



26-Nov-2013

Kris Rowe
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Ursa Snyder C Well Pad - 11.15.13**

Work Order: **13111108**

Dear Kris,

ALS Environmental received 1 sample on 20-Nov-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 FF.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Ursa Snyder C Well Pad - 11.15.13
Work Order: 13111108

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>
13111108-01	Excavated Spill Impacted Area Confirmation	Soil		11/15/2013 12:00	11/20/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Ursa Snyder C Well Pad - 11.15.13
WorkOrder: 13111108

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: 26-Nov-13

Client: HRL Compliance Solutions
Project: Ursa Snyder C Well Pad - 11.15.13
Sample ID: Excavated Spill Impacted Area Confirmation
Collection Date: 11/15/2013 12:00 PM

Work Order: 13111108
Lab ID: 13111108-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 11/22/2013	Analyst: CW
Acenaphthene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Acenaphthylene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Anthracene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Benzo(a)anthracene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Benzo(a)pyrene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Benzo(b)fluoranthene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Benzo(g,h,i)perylene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Benzo(k)fluoranthene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Chrysene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Dibenzo(a,h)anthracene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Fluoranthene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Fluorene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Indeno(1,2,3-cd)pyrene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Naphthalene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Pyrene	ND		8.7	µg/Kg-dry	1	11/22/2013 09:00 PM
Surr: 2-Fluorobiphenyl	64.6		12-100	%REC	1	11/22/2013 09:00 PM
Surr: 4-Terphenyl-d14	94.9		25-137	%REC	1	11/22/2013 09:00 PM
Surr: Nitrobenzene-d5	55.4		37-107	%REC	1	11/22/2013 09:00 PM
MOISTURE			A2540 G			Analyst: MEB
Moisture	24		0.050	% of sample	1	11/21/2013 03:50 PM

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

ALS Group USA, Corp

Date: 26-Nov-13

Client: HRL Compliance Solutions

Work Order: 13111108

Project: Ursa Snyder C Well Pad - 11.15.13

QC BATCH REPORT

Batch ID: **53551**

Instrument ID **SVMS8**

Method: **SW8270**

MBLK		Sample ID: SBLKS1-53551-53551				Units: µg/Kg		Analysis Date: 11/22/2013 05:41 PM		
Client ID:		Run ID: SVMS8_131122B				SeqNo: 2554384		Prep Date: 11/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1166</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>69.9</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1703</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>102</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1082</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>64.9</i>	<i>37-107</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 13111108
Project: Ursa Snyder C Well Pad - 11.15.13

QC BATCH REPORT

Batch ID: **53551** Instrument ID **SVMS8** Method: **SW8270**

LCS				Sample ID: SLCSS1-53551-53551			Units: µg/Kg		Analysis Date: 11/22/2013 06:01 PM	
Client ID:				Run ID: SVMS8_131122B			SeqNo: 2554385		Prep Date: 11/22/2013	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	496	6.7	666.7	0	74.4	45-110	0			
Acenaphthylene	530.3	6.7	666.7	0	79.5	45-105	0			
Anthracene	580.3	6.7	666.7	0	87	55-105	0			
Benzo(a)anthracene	617.3	6.7	666.7	0	92.6	50-110	0			
Benzo(a)pyrene	640.7	6.7	666.7	0	96.1	50-110	0			
Benzo(b)fluoranthene	652	6.7	666.7	0	97.8	45-115	0			
Benzo(g,h,i)perylene	624.3	6.7	666.7	0	93.6	40-125	0			
Benzo(k)fluoranthene	652	6.7	666.7	0	97.8	45-115	0			
Chrysene	621	6.7	666.7	0	93.1	55-110	0			
Dibenzo(a,h)anthracene	600	6.7	666.7	0	90	40-125	0			
Fluoranthene	596	6.7	666.7	0	89.4	55-115	0			
Fluorene	537	6.7	666.7	0	80.5	50-110	0			
Indeno(1,2,3-cd)pyrene	597.3	6.7	666.7	0	89.6	40-120	0			
Naphthalene	498.7	6.7	666.7	0	74.8	40-105	0			
Pyrene	675.3	6.7	666.7	0	101	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1132	0	1667	0	67.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1689	0	1667	0	101	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1066	0	1667	0	64	37-107	0			

MS				Sample ID: 13111112-01B MS			Units: µg/Kg		Analysis Date: 11/22/2013 06:21 PM	
Client ID:				Run ID: SVMS8_131122B			SeqNo: 2554386		Prep Date: 11/22/2013	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1073	13	1316	0	81.5	45-110	0			
Acenaphthylene	1129	13	1316	0	85.7	45-105	0			
Anthracene	1231	13	1316	0	93.5	55-105	0			
Benzo(a)anthracene	1283	13	1316	0	97.5	50-110	0			
Benzo(a)pyrene	1323	13	1316	0	100	50-110	0			
Benzo(b)fluoranthene	1321	13	1316	0	100	45-115	0			
Benzo(g,h,i)perylene	1318	13	1316	0	100	40-125	0			
Benzo(k)fluoranthene	1293	13	1316	0	98.2	45-115	0			
Chrysene	1269	13	1316	0	96.4	55-110	0			
Dibenzo(a,h)anthracene	1296	13	1316	0	98.4	40-125	0			
Fluoranthene	1182	13	1316	0	89.8	55-115	0			
Fluorene	1173	13	1316	29.57	86.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1287	13	1316	0	97.8	40-120	0			
Naphthalene	1070	13	1316	78.74	75.3	40-105	0			
Pyrene	1261	13	1316	0	95.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	2373	0	3290	0	72.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	3201	0	3290	0	97.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2096	0	3290	0	63.7	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 13111108
Project: Ursa Snyder C Well Pad - 11.15.13

QC BATCH REPORT

Batch ID: **53551** Instrument ID **SVMS8** Method: **SW8270**

MSD				Sample ID: 13111112-01B MSD			Units: µg/Kg		Analysis Date: 11/22/2013 06:41 PM	
Client ID:				Run ID: SVMS8_131122B			SeqNo: 2554387		Prep Date: 11/22/2013	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1041	13	1319	0	78.9	45-110	1073	3.02	30	
Acenaphthylene	1107	13	1319	0	83.9	45-105	1129	1.96	30	
Anthracene	1232	13	1319	0	93.4	55-105	1231	0.117	30	
Benzo(a)anthracene	1275	13	1319	0	96.7	50-110	1283	0.6	30	
Benzo(a)pyrene	1282	13	1319	0	97.2	50-110	1323	3.11	30	
Benzo(b)fluoranthene	1298	13	1319	0	98.4	45-115	1321	1.79	30	
Benzo(g,h,i)perylene	1287	13	1319	0	97.6	40-125	1318	2.36	30	
Benzo(k)fluoranthene	1260	13	1319	0	95.5	45-115	1293	2.61	30	
Chrysene	1289	13	1319	0	97.7	55-110	1269	1.56	30	
Dibenzo(a,h)anthracene	1271	13	1319	0	96.3	40-125	1296	1.93	30	
Fluoranthene	1171	13	1319	0	88.7	55-115	1182	0.952	30	
Fluorene	1196	13	1319	29.57	88.4	50-110	1173	1.89	30	
Indeno(1,2,3-cd)pyrene	1264	13	1319	0	95.8	40-120	1287	1.79	30	
Naphthalene	1214	13	1319	78.74	86.1	40-105	1070	12.6	30	
Pyrene	1260	13	1319	0	95.5	45-125	1261	0.0373	30	
Surr: 2-Fluorobiphenyl	2404	0	3298	0	72.9	12-100	2373	1.27	40	
Surr: 4-Terphenyl-d14	3237	0	3298	0	98.2	25-137	3201	1.14	40	
Surr: Nitrobenzene-d5	2122	0	3298	0	64.3	37-107	2096	1.22	40	

The following samples were analyzed in this batch:

13111108-01A

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

Client: HRL Compliance Solutions
Work Order: 13111108
Project: Ursa Snyder C Well Pad - 11.15.13

QC BATCH REPORT

Batch ID: **R131063** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R131063				Units: % of sample		Analysis Date: 11/21/2013 03:50 PM			
Client ID:		Run ID: MOIST_131121A				SeqNo: 2550353		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-R131063				Units: % of sample				Analysis Date: 11/21/2013 03:50 PM											
Client ID:				Run ID: MOIST_131121A				SeqNo: 2550347				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: 13111057-02A DUP				Units: % of sample			Analysis Date: 11/21/2013 03:50 PM			
Client ID:				Run ID: MOIST_131121A				SeqNo: 2550317			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 69.32 0.050 0 0 0 0-0 69.59 0.389 20

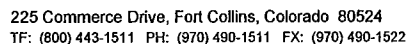
DUP				Sample ID: 1311965-01A DUP				Units: % of sample			Analysis Date: 11/21/2013 03:50 PM			
Client ID:				Run ID: MOIST_131121A				SeqNo: 2550341			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 64.19 0.050 0 0 0 0-0 63.77 0.656 20

The following samples were analyzed in this batch:

13111108-01A

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



Form 202r8

1311108

1 of 1

(By Lab) or Return to Client

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

For metals or anions, please detail analytes below.

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	Mike Lobato	11/19/2013	1538
RECEIVED BY	<i>[Signature]</i>	<i>[Signature]</i>	11-19	1554
RELINQUISHED BY	<i>[Signature]</i>	<i>[Signature]</i>	11-19	1600
RECEIVED BY	<i>[Signature]</i>			
RELINQUISHED BY	<i>[Signature]</i>		11/20/13	1000
RECEIVED BY	<i>[Signature]</i>	ACS		

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

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx
Express



113201306282325

Ship Date: 19NOV13
ActWgt: 75.0 LB
CAD: 103923490/NET3430

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code



Ref # 1001-111913-1
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving

ALS Holland

3352 128TH AVE

HOLLAND, MI 49424

WED - 20 NOV AA
STANDARD OVERNIGHT

TRK# 7971 9980 6710

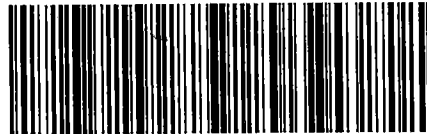
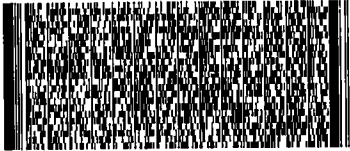
0201

XX GRRA

49424

MI-US

GRR



51AG1/055011AGE

After printing this label:

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Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 20-Nov-13 10:00

Work Order: 13111108

Received by: AB

Checklist completed by *Ashley Beard*
eSignature

20-Nov-13
Date

Reviewed by: *Lee Arnold*
eSignature

21-Nov-13
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>0.8</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>11/20/2013 2:56:18 PM</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: