

**Starkey 1 (Location ID 335383)**  
**Condensate Dumpline Release**  
**Spill/Release Point ID 448078**  
**Form 19 (Status Update)**  
**Narrative Attachment**

This Form 19 (Status Update) was prepared for the purpose of describing completed work associated with the assessment of soil beneath a condensate dumpline that failed an annual integrity test at the Starkey 1 (Location ID 335383) pad location in the Caerus Piceance, LLC (Caerus) area of operations.

Upon finding the compromised portion of the dumpline, visual observations and field screening of soil below the line indicated that hydrocarbon-impacted soil was present. Excavation of the impacted soil was conducted and field screen readings were utilized to determine the extent of the impacts.

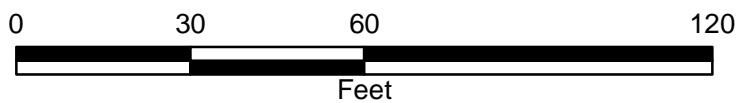
On October 17, 2016, confirmation soil samples were collected from the soil beneath the line (Base@18.5', N-Wall #2@12', E-Wall@12', S-Wall@12', and W-Wall #3@12'). Soil samples were submitted for laboratory analysis of all COGCC Table 910-1 analytes. Analytical results indicate that the soil samples were in compliance with the majority of COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations. Exceedances included the electrical conductivity (EC) and/or sodium adsorption ratio (SAR) measurements for soil samples N-Wall #2@12', S-Wall@12', and W-Wall #3@12' and the total petroleum hydrocarbon and benzene measurements for W-Wall #3@12' and E-Wall@12', respectively. However, these samples were collected at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Level for EC or SAR to soils deeper than three feet below the ground surface. Background samples were collected from an undisturbed area near the Chevron 41-8D pad (COGCC Location ID 324198). Sample locations are depicted on the attached Site Map and laboratory analytical results are summarized in the attached analytical table. Laboratory analytical reports are included as an attachment.

Based on analytical results, additional soil should be removed from the areas represented by samples E-Wall@12' and W-Wall #3@3' (east wall and west wall). However, excavating farther west along the area where soil sample W-Wall #3@12' was collected would present a safety hazard as the existing western extent of the excavation is adjacent to a vertical rock cliff. Caerus proposes that COGCC staff visit the site and observe the existing conditions of the project.



**Legend**

- Sample Points
- Excavation Extent



**FIGURE 1**  
**SITE MAP**  
 STARKEY 1 Dumpline Release  
 Garfield County, Colorado

TABLE 1  
STARKEY 1 DUMPLINE RELEASE  
SOIL ANALYTICAL RESULTS  
CAERUS OIL AND GAS  
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	Base @ 18.5'	N-Wall #2 @ 12'	E-Wall @ 12'	S-Wall @ 12'	W-Wall #3 @ 12'	BKGD 1*
Sample Date			10/17/2016	10/17/2016	10/17/2016	10/17/2016	10/17/2016	7/22/2013
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Background
Arsenic	0.39	mg/kg	7.7	12	17	5.1	24	39
Barium	15,000	mg/kg	220	110	300	53	98	NA
Cadmium	70	mg/kg	ND	ND	0.93	ND	ND	NA
Chromium (III)	120,000	mg/kg	9.3	14	10	6.1	7.9	NA
Chromium (VI)	23	mg/kg	ND	ND	ND	ND	ND	NA
Copper	3,100	mg/kg	17	24	28	11	13	NA
Lead	400	mg/kg	19	13	16	8.3	13	NA
Mercury	23	mg/kg	0.035	0.034	0.036	0.022	0.11	NA
Nickel	1,600	mg/kg	27	24	25	14	17	NA
Selenium	390	mg/kg	ND	ND	ND	ND	ND	NA
Silver	390	mg/kg	ND	ND	ND	ND	ND	NA
Zinc	23,000	mg/kg	89	81	97	41	68	NA
EC	4 or 2x background	mmhos/cm	1.8	33	3.3	6.6	8.5	NA
pH	6-9	SU	8.6	8.1	8.2	7.7	7.8	NA
SAR	12	unitless	3.2	33	4.0	1.7	2.9	NA
TPH-DRO			32	38	120	29	710	NA
TPH-GRO			ND	ND	57	28	550	NA
TPH	500	mg/kg	32	38	177	57	1,260	NA
Benzene	0.17	mg/kg	ND	ND	0.76	ND	0.068	NA
Toluene	85	mg/kg	0.12	ND	0.37	ND	ND	NA
Ethylbenzene	100	mg/kg	ND	ND	0.044	0.032	0.052	NA
Total Xylenes	175	mg/kg	0.64	0.088	0.44	0.18	0.19	NA
Acenaphthene	1,000	mg/kg	ND	ND	ND	ND	ND	NA
Anthracene	1,000	mg/kg	ND	ND	ND	ND	0.029	NA
Benzo(a)anthracene	0.22	mg/kg	ND	ND	ND	ND	0.010	NA
Benzo(b)fluoranthene	0.22	mg/kg	ND	ND	ND	ND	ND	NA
Benzo(k)fluoranthene	2.2	mg/kg	ND	ND	ND	ND	ND	NA
Benzo(a)pyrene	0.022	mg/kg	ND	ND	ND	ND	ND	NA
Chrysene	22	mg/kg	ND	ND	ND	ND	ND	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	ND	ND	ND	ND	ND	NA
Fluoranthene	1,000	mg/kg	ND	ND	ND	ND	0.013	NA
Fluorene	1,000	mg/kg	ND	ND	ND	ND	0.12	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	ND	ND	ND	ND	ND	NA
Naphthalene	23	mg/kg	ND	ND	ND	ND	0.11	NA
Pyrene	1,000	mg/kg	ND	ND	ND	ND	0.034	NA

Notes:

\* This background sample was collected near another pad location, Chevron 41-8D (COGCC Location ID 324198)

< - less than the stated reporting limit

Highlight - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC - electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

SAR - sodium adsorption ratio

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO



28-Oct-2016

Jake Janicek  
Caerus Oil and Gas LLC  
120 N. Railroad Ave. Suite D  
Parachute, CO 81635

Re: **Starkey 1**

Work Order: **16101161**

Dear Jake,

ALS Environmental received 5 samples on 18-Oct-2016 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 32.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager



Certificate No: MN 998501

## Report of Laboratory Analysis

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

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Environmental ALS Environmental logo icon consisting of a stylized green and blue shape.

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Work Order:** 16101161

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
16101161-01	Base @ 18.5'	Soil		10/17/2016 10:15	10/18/2016 09:30	<input type="checkbox"/>
16101161-02	N-Wall #2 @ 12'	Soil		10/17/2016 13:17	10/18/2016 09:30	<input type="checkbox"/>
16101161-03	E-Wall @ 12'	Soil		10/17/2016 10:40	10/18/2016 09:30	<input type="checkbox"/>
16101161-04	S-Wall @ 12'	Soil		10/17/2016 11:18	10/18/2016 09:30	<input type="checkbox"/>
16101161-05	W-Wall #3 @ 12'	Soil		10/17/2016 14:20	10/18/2016 09:30	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

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

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

Client: Caerus Oil and Gas LLC  
 Project: Starkey 1  
 Sample ID: Base @ 18.5'  
 Collection Date: 10/17/2016 10:15 AM

Work Order: 16101161  
 Lab ID: 16101161-01  
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3546 / 10/21/16	Analyst: <b>IT</b>
DRO (C10-C28)	32		6.1	mg/Kg-dry	1	10/24/2016 09:29 PM
Surr: 4-Terphenyl-d14	70.7		39-133	%REC	1	10/24/2016 09:29 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			<b>SW8015D</b>		Prep: SW5035 / 10/19/16	Analyst: <b>IT</b>
GRO (C6-C10)	ND		3.8	mg/Kg-dry	1	10/19/2016 10:16 PM
Surr: Toluene-d8	80.6		50-150	%REC	1	10/19/2016 10:16 PM
<b>MERCURY BY CVAA</b>			<b>SW7471B</b>		Prep: SW7471 / 10/24/16	Analyst: <b>LR</b>
Mercury	0.035		0.017	mg/Kg-dry	1	10/25/2016 02:29 PM
<b>METALS ANALYSIS BY ICP</b>			<b>SW846 6010C</b>		Prep: SW3050B / 10/21/16	Analyst: <b>RH</b>
Arsenic	7.7		0.47	mg/Kg-dry	1	10/26/2016 07:13 PM
Barium	220		0.47	mg/Kg-dry	1	10/26/2016 07:13 PM
Cadmium	ND		0.94	mg/Kg-dry	1	10/26/2016 07:13 PM
Chromium	9.3		0.47	mg/Kg-dry	1	10/26/2016 07:13 PM
Copper	17		0.94	mg/Kg-dry	1	10/26/2016 07:13 PM
Lead	19		0.47	mg/Kg-dry	1	10/26/2016 07:13 PM
Nickel	27		0.47	mg/Kg-dry	1	10/26/2016 07:13 PM
Selenium	ND		0.94	mg/Kg-dry	1	10/26/2016 07:13 PM
Silver	ND		0.47	mg/Kg-dry	1	10/26/2016 07:13 PM
Zinc	89		0.94	mg/Kg-dry	1	10/26/2016 07:13 PM
<b>SOLUBLE CATIONS FOR SAR</b>			<b>SW846 6010C</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
Calcium	64		5.0	mg/L	10	10/27/2016 03:48 AM
Magnesium	25		2.0	mg/L	10	10/27/2016 03:48 AM
Sodium	120		2.0	mg/L	10	10/27/2016 03:48 AM
<b>SODIUM ADSORPTION RATIO</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
Sodium Adsorption Ratio	3.2		0.010	none	1	10/26/2016
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW846 8270D</b>		Prep: SW3546 / 10/21/16	Analyst: <b>RM</b>
Acenaphthene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Anthracene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Benzo(a)anthracene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Benzo(a)pyrene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Benzo(b)fluoranthene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Benzo(k)fluoranthene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Chrysene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Dibenzo(a,h)anthracene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Fluoranthene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM

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

**ALS Group USA, Corp**

Date: 28-Oct-16

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Sample ID:** Base @ 18.5'  
**Collection Date:** 10/17/2016 10:15 AM

**Work Order:** 16101161  
**Lab ID:** 16101161-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Indeno(1,2,3-cd)pyrene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Naphthalene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Pyrene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:12 AM
Surr: 2-Fluorobiphenyl	88.8		12-100	%REC	1	10/22/2016 05:12 AM
Surr: 4-Terphenyl-d14	106		25-137	%REC	1	10/22/2016 05:12 AM
Surr: Nitrobenzene-d5	74.6		37-107	%REC	1	10/22/2016 05:12 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 10/19/16	Analyst: <b>LSY</b>
Benzene	ND		0.026	mg/Kg-dry	1	10/24/2016 07:07 AM
Ethylbenzene	ND		0.026	mg/Kg-dry	1	10/24/2016 07:07 AM
<b>m,p-Xylene</b>	<b>0.58</b>		<b>0.052</b>	<b>mg/Kg-dry</b>	1	10/24/2016 07:07 AM
<b>o-Xylene</b>	<b>0.060</b>		<b>0.026</b>	<b>mg/Kg-dry</b>	1	10/24/2016 07:07 AM
<b>Toluene</b>	<b>0.12</b>		<b>0.026</b>	<b>mg/Kg-dry</b>	1	10/24/2016 07:07 AM
<b>Xylenes, Total</b>	<b>0.64</b>		<b>0.079</b>	<b>mg/Kg-dry</b>	1	10/24/2016 07:07 AM
Surr: 1,2-Dichloroethane-d4	100		70-130	%REC	1	10/24/2016 07:07 AM
Surr: 4-Bromofluorobenzene	97.5		70-130	%REC	1	10/24/2016 07:07 AM
Surr: Dibromofluoromethane	98.2		70-130	%REC	1	10/24/2016 07:07 AM
Surr: Toluene-d8	99.0		70-130	%REC	1	10/24/2016 07:07 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>JB</b>
<b>Electrical Conductivity @ Saturation</b>	<b>1.8</b>		<b>0.25</b>	<b>mmhos/cm @2</b>	50	10/25/2016 12:30 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>MB</b>
<b>Chromium, Trivalent</b>	<b>9.3</b>		<b>0.63</b>	<b>mg/Kg-dry</b>	1	10/27/2016 12:20 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 10/20/16	Analyst: <b>MB</b>
<b>Chromium, Hexavalent</b>	ND		1.3	mg/Kg-dry	1	10/21/2016 03:30 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>EDL</b>
<b>Moisture</b>	<b>20</b>		<b>0.050</b>	<b>% of sample</b>	1	10/18/2016 04:47 PM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 10/20/16	Analyst: <b>LW</b>
<b>pH</b>	<b>8.6</b>			<b>s.u.</b>	1	10/20/2016 04:15 PM

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

Client: Caerus Oil and Gas LLC  
 Project: Starkey 1  
 Sample ID: N-Wall #2 @ 12'  
 Collection Date: 10/17/2016 01:17 PM

Work Order: 16101161  
 Lab ID: 16101161-02  
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3546 / 10/21/16	Analyst: <b>IT</b>
DRO (C10-C28)	38		5.8	mg/Kg-dry	1	10/24/2016 06:32 PM
Surr: 4-Terphenyl-d14	65.8		39-133	%REC	1	10/24/2016 06:32 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			<b>SW8015D</b>		Prep: SW5035 / 10/19/16	Analyst: <b>IT</b>
GRO (C6-C10)	ND		3.4	mg/Kg-dry	1	10/19/2016 10:41 PM
Surr: Toluene-d8	87.3		50-150	%REC	1	10/19/2016 10:41 PM
<b>MERCURY BY CVAA</b>			<b>SW7471B</b>		Prep: SW7471 / 10/24/16	Analyst: <b>LR</b>
Mercury	0.034		0.015	mg/Kg-dry	1	10/25/2016 02:32 PM
<b>METALS ANALYSIS BY ICP</b>			<b>SW846 6010C</b>		Prep: SW3050B / 10/21/16	Analyst: <b>RH</b>
Arsenic	12		0.46	mg/Kg-dry	1	10/26/2016 07:18 PM
Barium	110		0.46	mg/Kg-dry	1	10/26/2016 07:18 PM
Cadmium	ND		0.92	mg/Kg-dry	1	10/26/2016 07:18 PM
Chromium	14		0.46	mg/Kg-dry	1	10/26/2016 07:18 PM
Copper	24		0.92	mg/Kg-dry	1	10/26/2016 07:18 PM
Lead	13		0.46	mg/Kg-dry	1	10/26/2016 07:18 PM
Nickel	24		0.46	mg/Kg-dry	1	10/26/2016 07:18 PM
Selenium	ND		0.92	mg/Kg-dry	1	10/26/2016 07:18 PM
Silver	ND		0.46	mg/Kg-dry	1	10/26/2016 07:18 PM
Zinc	81		0.92	mg/Kg-dry	1	10/26/2016 07:18 PM
<b>SOLUBLE CATIONS FOR SAR</b>			<b>SW846 6010C</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
Calcium	630		5.0	mg/L	10	10/27/2016 03:54 AM
Magnesium	510		2.0	mg/L	10	10/27/2016 03:54 AM
Sodium	4,600		20	mg/L	100	10/28/2016 04:17 AM
<b>SODIUM ADSORPTION RATIO</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
Sodium Adsorption Ratio	33		0.010	none	1	10/26/2016
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW846 8270D</b>		Prep: SW3546 / 10/21/16	Analyst: <b>RM</b>
Acenaphthene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Anthracene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Benzo(a)anthracene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Chrysene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Fluoranthene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM

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

**ALS Group USA, Corp**

Date: 28-Oct-16

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Sample ID:** N-Wall #2 @ 12'  
**Collection Date:** 10/17/2016 01:17 PM

**Work Order:** 16101161  
**Lab ID:** 16101161-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Naphthalene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Pyrene	ND		0.0077	mg/Kg-dry	1	10/22/2016 05:33 AM
Surr: 2-Fluorobiphenyl	83.2		12-100	%REC	1	10/22/2016 05:33 AM
Surr: 4-Terphenyl-d14	99.4		25-137	%REC	1	10/22/2016 05:33 AM
Surr: Nitrobenzene-d5	67.4		37-107	%REC	1	10/22/2016 05:33 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 10/19/16	Analyst: <b>LSY</b>
Benzene	ND		0.023	mg/Kg-dry	1	10/20/2016 03:02 PM
Ethylbenzene	ND		0.023	mg/Kg-dry	1	10/20/2016 03:02 PM
m,p-Xylene	ND		0.046	mg/Kg-dry	1	10/20/2016 03:02 PM
<b>o-Xylene</b>	<b>0.047</b>		<b>0.023</b>	<b>mg/Kg-dry</b>	1	10/20/2016 03:02 PM
Toluene	ND		0.023	mg/Kg-dry	1	10/20/2016 03:02 PM
<b>Xylenes, Total</b>	<b>0.088</b>		<b>0.069</b>	<b>mg/Kg-dry</b>	1	10/20/2016 03:02 PM
Surr: 1,2-Dichloroethane-d4	107		70-130	%REC	1	10/20/2016 03:02 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	10/20/2016 03:02 PM
Surr: Dibromofluoromethane	91.2		70-130	%REC	1	10/20/2016 03:02 PM
Surr: Toluene-d8	97.2		70-130	%REC	1	10/20/2016 03:02 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	33		0.25	mmhos/cm @2	50	10/25/2016 12:30 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>MB</b>
Chromium, Trivalent	14		0.59	mg/Kg-dry	1	10/27/2016 12:20 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 10/20/16	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	10/21/2016 03:30 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>EDL</b>
Moisture	15		0.050	% of sample	1	10/18/2016 04:47 PM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 10/20/16	Analyst: <b>LW</b>
pH	8.1			s.u.	1	10/20/2016 04:15 PM

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

Client: Caerus Oil and Gas LLC  
 Project: Starkey 1  
 Sample ID: E-Wall @ 12'  
 Collection Date: 10/17/2016 10:40 AM

Work Order: 16101161  
 Lab ID: 16101161-03  
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep: SW3546 / 10/21/16	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>120</b>		<b>6.1</b>	<b>mg/Kg-dry</b>	1	10/24/2016 09:59 PM
<i>Surr: 4-Terphenyl-d14</i>	74.4		39-133	%REC	1	10/24/2016 09:59 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015D</b>		Prep: SW5035 / 10/19/16	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>57</b>		<b>3.6</b>	<b>mg/Kg-dry</b>	1	10/19/2016 11:06 PM
<i>Surr: Toluene-d8</i>	98.4		50-150	%REC	1	10/19/2016 11:06 PM
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 / 10/24/16	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.036</b>		<b>0.017</b>	<b>mg/Kg-dry</b>	1	10/25/2016 02:34 PM
<b>METALS ANALYSIS BY ICP</b>						
			<b>SW846 6010C</b>		Prep: SW3050B / 10/21/16	Analyst: <b>RH</b>
<b>Arsenic</b>	<b>17</b>		<b>0.41</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Barium</b>	<b>300</b>		<b>0.41</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Cadmium</b>	<b>0.93</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Chromium</b>	<b>10</b>		<b>0.41</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Copper</b>	<b>28</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Lead</b>	<b>16</b>		<b>0.41</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Nickel</b>	<b>25</b>		<b>0.41</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>Selenium</b>	ND		0.83	mg/Kg-dry	1	10/26/2016 07:24 PM
<b>Silver</b>	ND		0.41	mg/Kg-dry	1	10/26/2016 07:24 PM
<b>Zinc</b>	<b>97</b>		<b>0.83</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:24 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
<b>Calcium</b>	<b>65</b>		<b>5.0</b>	<b>mg/L</b>	10	10/27/2016 04:00 AM
<b>Magnesium</b>	<b>91</b>		<b>2.0</b>	<b>mg/L</b>	10	10/27/2016 04:00 AM
<b>Sodium</b>	<b>210</b>		<b>2.0</b>	<b>mg/L</b>	10	10/27/2016 04:00 AM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
<b>Sodium Adsorption Ratio</b>	<b>4.0</b>		<b>0.010</b>	<b>none</b>	1	10/26/2016
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3546 / 10/21/16	Analyst: <b>RM</b>
<b>Acenaphthene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Anthracene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Benzo(a)anthracene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Benzo(a)pyrene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Benzo(b)fluoranthene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Benzo(k)fluoranthene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Chrysene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Dibenzo(a,h)anthracene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
<b>Fluoranthene</b>	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM

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

**ALS Group USA, Corp**

Date: 28-Oct-16

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Sample ID:** E-Wall @ 12'  
**Collection Date:** 10/17/2016 10:40 AM

**Work Order:** 16101161  
**Lab ID:** 16101161-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
Indeno(1,2,3-cd)pyrene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
Naphthalene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
Pyrene	ND		0.0081	mg/Kg-dry	1	10/22/2016 05:54 AM
Surr: 2-Fluorobiphenyl	90.9		12-100	%REC	1	10/22/2016 05:54 AM
Surr: 4-Terphenyl-d14	108		25-137	%REC	1	10/22/2016 05:54 AM
Surr: Nitrobenzene-d5	74.3		37-107	%REC	1	10/22/2016 05:54 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 10/19/16	Analyst: <b>LSY</b>
Benzene	0.76		0.025	mg/Kg-dry	1	10/24/2016 07:34 AM
Ethylbenzene	0.044		0.025	mg/Kg-dry	1	10/24/2016 07:34 AM
m,p-Xylene	0.38		0.050	mg/Kg-dry	1	10/24/2016 07:34 AM
o-Xylene	0.057		0.025	mg/Kg-dry	1	10/24/2016 07:34 AM
Toluene	0.37		0.025	mg/Kg-dry	1	10/24/2016 07:34 AM
Xylenes, Total	0.44		0.075	mg/Kg-dry	1	10/24/2016 07:34 AM
Surr: 1,2-Dichloroethane-d4	96.7		70-130	%REC	1	10/24/2016 07:34 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	10/24/2016 07:34 AM
Surr: Dibromofluoromethane	96.1		70-130	%REC	1	10/24/2016 07:34 AM
Surr: Toluene-d8	108		70-130	%REC	1	10/24/2016 07:34 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	3.3		0.25	mmhos/cm @2	50	10/25/2016 12:30 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>MB</b>
Chromium, Trivalent	10		0.61	mg/Kg-dry	1	10/27/2016 12:20 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 10/20/16	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	10/21/2016 03:30 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>EDL</b>
Moisture	18		0.050	% of sample	1	10/18/2016 06:49 PM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 10/20/16	Analyst: <b>LW</b>
pH	8.2			s.u.	1	10/20/2016 04:15 PM

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

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Sample ID:** S-Wall @ 12'  
**Collection Date:** 10/17/2016 11:18 AM

**Work Order:** 16101161  
**Lab ID:** 16101161-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3546 / 10/21/16	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>29</b>		<b>5.7</b>	<b>mg/Kg-dry</b>	1	10/24/2016 10:29 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>67.3</i>		<i>39-133</i>	<i>%REC</i>	1	10/24/2016 10:29 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			<b>SW8015D</b>		Prep: SW5035 / 10/19/16	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>28</b>		<b>3.4</b>	<b>mg/Kg-dry</b>	1	10/19/2016 11:56 PM
<i>Surr: Toluene-d8</i>	<i>85.9</i>		<i>50-150</i>	<i>%REC</i>	1	10/19/2016 11:56 PM
<b>MERCURY BY CVAA</b>			<b>SW7471B</b>		Prep: SW7471 / 10/24/16	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.022</b>		<b>0.015</b>	<b>mg/Kg-dry</b>	1	10/25/2016 02:42 PM
<b>METALS ANALYSIS BY ICP</b>			<b>SW846 6010C</b>		Prep: SW3050B / 10/21/16	Analyst: <b>RH</b>
<b>Arsenic</b>	<b>5.1</b>		<b>0.45</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Barium</b>	<b>53</b>		<b>0.45</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Cadmium</b>	<b>ND</b>		<b>0.90</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Chromium</b>	<b>6.1</b>		<b>0.45</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Copper</b>	<b>11</b>		<b>0.90</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Lead</b>	<b>8.3</b>		<b>0.45</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Nickel</b>	<b>14</b>		<b>0.45</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Selenium</b>	<b>ND</b>		<b>0.90</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Silver</b>	<b>ND</b>		<b>0.45</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>Zinc</b>	<b>41</b>		<b>0.90</b>	<b>mg/Kg-dry</b>	1	10/26/2016 07:29 PM
<b>SOLUBLE CATIONS FOR SAR</b>			<b>SW846 6010C</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
<b>Calcium</b>	<b>340</b>		<b>5.0</b>	<b>mg/L</b>	10	10/27/2016 04:05 AM
<b>Magnesium</b>	<b>190</b>		<b>2.0</b>	<b>mg/L</b>	10	10/27/2016 04:05 AM
<b>Sodium</b>	<b>160</b>		<b>2.0</b>	<b>mg/L</b>	10	10/27/2016 04:05 AM
<b>SODIUM ADSORPTION RATIO</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
<b>Sodium Adsorption Ratio</b>	<b>1.7</b>		<b>0.010</b>	<b>none</b>	1	10/26/2016
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW846 8270D</b>		Prep: SW3546 / 10/21/16	Analyst: <b>RM</b>
Acenaphthene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Anthracene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Benzo(a)anthracene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Benzo(a)pyrene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Benzo(b)fluoranthene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Benzo(k)fluoranthene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Chrysene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Dibenzo(a,h)anthracene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Fluoranthene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM

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

**ALS Group USA, Corp**

Date: 28-Oct-16

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Sample ID:** S-Wall @ 12'  
**Collection Date:** 10/17/2016 11:18 AM

**Work Order:** 16101161  
**Lab ID:** 16101161-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Indeno(1,2,3-cd)pyrene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Naphthalene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Pyrene	ND		0.0076	mg/Kg-dry	1	10/22/2016 06:14 AM
Surr: 2-Fluorobiphenyl	76.4		12-100	%REC	1	10/22/2016 06:14 AM
Surr: 4-Terphenyl-d14	95.8		25-137	%REC	1	10/22/2016 06:14 AM
Surr: Nitrobenzene-d5	62.5		37-107	%REC	1	10/22/2016 06:14 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 10/19/16	Analyst: <b>LSY</b>
Benzene	ND		0.023	mg/Kg-dry	1	10/24/2016 08:00 AM
Ethylbenzene	<b>0.032</b>		<b>0.023</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:00 AM
m,p-Xylene	<b>0.15</b>		<b>0.046</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:00 AM
o-Xylene	<b>0.026</b>		<b>0.023</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:00 AM
Toluene	ND		0.023	mg/Kg-dry	1	10/24/2016 08:00 AM
<b>Xylenes, Total</b>	<b>0.18</b>		<b>0.069</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:00 AM
Surr: 1,2-Dichloroethane-d4	96.7		70-130	%REC	1	10/24/2016 08:00 AM
Surr: 4-Bromofluorobenzene	99.7		70-130	%REC	1	10/24/2016 08:00 AM
Surr: Dibromofluoromethane	98.6		70-130	%REC	1	10/24/2016 08:00 AM
Surr: Toluene-d8	100		70-130	%REC	1	10/24/2016 08:00 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	<b>6.6</b>		<b>0.25</b>	<b>mmhos/cm @2</b>	50	10/25/2016 12:30 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>MB</b>
Chromium, Trivalent	<b>6.1</b>		<b>0.59</b>	<b>mg/Kg-dry</b>	1	10/27/2016 12:20 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 10/20/16	Analyst: <b>MB</b>
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	10/21/2016 03:30 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>EDL</b>
Moisture	<b>15</b>		<b>0.050</b>	<b>% of sample</b>	1	10/18/2016 06:49 PM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 10/20/16	Analyst: <b>LW</b>
pH	<b>7.7</b>			<b>s.u.</b>	1	10/20/2016 04:15 PM

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

Client: Caerus Oil and Gas LLC  
 Project: Starkey 1  
 Sample ID: W-Wall #3 @ 12'  
 Collection Date: 10/17/2016 02:20 PM

Work Order: 16101161  
 Lab ID: 16101161-05  
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3546 / 10/21/16	Analyst: <b>IT</b>
DRO (C10-C28)	710		6.0	mg/Kg-dry	1	10/24/2016 10:58 PM
Surr: 4-Terphenyl-d14	67.7		39-133	%REC	1	10/24/2016 10:58 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			<b>SW8015D</b>		Prep: SW5035 / 10/19/16	Analyst: <b>IT</b>
GRO (C6-C10)	550		3.6	mg/Kg-dry	1	10/20/2016 12:21 PM
Surr: Toluene-d8	94.8		50-150	%REC	1	10/20/2016 12:21 PM
<b>MERCURY BY CVAA</b>			<b>SW7471B</b>		Prep: SW7471 / 10/24/16	Analyst: <b>LR</b>
Mercury	0.11		0.017	mg/Kg-dry	1	10/25/2016 02:47 PM
<b>METALS ANALYSIS BY ICP</b>			<b>SW846 6010C</b>		Prep: SW3050B / 10/21/16	Analyst: <b>RH</b>
Arsenic	24		0.46	mg/Kg-dry	1	10/26/2016 07:35 PM
Barium	98		0.46	mg/Kg-dry	1	10/26/2016 07:35 PM
Cadmium	ND		0.93	mg/Kg-dry	1	10/26/2016 07:35 PM
Chromium	7.9		0.46	mg/Kg-dry	1	10/26/2016 07:35 PM
Copper	13		0.93	mg/Kg-dry	1	10/26/2016 07:35 PM
Lead	13		0.46	mg/Kg-dry	1	10/26/2016 07:35 PM
Nickel	17		0.46	mg/Kg-dry	1	10/26/2016 07:35 PM
Selenium	ND		0.93	mg/Kg-dry	1	10/26/2016 07:35 PM
Silver	ND		0.46	mg/Kg-dry	1	10/26/2016 07:35 PM
Zinc	68		0.93	mg/Kg-dry	1	10/26/2016 07:35 PM
<b>SOLUBLE CATIONS FOR SAR</b>			<b>SW846 6010C</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
Calcium	640		5.0	mg/L	10	10/27/2016 04:11 AM
Magnesium	310		2.0	mg/L	10	10/27/2016 04:11 AM
Sodium	360		2.0	mg/L	10	10/27/2016 04:11 AM
<b>SODIUM ADSORPTION RATIO</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>RH</b>
Sodium Adsorption Ratio	2.9		0.010	none	1	10/26/2016
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW846 8270D</b>		Prep: SW3546 / 10/21/16	Analyst: <b>RM</b>
Acenaphthene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Anthracene	0.029		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Benzo(a)anthracene	0.010		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Benzo(a)pyrene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Benzo(b)fluoranthene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Benzo(k)fluoranthene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Chrysene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Dibenzo(a,h)anthracene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
Fluoranthene	0.013		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM

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

# ALS Group USA, Corp

Date: 28-Oct-16

**Client:** Caerus Oil and Gas LLC  
**Project:** Starkey 1  
**Sample ID:** W-Wall #3 @ 12'  
**Collection Date:** 10/17/2016 02:20 PM

**Work Order:** 16101161  
**Lab ID:** 16101161-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Fluorene</b>	<b>0.12</b>		<b>0.0080</b>	<b>mg/Kg-dry</b>	1	10/22/2016 06:35 AM
Indeno(1,2,3-cd)pyrene	ND		0.0080	mg/Kg-dry	1	10/22/2016 06:35 AM
<b>Naphthalene</b>	<b>0.11</b>		<b>0.0080</b>	<b>mg/Kg-dry</b>	1	10/22/2016 06:35 AM
<b>Pyrene</b>	<b>0.034</b>		<b>0.0080</b>	<b>mg/Kg-dry</b>	1	10/22/2016 06:35 AM
Surr: 2-Fluorobiphenyl	80.4		12-100	%REC	1	10/22/2016 06:35 AM
Surr: 4-Terphenyl-d14	95.4		25-137	%REC	1	10/22/2016 06:35 AM
Surr: Nitrobenzene-d5	68.0		37-107	%REC	1	10/22/2016 06:35 AM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 10/19/16	Analyst: <b>LSY</b>
<b>Benzene</b>	<b>0.068</b>		<b>0.025</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:26 AM
<b>Ethylbenzene</b>	<b>0.052</b>		<b>0.025</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:26 AM
<b>m,p-Xylene</b>	<b>0.16</b>		<b>0.050</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:26 AM
<b>o-Xylene</b>	<b>0.028</b>		<b>0.025</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:26 AM
Toluene	ND		0.025	mg/Kg-dry	1	10/24/2016 08:26 AM
<b>Xylenes, Total</b>	<b>0.19</b>		<b>0.075</b>	<b>mg/Kg-dry</b>	1	10/24/2016 08:26 AM
Surr: 1,2-Dichloroethane-d4	96.5		70-130	%REC	1	10/24/2016 08:26 AM
Surr: 4-Bromofluorobenzene	91.4		70-130	%REC	1	10/24/2016 08:26 AM
Surr: Dibromofluoromethane	97.2		70-130	%REC	1	10/24/2016 08:26 AM
Surr: Toluene-d8	99.1		70-130	%REC	1	10/24/2016 08:26 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 10/24/16	Analyst: <b>JB</b>
<b>Electrical Conductivity @ Saturation</b>	<b>8.5</b>		<b>0.25</b>	<b>mmhos/cm @2</b>	50	10/25/2016 12:30 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>MB</b>
<b>Chromium, Trivalent</b>	<b>7.9</b>		<b>0.61</b>	<b>mg/Kg-dry</b>	1	10/27/2016 12:20 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 10/20/16	Analyst: <b>MB</b>
<b>Chromium, Hexavalent</b>	ND		1.2	mg/Kg-dry	1	10/21/2016 03:30 PM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>EDL</b>
<b>Moisture</b>	<b>18</b>		<b>0.050</b>	<b>% of sample</b>	1	10/18/2016 06:49 PM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 10/20/16	Analyst: <b>LW</b>
<b>pH</b>	<b>7.8</b>			<b>s.u.</b>	1	10/20/2016 04:15 PM

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

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 16101161  
**Project:** Starkey 1

**QC BATCH REPORT**

Batch ID: **93287** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: <b>DBLKS1-93287-93287</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/24/2016 04:33 PM</b>		
Client ID:		Run ID: <b>GC8_161024A</b>		SeqNo: <b>4106952</b>		Prep Date: <b>10/21/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	2.497	0	3.33	0	75	39-133	0			

LCS		Sample ID: <b>DLCSS1-93287-93287</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/24/2016 05:03 PM</b>		
Client ID:		Run ID: <b>GC8_161024A</b>		SeqNo: <b>4106953</b>		Prep Date: <b>10/21/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	299.4	5.0	333	0	89.9	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	2.223	0	3.33	0	66.7	39-133	0			

