/31/2013 10:25 AM**
Client ID: Run ID: **WETCHEM_130731K** SeqNo: **2397924** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.53	0	0	0	0	0-0	8.57	0.468	20	

DUP Sample ID: **13071152-06B DUP** Units: **s.u.** Analysis Date: **7/31/2013 10:25 AM**
Client ID: Run ID: **WETCHEM_130731K** SeqNo: **2397933** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.4	0	0	0	0	0-0	8.39	0.119	20	

The following samples were analyzed in this batch: 13071079-01A

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

Client: HRL Compliance Solutions
Work Order: 13071079
Project: Caerus Starkey 4 7/29/13

QC BATCH REPORT

Batch ID: **R124406** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R124406** Units: **% of sample** Analysis Date: **7/30/2013 04:50 PM**
Client ID: Run ID: **MOIST_130730C** SeqNo: **2397246** 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-R124406** Units: **% of sample** Analysis Date: **7/30/2013 04:50 PM**
Client ID: Run ID: **MOIST_130730C** SeqNo: **2397245** 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: **13071006-03A DUP** Units: **% of sample** Analysis Date: **7/30/2013 04:50 PM**
Client ID: Run ID: **MOIST_130730C** SeqNo: **2397225** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.67	0.050	0	0	0	0-0	16.2	2.86	20	

DUP Sample ID: **13071006-13A DUP** Units: **% of sample** Analysis Date: **7/30/2013 04:50 PM**
Client ID: Run ID: **MOIST_130730C** SeqNo: **2397236** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.97	0.050	0	0	0	0-0	17.74	1.29	20	

The following samples were analyzed in this batch:

13071079-01A	13071079-02A	13071079-03A

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

ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 202r8

WORKORDER # 13071079

PAGE 1 of 1

DISPOSAL (By Lab) or Return to Client

PROJECT NAME	CAERUS STARKEY 4	SAMPLER	Casey Richardson
PROJECT No.	~~13-197~~ CB	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HCSI	BILL TO COMPANY	Caerus Piceance LLC
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 crichardson@hrlcomp.com	E-MAIL	ewinters@caerusoilandgas.com

DATE 7.29.13

TURNAROUND STANDARD

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	ARSENIC	SAR	EC	pH
1	BKGD 1	SOIL	7.29.13	1305	2	8		X	X	X	X
2	BKGD 2	"	"	1315	1	"		X			
3	BKGD 3	"	"	1320	1	"		X			

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

For metals or anions, please detail analytes below.

Comments: 3.6 <

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	7.29.13	1345
RECEIVED BY			7-29-13	1400
RELINQUISHED BY			7-29-13	1405
RECEIVED BY		Diane F Shaw	7/30/13	0932
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **30-Jul-13 09:30**

Work Order: **13071079** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 30-Jul-13 (Date) Reviewed by: Ann Preston (eSignature) 31-Jul-13 (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 ☐	
Temperature(s)/Thermometer(s):	3.6 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/30/2013 10:40:23 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:

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

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J1311302120326

Ship Date: 29JUL13
ActWgt: 60.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-072913-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070 BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

TUE - 30 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 7963 4381 8206
0201

XX GRRA

49424
MI-US
GRR

518G1/AA04/93AB

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