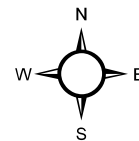


Legend

- Spill Origin
- Soil Sample Location
- Spill Path
- Spill Path Area

0 50 100 200 Feet

1 inch = 111 feet



PROJECT NO:	013-3287
DRAWN BY:	SBS
DATE:	07/23/2014

WEYRAUCH 2-36 (MAY)
SPILL RESPONSE
CHEVRON USA, INC
RIO BLANCO COUNTY, COLORADO
NWNE S36 T2N R102W

OLSSON
ASSOCIATES

760 HORIZON DRIVE, SUITE 102
GRAND JUNCTION, CO 81506
TEL 970.263.7800
FAX 970.263.7456

FIGURE

1

Table 1
Weyrauch 2-36
Soil Data Summary

SAMPLE SUMMARY									
Location Description	Weyrauch 2-36 (May Spill)								
Sample Type	Soil								

LABORATORY DATA SUMMARY									
Sample ID	Wey2-36 (May)-SS1	Wey2-36 (May)-SS1	Wey2-36 (May)-SS2	Wey2-36-BG1	Wey2-36-BG2	Wey2-36-BG3	Wey2-36-BG5	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"		
Sample Date	6/17/2014	5/11/2016	6/17/2014	3/19/2014	3/19/2014	3/19/2014	5/11/2016		
Analytical Parameters									
TPH									
TPH Gasoline Range Organics	<5.0	NT	<2.7	NT	NT	NT	NT	500	mg/kg
TPH Diesel Range Organics	100	NT	27	NT	NT	NT	NT		
BTEX									
Benzene	<0.060	NT	<0.032	NT	NT	NT	NT	0.17	mg/kg
Toluene	<0.060	NT	<0.032	NT	NT	NT	NT	85	mg/kg
Ethylbenzene	<0.060	NT	<0.032	NT	NT	NT	NT	100	mg/kg
Total Xylene	<0.180	NT	<0.096	NT	NT	NT	NT	175	mg/kg
Metals									
Arsenic	10	NT	6	6.5	8.5	5.2	8.9	0.39	mg/kg
Barium	250	NT	170	94	NT	NT	NT	15,000	mg/kg
Cadmium	<1.4	NT	<0.76	<0.75	NT	NT	NT	70	mg/kg
Chromium	20	NT	12	8.9	NT	NT	NT	NA	mg/kg
Copper	17	NT	9.8	12	NT	NT	NT	3,100	mg/kg
Lead	28	NT	15	15	NT	NT	NT	400	mg/kg
Mercury	0.059	NT	0.15	0.027	NT	NT	NT	23	mg/kg
Nickel	24	NT	16	14	NT	NT	NT	1,600	mg/kg
Selenium	<3.5	NT	2.2	1.9	NT	NT	NT	390	mg/kg
Silver	<3.5	NT	<1.9	<1.9	NT	NT	NT	390	mg/kg
Zinc	100	NT	60	61	NT	NT	NT	23,000	mg/kg
SAR Metals Analysis									
Calcium	3500	130	220	540	NT	NT	NT	NA	mg/L
Magnesium	520	15	20	38	NT	NT	NT	NA	mg/L
Sodium	6400	500	600	7.1	NT	NT	NT	NA	mg/L
Sodium Adsorption Ratio	27	11	10.0	0.08	NT	NT	NT	<12	ratio
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	<0.0013	NT	<0.0070	NT	NT	NT	NT	1,000	mg/kg
Anthracene	<0.0013	NT	<0.0070	NT	NT	NT	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0013	NT	<0.0070	NT	NT	NT	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0013	NT	<0.0070	NT	NT	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0013	NT	<0.0070	NT	NT	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0013	NT	<0.0070	NT	NT	NT	NT	2.2	mg/kg
Chrysene	<0.0013	NT	<0.0070	NT	NT	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0013	NT	<0.0070	NT	NT	NT	NT	0.022	mg/kg
Fluoranthene	0.032	NT	0.02	NT	NT	NT	NT	1,000	mg/kg
Fluorene	<0.0013	NT	<0.0070	NT	NT	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0013	NT	<0.0070	NT	NT	NT	NT	0.22	mg/kg
Napthalene	<0.0013	NT	<0.0070	NT	NT	NT	NT	23	mg/kg
Pyrene	<0.0013	NT	<0.0070	NT	NT	NT	NT	1,000	mg/kg
General Chemistry									
Chromium, Hexavalent	<0.99	NT	<0.52	<0.56	NT	NT	NT	23	mg/kg
Chromium, Trivalent	20	NT	12	8.9	NT	NT	NT	120,000	mg/kg
Specific Conductivity	55	4	3.8	3.6	NT	NT	NT	<4 or 2 x the background	mmhos/cm
pH	7.8	NT	8.9	7.6	NT	NT	NT	6-9	su

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
mmhos/cm - millimhos per centimeter
mv - millivolts
su - standard units
NA - not applicable
NT - parameter was not tested

Over COGCC Table 910-1 concentration levels but under BACKGROUND level.
Over COGCC Table 910-1 concentration levels and not within BACKGROUND level
Over COGCC Table 910-1 concentration levels



30-Jun-2014

Tim Dobransky
Olsson Associates
760 Horizon Drive
Suite 102
Grand Junction, CO 81506

Re: **Chevron Weyrauch 2-36 Spill 6.17.14**

Work Order: **14061119**

Dear Tim,

ALS Environmental received 2 samples on 20-Jun-2014 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 28.

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: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill 6.17.14
Work Order: 14061119

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>
14061119-01	Wey2-36 (May)-SS1	Soil		6/17/2014 15:40	6/20/2014 09:30	<input type="checkbox"/>
14061119-02	Wey2-26 (May)-SS2	Soil		6/17/2014 15:55	6/20/2014 09:30	<input type="checkbox"/>

Client: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill 6.17.14
Work Order: 14061119

Case Narrative

2Batch 59932 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch 59942 sample Wey2-36 (May)-SS1 MS/MSD recoveries for Benzo(a)pyrene were slightly above the upper control limit. The parent sample was ND for Benzo(a)pyrene. No data requires qualification.

Batch 59952 duplicate data for SAR is not related to this project's samples. No data requires qualification.

Batch 59971 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch R143229 duplicate data for % Moisture is not related to this project's samples. No data requires qualification.

<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
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
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 30-Jun-14

Client: Olsson Associates

Project: Chevron Weyrauch 2-36 Spill 6.17.14

Sample ID: Wey2-36 (May)-SS1

Collection Date: 6/17/2014 03:40 PM

Work Order: 14061119

Lab ID: 14061119-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	100		SW8015M		Prep: SW3541 / 6/23/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>74.3</i>		<i>39-133</i>	<i>%REC</i>	<i>1</i>	<i>6/24/2014 08:32 PM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 6/23/14	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>101</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	<i>6/24/2014 11:45 AM</i>
MERCURY BY CVAA						
Mercury	0.059		SW7471		Prep: SW7471 / 6/26/14	Analyst: LR
			0.029	mg/Kg-dry	1	6/26/2014 09:05 PM
METALS BY ICP-MS						
Arsenic	10		SW6020A		Prep: SW3050B / 6/23/14	Analyst: ML
Barium	280		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Cadmium	ND		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Chromium	20		1.4	mg/Kg-dry	5	6/24/2014 07:08 PM
Copper	17		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Lead	28		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Nickel	24		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Selenium	ND		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Silver	ND		3.5	mg/Kg-dry	5	6/24/2014 07:08 PM
Zinc	100		14	mg/Kg-dry	5	6/24/2014 07:08 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 6/26/14	Analyst: RH
Calcium	3,500		10	mg/L	20	6/29/2014 10:10 PM
Magnesium	520		4.0	mg/L	20	6/29/2014 10:10 PM
Sodium	6,400		40	mg/L	200	6/30/2014 11:13 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 6/26/14	Analyst: ML
Sodium Adsorption Ratio	27		0.010	none	1	6/29/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 6/23/14	Analyst: RM
Acenaphthene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Anthracene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Benzo(a)anthracene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Benzo(a)pyrene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Benzo(b)fluoranthene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Benzo(k)fluoranthene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Chrysene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Dibenzo(a,h)anthracene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Fluoranthene	32		13	µg/Kg-dry	1	6/24/2014 04:07 PM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill 6.17.14
Sample ID: Wey2-36 (May)-SS1
Collection Date: 6/17/2014 03:40 PM