MS		Sample ID: <b>16101161-02A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/24/2016 05:33 PM</b>		
Client ID: <b>N-Wall #2 @ 12'</b>		Run ID: <b>GC8_161024A</b>		SeqNo: <b>4106954</b>		Prep Date: <b>10/21/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	285.2	5.0	331.5	32.05	76.4	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.882	0	3.315	0	56.8	39-133	0			

MSD		Sample ID: <b>16101161-02A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/24/2016 06:02 PM</b>		
Client ID: <b>N-Wall #2 @ 12'</b>		Run ID: <b>GC8_161024A</b>		SeqNo: <b>4106955</b>		Prep Date: <b>10/21/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	326	5.0	331.2	32.05	88.7	48-110	285.2	13.3	30	
<i>Surr: 4-Terphenyl-d14</i>	2.071	0	3.312	0	62.5	39-133	1.882	9.55	30	

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93163 Instrument ID GC9 Method: SW8015D

MBLK		Sample ID: MBLK-93163-93163				Units: µg/Kg-dry		Analysis Date: 10/19/2016 04:51 PM		
Client ID:		Run ID: GC9_161019A		SeqNo: 4097854		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	4843	0	5000	0	96.9	50-150	0			

MBLK		Sample ID: MBLK-93163-93163				Units: µg/Kg-dry		Analysis Date: 10/21/2016 12:45 PM		
Client ID:		Run ID: GC9_161020C		SeqNo: 4102047		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								

LCS		Sample ID: LCS-93163-93163				Units: µg/Kg-dry		Analysis Date: 10/19/2016 05:16 PM		
Client ID:		Run ID: GC9_161019A		SeqNo: 4097855		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	504500	2,500	500000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	5340	0	5000	0	107	50-150	0			

LCS		Sample ID: LCS-93163-93163				Units: µg/Kg-dry		Analysis Date: 10/21/2016 12:19 PM		
Client ID:		Run ID: GC9_161020C		SeqNo: 4102046		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	10180	2,500	10000	0	102	80-120	0			

LCSD		Sample ID: LCSD-93163-93163				Units: µg/Kg-dry		Analysis Date: 10/21/2016 04:17 A		
Client ID:		Run ID: GC9_161020C		SeqNo: 4102045		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	10680	2,500	10000	0	107	80-120	10180	4.87	20	

MS		Sample ID: 16101118-01A MS				Units: µg/Kg-dry		Analysis Date: 10/19/2016 06:06 PM		
Client ID:		Run ID: GC9_161019A		SeqNo: 4099563		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1180000	3,600	719500	351400	115	70-130	0			
<i>Surr: Toluene-d8</i>	9340	0	7195	0	130	50-150	0			

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

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 16101161  
**Project:** Starkey 1

# QC BATCH REPORT

Batch ID: **93163**      Instrument ID **GC9**      Method: **SW8015D**

MSD		Sample ID: 16101118-01A MSD				Units: µg/Kg-dry		Analysis Date: 10/19/2016 06:31 PM		
Client ID:		Run ID: GC9_161019A		SeqNo: 4099564		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	762700	3,600	719500	351400	57.2	70-130	1180000	42.9	30	SR
<i>Surr: Toluene-d8</i>	<i>8815</i>	<i>0</i>	<i>7195</i>	<i>0</i>	<i>123</i>	<i>50-150</i>	<i>9340</i>	<i>5.78</i>	<i>30</i>	

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93430 Instrument ID HG1 Method: SW7471B

<b>MBLK</b>		Sample ID: <b>MBLK-93430-93430</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/25/2016 01:17 PM</b>		
Client ID:		Run ID: <b>HG1_161025A</b>		SeqNo: <b>4109385</b>		Prep Date: <b>10/24/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

<b>LCS</b>		Sample ID: <b>LCS-93430-93430</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/25/2016 01:20 PM</b>		
Client ID:		Run ID: <b>HG1_161025A</b>		SeqNo: <b>4109386</b>		Prep Date: <b>10/24/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1683 0.020 0.1665 0 101 80-120 0

<b>MS</b>		Sample ID: <b>16101161-03AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/25/2016 02:37 PM</b>		
Client ID: <b>E-Wall @ 12'</b>		Run ID: <b>HG1_161025A</b>		SeqNo: <b>4109413</b>		Prep Date: <b>10/24/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1459 0.014 0.1143 0.02975 102 75-125 0

<b>MSD</b>		Sample ID: <b>16101161-03AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>10/25/2016 02:39 PM</b>		
Client ID: <b>E-Wall @ 12'</b>		Run ID: <b>HG1_161025A</b>		SeqNo: <b>4109414</b>		Prep Date: <b>10/24/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1467 0.014 0.1154 0.02975 101 75-125 0.1459 0.527 35

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93324 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-93324-93324				Units: mg/Kg		Analysis Date: 10/26/2016 11:35 A		
Client ID:		Run ID: ICP2_161026A			SeqNo: 4112055		Prep Date: 10/21/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.01837	0.25								J
Copper	ND	0.50								
Lead	0.1129	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.09893	0.50								J

LCS		Sample ID: LCS-93324-93324				Units: mg/Kg		Analysis Date: 10/26/2016 11:41 A		
Client ID:		Run ID: ICP2_161026A			SeqNo: 4112056		Prep Date: 10/21/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.588	0.25	5	0	112	80-120	0			
Barium	5.595	0.25	5	0	112	80-120	0			
Cadmium	5.546	0.50	5	0	111	80-120	0			
Chromium	5.676	0.25	5	0	114	80-120	0			
Copper	5.674	0.50	5	0	113	80-120	0			
Lead	5.627	0.25	5	0	113	80-120	0			
Nickel	5.47	0.25	5	0	109	80-120	0			
Selenium	4.986	0.50	5	0	99.7	80-120	0			
Silver	5.315	0.25	5	0	106	80-120	0			
Zinc	5.542	0.50	5	0	111	80-120	0			

MS		Sample ID: 16101124-04AMS				Units: mg/Kg		Analysis Date: 10/26/2016 11:57 A		
Client ID:		Run ID: ICP2_161026A			SeqNo: 4112059		Prep Date: 10/21/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.607	0.40	7.949	0.6621	113	75-125	0			
Barium	11.23	0.40	7.949	2.793	106	75-125	0			
Cadmium	8.869	0.79	7.949	-0.02494	112	75-125	0			
Chromium	11.22	0.40	7.949	2.637	108	75-125	0			
Copper	10.11	0.79	7.949	2.517	95.6	75-125	0			
Lead	9.58	0.40	7.949	1.224	105	75-125	0			
Nickel	10.43	0.40	7.949	2.074	105	75-125	0			
Selenium	8.06	0.79	7.949	-0.1741	104	75-125	0			
Silver	8.047	0.40	7.949	-0.0761	102	75-125	0			
Zinc	12.61	0.79	7.949	4.028	108	75-125	0			

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

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 16101161  
**Project:** Starkey 1

# QC BATCH REPORT

Batch ID: **93324**      Instrument ID **ICP2**      Method: **SW846 6010C**

MSD		Sample ID: 16101124-04AMSD				Units: mg/Kg		Analysis Date: 10/26/2016 12:02 PM		
Client ID:		Run ID: ICP2_161026A			SeqNo: 4112060		Prep Date: 10/21/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.865	0.39	7.862	0.6621	104	75-125	9.607	8.04	20	
Barium	11.53	0.39	7.862	2.793	111	75-125	11.23	2.67	20	
Cadmium	8.301	0.79	7.862	-0.02494	106	75-125	8.869	6.62	20	
Chromium	10.46	0.39	7.862	2.637	99.6	75-125	11.22	6.97	20	
Copper	9.792	0.79	7.862	2.517	92.5	75-125	10.11	3.22	20	
Lead	8.827	0.39	7.862	1.224	96.7	75-125	9.58	8.18	20	
Nickel	9.688	0.39	7.862	2.074	96.8	75-125	10.43	7.38	20	
Selenium	7.836	0.79	7.862	-0.1741	102	75-125	8.06	2.82	20	
Silver	7.927	0.39	7.862	-0.0761	102	75-125	8.047	1.5	20	
Zinc	11.35	0.79	7.862	4.028	93.1	75-125	12.61	10.6	20	

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

**Client:** Caerus Oil and Gas LLC

**Work Order:** 16101161

**Project:** Starkey 1

# QC BATCH REPORT

Batch ID: **93425**

Instrument ID **SAR**

Method: **USDA H60 Metho**

<b>DUP</b>	Sample ID: <b>16101116-01ADUP</b>		Units: <b>none</b>		Analysis Date: <b>10/26/2016</b>					
Client ID:	Run ID: <b>SAR_161026A</b>		SeqNo: <b>4118733</b>		Prep Date: <b>10/24/2016</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	155.7	0.010	0	0	0		205.4	27.5	50	

