

**Starkey 5 (Location ID 335393)
Partially Buried Vault Removal
Form 4 (Notice of Completion)
Remediation Project Number 9915
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) at the Starkey 5 (Location ID 335393) pad location in the Caerus Piceance, LLC (Caerus) area of operations.

Upon removing the PBV from the ground, visual observations and field screening of soil around and below the tank indicated that hydrocarbon-impacted soil was not present. Therefore, no soil was removed.

On November 11, 2016, confirmation soil samples were collected from the soil beneath the removed PBV (Base@5' and East@7'). 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 undisturbed area near the Chevron 41-8D pad (COGCC Location ID 324198). 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 (Remediation Project Number 9915).

TABLE 1
STARKEY 5 PBV Removal
SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	Base@5'	East@7'	BKGD 1*
Sample Date			11/11/2016	11/11/2016	7/22/2013
Sample Type			Confirmation	Confirmation	Background
Arsenic	0.39	mg/kg	6.5	9.8	39
Barium	15,000	mg/kg	170	450	NA
Cadmium	70	mg/kg	ND	ND	NA
Chromium (III)	120,000	mg/kg	11	9.4	NA
Chromium (VI)	23	mg/kg	ND	ND	NA
Copper	3,100	mg/kg	10	9.7	NA
Lead	400	mg/kg	6.2	6.2	NA
Mercury	23	mg/kg	ND	ND	NA
Nickel	1,600	mg/kg	9.5	12	NA
Selenium	390	mg/kg	ND	ND	NA
Silver	390	mg/kg	ND	ND	NA
Zinc	23,000	mg/kg	31	36	NA
EC	4 or 2x background	mmhos/cm	1.2	1.5	NA
pH	6-9	SU	9.0	8.9	NA
SAR	12	unitless	2.2	1.6	NA
TPH-DRO			70	110	NA
TPH-GRO			ND	ND	NA
TPH	500	mg/kg	70	110	NA
Benzene	0.17	mg/kg	ND	ND	NA
Toluene	85	mg/kg	ND	ND	NA
Ethylbenzene	100	mg/kg	ND	ND	NA
Total Xylenes	175	mg/kg	ND	ND	NA
Acenaphthene	1,000	mg/kg	ND	ND	NA
Anthracene	1,000	mg/kg	ND	ND	NA
Benz(a)anthracene	0.22	mg/kg	ND	ND	NA
Benzo(b)fluoranthene	0.22	mg/kg	ND	ND	NA
Benzo(k)fluoranthene	2.2	mg/kg	ND	ND	NA
Benzo(a)pyrene	0.022	mg/kg	ND	ND	NA
Chrysene	22	mg/kg	ND	ND	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	ND	ND	NA
Fluoranthene	1,000	mg/kg	ND	ND	NA
Fluorene	1,000	mg/kg	ND	ND	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	ND	ND	NA
Naphthalene	23	mg/kg	ND	ND	NA
Pyrene	1,000	mg/kg	ND	ND	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



21-Nov-2016

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

Re: **Starkey 5 PBV Removal**

Work Order: **1611909**

Dear Jake,

ALS Environmental received 5 samples on 12-Nov-2016 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 industry accepted practices and Quality Control 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 31.

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", is written over a white background.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

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Environmental ALS Environmental logo icon consisting of a stylized flame inside a triangle.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Caerus Oil and Gas LLC
Project: Starkey 5 PBV Removal
Work Order: 1611909

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>
1611909-01	Base @ 5'	Soil		11/11/2016 10:10	11/12/2016 10:00	<input type="checkbox"/>
1611909-02	North @ 5.5'	Soil		11/11/2016 10:20	11/12/2016 10:00	<input type="checkbox"/>
1611909-03	East @ 7'	Soil		11/11/2016 10:25	11/12/2016 10:00	<input type="checkbox"/>
1611909-04	South @ 5.5'	Soil		11/11/2016 10:31	11/12/2016 10:00	<input type="checkbox"/>
1611909-05	West @ 5'	Soil		11/11/2016 10:42	11/12/2016 10:00	<input type="checkbox"/>

Client: Caerus Oil and Gas LLC
Project: Starkey 5 PBV Removal
WorkOrder: 1611909

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
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
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 5 PBV Removal
Sample ID: Base @ 5'
Collection Date: 11/11/2016 10:10 AM

Work Order: 1611909
Lab ID: 1611909-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 11/17/16	Analyst: IT
DRO (C10-C28)	70		5.2	mg/Kg-dry	1	11/18/2016 03:33 PM
<i>Surr: 4-Terphenyl-d14</i>	50.7		39-133	%REC	1	11/18/2016 03:33 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 11/16/16	Analyst: IT
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	11/16/2016 01:30 PM
<i>Surr: Toluene-d8</i>	88.4		50-150	%REC	1	11/16/2016 01:30 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 11/21/16	Analyst: LR
Mercury	ND		0.014	mg/Kg-dry	1	11/21/2016 01:33 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 11/15/16	Analyst: RH
Arsenic	6.5		0.35	mg/Kg-dry	1	11/15/2016 07:17 PM
Barium	170		0.35	mg/Kg-dry	1	11/15/2016 07:17 PM
Cadmium	ND		0.71	mg/Kg-dry	1	11/15/2016 07:17 PM
Chromium	11		0.35	mg/Kg-dry	1	11/15/2016 07:17 PM
Copper	10		0.71	mg/Kg-dry	1	11/15/2016 07:17 PM
Lead	6.2		0.35	mg/Kg-dry	1	11/15/2016 07:17 PM
Nickel	9.5		0.35	mg/Kg-dry	1	11/15/2016 07:17 PM
Selenium	ND		0.71	mg/Kg-dry	1	11/15/2016 07:17 PM
Silver	ND		0.35	mg/Kg-dry	1	11/15/2016 07:17 PM
Zinc	31		0.71	mg/Kg-dry	1	11/15/2016 07:17 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 11/16/16	Analyst: RH
Calcium	66		5.0	mg/L	10	11/16/2016 01:56 PM
Magnesium	20		2.0	mg/L	10	11/16/2016 01:56 PM
Sodium	81		2.0	mg/L	10	11/16/2016 01:56 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 11/16/16	Analyst: RH
Sodium Adsorption Ratio	2.2		0.010	none	1	11/16/2016
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3546 / 11/17/16	Analyst: RS
Acenaphthene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Anthracene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Benzo(a)anthracene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Benzo(a)pyrene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Benzo(b)fluoranthene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Benzo(k)fluoranthene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Chrysene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Dibenzo(a,h)anthracene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Fluoranthene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM

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

ALS Group, USA

Date: 21-Nov-16

Client: Caerus Oil and Gas LLC
Project: Starkey 5 PBV Removal
Sample ID: Base @ 5'
Collection Date: 11/11/2016 10:10 AM

Work Order: 1611909
Lab ID: 1611909-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Indeno(1,2,3-cd)pyrene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Naphthalene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Pyrene	ND		0.0069	mg/Kg-dry	1	11/18/2016 11:06 PM
Surr: 2-Fluorobiphenyl	79.0		12-100	%REC	1	11/18/2016 11:06 PM
Surr: 4-Terphenyl-d14	106		25-137	%REC	1	11/18/2016 11:06 PM
Surr: Nitrobenzene-d5	62.1		37-107	%REC	1	11/18/2016 11:06 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 11/16/16	Analyst: EMR
Benzene	ND		0.034	mg/Kg-dry	1	11/17/2016 11:27 PM
Ethylbenzene	ND		0.034	mg/Kg-dry	1	11/17/2016 11:27 PM
m,p-Xylene	ND		0.067	mg/Kg-dry	1	11/17/2016 11:27 PM
o-Xylene	ND		0.034	mg/Kg-dry	1	11/17/2016 11:27 PM
Toluene	ND		0.034	mg/Kg-dry	1	11/17/2016 11:27 PM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	11/17/2016 11:27 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	11/17/2016 11:27 PM
Surr: 4-Bromofluorobenzene	96.9		70-130	%REC	1	11/17/2016 11:27 PM
Surr: Dibromofluoromethane	94.6		70-130	%REC	1	11/17/2016 11:27 PM
Surr: Toluene-d8	97.9		70-130	%REC	1	11/17/2016 11:27 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 11/16/16	Analyst: JB
Electrical Conductivity @ Saturation	1.2		0.25	mmhos/cm @2	50	11/17/2016 04:45 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.53	mg/Kg-dry	1	11/18/2016 05:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 11/16/16	Analyst: BWW
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/17/2016 09:00 AM
MOISTURE			SW3550C			Analyst: EDL
Moisture	5.8		0.050	% of sample	1	11/14/2016 04:01 PM
PH			SW9045D		Prep: EXTRACT / 11/15/16	Analyst: RZM
pH	9.0			s.u.	1	11/15/2016 03:45 PM

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

Client: Caerus Oil and Gas LLC
Project: Starkey 5 PBV Removal
Sample ID: East @ 7'
Collection Date: 11/11/2016 10:25 AM

Work Order: 1611909
Lab ID: 1611909-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 11/17/16	Analyst: IT
DRO (C10-C28)	110		5.0	mg/Kg-dry	1	11/18/2016 04:03 PM
<i>Surr: 4-Terphenyl-d14</i>	56.3		39-133	%REC	1	11/18/2016 04:03 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 11/16/16	Analyst: IT
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	11/16/2016 01:55 PM
<i>Surr: Toluene-d8</i>	88.2		50-150	%REC	1	11/16/2016 01:55 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 11/21/16	Analyst: LR
Mercury	ND		0.014	mg/Kg-dry	1	11/21/2016 01:46 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 11/16/16	Analyst: RH
Arsenic	9.8		0.40	mg/Kg-dry	1	11/17/2016 04:01 PM
Barium	450		0.40	mg/Kg-dry	1	11/17/2016 04:01 PM
Cadmium	ND		0.81	mg/Kg-dry	1	11/17/2016 04:01 PM
Chromium	9.4		0.40	mg/Kg-dry	1	11/17/2016 04:01 PM
Copper	9.7		0.81	mg/Kg-dry	1	11/17/2016 04:01 PM
Lead	6.2		0.40	mg/Kg-dry	1	11/17/2016 04:01 PM
Nickel	12		0.40	mg/Kg-dry	1	11/17/2016 04:01 PM
Selenium	ND		0.81	mg/Kg-dry	1	11/17/2016 04:01 PM
Silver	ND		0.40	mg/Kg-dry	1	11/17/2016 04:01 PM
Zinc	36		0.81	mg/Kg-dry	1	11/17/2016 04:01 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 11/18/16	Analyst: RH
Calcium	68		5.0	mg/L	10	11/18/2016 11:41 AM
Magnesium	33		2.0	mg/L	10	11/18/2016 11:41 AM
Sodium	65		2.0	mg/L	10	11/18/2016 11:41 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 11/18/16	Analyst: RH
Sodium Adsorption Ratio	1.6		0.010	none	1	11/17/2016
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3546 / 11/17/16	Analyst: RS
Acenaphthene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Anthracene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Benzo(a)anthracene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Benzo(a)pyrene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Benzo(b)fluoranthene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Benzo(k)fluoranthene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Chrysene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Dibenzo(a,h)anthracene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Fluoranthene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM

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

ALS Group, USA

Date: 21-Nov-16

Client: Caerus Oil and Gas LLC
Project: Starkey 5 PBV Removal
Sample ID: East @ 7'
Collection Date: 11/11/2016 10:25 AM

Work Order: 1611909
Lab ID: 1611909-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Indeno(1,2,3-cd)pyrene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Naphthalene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Pyrene	ND		0.0067	mg/Kg-dry	1	11/18/2016 03:31 PM
Surr: 2-Fluorobiphenyl	89.7		12-100	%REC	1	11/18/2016 03:31 PM
Surr: 4-Terphenyl-d14	115		25-137	%REC	1	11/18/2016 03:31 PM
Surr: Nitrobenzene-d5	69.3		37-107	%REC	1	11/18/2016 03:31 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 11/16/16	Analyst: EMR
Benzene	ND		0.030	mg/Kg-dry	1	11/17/2016 11:48 PM
Ethylbenzene	ND		0.030	mg/Kg-dry	1	11/17/2016 11:48 PM
m,p-Xylene	ND		0.060	mg/Kg-dry	1	11/17/2016 11:48 PM
o-Xylene	ND		0.030	mg/Kg-dry	1	11/17/2016 11:48 PM
Toluene	ND		0.030	mg/Kg-dry	1	11/17/2016 11:48 PM
Xylenes, Total	ND		0.090	mg/Kg-dry	1	11/17/2016 11:48 PM
Surr: 1,2-Dichloroethane-d4	100		70-130	%REC	1	11/17/2016 11:48 PM
Surr: 4-Bromofluorobenzene	95.7		70-130	%REC	1	11/17/2016 11:48 PM
Surr: Dibromofluoromethane	95.8		70-130	%REC	1	11/17/2016 11:48 PM
Surr: Toluene-d8	97.6		70-130	%REC	1	11/17/2016 11:48 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 11/18/16	Analyst: ED
Electrical Conductivity @ Saturation	1.5		0.050	mmhos/cm @2	10	11/18/2016 03:10 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	9.4		0.53	mg/Kg-dry	1	11/18/2016 05:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 11/17/16	Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/18/2016 03:00 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	5.1		0.050	% of sample	1	11/15/2016 01:13 PM
PH			SW9045D		Prep: EXTRACT / 11/15/16	Analyst: RZM
pH	8.9			s.u.	1	11/15/2016 03:45 PM