Work Order: 14061119
Lab ID: 14061119-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Indeno(1,2,3-cd)pyrene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Naphthalene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Pyrene	ND		13	µg/Kg-dry	1	6/24/2014 04:07 PM
Surr: 2-Fluorobiphenyl	66.9		12-100	%REC	1	6/24/2014 04:07 PM
Surr: 4-Terphenyl-d14	98.4		25-137	%REC	1	6/24/2014 04:07 PM
Surr: Nitrobenzene-d5	56.2		37-107	%REC	1	6/24/2014 04:07 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 6/23/14		Analyst: RS
Benzene	ND		60	µg/Kg-dry	1	6/27/2014 04:31 AM
Ethylbenzene	ND		60	µg/Kg-dry	1	6/27/2014 04:31 AM
m,p-Xylene	ND		120	µg/Kg-dry	1	6/27/2014 04:31 AM
o-Xylene	ND		60	µg/Kg-dry	1	6/27/2014 04:31 AM
Toluene	ND		60	µg/Kg-dry	1	6/27/2014 04:31 AM
Xylenes, Total	ND		180	µg/Kg-dry	1	6/27/2014 04:31 AM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	6/27/2014 04:31 AM
Surr: 4-Bromofluorobenzene	89.0		70-130	%REC	1	6/27/2014 04:31 AM
Surr: Dibromofluoromethane	94.4		70-130	%REC	1	6/27/2014 04:31 AM
Surr: Toluene-d8	92.6		70-130	%REC	1	6/27/2014 04:31 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 6/26/14		Analyst: JB
Electrical Conductivity @ Saturation	55		0.050	mmhos/cm @25	10	6/27/2014 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	20		1.0	mg/Kg-dry	1	6/25/2014 04:15 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 6/21/14		Analyst: JI
Chromium, Hexavalent	ND		0.99	mg/Kg-dry	1	6/21/2014 01:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	50		0.050	% of sample	1	6/23/2014 04:45 PM
PH			SW9045D	Prep: EXTRACT / 6/23/14		Analyst: AT
pH	7.8			s.u.	1	6/23/2014 04:00 PM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: Olsson Associates

Project: Chevron Weyrauch 2-36 Spill 6.17.14

Sample ID: Wey2-26 (May)-SS2

Collection Date: 6/17/2014 03:55 PM

Work Order: 14061119

Lab ID: 14061119-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	27		SW8015M		Prep: SW3541 / 6/24/14	Analyst: IT
			4.4	mg/Kg-dry	1	6/25/2014 02:48 PM
Surr: 4-Terphenyl-d14	77.3		39-133	%REC	1	6/25/2014 02:48 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 6/23/14	Analyst: IT
			2.7	mg/Kg-dry	1	6/23/2014 10:11 PM
Surr: Toluene-d8	107		50-150	%REC	1	6/23/2014 10:11 PM
MERCURY BY CVAA						
Mercury	0.15		SW7471		Prep: SW7471 / 6/26/14	Analyst: LR
			0.014	mg/Kg-dry	1	6/26/2014 09:07 PM
METALS BY ICP-MS						
Arsenic	6.1		SW6020A		Prep: SW3050B / 6/23/14	Analyst: ML
			1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Barium	170		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Cadmium	ND		0.76	mg/Kg-dry	5	6/24/2014 07:14 PM
Chromium	12		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Copper	9.8		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Lead	15		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Nickel	16		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Selenium	2.2		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Silver	ND		1.9	mg/Kg-dry	5	6/24/2014 07:14 PM
Zinc	60		7.6	mg/Kg-dry	5	6/24/2014 07:14 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 6/26/14	Analyst: RH
Calcium	220		10	mg/L	20	6/30/2014 09:50 AM
Magnesium	20		4.0	mg/L	20	6/30/2014 09:50 AM
Sodium	600		4.0	mg/L	20	6/30/2014 09:50 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 6/26/14	Analyst: ML
Sodium Adsorption Ratio	10		0.010	none	1	6/29/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 6/24/14	Analyst: RM
Acenaphthene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Anthracene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Benzo(a)anthracene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Benzo(a)pyrene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Benzo(b)fluoranthene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Benzo(k)fluoranthene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Chrysene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Dibenzo(a,h)anthracene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Fluoranthene	20		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM

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

ALS Group USA, Corp

Date: 30-Jun-14

Client: Olsson Associates

Project: Chevron Weyrauch 2-36 Spill 6.17.14

Sample ID: Wey2-26 (May)-SS2

Collection Date: 6/17/2014 03:55 PM

Work Order: 14061119

Lab ID: 14061119-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Indeno(1,2,3-cd)pyrene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Naphthalene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Pyrene	ND		7.0	µg/Kg-dry	1	6/26/2014 07:07 PM
Surr: 2-Fluorobiphenyl	65.0		12-100	%REC	1	6/26/2014 07:07 PM
Surr: 4-Terphenyl-d14	87.7		25-137	%REC	1	6/26/2014 07:07 PM
Surr: Nitrobenzene-d5	53.7		37-107	%REC	1	6/26/2014 07:07 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 6/23/14		Analyst: BG
Benzene	ND		32	µg/Kg-dry	1	6/26/2014 09:31 AM
Ethylbenzene	ND		32	µg/Kg-dry	1	6/26/2014 09:31 AM
m,p-Xylene	ND		64	µg/Kg-dry	1	6/26/2014 09:31 AM
o-Xylene	ND		32	µg/Kg-dry	1	6/26/2014 09:31 AM
Toluene	ND		32	µg/Kg-dry	1	6/26/2014 09:31 AM
Xylenes, Total	ND		96	µg/Kg-dry	1	6/26/2014 09:31 AM
Surr: 1,2-Dichloroethane-d4	109		70-130	%REC	1	6/26/2014 09:31 AM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	6/26/2014 09:31 AM
Surr: Dibromofluoromethane	99.4		70-130	%REC	1	6/26/2014 09:31 AM
Surr: Toluene-d8	101		70-130	%REC	1	6/26/2014 09:31 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 6/26/14		Analyst: JB
Electrical Conductivity @ Saturation	3.8		0.050	mmhos/cm @25	10	6/27/2014 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	12		0.53	mg/Kg-dry	1	6/25/2014 04:15 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 6/21/14		Analyst: JI
Chromium, Hexavalent	ND		0.52	mg/Kg-dry	1	6/21/2014 01:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	6.1		0.050	% of sample	1	6/23/2014 04:45 PM
PH			SW9045D	Prep: EXTRACT / 6/23/14		Analyst: AT
pH	8.9			s.u.	1	6/23/2014 04:00 PM