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

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93286 Instrument ID SVMS8 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-93286-93286				Units: µg/Kg		Analysis Date: 10/21/2016 07:23 PM		
Client ID:		Run ID: SVMS8_161021A		SeqNo: 4106728		Prep Date: 10/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	2928	0	3333	0	87.8	12-100	0			
Surr: 4-Terphenyl-d14	3498	0	3333	0	105	25-137	0			
Surr: Nitrobenzene-d5	2409	0	3333	0	72.3	37-107	0			

LCS		Sample ID: SLCSS1-93286-93286				Units: µg/Kg		Analysis Date: 10/21/2016 07:44 PM		
Client ID:		Run ID: SVMS8_161021A		SeqNo: 4106729		Prep Date: 10/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1097	6.7	1333	0	82.3	45-110	0			
Anthracene	1205	6.7	1333	0	90.4	55-105	0			
Benzo(a)anthracene	1243	6.7	1333	0	93.2	50-110	0			
Benzo(a)pyrene	1249	6.7	1333	0	93.7	50-110	0			
Benzo(b)fluoranthene	1318	6.7	1333	0	98.9	45-115	0			
Benzo(k)fluoranthene	1253	6.7	1333	0	94	45-115	0			
Chrysene	1149	6.7	1333	0	86.2	55-110	0			
Dibenzo(a,h)anthracene	1094	6.7	1333	0	82.1	40-125	0			
Fluoranthene	1174	6.7	1333	0	88.1	55-115	0			
Fluorene	1111	6.7	1333	0	83.4	50-110	0			
Indeno(1,2,3-cd)pyrene	1169	6.7	1333	0	87.7	40-120	0			
Naphthalene	996	6.7	1333	0	74.7	40-105	0			
Pyrene	1404	6.7	1333	0	105	45-125	0			
Surr: 2-Fluorobiphenyl	3003	0	3333	0	90.1	12-100	0			
Surr: 4-Terphenyl-d14	3431	0	3333	0	103	25-137	0			
Surr: Nitrobenzene-d5	2523	0	3333	0	75.7	37-107	0			

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93286 Instrument ID SVMS8 Method: SW846 8270D

MS				Sample ID: 16101098-13B MS			Units: µg/Kg		Analysis Date: 10/21/2016 09:36 PM		
Client ID:		Run ID: SVMS8_161021A		SeqNo: 4106733		Prep Date: 10/21/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	959.3	6.5	1290	0	74.4	45-110	0				
Anthracene	1018	6.5	1290	6.564	78.4	55-105	0				
Benzo(a)anthracene	1067	6.5	1290	33.48	80.1	50-110	0				
Benzo(a)pyrene	1071	6.5	1290	30.85	80.6	50-110	0				
Benzo(b)fluoranthene	1147	6.5	1290	37.41	86	45-115	0				
Benzo(k)fluoranthene	1075	6.5	1290	17.07	82	45-115	0				
Chrysene	1006	6.5	1290	27.57	75.9	55-110	0				
Dibenzo(a,h)anthracene	905.1	6.5	1290	8.533	69.5	40-125	0				
Fluoranthene	976.7	6.5	1290	45.95	72.2	55-115	0				
Fluorene	936.7	6.5	1290	0	72.6	50-110	0				
Indeno(1,2,3-cd)pyrene	964.5	6.5	1290	24.94	72.8	40-120	0				
Naphthalene	937.4	6.5	1290	43.98	69.3	40-105	0				
Pyrene	1330	6.5	1290	61.04	98.3	45-125	0				
Surr: 2-Fluorobiphenyl	2766	0	3225	0	85.7	12-100	0				
Surr: 4-Terphenyl-d14	3113	0	3225	0	96.5	25-137	0				
Surr: Nitrobenzene-d5	2375	0	3225	0	73.6	37-107	0				

MSD				Sample ID: 16101098-13B MSD			Units: µg/Kg		Analysis Date: 10/21/2016 09:57 PM		
Client ID:		Run ID: SVMS8_161021A		SeqNo: 4106734		Prep Date: 10/21/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	981.3	6.5	1299	0	75.5	45-110	981.3	0	30		
Anthracene	1098	6.5	1299	6.564	84	55-105	1098	0	30		
Benzo(a)anthracene	1176	6.5	1299	33.48	87.9	50-110	1176	0	30		
Benzo(a)pyrene	1207	6.5	1299	30.85	90.5	50-110	1207	0	30		
Benzo(b)fluoranthene	1291	6.5	1299	37.41	96.5	45-115	1291	0	30		
Benzo(k)fluoranthene	1180	6.5	1299	17.07	89.5	45-115	1180	0	30		
Chrysene	1107	6.5	1299	27.57	83	55-110	1107	0	30		
Dibenzo(a,h)anthracene	1042	6.5	1299	8.533	79.5	40-125	1042	0	30		
Fluoranthene	1166	6.5	1299	45.95	86.2	55-115	1166	0	30		
Fluorene	1020	6.5	1299	0	78.5	50-110	1020	0	30		
Indeno(1,2,3-cd)pyrene	1089	6.5	1299	24.94	81.9	40-120	1089	0	30		
Naphthalene	946.2	6.5	1299	43.98	69.4	40-105	946.2	0	30		
Pyrene	1458	6.5	1299	61.04	107	45-125	1458	0	30		
Surr: 2-Fluorobiphenyl	2729	0	3249	0	84	12-100	2729	0	40		
Surr: 4-Terphenyl-d14	3259	0	3249	0	100	25-137	3259	0	40		
Surr: Nitrobenzene-d5	2386	0	3249	0	73.4	37-107	2386	0	40		

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93174 Instrument ID VMS9 Method: SW8260B

MBLK		Sample ID: MBLK-93174-93174				Units: µg/Kg-dry		Analysis Date: 10/20/2016 02:37 PM		
Client ID:		Run ID: VMS9_161020A		SeqNo: 4101249		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1036	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	974	0	1000	0	97.4	70-130	0			
Surr: Dibromofluoromethane	925	0	1000	0	92.5	70-130	0			
Surr: Toluene-d8	960.5	0	1000	0	96	70-130	0			

LCS		Sample ID: LCS-93174-93174				Units: µg/Kg-dry		Analysis Date: 10/20/2016 12:59 PM		
Client ID:		Run ID: VMS9_161020A		SeqNo: 4101248		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1040	30	1000	0	104	75-125	0			
Ethylbenzene	1075	30	1000	0	108	75-125	0			
m,p-Xylene	2174	60	2000	0	109	80-125	0			
o-Xylene	1086	30	1000	0	109	75-125	0			
Toluene	1060	30	1000	0	106	70-125	0			
Xylenes, Total	3260	90	3000	0	109	75-125	0			
Surr: 1,2-Dichloroethane-d4	1017	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	1004	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	967.5	0	1000	0	96.8	70-130	0			
Surr: Toluene-d8	987	0	1000	0	98.7	70-130	0			

MS		Sample ID: 16101161-02A MS				Units: µg/Kg-dry		Analysis Date: 10/20/2016 08:21 PM		
Client ID: N-Wall #2 @ 12'		Run ID: VMS9_161020A		SeqNo: 4100943		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1428	41	1353	0	106	75-125	0			
Ethylbenzene	1489	41	1353	0	110	75-125	0			
m,p-Xylene	3148	81	2706	40.91	115	80-125	0			
o-Xylene	1573	41	1353	47.41	113	75-125	0			
Toluene	1449	41	1353	0	107	70-125	0			
Xylenes, Total	4721	120	4059	88	114	75-125	0			
Surr: 1,2-Dichloroethane-d4	1373	0	1353	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1420	0	1353	0	105	70-130	0			
Surr: Dibromofluoromethane	1207	0	1353	0	89.2	70-130	0			
Surr: Toluene-d8	1283	0	1353	0	94.8	70-130	0			

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

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 16101161  
**Project:** Starkey 1

# QC BATCH REPORT

Batch ID: **93174**      Instrument ID **VMS9**      Method: **SW8260B**

MSD		Sample ID: 16101161-02A MSD				Units: µg/Kg-dry		Analysis Date: 10/20/2016 08:46 PM		
Client ID: N-Wall #2 @ 12'		Run ID: VMS9_161020A		SeqNo: 4100944		Prep Date: 10/19/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1447	41	1353	0	107	75-125	1428	1.32	30	
Ethylbenzene	1496	41	1353	0	111	75-125	1489	0.453	30	
m,p-Xylene	3123	81	2706	40.91	114	80-125	3148	0.777	30	
o-Xylene	1661	41	1353	47.41	119	75-125	1573	5.44	30	
Toluene	1486	41	1353	0	110	70-125	1449	2.54	30	
Xylenes, Total	4785	120	4059	88	116	75-125	4721	1.34	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1398	0	1353	0	103	70-130	1373	1.86	30	
<i>Surr: 4-Bromofluorobenzene</i>	1446	0	1353	0	107	70-130	1420	1.79	30	
<i>Surr: Dibromofluoromethane</i>	1237	0	1353	0	91.4	70-130	1207	2.44	30	
<i>Surr: Toluene-d8</i>	1326	0	1353	0	98	70-130	1283	3.32	30	