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94695** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-94695-94695				Units: mg/Kg		Analysis Date: 11/18/2016 01:06 PM		
Client ID:		Run ID: GC8_161118A		SeqNo: 4164667		Prep Date: 11/17/2016		DF: 1		
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>	2.117	0	3.33	0	63.6	39-133	0			

LCS		Sample ID: DLCSS1-94695-94695				Units: mg/Kg		Analysis Date: 11/18/2016 01:35 PM		
Client ID:		Run ID: GC8_161118A		SeqNo: 4164668		Prep Date: 11/17/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	249.2	5.0	333	0	74.8	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.669	0	3.33	0	50.1	39-133	0			

MS		Sample ID: 1611910-01A MS				Units: mg/Kg		Analysis Date: 11/18/2016 02:05 PM		
Client ID:		Run ID: GC8_161118A		SeqNo: 4164669		Prep Date: 11/17/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	454.4	5.0	331.8	246.1	62.8	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.762	0	3.318	0	53.1	39-133	0			

MSD		Sample ID: 1611910-01A MSD				Units: mg/Kg		Analysis Date: 11/18/2016 02:34 PM		
Client ID:		Run ID: GC8_161118A		SeqNo: 4164670		Prep Date: 11/17/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	461	5.0	332.4	246.1	64.6	48-110	454.4	1.43	30	
<i>Surr: 4-Terphenyl-d14</i>	1.668	0	3.324	0	50.2	39-133	1.762	5.48	30	

The following samples were analyzed in this batch:

1611909-01A	1611909-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94638** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-94638-94638				Units: µg/Kg-dry		Analysis Date: 11/16/2016 12:41 PM		
Client ID:		Run ID: GC9_161116A		SeqNo: 4158717		Prep Date: 11/16/2016		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>	4462	0	5000	0	89.2	50-150	0			

LCS		Sample ID: LCS-94638-94638				Units: µg/Kg-dry		Analysis Date: 11/16/2016 12:16 PM		
Client ID:		Run ID: GC9_161116A		SeqNo: 4158716		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	480200	2,500	500000	0	96	70-130	0			
<i>Surr: Toluene-d8</i>	4858	0	5000	0	97.2	50-150	0			

MS		Sample ID: 1611909-01A MS				Units: µg/Kg-dry		Analysis Date: 11/16/2016 03:35 PM		
Client ID: Base @ 5'		Run ID: GC9_161116A		SeqNo: 4158724		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	601100	2,800	561600	0	107	70-130	0			
<i>Surr: Toluene-d8</i>	6123	0	5616	0	109	50-150	0			

MSD		Sample ID: 1611909-01A MSD				Units: µg/Kg-dry		Analysis Date: 11/16/2016 04:00 PM		
Client ID: Base @ 5'		Run ID: GC9_161116A		SeqNo: 4158725		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	576800	2,800	561600	0	103	70-130	601100	4.13	30	
<i>Surr: Toluene-d8</i>	5811	0	5616	0	103	50-150	6123	5.23	30	

The following samples were analyzed in this batch: 1611909-01A 1611909-03A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: 94756 Instrument ID HG1 Method: SW7471B

MBLK		Sample ID: MBLK-94756-94756				Units: mg/Kg		Analysis Date: 11/21/2016 01:10 PM		
Client ID:		Run ID: HG1_161121A		SeqNo: 4164519		Prep Date: 11/21/2016		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-94756-94756				Units: mg/Kg		Analysis Date: 11/21/2016 01:13 PM		
Client ID:		Run ID: HG1_161121A		SeqNo: 4164520		Prep Date: 11/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1725 0.020 0.1665 0 104 80-120 0

MS		Sample ID: 16111179-01BMS				Units: mg/Kg		Analysis Date: 11/21/2016 01:18 PM		
Client ID:		Run ID: HG1_161121A		SeqNo: 4164522		Prep Date: 11/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1183 0.014 0.1137 0.00315 101 75-125 0

MSD		Sample ID: 16111179-01BMSD				Units: mg/Kg		Analysis Date: 11/21/2016 01:20 PM		
Client ID:		Run ID: HG1_161121A		SeqNo: 4164523		Prep Date: 11/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1173 0.013 0.1116 0.00315 102 75-125 0.1183 0.847 35

The following samples were analyzed in this batch: 1611909-01A 1611909-03A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: 94563 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-94563-94563				Units: mg/Kg		Analysis Date: 11/15/2016 04:47 PM		
Client ID:		Run ID: ICP2_161115A			SeqNo: 4155480		Prep Date: 11/15/2016		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	0.05626	0.50								J
Chromium	0.03953	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.1919	0.50								J

LCS		Sample ID: LCS-94563-94563				Units: mg/Kg		Analysis Date: 11/15/2016 04:52 PM		
Client ID:		Run ID: ICP2_161115A			SeqNo: 4155483		Prep Date: 11/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.786	0.25	5	0	95.7	80-120	0			
Barium	4.665	0.25	5	0	93.3	80-120	0			
Cadmium	4.854	0.50	5	0	97.1	80-120	0			
Chromium	4.858	0.25	5	0	97.2	80-120	0			
Copper	5.033	0.50	5	0	101	80-120	0			
Lead	4.761	0.25	5	0	95.2	80-120	0			
Nickel	4.8	0.25	5	0	96	80-120	0			
Selenium	4.413	0.50	5	0	88.3	80-120	0			
Silver	4.767	0.25	5	0	95.3	80-120	0			
Zinc	4.859	0.50	5	0	97.2	80-120	0			

MS		Sample ID: 1611785-12BMS				Units: mg/Kg		Analysis Date: 11/15/2016 05:37 PM		
Client ID:		Run ID: ICP2_161115A			SeqNo: 4155491		Prep Date: 11/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.459	0.34	6.831	1.876	111	75-125	0			
Barium	11.51	0.34	6.831	4.151	108	75-125	0			
Cadmium	7.203	0.68	6.831	0.05051	105	75-125	0			
Chromium	11.12	0.34	6.831	3.242	115	75-125	0			
Copper	11.38	0.68	6.831	4.158	106	75-125	0			
Lead	8.762	0.34	6.831	2.125	97.2	75-125	0			
Nickel	10.83	0.34	6.831	3.711	104	75-125	0			
Selenium	6.439	0.68	6.831	0.04266	93.6	75-125	0			
Silver	6.822	0.34	6.831	-0.1313	102	75-125	0			
Zinc	22.52	0.68	6.831	13.12	138	75-125	0			S

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94563** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 1611785-12BMSD				Units: mg/Kg		Analysis Date: 11/15/2016 05:59 PM		
Client ID:		Run ID: ICP2_161115A			SeqNo: 4155495		Prep Date: 11/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.694	0.34	6.831	1.876	114	75-125	9.459	2.45	20	
Barium	11.42	0.34	6.831	4.151	106	75-125	11.51	0.764	20	
Cadmium	7.282	0.68	6.831	0.05051	106	75-125	7.203	1.09	20	
Chromium	11.24	0.34	6.831	3.242	117	75-125	11.12	1.01	20	
Copper	11.51	0.68	6.831	4.158	108	75-125	11.38	1.2	20	
Lead	9.007	0.34	6.831	2.125	101	75-125	8.762	2.75	20	
Nickel	11.02	0.34	6.831	3.711	107	75-125	10.83	1.67	20	
Selenium	6.966	0.68	6.831	0.04266	101	75-125	6.439	7.86	20	
Silver	6.833	0.34	6.831	-0.1313	102	75-125	6.822	0.161	20	
Zinc	22.69	0.68	6.831	13.12	140	75-125	22.52	0.745	20	S

The following samples were analyzed in this batch: 1611909-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94649** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: 1611909-01ADUP					Units: none	Analysis Date: 11/16/2016			
Client ID: Base @ 5'	Run ID: SAR_161116A			SeqNo: 4157537	Prep Date: 11/16/2016	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	2.257	0.010	0	0	0		2.242	0.646	50	

The following samples were analyzed in this batch:

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94659** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-94659-94659				Units: mg/Kg		Analysis Date: 11/17/2016 12:46 PM		
Client ID:		Run ID: ICP2_161117A			SeqNo: 4159553		Prep Date: 11/16/2016		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	0.01849	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.06794	0.50								J

LCS		Sample ID: LCS-94659-94659				Units: mg/Kg		Analysis Date: 11/17/2016 12:52 PM		
Client ID:		Run ID: ICP2_161117A			SeqNo: 4159554		Prep Date: 11/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.783	0.25	5	0	95.7	80-120	0			
Barium	5.102	0.25	5	0	102	80-120	0			
Cadmium	4.796	0.50	5	0	95.9	80-120	0			
Chromium	4.937	0.25	5	0	98.7	80-120	0			
Copper	5.034	0.50	5	0	101	80-120	0			
Lead	4.729	0.25	5	0	94.6	80-120	0			
Nickel	4.719	0.25	5	0	94.4	80-120	0			
Selenium	4.714	0.50	5	0	94.3	80-120	0			
Silver	4.785	0.25	5	0	95.7	80-120	0			
Zinc	4.76	0.50	5	0	95.2	80-120	0			

MS		Sample ID: 1611918-01BMS				Units: mg/Kg		Analysis Date: 11/17/2016 01:25 PM		
Client ID:		Run ID: ICP2_161117A			SeqNo: 4159562		Prep Date: 11/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	32.43	0.32	6.394	21.43	172	75-125	0			S
Barium	161.2	0.32	6.394	134.2	421	75-125	0			SO
Cadmium	11.02	0.64	6.394	2.511	133	75-125	0			S
Chromium	190.5	0.32	6.394	135	869	75-125	0			SO
Copper	240.7	0.64	6.394	168.8	1120	75-125	0			SO
Lead	296.3	0.32	6.394	265.6	480	75-125	0			SO
Nickel	253.8	0.32	6.394	185.1	1080	75-125	0			SO
Selenium	6.773	0.64	6.394	0.2776	102	75-125	0			
Silver	7.085	0.32	6.394	0.6801	100	75-125	0			
Zinc	307.7	0.64	6.394	284.3	366	75-125	0			SO

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94659** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 1611918-01BMSD				Units: mg/Kg		Analysis Date: 11/17/2016 01:30 PM			
Client ID:		Run ID: ICP2_161117A			SeqNo: 4159563		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	35.2	0.32	6.386	21.43	216	75-125	32.43	8.2	20	S	
Barium	144.3	0.32	6.386	134.2	157	75-125	161.2	11	20	SO	
Cadmium	9.883	0.64	6.386	2.511	115	75-125	11.02	10.9	20		
Chromium	186.8	0.32	6.386	135	812	75-125	190.5	1.97	20	SO	
Copper	256.4	0.64	6.386	168.8	1370	75-125	240.7	6.34	20	SO	
Lead	353	0.32	6.386	265.6	1370	75-125	296.3	17.5	20	SO	
Nickel	260.7	0.32	6.386	185.1	1190	75-125	253.8	2.68	20	SO	
Selenium	6.418	0.64	6.386	0.2776	96.2	75-125	6.773	5.38	20		
Silver	6.864	0.32	6.386	0.6801	96.8	75-125	7.085	3.17	20		
Zinc	303.6	0.64	6.386	284.3	302	75-125	307.7	1.34	20	SO	

The following samples were analyzed in this batch: 1611909-03A

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94782** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: 1611911-02ADUP					Units: none	Analysis Date: 11/17/2016			
Client ID:	Run ID: SAR_161117A			SeqNo: 4161546		Prep Date: 11/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	42.05	0.010	0	0	0		55.39	27.4	50	

The following samples were analyzed in this batch:

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: 94693 Instrument ID SVMS8 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-94693-94693				Units: µg/Kg		Analysis Date: 11/18/2016 02:13 A		
Client ID:		Run ID: SVMS8_161117A		SeqNo: 4161486		Prep Date: 11/17/2016		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	2505	0	3333	0	75.2	12-100	0			
Surr: 4-Terphenyl-d14	3017	0	3333	0	90.5	25-137	0			
Surr: Nitrobenzene-d5	2043	0	3333	0	61.3	37-107	0			

LCS		Sample ID: SLCSS1-94693-94693				Units: µg/Kg		Analysis Date: 11/18/2016 02:39 A		
Client ID:		Run ID: SVMS8_161117A		SeqNo: 4161487		Prep Date: 11/17/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	976	6.7	1333	0	73.2	45-110	0			
Anthracene	992	6.7	1333	0	74.4	55-105	0			
Benzo(a)anthracene	994	6.7	1333	0	74.6	50-110	0			
Benzo(a)pyrene	942.7	6.7	1333	0	70.7	50-110	0			
Benzo(b)fluoranthene	911.3	6.7	1333	0	68.4	45-115	0			
Benzo(k)fluoranthene	910.7	6.7	1333	0	68.3	45-115	0			
Chrysene	980.7	6.7	1333	0	73.6	55-110	0			
Dibenzo(a,h)anthracene	1081	6.7	1333	0	81.1	40-125	0			
Fluoranthene	1092	6.7	1333	0	81.9	55-115	0			
Fluorene	1066	6.7	1333	0	80	50-110	0			
Indeno(1,2,3-cd)pyrene	1017	6.7	1333	0	76.3	40-120	0			
Naphthalene	784.7	6.7	1333	0	58.9	40-105	0			
Pyrene	894.7	6.7	1333	0	67.1	45-125	0			
Surr: 2-Fluorobiphenyl	2405	0	3333	0	72.2	12-100	0			
Surr: 4-Terphenyl-d14	2395	0	3333	0	71.9	25-137	0			
Surr: Nitrobenzene-d5	1957	0	3333	0	58.7	37-107	0			

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: 94693 Instrument ID SVMS8 Method: SW846 8270D

MS				Sample ID: 1611913-01B MS			Units: µg/Kg		Analysis Date: 11/18/2016 08:35 A		
Client ID:				Run ID: SVMS8_161117A			SeqNo: 4161491		Prep Date: 11/17/2016		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1407	64	1285	0	110	45-110	0				
Anthracene	1369	64	1285	166.5	93.6	55-105	0				
Benzo(a)anthracene	1742	64	1285	639.5	85.8	50-110	0				
Benzo(a)pyrene	1645	64	1285	692.8	74.1	50-110	0				
Benzo(b)fluoranthene	1729	64	1285	879.4	66.1	45-115	0				
Benzo(k)fluoranthene	1247	64	1285	333.1	71.1	45-115	0				
Chrysene	1806	64	1285	779.4	79.9	55-110	0				
Dibenzo(a,h)anthracene	1311	64	1285	186.5	87.5	40-125	0				
Fluoranthene	2673	64	1285	1186	116	55-115	0			S	
Fluorene	1375	64	1285	0	107	50-110	0				
Indeno(1,2,3-cd)pyrene	1709	64	1285	666.2	81.2	40-120	0				
Naphthalene	1870	64	1285	1079	61.5	40-105	0				
Pyrene	1832	64	1285	819.4	78.8	45-125	0				
Surr: 2-Fluorobiphenyl	2474	0	3213	0	77	12-100	0				
Surr: 4-Terphenyl-d14	2230	0	3213	0	69.4	25-137	0				
Surr: Nitrobenzene-d5	2024	0	3213	0	63	37-107	0				

MSD				Sample ID: 1611913-01B MSD			Units: µg/Kg		Analysis Date: 11/18/2016 09:00 A		
Client ID:				Run ID: SVMS8_161117A			SeqNo: 4161492		Prep Date: 11/17/2016		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1268	65	1307	0	97	45-110	1407	10.4	30		
Anthracene	1144	65	1307	166.5	74.8	55-105	1369	17.9	30		
Benzo(a)anthracene	1451	65	1307	639.5	62.1	50-110	1742	18.2	30		
Benzo(a)pyrene	1346	65	1307	692.8	50	50-110	1645	20	30		
Benzo(b)fluoranthene	1568	65	1307	879.4	52.7	45-115	1729	9.73	30		
Benzo(k)fluoranthene	1104	65	1307	333.1	59	45-115	1247	12.1	30		
Chrysene	1431	65	1307	779.4	49.9	55-110	1806	23.2	30	S	
Dibenzo(a,h)anthracene	1137	65	1307	186.5	72.7	40-125	1311	14.2	30		
Fluoranthene	2189	65	1307	1186	76.8	55-115	2673	19.9	30		
Fluorene	1144	65	1307	0	87.5	50-110	1375	18.4	30		
Indeno(1,2,3-cd)pyrene	1431	65	1307	666.2	58.5	40-120	1709	17.7	30		
Naphthalene	1777	65	1307	1079	53.4	40-105	1870	5.08	30		
Pyrene	1503	65	1307	819.4	52.3	45-125	1832	19.7	30		
Surr: 2-Fluorobiphenyl	2411	0	3267	0	73.8	12-100	2474	2.57	40		
Surr: 4-Terphenyl-d14	2163	0	3267	0	66.2	25-137	2230	3.05	40		
Surr: Nitrobenzene-d5	1967	0	3267	0	60.2	37-107	2024	2.87	40		

The following samples were analyzed in this batch: 1611909-01A 1611909-03A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: 94695 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: DBLKS1-94695-94695				Units: mg/Kg		Analysis Date: 11/18/2016 02:13 A		
Client ID:		Run ID: SVMS8_161117A				SeqNo: 4161701		Prep Date: 11/17/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	2.681	0	3.33	0	80.5	25-137	0			

LCS		Sample ID: DLCSS1-94695-94695				Units: mg/Kg		Analysis Date: 11/18/2016 02:39 A		
Client ID:		Run ID: SVMS8_161117A				SeqNo: 4161721		Prep Date: 11/17/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	394.7	5.0	333.3	0	118	31-135	0			
Surr: 4-Terphenyl-d14	2.345	0	3.33	0	70.4	25-137	0			

MS		Sample ID: 1611910-01A MS				Units: mg/Kg		Analysis Date: 11/18/2016 05:08 A		
Client ID:		Run ID: SVMS8_161117A				SeqNo: 4161718		Prep Date: 11/17/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	526.6	5.0	332.2	379.2	44.4	31-135	0			
Surr: 4-Terphenyl-d14	2.21	0	3.318	0	66.6	25-137	0			

MSD		Sample ID: 1611910-01A MSD				Units: mg/Kg		Analysis Date: 11/18/2016 05:34 A		
Client ID:		Run ID: SVMS8_161117A				SeqNo: 4161719		Prep Date: 11/17/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	577	5.0	332.8	379.2	59.4	31-135	526.6	9.14	30	
Surr: 4-Terphenyl-d14	2.27	0	3.324	0	68.3	25-137	2.21	2.64	30	

The following samples were analyzed in this batch: 1611909-01A 1611909-03A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: 94637 Instrument ID VMS7 Method: SW8260B

MBLK		Sample ID: MBLK-94637-94637				Units: µg/Kg-dry		Analysis Date: 11/16/2016 11:43 A		
Client ID:		Run ID: VMS7_161116A			SeqNo: 4158062		Prep Date: 11/16/2016		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	971.5	0	1000	0	97.2	70-130	0			
Surr: 4-Bromofluorobenzene	996	0	1000	0	99.6	70-130	0			
Surr: Dibromofluoromethane	915.5	0	1000	0	91.6	70-130	0			
Surr: Toluene-d8	981.5	0	1000	0	98.2	70-130	0			

LCS		Sample ID: LCS-94637-94637				Units: µg/Kg-dry		Analysis Date: 11/16/2016 10:41 A		
Client ID:		Run ID: VMS7_161116A			SeqNo: 4158061		Prep Date: 11/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1156	30	1000	0	116	75-125	0			
Ethylbenzene	1127	30	1000	0	113	75-125	0			
m,p-Xylene	2280	60	2000	0	114	80-125	0			
o-Xylene	1118	30	1000	0	112	75-125	0			
Toluene	1112	30	1000	0	111	70-125	0			
Xylenes, Total	3398	90	3000	0	113	75-125	0			
Surr: 1,2-Dichloroethane-d4	980	0	1000	0	98	70-130	0			
Surr: 4-Bromofluorobenzene	1000	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	1010	0	1000	0	101	70-130	0			
Surr: Toluene-d8	994.5	0	1000	0	99.4	70-130	0			

MS		Sample ID: 1611913-01C MS				Units: µg/Kg-dry		Analysis Date: 11/18/2016 04:19 A		
Client ID:		Run ID: VMS7_161117B			SeqNo: 4161083		Prep Date: 11/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1534	42	1410	307.2	87.1	75-125	0			
Ethylbenzene	1490	42	1410	285.8	85.4	75-125	0			
m,p-Xylene	3024	85	2819	936	74.1	80-125	0			S
o-Xylene	1451	42	1410	667.5	55.6	75-125	0			S
Toluene	1488	42	1410	1325	11.6	70-125	0			S
Xylenes, Total	4475	130	4229	1610	67.7	75-125	0			S
Surr: 1,2-Dichloroethane-d4	1389	0	1410	0	98.6	70-130	0			
Surr: 4-Bromofluorobenzene	1410	0	1410	0	100	70-130	0			
Surr: Dibromofluoromethane	1369	0	1410	0	97.1	70-130	0			
Surr: Toluene-d8	1407	0	1410	0	99.8	70-130	0			

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94637** Instrument ID **VMS7** Method: **SW8260B**

MSD		Sample ID: 1611913-01C MSD				Units: µg/Kg-dry		Analysis Date: 11/18/2016 04:40 A		
Client ID:		Run ID: VMS7_161117B			SeqNo: 4161084		Prep Date: 11/16/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1551	42	1410	307.2	88.3	75-125	1534	1.1	30	
Ethylbenzene	1489	42	1410	285.8	85.4	75-125	1490	0.0473	30	
m,p-Xylene	3035	85	2819	936	74.5	80-125	3024	0.372	30	S
o-Xylene	1490	42	1410	667.5	58.3	75-125	1451	2.64	30	S
Toluene	1518	42	1410	1325	13.7	70-125	1488	2.02	30	S
Xylenes, Total	4525	130	4229	1610	68.9	75-125	4475	1.11	30	S
<i>Surr: 1,2-Dichloroethane-d4</i>	1396	0	1410	0	99	70-130	1389	0.506	30	
<i>Surr: 4-Bromofluorobenzene</i>	1422	0	1410	0	101	70-130	1410	0.846	30	
<i>Surr: Dibromofluoromethane</i>	1362	0	1410	0	96.6	70-130	1369	0.465	30	
<i>Surr: Toluene-d8</i>	1422	0	1410	0	101	70-130	1407	1.1	30	

The following samples were analyzed in this batch: 1611909-01A 1611909-03A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94587** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-94587-94587				Units: s.u.		Analysis Date: 11/15/2016 03:45 PM			
Client ID:	Run ID: WETCHEM_1611150			SeqNo: 4154890		Prep Date: 11/15/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.94	0	4	0	98.5	90-110	0			

DUP	Sample ID: 1611914-02A DUP				Units: s.u.		Analysis Date: 11/15/2016 03:45 PM			
Client ID:	Run ID: WETCHEM_1611150			SeqNo: 4154894		Prep Date: 11/15/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.87	0	0	0	0	0-0	7.47	5.22	20	

The following samples were analyzed in this batch: 1611909-01A 1611909-03A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94649** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 1611909-01A DUP	Units: mmhos/cm @25°	Analysis Date: 11/17/2016 04:45 PM							
Client ID: Base @ 5'	Run ID: WETCHEM_1611170	SeqNo: 4159987	Prep Date: 11/16/2016	DF: 50						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.315	0.25	0	0	0		1.2	9.15	50	

The following samples were analyzed in this batch:

1611909-01A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94681** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-94681-94681				Units: mg/Kg			Analysis Date: 11/17/2016 09:00 A		
Client ID:	Run ID: WETCHEM_161117Q			SeqNo: 4160053		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS	Sample ID: LCS-94681-94681				Units: mg/Kg			Analysis Date: 11/17/2016 09:00 A		
Client ID:	Run ID: WETCHEM_161117Q			SeqNo: 4160054		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.93 1.0 5 0 98.6 80-120 0

MS	Sample ID: 1611914-04A MS				Units: mg/Kg			Analysis Date: 11/17/2016 09:00 A		
Client ID:	Run ID: WETCHEM_161117Q			SeqNo: 4160065		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.098 0.98 4.902 0.1471 80.6 75-125 0

MSD	Sample ID: 1611914-04A MSD				Units: mg/Kg			Analysis Date: 11/17/2016 09:00 A		
Client ID:	Run ID: WETCHEM_161117Q			SeqNo: 4160066		Prep Date: 11/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.971 0.98 4.902 0.1471 78 75-125 4.098 3.16 20

The following samples were analyzed in this batch: 1611909-01A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94732** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-94732-94732		Units: mg/Kg		Analysis Date: 11/18/2016 03:00 PM					
Client ID:	Run ID: WETCHEM_161118H		SeqNo: 4161857		Prep Date: 11/17/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS	Sample ID: LCS-94732-94732		Units: mg/Kg		Analysis Date: 11/18/2016 03:00 PM					
Client ID:	Run ID: WETCHEM_161118H		SeqNo: 4161856		Prep Date: 11/17/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.81 1.0 5 0 96.2 80-120 0

MS	Sample ID: 1611909-03A MS		Units: mg/Kg		Analysis Date: 11/18/2016 03:00 PM					
Client ID: East @ 7'	Run ID: WETCHEM_161118H		SeqNo: 4161852		Prep Date: 11/17/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.92 1.0 5 0.02 78 75-125 0

MS	Sample ID: 1611909-03A MSI		Units: mg/Kg		Analysis Date: 11/18/2016 03:00 PM					
Client ID: East @ 7'	Run ID: WETCHEM_161118H		SeqNo: 4161854		Prep Date: 11/17/2016 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1865 100 1899 0.02 98.2 75-125 0

MSD	Sample ID: 1611909-03A MSD		Units: mg/Kg		Analysis Date: 11/18/2016 03:00 PM					
Client ID: East @ 7'	Run ID: WETCHEM_161118H		SeqNo: 4161853		Prep Date: 11/17/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.8 1.0 5 0.02 75.6 75-125 3.92 3.11 20

The following samples were analyzed in this batch:

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

Client: Caerus Oil and Gas LLC
Work Order: 1611909
Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **94782** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1611911-02ADUP				Units: mmhos/cm @25°		Analysis Date: 11/18/2016 03:10 PM		
Client ID:		Run ID: WETCHEM_161118M		SeqNo: 4162058		Prep Date: 11/18/2016		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	19.31	0.050	0	0	0		25.9	29.2	50	

DUP		Sample ID: 1611924-04A DUP				Units: mmhos/cm @25°		Analysis Date: 11/18/2016 03:10 PM		
Client ID:		Run ID: WETCHEM_161118M		SeqNo: 4162070		Prep Date: 11/18/2016		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.7	0.050	0	0	0		3.87	4.49	50	

The following samples were analyzed in this batch: 1611909-03A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **R200610** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R200610				Units: % of sample			Analysis Date: 11/14/2016 04:01 PM		
Client ID:		Run ID: MOIST_161114C				SeqNo: 4153169		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-R200610				Units: % of sample			Analysis Date: 11/14/2016 04:01 PM		
Client ID:		Run ID: MOIST_161114C				SeqNo: 4153168		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: 1611832-11B DUP				Units: % of sample			Analysis Date: 11/14/2016 04:01 PM		
Client ID:		Run ID: MOIST_161114C				SeqNo: 4153148		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 19.72 0.050 0 0 0 19.74 0.101 20

DUP		Sample ID: 1611832-24B DUP				Units: % of sample			Analysis Date: 11/14/2016 04:01 PM		
Client ID:		Run ID: MOIST_161114C				SeqNo: 4153159		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 17 0.050 0 0 0 18.41 7.96 20

The following samples were analyzed in this batch: 1611909-01A

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

Client: Caerus Oil and Gas LLC
 Work Order: 1611909
 Project: Starkey 5 PBV Removal

QC BATCH REPORT

Batch ID: **R200710** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R200710				Units: % of sample			Analysis Date: 11/15/2016 01:13 PM		
Client ID:		Run ID: MOIST_161115A				SeqNo: 4155922		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.04	0.050								J	

LCS		Sample ID: LCS-R200710				Units: % of sample			Analysis Date: 11/15/2016 01:13 PM		
Client ID:		Run ID: MOIST_161115A				SeqNo: 4155918		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: 16111009-01A DUP				Units: % of sample			Analysis Date: 11/15/2016 01:13 PM		
Client ID:		Run ID: MOIST_161115A				SeqNo: 4155897		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	21.13	0.050	0	0	0		21.67	2.52	20		

DUP		Sample ID: 1611987-02A DUP				Units: % of sample			Analysis Date: 11/15/2016 01:13 PM		
Client ID:		Run ID: MOIST_161115A				SeqNo: 4155916		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	4.64	0.050	0	0	0		4.69	1.07	20		

The following samples were analyzed in this batch: 1611909-03A

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 816-398-0070

Chain-of-Custody

Form 202a

WORKORDER # 1611909

PAGE 1 of 1
DISPOSAL By Lab or Return to C

PROJECT NAME	Starkey S PBV Removal		SAMPLER	Tyler Rust		DATE	11/11/16		
PROJECT No.		SITE ID				TURNAROUND	STD 5 Day		
COMPANY NAME	Caerus Piceance, LLC		EDD FORMAT			TPH/GRO/DRO BTEX Table 810 PAH's EC PH SAR Benzene Table 810 Metals			
BILL TO COMPANY	Caerus Piceance, LLC		PURCHASE ORDER						
INVOICE ATTN TO	Jake Janicek		BILL TO COMPANY	Caerus Piceance, LLC					
ADDRESS	120 N. Railroad, suite D		ADDRESS	120 N. Railroad, suite D					
CITY / STATE / ZIP	Parachute Co, 81635		CITY / STATE / ZIP	Parachute Co, 81635					
PHONE	970-285-0608		PHONE	970-285-0608					
FAX			FAX						
E-MAIL	jjanicek@caerusoilandgas.com		E-MAIL	invoices@caerusoilandgas.com					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
	North @ 5'	Soil							
1	Base @ 5'	Soil	11/11/16	1010	2	-	-	X X X X X X X	
2	North @ 5.5'	Soil	11/11/16	1020	2	-	-	X X X X X X X	
3	East @ 7'	Soil	11/11/16	1025	2	-	-	X X X X X X X	
4	South @ 5.5'	Soil	11/11/16	1031	2	-	-	X X X X X X X	
5	West @ 5'	Soil	11/11/16	1042	2	-	-	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=filter

For metals or anions, please detail analytes below.

Comments: 3.4

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 B-4 degrees C 9-5035

SIGNATURE	PRINTED NAME	DATE	TIME
<i>Tyler Rust</i>	Tyler Rust	11/11/16	1150
<i>N.M.</i>	N.M.	11/11/16	1150
<i>N.N.</i>	N.N.	11/11/16	1230
<i>Diane F. Shan</i>	Diane F. Shan	11/12/16	1000

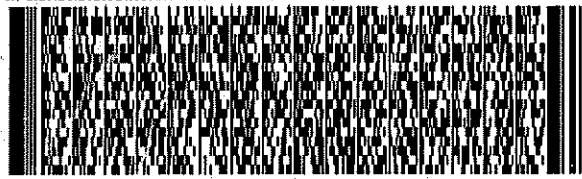
ORIGIN ID: RILA (816) 298-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST ST
PARACHUTE, CO 81635
UNITED STATES US

SHIP DATE: 11NOV16
ACTWGT: 03.00 LB
CAD: 2284840/NET3780
DIMS: 13.20x14 IN
BILL SENDER

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

HOLLAND MI 49424
(816) 399-6070 REF: 111116-3
PO: PARACHUTE DEPT.

544J0306114EB

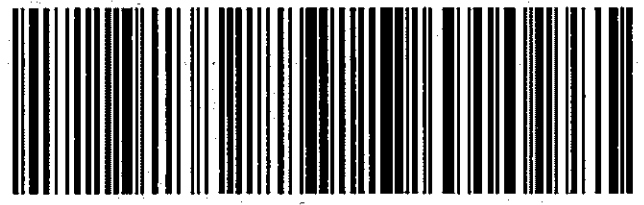


REL# 3785346

1 of 3 **SATURDAY 12:00P**
PRIORITY OVERNIGHT
TRK# 7776 9828 6257
0201
MASTER

X0 HLMA

49424
MI-US GRR



After printing this label:
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ALS Environmental
8352 128th Avenue
Holland, Michigan 49424
Tel. +1 816 399-6670
Fax. +1 816 399 6185

SD
Ex Saturday Delivery

BODY SEAL
Seal Broken By: _____
Date: _____
Tinner: 17310

Sample Receipt Checklist

Client Name: **CAERUS**

Date/Time Received: **12-Nov-16 10:00**

Work Order: **1611909**

Received by: **DS**

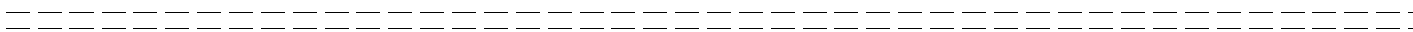
Checklist completed by Diane Shaw 14-Nov-16
eSignature Date

Reviewed by: Chad Whilton 14-Nov-16
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4/3.4 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/14/2016 9:36:09 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u></u>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



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 black ink 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

RIGHT SOLUTIONS RIGHT PARTNER

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
METALS BY ICP-MS			SW6020A		Prep Date: 7/25/2013	Analyst: ML
Arsenic	39		9.2	mg/Kg-dry	5	7/27/2013 02:20 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 7/25/2013	Analyst: RH
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
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 7/25/2013	Analyst: RH
Sodium Adsorption Ratio	2.8		0.010	none	1	7/26/2013
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 7/25/2013	Analyst: JB
Electrical Conductivity @ Saturation	1.2		0.050	mmhos/cm @25	10	7/25/2013 03:10 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	82		0.050	% of sample	1	7/23/2013 12:40 PM
PH			SW9045D		Prep Date: 7/23/2013	Analyst: JB
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
METALS BY ICP-MS			SW6020A		Prep Date: 7/25/2013	Analyst: ML
Arsenic	8.3		2.0	mg/Kg-dry	5	7/27/2013 02:44 AM
MOISTURE			A2540 G			Analyst: BD
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
METALS BY ICP-MS			SW6020A		Prep Date: 7/25/2013	Analyst: ML
Arsenic	8.6		1.8	mg/Kg-dry	5	7/27/2013 02:50 AM
MOISTURE			A2540 G			Analyst: BD
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**

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

LCS	Sample ID: LCS-50013-50013				Units: mg/Kg			Analysis Date: 7/26/2013 02:07 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392469		Prep Date: 7/25/2013		DF: 1		
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			

MS	Sample ID: 1307769-02BMS				Units: mg/Kg			Analysis Date: 7/26/2013 02:19 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392471		Prep Date: 7/25/2013		DF: 5		
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			

MSD	Sample ID: 1307769-02BMSD				Units: mg/Kg			Analysis Date: 7/26/2013 02:25 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392472		Prep Date: 7/25/2013		DF: 5		
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**

DUP	Sample ID: 1307634-01B DUP					Units: mmhos/cm @25°C	Analysis Date: 7/25/2013 03:10 PM			
Client ID:	Run ID: WETCHEM_130725J			SeqNo: 2390794	Prep Date: 7/25/2013	DF: 10				
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:

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

QC BATCH REPORT

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

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

pH 4.53 0 4.4 0 103 90-110 0

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

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

The following samples were analyzed in this batch:

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

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

QC BATCH REPORT

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

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

Moisture ND 0.050

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

Moisture 100 0.050 100 0 100 99.5-100.5 0

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

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

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

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

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

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

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

QC BATCH REPORT

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

MBLK		Sample ID: WBLKS-R124058				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388576		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-R124058				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388574		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: 1307794-01B DUP				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388528		Prep Date:		DF: 1	
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: 1307801-04A DUP				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388551		Prep Date:		DF: 1	
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): 5.0 c

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 7/23/2013 10:56:26 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

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

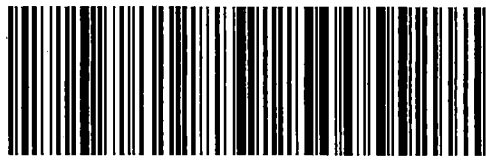
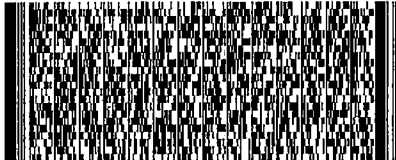
Ref # 1001-072213-3
Invoice #
PO #
Dept #

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.

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