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

Client: Olsson Associates

QC BATCH REPORT

Work Order: 14061119

Project: Chevron Weyrauch 2-36 Spill 6.17.14

Batch ID: 59943

Instrument ID GC8

Method: SW8015M

MBLK				Sample ID: DBLKS1-59943-59943				Units: mg/Kg		Analysis Date: 6/24/2014 10:33 AM	
Client ID:				Run ID: GC8_140624A				SeqNo: 2823168		Prep Date: 6/23/2014	
										DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	ND	4.2									
Surr: 4-Terphenyl-d14	1.565	0	1.667	0	93.9	39-133	0				

LCS				Sample ID: DLCSS1-59943-59943				Units: mg/Kg		Analysis Date: 6/24/2014 11:03 AM	
Client ID:				Run ID: GC8_140624A				SeqNo: 2823169		Prep Date: 6/23/2014	
										DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	134.8	4.2	166.7	0	80.9	61-109	0				
Surr: 4-Terphenyl-d14	1.388	0	1.667	0	83.3	39-133	0				

MS				Sample ID: 14061151-01A MS				Units: mg/Kg		Analysis Date: 6/24/2014 11:33 AM	
Client ID:				Run ID: GC8_140624A				SeqNo: 2823170		Prep Date: 6/23/2014	
										DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	252.8	8.1	324.4	24.54	70.4	48-110	0				
Surr: 4-Terphenyl-d14	2.231	0	3.244	0	68.8	39-133	0				

MSD				Sample ID: 14061151-01A MSD				Units: mg/Kg		Analysis Date: 6/24/2014 12:03 PM	
Client ID:				Run ID: GC8_140624A				SeqNo: 2823171		Prep Date: 6/23/2014	
										DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	247.6	7.9	317.5	24.54	70.2	48-110	252.8	2.11	30		
Surr: 4-Terphenyl-d14	2.105	0	3.175	0	66.3	39-133	2.231	5.82	30		

The following samples were analyzed in this batch:

14061119-01A

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59995** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-59995-59995				Units: mg/Kg		Analysis Date: 6/25/2014 10:19 AM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824369		Prep Date: 6/24/2014		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>	1.781	0	2	0	89.1	39-133	0			

LCS		Sample ID: DLCSS1-59995-59995				Units: mg/Kg		Analysis Date: 6/25/2014 10:49 AM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824370		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	154.5	5.0	200	0	77.3	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.722	0	2	0	86.1	39-133	0			

MS		Sample ID: 14061125-03A MS				Units: mg/Kg		Analysis Date: 6/25/2014 11:19 AM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824371		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	240.9	8.0	322	30.84	65.2	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.586	0	3.22	0	80.3	39-133	0			

MSD		Sample ID: 14061125-03A MSD				Units: mg/Kg		Analysis Date: 6/25/2014 11:49 AM		
Client ID:		Run ID: GC8_140625A				SeqNo: 2824372		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	254.7	7.9	317.9	30.84	70.4	48-110	240.9	5.59	30	
<i>Surr: 4-Terphenyl-d14</i>	2.532	0	3.179	0	79.7	39-133	2.586	2.12	30	

The following samples were analyzed in this batch:

14061119-02A

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

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59947** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-59947-59947				Units: µg/Kg		Analysis Date: 6/23/2014 05:52 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821620		Prep Date: 6/23/2014		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								
Surr: Toluene-d8	5212	0	5000	0	104	50-150	0			

LCS		Sample ID: LCS-59947-59947				Units: µg/Kg		Analysis Date: 6/23/2014 05:26 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821618		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	468700	2,500	500000	0	93.7	70-130	0			
Surr: Toluene-d8	6051	0	5000	0	121	50-150	0			

MS		Sample ID: 14061155-01A MS				Units: µg/Kg		Analysis Date: 6/23/2014 06:44 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821624		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	494100	2,500	500000	28670	93.1	70-130	0			
Surr: Toluene-d8	6065	0	5000	0	121	50-150	0			

MSD		Sample ID: 14061155-01A MSD				Units: µg/Kg		Analysis Date: 6/23/2014 07:10 PM		
Client ID:		Run ID: GC9_140623A				SeqNo: 2821626		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	485200	2,500	500000	28670	91.3	70-130	494100	1.82	30	
Surr: Toluene-d8	6054	0	5000	0	121	50-150	6065	0.19	30	

The following samples were analyzed in this batch:

14061119-01A	14061119-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **60083** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-60083-60083					Units: mg/Kg		Analysis Date: 6/26/2014 08:56 PM		
Client ID:			Run ID: HG1_140626A				SeqNo: 2826367		Prep Date: 6/26/2014		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-60083-60083					Units: mg/Kg		Analysis Date: 6/26/2014 08:58 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826368		Prep Date: 6/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1592 0.020 0.1665 0 95.6 80-120 0

MS		Sample ID: 14061346-03BMS					Units: mg/Kg		Analysis Date: 6/26/2014 09:53 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826440		Prep Date: 6/26/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1194 0.014 0.1168 0.004877 98 75-125 0

MSD		Sample ID: 14061346-03BMSD				Units: mg/Kg		Analysis Date: 6/26/2014 09:56 PM		
Client ID:			Run ID: HG1_140626A			SeqNo: 2826441		Prep Date: 6/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1218 0.015 0.1212 0.004877 96.5 75-125 0.1194 2.01 35

The following samples were analyzed in this batch:

14061119-01A	14061119-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59952** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 14061125-07BDUP				Units: mg/L		Analysis Date: 6/30/2014 10:48 AM		
Client ID:		Run ID: ICPMS2_140629A				SeqNo: 2829344		Prep Date: 6/26/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	185.4	10	0	0	0	0-0	189.5	2.22		
Magnesium	39.4	4.0	0	0	0	0-0	40	1.51		
Sodium	91.86	4.0	0	0	0	0-0	158.1	53		

DUP		Sample ID: 14061125-07BDUP				Units: none		Analysis Date: 6/29/2014		
Client ID:		Run ID: SAR_140629A				SeqNo: 2829433		Prep Date: 6/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.599	0.010	0	0	0		2.724	52.1	50	R

The following samples were analyzed in this batch:

14061119-01B	14061119-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59971** Instrument ID **ICPMS1** Method: **SW6020A**

Sample ID: MBLK-59971-59971				Units: mg/Kg			Analysis Date: 6/25/2014 10:58 AM			
Client ID:		Run ID: ICPMS1_140624A			SeqNo: 2823621		Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	0.05385	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.02884	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.08535	0.50								J

LCS				Sample ID: LCS-59971-59971				Units: mg/Kg			Analysis Date: 6/25/2014 11:04 AM			
Client ID:				Run ID: ICPMS1_140624A				SeqNo: 2823622			Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	4.648	0.25	5	0	93	80-120	0							
Barium	4.9	0.25	5	0	98	80-120	0							
Cadmium	4.751	0.10	5	0	95	80-120	0							
Chromium	5.145	0.25	5	0	103	80-120	0							
Copper	5.015	0.25	5	0	100	80-120	0							
Lead	4.728	0.25	5	0	94.6	80-120	0							
Nickel	5.11	0.25	5	0	102	80-120	0							
Selenium	4.5	0.25	5	0	90	80-120	0							
Silver	4.98	0.25	5	0	99.6	80-120	0							
Zinc	5.285	0.50	5	0	106	80-120	0							