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 16101161  
**Project:** Starkey 1

# QC BATCH REPORT

Batch ID: **93260**      Instrument ID **WETCHEM**      Method: **SW9045D**

LCS		Sample ID: <b>LCS-93260-93260</b>				Units: <b>s.u.</b>		Analysis Date: <b>10/20/2016 04:15 PM</b>			
Client ID:		Run ID: <b>WETCHEM_161020R</b>		SeqNo: <b>4100159</b>		Prep Date: <b>10/20/2016</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.98	0	4	0	99.5	90-110	0				

DUP		Sample ID: <b>16101118-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>10/20/2016 04:15 PM</b>			
Client ID:		Run ID: <b>WETCHEM_161020R</b>		SeqNo: <b>4100167</b>		Prep Date: <b>10/20/2016</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.3	0	0	0	0	0-0	8.38	0.959	20	H	

DUP		Sample ID: <b>16101210-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>10/20/2016 04:15 PM</b>			
Client ID:		Run ID: <b>WETCHEM_161020R</b>		SeqNo: <b>4100176</b>		Prep Date: <b>10/20/2016</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.07	0	0	0	0	0-0	8.01	0.746	20		

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: 93335 Instrument ID WETCHEM Method: SW7196A

<b>MBLK</b>	Sample ID: <b>MBLK-93335-93335</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>10/21/2016 03:30 PM</b>					
Client ID:	Run ID: <b>WETCHEM_161021U</b>		SeqNo: <b>4102780</b>		Prep Date: <b>10/20/2016</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

<b>LCS</b>	Sample ID: <b>LCS-93335-93335</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>10/21/2016 03:30 PM</b>					
Client ID:	Run ID: <b>WETCHEM_161021U</b>		SeqNo: <b>4102779</b>		Prep Date: <b>10/20/2016</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.45 1.0 5 0 89 80-120 0

<b>MS</b>	Sample ID: <b>1610342-04B MS</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>10/21/2016 03:30 PM</b>					
Client ID:	Run ID: <b>WETCHEM_161021U</b>		SeqNo: <b>4102773</b>		Prep Date: <b>10/20/2016</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.737 1.0 5.051 0 54.2 75-125 0 S

<b>MS</b>	Sample ID: <b>1610342-04B MSI</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>10/21/2016 03:30 PM</b>					
Client ID:	Run ID: <b>WETCHEM_161021U</b>		SeqNo: <b>4102775</b>		Prep Date: <b>10/20/2016</b> DF: <b>100</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2098 100 2285 0 91.8 75-125 0

<b>MSD</b>	Sample ID: <b>1610342-04B MSD</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>10/21/2016 03:30 PM</b>					
Client ID:	Run ID: <b>WETCHEM_161021U</b>		SeqNo: <b>4102774</b>		Prep Date: <b>10/20/2016</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.01 1.0 5.102 0 59 75-125 2.737 9.49 20 S

The following samples were analyzed in this batch:

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 16101161  
**Project:** Starkey 1

# QC BATCH REPORT

Batch ID: **93425**      Instrument ID **WETCHEM**      Method: **USDA H60 Metho**

<b>DUP</b>	Sample ID: <b>16101116-01A DUP</b>				Units: <b>mmhos/cm @25°</b>	Analysis Date: <b>10/25/2016 12:30 PM</b>				
Client ID:	Run ID: <b>WETCHEM_161025F</b>			SeqNo: <b>4108564</b>	Prep Date: <b>10/24/2016</b>	DF: <b>50</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	186	0.25	0	0	0		228	20.3	50	

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

16101161-01A	16101161-02A	16101161-03A
16101161-04A	16101161-05A	

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

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: **R198483** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>	Sample ID: <b>WBLKS-R198483</b>		Units: % of sample		Analysis Date: <b>10/18/2016 04:47 PM</b>					
Client ID:	Run ID: <b>MOIST_161018D</b>		SeqNo: <b>4096504</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

<b>LCS</b>	Sample ID: <b>LCS-R198483</b>		Units: % of sample		Analysis Date: <b>10/18/2016 04:47 PM</b>					
Client ID:	Run ID: <b>MOIST_161018D</b>		SeqNo: <b>4096503</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

<b>DUP</b>	Sample ID: <b>16101124-05A DUP</b>		Units: % of sample		Analysis Date: <b>10/18/2016 04:47 PM</b>					
Client ID:	Run ID: <b>MOIST_161018D</b>		SeqNo: <b>4096489</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 10.13 0.050 0 0 0 9.93 1.99 20

<b>DUP</b>	Sample ID: <b>16101124-07A DUP</b>		Units: % of sample		Analysis Date: <b>10/18/2016 04:47 PM</b>					
Client ID:	Run ID: <b>MOIST_161018D</b>		SeqNo: <b>4096492</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.5 0.050 0 0 0 13.9 2.92 20

The following samples were analyzed in this batch:

16101161-01A	16101161-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 16101161  
 Project: Starkey 1

# QC BATCH REPORT

Batch ID: **R198488** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: <b>WBLKS-R198488</b>				Units: % of sample			Analysis Date: <b>10/18/2016 06:49 PM</b>		
Client ID:		Run ID: <b>MOIST_161018E</b>				SeqNo: <b>4096569</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: <b>LCS-R198488</b>				Units: % of sample			Analysis Date: <b>10/18/2016 06:49 PM</b>		
Client ID:		Run ID: <b>MOIST_161018E</b>				SeqNo: <b>4096568</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: <b>16101161-03A DUP</b>				Units: % of sample			Analysis Date: <b>10/18/2016 06:49 PM</b>		
Client ID: <b>E-Wall @ 12'</b>		Run ID: <b>MOIST_161018E</b>				SeqNo: <b>4096547</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 18.32 0.050 0 0 0 17.61 3.95 20

DUP		Sample ID: <b>16101161-04A DUP</b>				Units: % of sample			Analysis Date: <b>10/18/2016 06:49 PM</b>		
Client ID: <b>S-Wall @ 12'</b>		Run ID: <b>MOIST_161018E</b>				SeqNo: <b>4096549</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 15.15 0.050 0 0 0 15.18 0.198 20

The following samples were analyzed in this batch:

16101161-03A	16101161-04A	16101161-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



# ALS Laboratory Group

ALS Holland 3352 128th Ave, Holland MI  
855-572-1944 818-399-8070

# Chain-of-Custody

Form 2024

WORKORDER # **10101161**

PAGE 1 of 1

DISPOSAL (By Lab) or Return to Client

PROJECT NAME	Starkey 1	SAMPLER	Tyler Rust / Jake Janicek					DATE	10/17/16	TURNAROUND	STO 5 Day												
PROJECT No.		SITE ID		EDD FORMAT		TPH/GRO/DRO		BTEX		Table 910 PAH's		EC		PH		SAR		Benzene		Table 910 Metals			
COMPANY NAME	Caerus Piceance, LLC	BILL TO COMPANY	Caerus Piceance, LLC					PHONE	970-285-9608														
SEND REPORT TO	Jake Janicek	INVOICE ATTN TO	Jake Janicek					FAX															
ADDRESS	120 N. Railroad, suite D	ADDRESS	120 N. Railroad, suite D					E-MAIL	janicek@caerusoilandgas.com														
CITY / STATE / ZIP	Parachute Co, 81635	CITY / STATE / ZIP	Parachute Co, 81635					E-MAIL	invoices@caerusoilandgas.com														
PHONE	970-285-9608	PHONE	970-285-9608					Lab ID		Field ID		Matrix		Sample Date		Sample Time		# Bottles		Pres.		QC	
FAX		FAX						1		2		3		4		5		6		7		8	
E-MAIL	janicek@caerusoilandgas.com	E-MAIL	invoices@caerusoilandgas.com					9		10		11		12		13		14		15		16	
1	Base @ 18.5'	Soil	10/17/16	1015	2	-	-	X	X	X	X	X	X	X	X	X	X	X	X				
2	N-Wall #2 @ 12'	Soil	10/17/16	1317	2	-	-	X	X	X	X	X	X	X	X	X	X	X	X				
3	E-Wall @ 12'	Soil	10/17/16	1040	2	-	-	X	X	X	X	X	X	X	X	X	X	X	X				
4	S-Wall @ 12'	Soil	10/17/16	1118	2	-	-	X	X	X	X	X	X	X	X	X	X	X	X				
5	W-Wall #3 @ 12'	Soil	10/17/16	1420	2	-	-	X	X	X	X	X	X	X	X	X	X	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=fiber

For metals or anions, please detail analytes below.

Comments: 2.2

QC PACKAGE (check below)
<input checked="" type="checkbox"/> LEVEL II (Standard QC)
<input type="checkbox"/> LEVEL III (Std QC + forms)
<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Tyler Rust</i>	Tyler Rust	10/17/16	3:52
RECEIVED BY	<i>Mich. M.</i>	Mich. M.	10-17-16	3:57
RELINQUISHED BY	<i>[Signature]</i>		10/17/16	4:45
RECEIVED BY	<i>[Signature]</i>		10/18/16	9:30
RELINQUISHED BY				
RECEIVED BY				

ORIGIN ID: RLA (616) 288-1033  
NICK MARTINEZ  
ALS ENVIRONMENTAL PARACHUTE  
PARACHUTE SERVICE CENTER  
127 EAST 1ST ST  
PARACHUTE, CO 81635  
UNITED STATES US

SHIP DATE: 17OCT16  
ACTWGT: 70.00 LB  
CAD: 22046400NET13790  
DIMS: 74x26x15 IN  
BILL SENDER

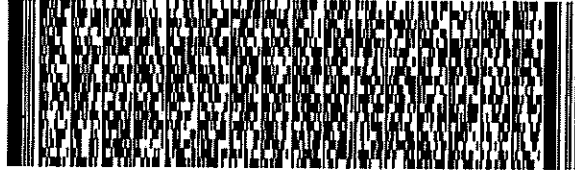
TO **SAMPLE RECEIVING**  
**ALS ENVIRONMENTAL HOLLAND LAB**  
**3352 128TH AVE**

**HOLLAND MI 49424**

(616) 398-6070 REF: 101716-1  
INV: PO: PARACHUTE DEPT:

544,QFB4214EB

01 0201 7774 9043 0150



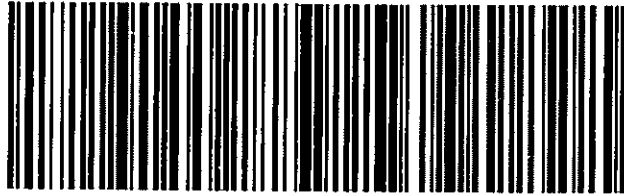
REL# 3785346

TUE - 18 OCT 10:30A  
PRIORITY OVERNIGHT

TRK# 7774 9043 0150  
0201

**XX HLMA**

MI-US 49424 GRR



**After printing this label:**

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

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30-Jul-2013

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

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

Work Order: **1307799**

Dear Herman,

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

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

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

The total number of pages in this report is 14.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

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

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

Environmental ALS

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

RIGHT SOLUTIONS RIGHT PARTNER

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

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1307799-01	BKGD 1	Soil		7/22/2013 13:45	7/23/2013 10:00	<input type="checkbox"/>
1307799-02	BKGD 2	Soil		7/22/2013 13:35	7/23/2013 10:00	<input type="checkbox"/>
1307799-03	BKGD 3	Soil		7/22/2013 13:30	7/23/2013 10:00	<input type="checkbox"/>

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

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	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

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

# ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions  
 Project: Caerus Chevron 41-8D 13-199 7/22/13  
 Sample ID: BKGD 1  
 Collection Date: 7/22/2013 01:45 PM

Work Order: 1307799  
 Lab ID: 1307799-01  
 Matrix: SOIL

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

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

**ALS Group USA, Corp**

Date: 30-Jul-13

**Client:** HRL Compliance Solutions**Project:** Caerus Chevron 41-8D 13-199 7/22/13**Work Order:** 1307799**Sample ID:** BKGD 2**Lab ID:** 1307799-02**Collection Date:** 7/22/2013 01:35 PM**Matrix:** SOIL

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

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

**ALS Group USA, Corp**

Date: 30-Jul-13

**Client:** HRL Compliance Solutions**Project:** Caerus Chevron 41-8D 13-199 7/22/13**Work Order:** 1307799**Sample ID:** BKGD 3**Lab ID:** 1307799-03**Collection Date:** 7/22/2013 01:30 PM**Matrix:** SOIL

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

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

Client: HRL Compliance Solutions

**QC BATCH REPORT**

Work Order: 1307799

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

Batch ID: **50013** Instrument ID **ICPMS1** Method: **SW6020A**

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

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

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

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

The following samples were analyzed in this batch: 

1307799-01A	1307799-02A	1307799-03A
-------------	-------------	-------------

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

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

# QC BATCH REPORT

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

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

**The following samples were analyzed in this batch:** 1307799-01B

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

# QC BATCH REPORT

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

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

pH	4.53	0	4.4	0	103	90-110	0			
----	------	---	-----	---	-----	--------	---	--	--	--

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

pH	9.13	0	0	0	0	0-0	9.13	0	20	
----	------	---	---	---	---	-----	------	---	----	--

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

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

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

# QC BATCH REPORT

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

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

Moisture ND 0.050

<b>LCS</b>	Sample ID: <b>LCS-R124049</b>		Units: % of sample				Analysis Date: <b>7/23/2013 12:40 PM</b>			
Client ID:	Run ID: <b>MOIST_130723A</b>		SeqNo: <b>2388371</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

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

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

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

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

The following samples were analyzed in this batch: 1307799-01A

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

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

# QC BATCH REPORT

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

MBLK		Sample ID: <b>WBLKS-R124058</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388576</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: <b>LCS-R124058</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388574</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: <b>1307794-01B DUP</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388528</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 15.1 0.050 0 0 0 0-0 15.45 2.29 20

DUP		Sample ID: <b>1307801-04A DUP</b>				Units: % of sample			Analysis Date: <b>7/23/2013</b>		
Client ID:		Run ID: <b>MOIST_130723C</b>				SeqNo: <b>2388551</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 32.26 0.050 0 0 0 0-0 31.81 1.4 20

The following samples were analyzed in this batch: 1307799-02A 1307799-03A

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



# ALS Laboratory Group

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

# Chain-of-Custody

Form 202r8

WORKORDER #	1307799
PAGE	1 of 1

PROJECT NAME	CAERUS CHEVRON 41-8D	SAMPLER	Casey Richardson				DATE	7-22-13				TURNAROUND	5 DAY				DISPOSAL	Lab or Return to Client			
PROJECT No.	13-199	SITE ID																			
		EDD FORMAT																			
		PURCHASE ORDER																			
COMPANY NAME	HCSI	BILL TO COMPANY	PDC Energy																		
SEND REPORT TO	Herman Lucero	INVOICE ATTN TO	Ed Winters																		
ADDRESS	2385 F 1/2 Road	ADDRESS	120 Railroad Ave. Suite D																		
CITY / STATE / ZIP	Grand Junction, CO. 81505	CITY / STATE / ZIP	Parachute, CO 81635																		
PHONE	970-243-3271	PHONE	970-285-9606																		
FAX	970-243-3280	FAX																			
E-MAIL	hlucero@hrlcomp.com	E-MAIL	ewinters@petd.com																		
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	SAR/EC/PAH	ARSENIC												
1	BKGD 1	SOIL	7-22-13	1345	2	8		X	X												
2	BKGD 2	SOIL	7-22-13	1335	1	8			X												
3	BKGD 3	SOIL	7-22-13	1330	1	8			X												

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

For metals or anions, please detail analytes below.

Comments:  5.02	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>	
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	7-22-13	1625
RECEIVED BY		Colby Koerner	7/22/13	1625
RELINQUISHED BY		Colby Koerner	7/22/13	1625
RECEIVED BY	Fed Ex			
RELINQUISHED BY				
RECEIVED BY		Diane F Shaw	7/23/13	1000

**Sample Receipt Checklist**

Client Name: **HRL**

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

Work Order: **1307799**

Received by: **DS**

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

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

Matrices: Soil  
 Carrier name: FedEx

- Shipping container/cooler in good condition? Yes  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):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

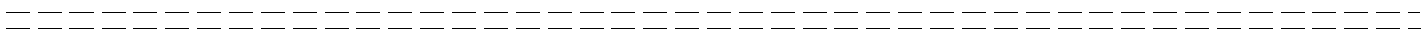
Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

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

Origin ID: RILA



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

Dims: 25 X 14 X 15 IN

127 E First Street  
PARACHUTE, CO 81635



J13111302120326

Delivery Address Bar Code



SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample receiving  
ALS Holland  
3352 128TH AVE

HOLLAND, MI 49424

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

TUE - 23 JUL 3:00P  
STANDARD OVERNIGHT

TRK# 7962 8879 8431

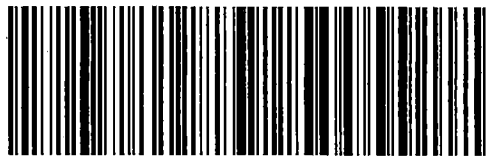
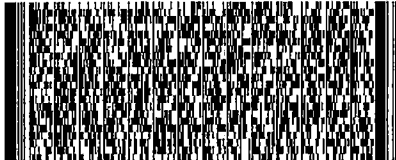
0201

49424

MI-US

GRR

XX GRRR



518G1/AA04/53AB

**After printing this label:**

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

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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