MS					Sample ID: 14061172-02AMS			Units: mg/Kg		Analysis Date: 6/24/2014 08:38 PM		
Client ID:			Run ID: ICPMS1_140624A			SeqNo: 2822893		Prep Date: 6/23/2014		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	11.14	1.4	6.766	4.24	102	75-125	0					
Barium	85.93	1.4	6.766	74.74	165	75-125	0			SO		
Cadmium	6.793	0.54	6.766	0.3613	95.1	75-125	0					
Chromium	13.24	1.4	6.766	4.999	122	75-125	0					
Copper	9.905	1.4	6.766	3.316	97.4	75-125	0					
Lead	20.67	1.4	6.766	14.52	90.8	75-125	0					
Nickel	11.61	1.4	6.766	4.483	105	75-125	0					
Selenium	7.954	1.4	6.766	1.104	101	75-125	0					
Silver	6.352	1.4	6.766	0.03973	93.3	75-125	0					
Zinc	50.5	2.7	6.766	40.64	146	75-125	0			BSO		

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

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59971** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14061172-02AMSD				Units: mg/Kg		Analysis Date: 6/24/2014 08:44 PM		
Client ID:		Run ID: ICPMS1_140624A				SeqNo: 2822894		Prep Date: 6/23/2014		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.2	1.4	6.766	4.24	147	75-125	11.14	24.2	25	S
Barium	102.5	1.4	6.766	74.74	410	75-125	85.93	17.6	25	SO
Cadmium	6.75	0.54	6.766	0.3613	94.4	75-125	6.793	0.639	25	
Chromium	13.53	1.4	6.766	4.999	126	75-125	13.24	2.16	25	S
Copper	9.867	1.4	6.766	3.316	96.8	75-125	9.905	0.383	25	
Lead	20.42	1.4	6.766	14.52	87.3	75-125	20.67	1.17	25	
Nickel	11.45	1.4	6.766	4.483	103	75-125	11.61	1.46	25	
Selenium	7.862	1.4	6.766	1.104	99.9	75-125	7.954	1.16	25	
Silver	6.476	1.4	6.766	0.03973	95.1	75-125	6.352	1.94	25	
Zinc	48.88	2.7	6.766	40.64	122	75-125	50.5	3.27	25	BO

The following samples were analyzed in this batch:

14061119-01A	14061119-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59942** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-59942-59942				Units: µg/Kg		Analysis Date: 6/24/2014 11:52 AM		
Client ID:		Run ID: SVMS8_140624A				SeqNo: 2823968		Prep Date: 6/23/2014		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	1178	0	1667	0	70.7	12-100	0			
Surr: 4-Terphenyl-d14	1795	0	1667	0	108	25-137	0			
Surr: Nitrobenzene-d5	1023	0	1667	0	61.4	37-107	0			

LCS		Sample ID: SLCSS1-59942-59942				Units: µg/Kg		Analysis Date: 6/24/2014 12:12 PM		
Client ID:		Run ID: SVMS8_140624A				SeqNo: 2823970		Prep Date: 6/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	554	6.7	666.7	0	83.1	45-110	0			
Anthracene	669	6.7	666.7	0	100	55-105	0			
Benzo(a)anthracene	603.3	6.7	666.7	0	90.5	50-110	0			
Benzo(a)pyrene	715	6.7	666.7	0	107	50-110	0			
Benzo(b)fluoranthene	675	6.7	666.7	0	101	45-115	0			
Benzo(k)fluoranthene	652.3	6.7	666.7	0	97.8	45-115	0			
Chrysene	616	6.7	666.7	0	92.4	55-110	0			
Dibenzo(a,h)anthracene	563.3	6.7	666.7	0	84.5	40-125	0			
Fluoranthene	627.3	6.7	666.7	0	94.1	55-115	0			
Fluorene	586.7	6.7	666.7	0	88	50-110	0			
Indeno(1,2,3-cd)pyrene	594	6.7	666.7	0	89.1	40-120	0			
Naphthalene	501.7	6.7	666.7	0	75.2	40-105	0			
Pyrene	719.7	6.7	666.7	0	108	45-125	0			
Surr: 2-Fluorobiphenyl	1212	0	1667	0	72.7	12-100	0			
Surr: 4-Terphenyl-d14	1739	0	1667	0	104	25-137	0			
Surr: Nitrobenzene-d5	1112	0	1667	0	66.7	37-107	0			

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

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: 59942 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 14061119-01A MS			Units: µg/Kg		Analysis Date: 6/24/2014 03:26 PM	
Client ID: Wey2-36 (May)-SS1				Run ID: SVMS8_140624A			SeqNo: 2823980		Prep Date: 6/23/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1123	13	1295	0	86.7	45-110	0			
Anthracene	1349	13	1295	0	104	55-105	0			
Benzo(a)anthracene	1250	13	1295	0	96.5	50-110	0			
Benzo(a)pyrene	1444	13	1295	0	111	50-110	0			S
Benzo(b)fluoranthene	1337	13	1295	0	103	45-115	0			
Benzo(k)fluoranthene	1246	13	1295	0	96.2	45-115	0			
Chrysene	1222	13	1295	0	94.4	55-110	0			
Dibenzo(a,h)anthracene	1294	13	1295	0	99.9	40-125	0			
Fluoranthene	1244	13	1295	15.81	94.9	55-115	0			
Fluorene	1200	13	1295	0	92.7	50-110	0			
Indeno(1,2,3-cd)pyrene	1470	13	1295	0	114	40-120	0			
Naphthalene	921.3	13	1295	0	71.1	40-105	0			
Pyrene	1426	13	1295	4.281	110	45-125	0			
Surr: 2-Fluorobiphenyl	2328	0	3237	0	71.9	12-100	0			
Surr: 4-Terphenyl-d14	3395	0	3237	0	105	25-137	0			
Surr: Nitrobenzene-d5	1986	0	3237	0	61.4	37-107	0			

MSD				Sample ID: 14061119-01A MSD			Units: µg/Kg		Analysis Date: 6/24/2014 03:47 PM	
Client ID: Wey2-36 (May)-SS1				Run ID: SVMS8_140624A			SeqNo: 2823981		Prep Date: 6/23/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1157	13	1325	0	87.3	45-110	1123	3.05	30	
Anthracene	1381	13	1325	0	104	55-105	1349	2.35	30	
Benzo(a)anthracene	1293	13	1325	0	97.5	50-110	1250	3.34	30	
Benzo(a)pyrene	1464	13	1325	0	110	50-110	1444	1.4	30	S
Benzo(b)fluoranthene	1365	13	1325	0	103	45-115	1337	2.06	30	
Benzo(k)fluoranthene	1257	13	1325	0	94.8	45-115	1246	0.892	30	
Chrysene	1261	13	1325	0	95.1	55-110	1222	3.1	30	
Dibenzo(a,h)anthracene	1364	13	1325	0	103	40-125	1294	5.26	30	
Fluoranthene	1275	13	1325	15.81	95.1	55-115	1244	2.46	30	
Fluorene	1232	13	1325	0	93	50-110	1200	2.63	30	
Indeno(1,2,3-cd)pyrene	1559	13	1325	0	118	40-120	1470	5.85	30	
Naphthalene	945.4	13	1325	0	71.3	40-105	921.3	2.59	30	
Pyrene	1497	13	1325	4.281	113	45-125	1426	4.86	30	
Surr: 2-Fluorobiphenyl	2411	0	3313	0	72.8	12-100	2328	3.49	40	
Surr: 4-Terphenyl-d14	3541	0	3313	0	107	25-137	3395	4.21	40	
Surr: Nitrobenzene-d5	2090	0	3313	0	63.1	37-107	1986	5.07	40	

The following samples were analyzed in this batch:

14061119-01A

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

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59993** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-59993-59993				Units: µg/Kg		Analysis Date: 6/26/2014 09:10 AM		
Client ID:		Run ID: SVMS8_140626A				SeqNo: 2825739		Prep Date: 6/24/2014		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	1111	0	1667	0	66.6	12-100	0			
Surr: 4-Terphenyl-d14	1534	0	1667	0	92.1	25-137	0			
Surr: Nitrobenzene-d5	909	0	1667	0	54.5	37-107	0			

LCS		Sample ID: SLCSS1-59993-59993				Units: µg/Kg		Analysis Date: 6/26/2014 09:30 AM		
Client ID:		Run ID: SVMS8_140626A				SeqNo: 2825740		Prep Date: 6/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	598.7	6.7	666.7	0	89.8	45-110	0			
Anthracene	694.7	6.7	666.7	0	104	55-105	0			
Benzo(a)anthracene	629.7	6.7	666.7	0	94.4	50-110	0			
Benzo(a)pyrene	703.3	6.7	666.7	0	105	50-110	0			
Benzo(b)fluoranthene	677	6.7	666.7	0	102	45-115	0			
Benzo(k)fluoranthene	677.7	6.7	666.7	0	102	45-115	0			
Chrysene	650	6.7	666.7	0	97.5	55-110	0			
Dibenzo(a,h)anthracene	596	6.7	666.7	0	89.4	40-125	0			
Fluoranthene	690	6.7	666.7	0	103	55-115	0			
Fluorene	640	6.7	666.7	0	96	50-110	0			
Indeno(1,2,3-cd)pyrene	630	6.7	666.7	0	94.5	40-120	0			
Naphthalene	539.3	6.7	666.7	0	80.9	40-105	0			
Pyrene	701.3	6.7	666.7	0	105	45-125	0			
Surr: 2-Fluorobiphenyl	1297	0	1667	0	77.8	12-100	0			
Surr: 4-Terphenyl-d14	1710	0	1667	0	103	25-137	0			
Surr: Nitrobenzene-d5	1163	0	1667	0	69.8	37-107	0			

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

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59993** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 14061172-02A MS			Units: µg/Kg		Analysis Date: 6/26/2014 01:01 PM	
Client ID:				Run ID: SVMS8_140626A			SeqNo: 2825755		Prep Date: 6/24/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1541	20	1991	0	77.4	45-110	0			
Anthracene	1899	20	1991	19.94	94.3	55-105	0			
Benzo(a)anthracene	1740	20	1991	183.4	78.2	50-110	0			
Benzo(a)pyrene	2012	20	1991	239.3	89	50-110	0			
Benzo(b)fluoranthene	1838	20	1991	193.4	82.6	45-115	0			
Benzo(k)fluoranthene	1626	20	1991	96.71	76.8	45-115	0			
Chrysene	1698	20	1991	107.7	79.8	55-110	0			
Dibenzo(a,h)anthracene	1699	20	1991	76.77	81.4	40-125	0			
Fluoranthene	1932	20	1991	180.5	87.9	55-115	0			
Fluorene	1768	20	1991	0	88.8	50-110	0			
Indeno(1,2,3-cd)pyrene	2091	20	1991	196.4	95.1	40-120	0			
Naphthalene	1261	20	1991	0	63.3	40-105	0			
Pyrene	1974	20	1991	149.6	91.6	45-125	0			
Surr: 2-Fluorobiphenyl	3148	0	4978	0	63.2	12-100	0			
Surr: 4-Terphenyl-d14	4605	0	4978	0	92.5	25-137	0			
Surr: Nitrobenzene-d5	2699	0	4978	0	54.2	37-107	0			

MSD				Sample ID: 14061172-02A MSD			Units: µg/Kg		Analysis Date: 6/26/2014 01:21 PM	
Client ID:				Run ID: SVMS8_140626A			SeqNo: 2825756		Prep Date: 6/24/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1515	20	1972	0	76.8	45-110	1541	1.7	30	
Anthracene	1910	20	1972	19.94	95.8	55-105	1899	0.57	30	
Benzo(a)anthracene	1744	20	1972	183.4	79.1	50-110	1740	0.204	30	
Benzo(a)pyrene	2007	20	1972	239.3	89.7	50-110	2012	0.251	30	
Benzo(b)fluoranthene	1845	20	1972	193.4	83.8	45-115	1838	0.408	30	
Benzo(k)fluoranthene	1605	20	1972	96.71	76.5	45-115	1626	1.3	30	
Chrysene	1679	20	1972	107.7	79.7	55-110	1698	1.11	30	
Dibenzo(a,h)anthracene	1731	20	1972	76.77	83.9	40-125	1699	1.9	30	
Fluoranthene	1849	20	1972	180.5	84.6	55-115	1932	4.34	30	
Fluorene	1734	20	1972	0	87.9	50-110	1768	1.95	30	
Indeno(1,2,3-cd)pyrene	2081	20	1972	196.4	95.6	40-120	2091	0.468	30	
Naphthalene	1251	20	1972	0	63.4	40-105	1261	0.833	30	
Pyrene	2006	20	1972	149.6	94.2	45-125	1974	1.6	30	
Surr: 2-Fluorobiphenyl	3151	0	4929	0	63.9	12-100	3148	0.0788	40	
Surr: 4-Terphenyl-d14	4685	0	4929	0	95	25-137	4605	1.72	40	
Surr: Nitrobenzene-d5	2688	0	4929	0	54.5	37-107	2699	0.402	40	

The following samples were analyzed in this batch:

14061119-02A

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

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59946** Instrument ID **VMS6** Method: **SW8260B**

MBLK				Sample ID: MBLK-59946-59946				Units: µg/Kg			Analysis Date: 6/23/2014 01:10 PM		
Client ID:			Run ID: VMS6_140623A				SeqNo: 2821074			Prep Date: 6/23/2014		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											
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>958.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.8</i>	<i>70-130</i>	<i>0</i>						
<i>Surr: 4-Bromofluorobenzene</i>	<i>974.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.4</i>	<i>70-130</i>	<i>0</i>						
<i>Surr: Dibromofluoromethane</i>	<i>931.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>93.2</i>	<i>70-130</i>	<i>0</i>						
<i>Surr: Toluene-d8</i>	<i>1015</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>						

LCS				Sample ID: LCS-59946-59946				Units: µg/Kg			Analysis Date: 6/23/2014 11:51 AM		
Client ID:			Run ID: VMS6_140623A				SeqNo: 2821072			Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	925	30	1000	0	92.5	75-125	0						
Ethylbenzene	946.5	30	1000	0	94.6	75-125	0						
m,p-Xylene	1888	60	2000	0	94.4	80-125	0						
o-Xylene	924	30	1000	0	92.4	75-125	0						
Toluene	935	30	1000	0	93.5	70-125	0						
Xylenes, Total	2812	90	3000	0	93.7	75-125	0						
Surr: 1,2-Dichloroethane-d4	941.5	0	1000	0	94.2	70-130	0						
Surr: 4-Bromofluorobenzene	988	0	1000	0	98.8	70-130	0						
Surr: Dibromofluoromethane	993.5	0	1000	0	99.4	70-130	0						
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0						

MS				Sample ID: 14061119-02A MS				Units: µg/Kg		Analysis Date: 6/26/2014 09:56 AM	
Client ID: Wey2-26 (May)-SS2			Run ID: VMS5_140625B			SeqNo: 2825586		Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	901	30	1000	0	90.1	75-125	0				
Ethylbenzene	919.5	30	1000	0	92	75-125	0				
m,p-Xylene	1822	60	2000	0	91.1	80-125	0				
o-Xylene	898.5	30	1000	0	89.8	75-125	0				
Toluene	947	30	1000	0	94.7	70-125	0				
Xylenes, Total	2720	90	3000	0	90.7	75-125	0				
Surr: 1,2-Dichloroethane-d4	1003	0	1000	0	100	70-130	0				
Surr: 4-Bromofluorobenzene	1012	0	1000	0	101	70-130	0				
Surr: Dibromofluoromethane	984.5	0	1000	0	98.4	70-130	0				
Surr: Toluene-d8	1022	0	1000	0	102	70-130	0				

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

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59946** Instrument ID **VMS6** Method: **SW8260B**

MSD					Sample ID: 14061119-02A MSD		Units: µg/Kg		Analysis Date: 6/26/2014 10:22 AM		
Client ID: Wey2-26 (May)-SS2			Run ID: VMS5_140625B			SeqNo: 2825587		Prep Date: 6/23/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	871	30	1000	0	87.1	75-125	901	3.39	30		
Ethylbenzene	909	30	1000	0	90.9	75-125	919.5	1.15	30		
m,p-Xylene	1830	60	2000	0	91.5	80-125	1822	0.466	30		
o-Xylene	901.5	30	1000	0	90.2	75-125	898.5	0.333	30		
Toluene	926.5	30	1000	0	92.6	70-125	947	2.19	30		
Xylenes, Total	2732	90	3000	0	91	75-125	2720	0.422	30		
Surr: 1,2-Dichloroethane-d4	1013	0	1000	0	101	70-130	1003	0.992	30		
Surr: 4-Bromofluorobenzene	1025	0	1000	0	102	70-130	1012	1.28	30		
Surr: Dibromofluoromethane	993.5	0	1000	0	99.4	70-130	984.5	0.91	30		
Surr: Toluene-d8	1016	0	1000	0	102	70-130	1022	0.491	30		

The following samples were analyzed in this batch:

14061119-01A

14061119-02A

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

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59932** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-59932-59932				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818493		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.49

LCS		Sample ID: LCS-59932-59932				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818494		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.717 0.50 1.992 0 86.2 80-120 0

MS		Sample ID: 14061060-01B MS				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818495		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.1294 0.49 1.961 0 6.6 75-125 0 JS

MS		Sample ID: 14061060-01B MSI				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818497		Prep Date: 6/21/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 453.5 49 981.9 0 46.2 75-125 0 S

MSD		Sample ID: 14061060-01B MSD				Units: mg/Kg		Analysis Date: 6/21/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140621B				SeqNo: 2818496		Prep Date: 6/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.232 0.50 2 0 11.6 75-125 0.1294 0 20 JS

The following samples were analyzed in this batch:

14061119-01A	14061119-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59952** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14061125-07B DUP				Units: mmhos/cm @25°C		Analysis Date: 6/27/2014 12:00 PM		
Client ID:		Run ID: WETCHEM_140627G				SeqNo: 2827369		Prep Date: 6/26/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.674	0.050	0	0	0		1.621	3.22	50	

The following samples were analyzed in this batch:

14061119-01B	14061119-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 14061119
Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **59982** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-59982-59982					Units: s.u.			Analysis Date: 6/23/2014 04:00 PM				
Client ID:					Run ID: WETCHEM_140623L					SeqNo: 2820388			Prep Date: 6/23/2014			DF: 1	
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: 14061040-01A DUP				Units: s.u.		Analysis Date: 6/23/2014 04:00 PM			
Client ID:				Run ID: WETCHEM_140623L				SeqNo: 2820390		Prep Date: 6/23/2014		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		4.94	0	0	0	0	0-0	4.88	1.22	20				

The following samples were analyzed in this batch:

14061119-01A	14061119-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 14061119
 Project: Chevron Weyrauch 2-36 Spill 6.17.14

QC BATCH REPORT

Batch ID: **R143229** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS-R143229				Units: % of sample			Analysis Date: 6/23/2014 04:45 PM		
Client ID:			Run ID: MOIST_140623C				SeqNo: 2821599			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Moisture	0.03	0.050								J			

LCS		Sample ID: LCS-R143229				Units: % of sample		Analysis Date: 6/23/2014 04:45 PM		
Client ID:		Run ID: MOIST_140623C			SeqNo: 2821598		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: 14061021-01A DUP				Units: % of sample			Analysis Date: 6/23/2014 04:45 PM			
Client ID:				Run ID: MOIST_140623C				SeqNo: 2821582			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Moisture		30.11	0.050	0	0	0	0-0	30.29	0.596	20	H			

DUP				Sample ID: 14061087-01B DUP				Units: % of sample			Analysis Date: 6/23/2014 04:45 PM			
Client ID:				Run ID: MOIST_140623C				SeqNo: 2821589			Prep Date:		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture				6.61	0.050	0	0	0	0-0	6.29	4.96	20		

The following samples were analyzed in this batch:

14061119-01A	14061119-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

Page 1 of 1

COC ID: 123456

- | | | |
|--|--|--|
| <input type="checkbox"/> Cincinnati, OH
+1 513 733 5336 | <input checked="" type="checkbox"/> Holland, MI
+1 616 399 6070 | <input type="checkbox"/> Salt Lake City, UT
+1 801 266 7700 |
| <input type="checkbox"/> Everett, WA
+1 425 356 2600 | <input type="checkbox"/> Houston, TX
+1 281 530 5656 | <input type="checkbox"/> Spring City, PA
+1 610 948 4903 |
| <input type="checkbox"/> Fort Collins, CO
+1 970 490 1511 | <input type="checkbox"/> Middletown, PA
+1 717 944 5541 | <input type="checkbox"/> York, PA
+1 717 505 5280 |

Customer Information		Project Information						Parameter/Method Request for Analysis											
Purchase Order		Project Name	Chevron Weyrauch 2-36 Spill					A TPH (GRO & DRO)											
Work Order		Project Number	013.3287.100.100004					B BTEX											
Company Name	Olsson Associates	Bill To Company	Olsson Associates					C PAH (See Attached List) CO Table 810											
Send Report To	Tim Dobransky	Invoice Attn	Tim Dobransky					D Electrical Conductivity											
Address	760 Horizon Drive, Ste. 102	Address	760 Horizon Drive, Ste. 102					E Sodium Adsorption Ratio											
City/State/Zip	Grand Junction, CO 81506	City/State/Zip	Grand Junction, CO 81506					F pH											
Phone	970.263.7800	Phone	970.263.7800					G Metals (See Attached List) CO Table 810											
Fax	970.263.7458	Fax	970.263.7458					H Arsenic Only											
e-Mail Address	tdobransky@olssonassoc.com	e-Mail Address						I											
								J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Batches	A	B	C	D	E	F	G	H	I	J	Hold		
1	Wey2-36 (May)-SS1	06/17/14	1540	Soil	8	2	X	X	X	X	X	X	X						
2	Wey2-26 (May)-SS2	06/17/14	1555	Soil	8	2	X	X	X	X	X	X	X						
3																			
4																			
5																			
6																			
7																			
8																			
9																			
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Shipper(s): Please Print & Sign Tim Dobransky		Shipment Method: FedEx	Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour	Results Due Date:
Relinquished by: 	Date: 6/19/14	Time: 1645	Received by: FEDEX	Notes: Chevron Pricing Applies - Per Bruce Schlatter
Relinquished by: FEDEX	Date: 6/20/14	Time: 0930	Received by (Laboratory): 	QC Package: (Check Box Below)
Logged by (Laboratory): KR	Date: 6/20/14	Time: 11:25	Checked by (Laboratory): 	<input checked="" type="checkbox"/> Level II: Standard QC
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other				<input type="checkbox"/> Level III: Std QC + Raw Data
				<input type="checkbox"/> Level IV: SW846 CLP-Like
				Other:

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **20-Jun-14 09:30**

Work Order: **14061119**

Received by: **KRW**

Checklist completed by <u>Joseph Ribar</u>	20-Jun-14	Reviewed by: <u>Ann Preston</u>	23-Jun-14
eSignature	Date	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>4.6 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/20/2014 4:37:11 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:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ORIGIN ID: GJTA (970) 270-2988
TIM DOBRANSKY
OLSSON ASSOCIATES, INC.
780 HORIZON DRIVE STE 102

GRAND JUNCTION, CO 81506
UNITED STATES US

SHIP DATE: 19JUN14
ACTWGT: 65.0 LB MAN
CRQ: 390082/CAFE2704

BILL SENDER

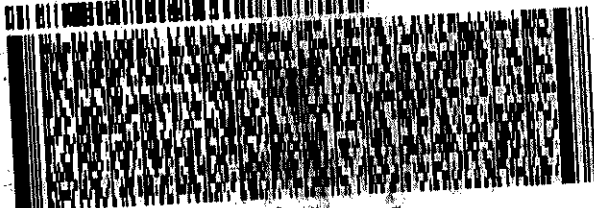
TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL
3352 128TH AVE

HOLLAND MI 49424

(616) 398-6878

PO: 013.3287.100.100004

013 3287 100 100004



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Express



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0201

5632 6808 5341

FRI - 20 JUN 10:30A
PRIORITY OVERNIGHT

XX GRRRA

49424

MI-US GRR

Part 4 156148-434 NRT 05-07





24-May-2016

Tim Dobransky
Olsson Associates
760 Horizon Drive
Suite 102
Grand Junction, CO 81506

Re: **Chevron Weyrauch 2-36 Spill (May)**

Work Order: **1605872**

Dear Tim,

ALS Environmental received 1 sample on 16-May-2016 09:45 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 8.

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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RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill (May)
Work Order: 1605872

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>
1605872-01	Wey2-36-SS1 (May)	Soil		5/11/2016 11:00	5/16/2016 09:45	<input type="checkbox"/>

Client: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill (May)
WorkOrder: 1605872

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
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<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>
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group USA, Corp**Date:** 24-May-16**Client:** Olsson Associates**Project:** Chevron Weyrauch 2-36 Spill (May)**Sample ID:** Wey2-36-SS1 (May)**Collection Date:** 5/11/2016 11:00 AM**Work Order:** 1605872**Lab ID:** 1605872-01**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 5/18/16	Analyst: JEC
Calcium	130		5.0	mg/L	10	5/18/2016 11:42 AM
Magnesium	15		2.0	mg/L	10	5/18/2016 11:42 AM
Sodium	500		2.0	mg/L	10	5/18/2016 11:42 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/18/16	Analyst: JEC
Sodium Adsorption Ratio	11		0.010	none	1	5/18/2016
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/18/16	Analyst: JB
Electrical Conductivity @ Saturation	4.0		0.050	mmhos/cm @2	10	5/18/2016 01:50 PM

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

ALS Group USA, Corp

Date: 24-May-16

Client: Olsson Associates

Work Order: 1605872

Project: Chevron Weyrauch 2-36 Spill (May)

QC BATCH REPORT

Batch ID: **86100**

Instrument ID **ICP2**

Method: **SW846 6010C**

DUP		Sample ID: 1605870-01ADUP				Units: mg/L		Analysis Date: 5/18/2016 11:32 AM		
Client ID:		Run ID: ICP2_160518A				SeqNo: 3834237		Prep Date: 5/18/2016		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	180.3	5.0	0	0	0	0-0	177.6	1.51		
Magnesium	8.103	2.0	0	0	0	0-0	8.024	0.978		
Sodium	24.16	2.0	0	0	0	0-0	23.82	1.41		

DUP		Sample ID: 1605870-01ADUP				Units: none		Analysis Date: 5/18/2016		
Client ID:		Run ID: SAR_160518A				SeqNo: 3834365		Prep Date: 5/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.4782	0.010	0	0	0		0.4749	0.677	50	

The following samples were analyzed in this batch:

1605872-01A

Batch ID: **86100**

Instrument ID **WETCHEM**

Method: **USDA H60 Metho**

DUP		Sample ID: 1605870-01A DUP				Units: mmhos/cm @25°		Analysis Date: 5/18/2016 01:50 PM		
Client ID:		Run ID: WETCHEM_160518K				SeqNo: 3834547		Prep Date: 5/18/2016		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.198	0.050	0	0	0		1.186	1.01	50	

The following samples were analyzed in this batch:

1605872-01A

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

Page 1 of 1

- Cincinnati, OH
+1 513 733 5336
- Everett, WA
+1 425 356 2600
- Fort Collins, CO
+1 970 490 1511

- ☐ Salt Lake City, UT
+1 801 265 7700
- ☐ Spring City, PA
+1 610 948 4903
- ☐ York, PA
+1 717 505 5280

Note: Any changes must be made in writing once samples and COC Forms have been submitted to ALS Environmental.

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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: 13MAY16
 ACTWGT: 85.00 LB
 CAD: 2264840/NET3730
 DIMS: 14x26x15 IN

BILL SENDER

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

HOLLAND MI 49424

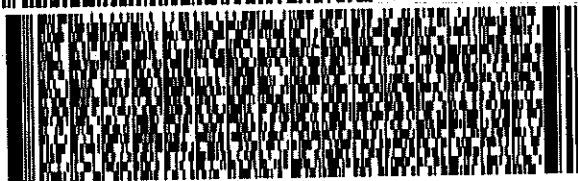
(816) 399-6070

REF: 051316-1

INV

DEPT:

PO: PARACHUTE



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Express



REL#
3785346

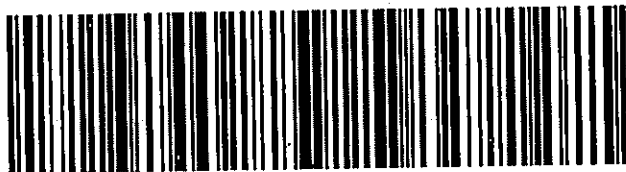
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TRK#
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7763 4205 1742

X0 HLMA

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

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ALS Environmental
 3352-128th Avenue
 Holland, Michigan 49424

Tel: +1 616 399 6070

Fax: +1 616 399 6186

CUSTODY SEAL

Date:

Name:

Signature:

5-13-16

ALS Environmental

Ship to: By:

Date:

Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **16-May-16 09:45**

Work Order: **1605872**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

16-May-16
Date

Reviewed by: Chad Whelton
eSignature

17-May-16
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>5.8/5.8 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>5/16/2016 10:52:42 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:



24-May-2016

Tim Dobransky
Olsson Associates
760 Horizon Drive
Suite 102
Grand Junction, CO 81506

Re: **Chevron Weyrauch 2-36 Spill**

Work Order: **1605871**

Dear Tim,

ALS Environmental received 3 samples on 16-May-2016 09:45 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 12.

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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Client: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill
Work Order: 1605871

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>
1605871-01	Wey2-36-SS3	Soil		5/11/2016 11:20	5/16/2016 09:45	<input type="checkbox"/>
1605871-02	Wey2-26-BG4	Soil		5/11/2016 11:25	5/16/2016 09:45	<input type="checkbox"/>
1605871-03	Wey2-36-BG5	Soil		5/11/2016 11:35	5/16/2016 09:45	<input type="checkbox"/>

Client: Olsson Associates
Project: Chevron Weyrauch 2-36 Spill
WorkOrder: 1605871

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
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<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
none	

ALS Group USA, Corp**Date:** 24-May-16**Client:** Olsson Associates**Project:** Chevron Weyrauch 2-36 Spill**Work Order:** 1605871**Sample ID:** Wey2-36-SS3**Lab ID:** 1605871-01**Collection Date:** 5/11/2016 11:20 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 5/18/16	Analyst: JEC
Calcium	90		5.0	mg/L	10	5/18/2016 11:37 AM
Magnesium	15		2.0	mg/L	10	5/18/2016 11:37 AM
Sodium	3.7		2.0	mg/L	10	5/18/2016 11:37 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/18/16	Analyst: JEC
Sodium Adsorption Ratio	0.095		0.010	none	1	5/18/2016

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

ALS Group USA, Corp**Date:** 24-May-16**Client:** Olsson Associates**Project:** Chevron Weyrauch 2-36 Spill**Work Order:** 1605871**Sample ID:** Wey2-26-BG4**Lab ID:** 1605871-02**Collection Date:** 5/11/2016 11:25 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	6.8		SW846 6010C 0.43	mg/Kg-dry	Prep: SW3050B / 5/18/16 1	Analyst: JEC 5/18/2016 08:06 PM
MOISTURE						
Moisture	12		SW3550C 0.050	% of sample	1	Analyst: EDL 5/16/2016 05:38 PM

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

ALS Group USA, Corp**Date:** 24-May-16**Client:** Olsson Associates**Project:** Chevron Weyrauch 2-36 Spill**Work Order:** 1605871**Sample ID:** Wey2-36-BG5**Lab ID:** 1605871-03**Collection Date:** 5/11/2016 11:35 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	8.9		SW846 6010C 0.45	mg/Kg-dry	Prep: SW3050B / 5/18/16 1	Analyst: JEC 5/18/2016 08:11 PM
MOISTURE						
Moisture	13		SW3550C 0.050	% of sample	1	Analyst: EDL 5/16/2016 05:38 PM

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

ALS Group USA, Corp

Date: 24-May-16

Client: Olsson Associates

Work Order: 1605871

Project: Chevron Weyrauch 2-36 Spill

QC BATCH REPORT

Batch ID: **86100**

Instrument ID **ICP2**

Method: **SW846 6010C**

DUP	Sample ID: 1605870-01ADUP					Units: mg/L	Analysis Date: 5/18/2016 11:32 AM			
Client ID:	Run ID: ICP2_160518A				SeqNo: 3834237		Prep Date: 5/18/2016		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	180.3	5.0	0	0	0	0-0	177.6	1.51		
Magnesium	8.103	2.0	0	0	0	0-0	8.024	0.978		
Sodium	24.16	2.0	0	0	0	0-0	23.82	1.41		

DUP	Sample ID: 1605870-01ADUP					Units: none	Analysis Date: 5/18/2016			
Client ID:	Run ID: SAR_160518A				SeqNo: 3834365		Prep Date: 5/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.4782	0.010	0	0	0		0.4749	0.677	50	

The following samples were analyzed in this batch:

1605871-01A

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

Client: Olsson Associates
 Work Order: 1605871
 Project: Chevron Weyrauch 2-36 Spill

QC BATCH REPORT

Batch ID: **86202** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-86202-86202				Units: mg/Kg		Analysis Date: 5/18/2016 07:57 PM		
Client ID:		Run ID: ICP2_160518A				SeqNo: 3835261		Prep Date: 5/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic ND 0.25

LCS		Sample ID: LCS-86202-86202					Units: mg/Kg		Analysis Date: 5/18/2016 08:01 PM		
Client ID:			Run ID: ICP2_160518A			SeqNo: 3835262		Prep Date: 5/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 5.044 0.25 5 0 101 80-120 0

MS		Sample ID: 1605929-33BMS					Units: mg/Kg		Analysis Date: 5/18/2016 09:38 PM		
Client ID:			Run ID: ICP2_160518A			SeqNo: 3835283		Prep Date: 5/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 7.848 0.36 7.123 0.9725 96.5 75-125 0

MSD		Sample ID: 1605929-33BMSD					Units: mg/Kg		Analysis Date: 5/18/2016 10:01 PM		
Client ID:			Run ID: ICP2_160518A			SeqNo: 3835288		Prep Date: 5/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Arsenic 8.462 0.35 7.062 0.9725 106 75-125 7.848 7.54 20

The following samples were analyzed in this batch:

1605871-02A 1605871-03A

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

Client: Olsson Associates
Work Order: 1605871
Project: Chevron Weyrauch 2-36 Spill

QC BATCH REPORT

Batch ID: **R187651** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R187651				Units: % of sample		Analysis Date: 5/16/2016 05:38 PM		
Client ID:		Run ID: MOIST_160516A				SeqNo: 3830956		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-R187651				Units: % of sample		Analysis Date: 5/16/2016 05:38 PM		
Client ID:		Run ID: MOIST_160516A				SeqNo: 3830955		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: 1605864-04B DUP				Units: % of sample		Analysis Date: 5/16/2016 05:38 PM		
Client ID:		Run ID: MOIST_160516A				SeqNo: 3830946		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 18.62 0.050 0 0 0 20.59 10 20

The following samples were analyzed in this batch:

1605871-02A 1605871-03A

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

Page 1 of 1

- ❑ Cincinnati, OH
+1 513 733 5336
- ❑ Everett, WA
+1 425 356 2600
- ❑ Fort Collins, CO
+1 970 490 1511

- **Holland, MI**
+1 616 399 6070
- **Houston, TX**
+1 281 530 5656
- **Middletown, PA**
+1 717 944 5541

- ☐ Salt Lake City, UT
+1 801 266 7700
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[illegible]

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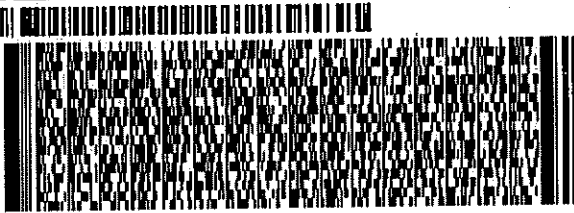
ORIGIN ID: RILA (816) 288-1033
 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81635
 UNITED STATES US

SHIP DATE: 13MAY16
 ACTWGT: 65.00 LB
 CAD: 2284840/NET3730
 DIMS: 14x26x15 IN
 BILL SENDER

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

HOLLAND MI 49424

(816) 389-6070 REF: 051316-1
 INV PQ PARACHUTE DEPT:



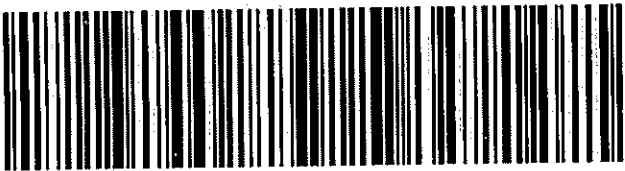
REL#
 3785346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7763 4205 1742
 0201

X0 HLMA

49424
 MI-US GRR



540116323727F

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 for use in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the amount of the declared value. Recovery cannot exceed actual documented loss. Maximum for items of value is \$500.00. For items of value over \$500.00, recovery is limited to the amount of the declared value. Recovery cannot exceed actual documented loss. Maximum for items of value over \$500.00 is \$500.00. For items of value over \$500.00, recovery is limited to the amount of the declared value. Recovery cannot exceed actual documented loss. Maximum for items of value over \$500.00 is \$500.00.

ALS Environmental
 3352 128th Avenue
 Holland, Michigan 49424
 Tel: +1 616 389 6070
 Fax: +1 616 389 6135

CUSTOMER SEAL

Seal Broken By:

Date:

Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **16-May-16 09:45**

Work Order: **1605871**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

16-May-16
Date

Reviewed by: Chad Whelton
eSignature

17-May-16
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>5.8/5.8 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>5/16/2016 10:44:47 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: