01-Jun-2015

Blair Rollins
Oxy USA WTP LP
760 Horizon Dr.
Grand Junction, CO 81506

Re: **Soil - COGCC Table 910-1** Work Order: **15051538**

Dear Blair,

ALS Environmental received 2 samples on 28-May-2015 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 27.

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

Sincerely,

Chad Whelton

Electronically approved by: Les Arnold

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group USA, Corp

Date: 01-Jun-15

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1
Work Order: **15051538**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15051538-01	S Wall 8'	Soil		5/26/2015 10:00	5/28/2015 10:00	☐
15051538-02	W Wall 8'	Soil		5/26/2015 10:15	5/28/2015 10:00	☐

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1
WorkOrder: **15051538**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

ALS Group USA, Corp

Date: 01-Jun-15

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1
Work Order: 15051538

Case Narrative

Batch 71556, Method VOC_8260_S, Sample 15051538-01A: Surrogate high due to matrix interference. Toluene d8

ALS Group USA, Corp

Date: *01-Jun-15*

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1
Work Order: 15051538
Sample ID: S Wall 8'
Lab ID: 15051538-01
Collection Date: 5/26/2015 10:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **5/29/2015**	Analyst: **IT**
DRO (C10-C28)	**16**		**5.4**	**mg/Kg-dry**	1	5/29/2015 05:39 PM
Surr: 4-Terphenyl-d14	*65.6*		*39-133*	*%REC*	1	5/29/2015 05:39 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep Date: **5/28/2015**	Analyst: **IT**
GRO (C6-C10)	**400**		**3.3**	**mg/Kg-dry**	1	5/29/2015 12:26 PM
Surr: Toluene-d8	*104*		*50-150*	*%REC*	1	5/29/2015 12:26 PM
MERCURY BY CVAA			**SW7471B**		Prep Date: **5/29/2015**	Analyst: **LR**
Mercury	ND		0.016	mg/Kg-dry	1	5/29/2015 07:02 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep Date: **5/29/2015**	Analyst: **JEC**
Arsenic	**5.9**		**0.50**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
Barium	**160**		**0.50**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
Cadmium	ND		1.0	mg/Kg-dry	1	6/1/2015 10:22 AM
Chromium	**15**		**0.50**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
Copper	**22**		**1.0**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
Lead	**13**		**0.50**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
Nickel	**16**		**0.50**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
Selenium	ND		1.0	mg/Kg-dry	1	6/1/2015 10:22 AM
Silver	ND		0.50	mg/Kg-dry	1	6/1/2015 10:22 AM
Zinc	**58**		**1.0**	**mg/Kg-dry**	1	6/1/2015 10:22 AM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep Date: **6/1/2015**	Analyst: **JEC**
Calcium	**250**		**5.0**	**mg/L**	10	6/1/2015 12:17 PM
Magnesium	**47**		**2.0**	**mg/L**	10	6/1/2015 12:17 PM
Sodium	**97**		**2.0**	**mg/L**	10	6/1/2015 12:17 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **6/1/2015**	Analyst: **JEC**
Exchangeable Sodium Percentage	**0.90**		**0.010**	**none**	1	6/1/2015
Sodium Adsorption Ratio	**1.5**		**0.010**	**none**	1	6/1/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date: **5/29/2015**	Analyst: **RM**
2-Chloronaphthalene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
2-Methylnaphthalene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Acenaphthene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Acenaphthylene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Anthracene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Benzo(a)anthracene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Benzo(a)pyrene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Benzo(b)fluoranthene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Benzo(g,h,i)perylene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Benzo(k)fluoranthene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM

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

ALS Group USA, Corp

Date: *01-Jun-15*

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1 **Work Order:** 15051538
Sample ID: S Wall 8' **Lab ID:** 15051538-01
Collection Date: 5/26/2015 10:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Dibenzo(a,h)anthracene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Fluoranthene	**0.018**		**0.0087**	**mg/Kg-dry**	1	5/29/2015 07:49 PM
Fluorene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Indeno(1,2,3-cd)pyrene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Naphthalene	ND		0.0087	mg/Kg-dry	1	5/29/2015 07:49 PM
Phenanthrene	**0.021**		**0.0087**	**mg/Kg-dry**	1	5/29/2015 07:49 PM
Pyrene	**0.010**		**0.0087**	**mg/Kg-dry**	1	5/29/2015 07:49 PM
Surr: 2-Fluorobiphenyl	*65.5*		*12-100*	*%REC*	1	5/29/2015 07:49 PM
Surr: 4-Terphenyl-d14	*106*		*25-137*	*%REC*	1	5/29/2015 07:49 PM
Surr: Nitrobenzene-d5	*64.7*		*37-107*	*%REC*	1	5/29/2015 07:49 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **5/28/2015**	Analyst: **LSY**
Benzene	ND		0.039	mg/Kg-dry	1	5/31/2015 08:08 PM
Ethylbenzene	**0.54**		**0.039**	**mg/Kg-dry**	1	5/31/2015 08:08 PM
m,p-Xylene	**7.1**		**0.078**	**mg/Kg-dry**	1	5/31/2015 08:08 PM
o-Xylene	**1.2**		**0.039**	**mg/Kg-dry**	1	5/31/2015 08:08 PM
Toluene	**0.76**		**0.039**	**mg/Kg-dry**	1	5/31/2015 08:08 PM
Xylenes, Total	**8.3**		**0.12**	**mg/Kg-dry**	1	5/31/2015 08:08 PM
Surr: 1,2-Dichloroethane-d4	*96.8*		*70-130*	*%REC*	1	5/31/2015 08:08 PM
Surr: 4-Bromofluorobenzene	*115*		*70-130*	*%REC*	1	5/31/2015 08:08 PM
Surr: Dibromofluoromethane	*91.5*		*70-130*	*%REC*	1	5/31/2015 08:08 PM
Surr: Toluene-d8	*144*	S	*70-130*	*%REC*	1	5/31/2015 08:08 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **6/1/2015**	Analyst: **JB**
Electrical Conductivity @ Saturation	**2.5**		**0.050**	**mmhos/cm @2**	10	6/1/2015 02:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**15**		**0.65**	**mg/Kg-dry**	1	6/1/2015 01:15 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **5/30/2015**	Analyst: **MB**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	6/1/2015 10:00 AM
MOISTURE			**E160.3M**			Analyst: **EVB**
Moisture	**23**		**0.050**	**% of sample**	1	5/29/2015 03:55 PM
PH			**SW9045D**		Prep Date: **5/29/2015**	Analyst: **STP**
pH	**7.5**			**s.u.**	1	5/29/2015 05:30 PM

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

ALS Group USA, Corp

Date: *01-Jun-15*

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1 **Work Order:** 15051538
Sample ID: W Wall 8' **Lab ID:** 15051538-02
Collection Date: 5/26/2015 10:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **5/29/2015**	Analyst: **IT**
DRO (C10-C28)	**21**		**5.1**	**mg/Kg-dry**	1	5/29/2015 06:09 PM
Surr: 4-Terphenyl-d14	*66.9*		*39-133*	*%REC*	1	5/29/2015 06:09 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep Date: **5/28/2015**	Analyst: **IT**
GRO (C6-C10)	ND		3.1	mg/Kg-dry	1	5/29/2015 12:51 PM
Surr: Toluene-d8	*121*		*50-150*	*%REC*	1	5/29/2015 12:51 PM
MERCURY BY CVAA			**SW7471B**		Prep Date: **5/29/2015**	Analyst: **LR**
Mercury	ND		0.016	mg/Kg-dry	1	5/29/2015 07:04 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep Date: **5/29/2015**	Analyst: **JEC**
Arsenic	**5.1**		**0.44**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
Barium	**200**		**0.44**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
Cadmium	ND		0.88	mg/Kg-dry	1	6/1/2015 10:27 AM
Chromium	**17**		**0.44**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
Copper	**18**		**0.88**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
Lead	**13**		**0.44**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
Nickel	**16**		**0.44**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
Selenium	ND		0.88	mg/Kg-dry	1	6/1/2015 10:27 AM
Silver	ND		0.44	mg/Kg-dry	1	6/1/2015 10:27 AM
Zinc	**57**		**0.88**	**mg/Kg-dry**	1	6/1/2015 10:27 AM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep Date: **6/1/2015**	Analyst: **JEC**
Calcium	**65**		**5.0**	**mg/L**	10	6/1/2015 12:23 PM
Magnesium	**16**		**2.0**	**mg/L**	10	6/1/2015 12:23 PM
Sodium	**42**		**2.0**	**mg/L**	10	6/1/2015 12:23 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **6/1/2015**	Analyst: **JEC**
Exchangeable Sodium Percentage	**0.54**		**0.010**	**none**	1	6/1/2015
Sodium Adsorption Ratio	**1.2**		**0.010**	**none**	1	6/1/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date: **5/29/2015**	Analyst: **RM**
2-Chloronaphthalene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
2-Methylnaphthalene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Acenaphthene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Acenaphthylene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Anthracene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Benzo(a)anthracene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Benzo(a)pyrene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Benzo(b)fluoranthene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Benzo(g,h,i)perylene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Benzo(k)fluoranthene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM

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

ALS Group USA, Corp

Date: *01-Jun-15*

Client: Oxy USA WTP LP
Project: Soil - COGCC Table 910-1 **Work Order:** 15051538
Sample ID: W Wall 8' **Lab ID:** 15051538-02
Collection Date: 5/26/2015 10:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Dibenzo(a,h)anthracene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Fluoranthene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Fluorene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Indeno(1,2,3-cd)pyrene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Naphthalene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Phenanthrene	**0.010**		**0.0082**	**mg/Kg-dry**	1	5/29/2015 08:09 PM
Pyrene	ND		0.0082	mg/Kg-dry	1	5/29/2015 08:09 PM
Surr: 2-Fluorobiphenyl	*69.2*		*12-100*	*%REC*	1	5/29/2015 08:09 PM
Surr: 4-Terphenyl-d14	*104*		*25-137*	*%REC*	1	5/29/2015 08:09 PM
Surr: Nitrobenzene-d5	*70.8*		*37-107*	*%REC*	1	5/29/2015 08:09 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date: **5/28/2015**	Analyst: **LSY**
Benzene	ND		0.038	mg/Kg-dry	1	5/31/2015 07:43 PM
Ethylbenzene	ND		0.038	mg/Kg-dry	1	5/31/2015 07:43 PM
m,p-Xylene	**0.080**		**0.075**	**mg/Kg-dry**	1	5/31/2015 07:43 PM
o-Xylene	ND		0.038	mg/Kg-dry	1	5/31/2015 07:43 PM
Toluene	ND		0.038	mg/Kg-dry	1	5/31/2015 07:43 PM
Xylenes, Total	ND		0.11	mg/Kg-dry	1	5/31/2015 07:43 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	1	5/31/2015 07:43 PM
Surr: 4-Bromofluorobenzene	*99.3*		*70-130*	*%REC*	1	5/31/2015 07:43 PM
Surr: Dibromofluoromethane	*98.8*		*70-130*	*%REC*	1	5/31/2015 07:43 PM
Surr: Toluene-d8	*96.6*		*70-130*	*%REC*	1	5/31/2015 07:43 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **6/1/2015**	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.74**		**0.050**	**mmhos/cm @2**	10	6/1/2015 02:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**17**		**0.63**	**mg/Kg-dry**	1	6/1/2015 01:15 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **5/30/2015**	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	6/1/2015 10:00 AM
MOISTURE			**E160.3M**			Analyst: **EVB**
Moisture	**20**		**0.050**	**% of sample**	1	5/29/2015 03:55 PM
PH			**SW9045D**		Prep Date: **5/29/2015**	Analyst: **STP**
pH	**7.2**			**s.u.**	1	5/29/2015 05:30 PM

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71621** Instrument ID **GC8** Method: **SW8015M**

MBLK	Sample ID: **DBLKS1-71621-71621**			Units: **mg/Kg**			Analysis Date: **5/29/2015 01:40 PM**			
Client ID:	Run ID: **GC8_150529A**			SeqNo: **3297747**			Prep Date: **5/29/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	*1.488*	0	*2*	0	*74.4*	*39-133*	0			

LCS	Sample ID: **DLCSS1-71621-71621**			Units: **mg/Kg**			Analysis Date: **5/29/2015 02:10 PM**			
Client ID:	Run ID: **GC8_150529A**			SeqNo: **3297748**			Prep Date: **5/29/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	139.2	5.0	200	0	69.6	61-109	0			
Surr: 4-Terphenyl-d14	*1.265*	0	*2*	0	*63.2*	*39-133*	0			

MS	Sample ID: **15051514-01B MS**			Units: **mg/Kg**			Analysis Date: **5/29/2015 03:10 PM**			
Client ID:	Run ID: **GC8_150529A**			SeqNo: **3299793**			Prep Date: **5/29/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	232.8	8.0	318.6	11.28	69.5	48-110	0			
Surr: 4-Terphenyl-d14	*1.973*	0	*3.186*	0	*61.9*	*39-133*	0			

MSD	Sample ID: **15051514-01B MSD**			Units: **mg/Kg**			Analysis Date: **5/29/2015 03:40 PM**			
Client ID:	Run ID: **GC8_150529A**			SeqNo: **3299794**			Prep Date: **5/29/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	237.4	8.1	323.2	11.28	70	48-110	232.8	1.96	30	
Surr: 4-Terphenyl-d14	*2.136*	0	*3.232*	0	*66.1*	*39-133*	1.973	*7.93*	*30*	

The following samples were analyzed in this batch: 15051538-01B, 15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71557** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-71557-71557** Units: **µg/Kg** Analysis Date: **5/28/2015 03:11 PM**
Client ID: Run ID: **GC9_150528A** SeqNo: **3296266** Prep Date: **5/28/2015** 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	*5850*	0	*5000*	0	*117*	*50-150*	0			

LCS Sample ID: **LCS-71557-71557** Units: **µg/Kg** Analysis Date: **5/28/2015 02:46 PM**
Client ID: Run ID: **GC9_150528A** SeqNo: **3296265** Prep Date: **5/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	464600	2,500	500000	0	92.9	70-130	0			
Surr: Toluene-d8	*5188*	0	*5000*	0	*104*	*50-150*	0			

MS Sample ID: **15051538-02A MS** Units: **µg/Kg** Analysis Date: **5/29/2015 01:16 AM**
Client ID: **W Wall 8'** Run ID: **GC9_150528A** SeqNo: **3296989** Prep Date: **5/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	521300	2,500	500000	0	104	70-130	0			
Surr: Toluene-d8	*4170*	0	*5000*	0	*83.4*	*50-150*	0			

MSD Sample ID: **15051538-02A MSD** Units: **µg/Kg** Analysis Date: **5/29/2015 01:41 AM**
Client ID: **W Wall 8'** Run ID: **GC9_150528A** SeqNo: **3296990** Prep Date: **5/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	507800	2,500	500000	0	102	70-130	521300	2.63	30	
Surr: Toluene-d8	*4181*	0	*5000*	0	*83.6*	*50-150*	4170	*0.275*	*30*	

The following samples were analyzed in this batch: 15051538-01A, 15051538-02A

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71589** Instrument ID **HG1** Method: **SW7471B**

MBLK Sample ID: **MBLK-71589-71589** Units: **mg/Kg** Analysis Date: **5/29/2015 05:22 PM**
Client ID: Run ID: **HG1_150529A** SeqNo: **3297955** Prep Date: **5/29/2015** 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-71589-71589** Units: **mg/Kg** Analysis Date: **5/29/2015 05:24 PM**
Client ID: Run ID: **HG1_150529A** SeqNo: **3297956** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1872	0.020	0.1665	0	112	80-120	0			

MS Sample ID: **15051540-01CMS** Units: **mg/Kg** Analysis Date: **5/29/2015 05:41 PM**
Client ID: Run ID: **HG1_150529A** SeqNo: **3298036** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1372	0.013	0.11	0.01847	108	75-125	0			

MSD Sample ID: **15051540-01CMSD** Units: **mg/Kg** Analysis Date: **5/29/2015 05:43 PM**
Client ID: Run ID: **HG1_150529A** SeqNo: **3298037** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1445	0.013	0.1108	0.01847	114	75-125	0.1372	5.18	35	

The following samples were analyzed in this batch:

15051538-01B	15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71578** Instrument ID **ICP2** Method: **SW846 6010C**

DUP Sample ID: **15051538-02BDUP** Units: **mg/L** Analysis Date: **6/1/2015 12:32 PM**
Client ID: **W Wall 8'** Run ID: **ICP2_150601A** SeqNo: **3299712** Prep Date: **6/1/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	65.86	5.0	0	0	0	0-0	65.16	1.07		
Magnesium	15.36	2.0	0	0	0	0-0	15.65	1.83		
Sodium	40.86	2.0	0	0	0	0-0	42.23	3.32		

DUP Sample ID: **15051538-02BDUP** Units: **none** Analysis Date: **6/1/2015**
Client ID: **W Wall 8'** Run ID: **SAR_150601A** SeqNo: **3299800** Prep Date: **6/1/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Exchangeable Sodium Percentage	0.4756	0.010	0	0	0		0.5358	11.9	50	
Sodium Adsorption Ratio	1.178	0.010	0	0	0		1.219	3.44	50	

The following samples were analyzed in this batch:

15051538-01B	15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71656** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-71656-71656** Units: **mg/L** Analysis Date: **6/1/2015 09:05 AM**
Client ID: Run ID: **ICP2_150601A** SeqNo: **3299454** Prep Date: **5/29/2015** DF: **1**

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

LCS Sample ID: **LCS-71656-71656** Units: **mg/L** Analysis Date: **6/1/2015 09:11 AM**
Client ID: Run ID: **ICP2_150601A** SeqNo: **3299455** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.595	0.25	5	0	91.9	80-120	0			
Barium	4.985	0.25	5	0	99.7	80-120	0			
Cadmium	4.838	0.50	5	0	96.8	80-120	0			
Chromium	5.071	0.25	5	0	101	80-120	0			
Copper	5.164	0.50	5	0	103	80-120	0			
Lead	5.172	0.25	5	0	103	80-120	0			
Nickel	4.901	0.25	5	0	98	80-120	0			
Selenium	4.963	0.50	5	0	99.3	80-120	0			
Silver	4.877	0.25	5	0	97.5	80-120	0			
Zinc	4.979	0.50	5	0	99.6	80-120	0			

MS Sample ID: **15051492-05CMS** Units: **mg/Kg** Analysis Date: **6/1/2015 09:43 AM**
Client ID: Run ID: **ICP2_150601A** SeqNo: **3299462** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.8	0.38	7.541	4.733	107	75-125	0			
Barium	64.15	0.38	7.541	55.48	115	75-125	0			O
Cadmium	9.045	0.75	7.541	1.703	97.4	75-125	0			
Chromium	17.97	0.38	7.541	7.884	134	75-125	0			S
Copper	21.15	0.75	7.541	11.6	127	75-125	0			S
Lead	28.4	0.38	7.541	17.47	145	75-125	0			S
Nickel	16.89	0.38	7.541	7.602	123	75-125	0			
Selenium	7.785	0.75	7.541	-0.04178	104	75-125	0			
Silver	7.64	0.38	7.541	-0.119	103	75-125	0			
Zinc	396.1	0.75	7.541	386.8	123	75-125	0			O

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71656** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **15051492-05CMSD** Units: **mg/Kg** Analysis Date: **6/1/2015 09:49 AM**

Client ID: Run ID: **ICP2_150601A** SeqNo: **3299464** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.18	0.38	7.508	4.733	112	75-125	12.8	2.92	20	
Barium	69.74	0.38	7.508	55.48	190	75-125	64.15	8.35	20	SO
Cadmium	8.517	0.75	7.508	1.703	90.8	75-125	9.045	6.01	20	
Chromium	18.08	0.38	7.508	7.884	136	75-125	17.97	0.598	20	S
Copper	21.81	0.75	7.508	11.6	136	75-125	21.15	3.08	20	S
Lead	27.28	0.38	7.508	17.47	131	75-125	28.4	4.04	20	S
Nickel	16.89	0.38	7.508	7.602	124	75-125	16.89	0.00953	20	
Selenium	7.587	0.75	7.508	-0.04178	102	75-125	7.785	2.57	20	
Silver	7.555	0.38	7.508	-0.119	102	75-125	7.64	1.11	20	
Zinc	292.6	0.75	7.508	386.8	-1260	75-125	396.1	30.1	20	SRO

The following samples were analyzed in this batch: 15051538-01B 15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71620** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-71620-71620** Units: **µg/Kg** Analysis Date: **5/29/2015 03:46 PM**
Client ID: Run ID: **SVMS8_150529A** SeqNo: **3300020** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	ND	6.7								
2-Methylnaphthalene	ND	6.7								
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								
Phenanthrene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	*1226*	0	*1667*	0	*73.6*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1711*	0	*1667*	0	*103*	*25-137*	0			
Surr: Nitrobenzene-d5	*1244*	0	*1667*	0	*74.6*	*37-107*	0			

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

QC BATCH REPORT

Batch ID: **71620** Instrument ID **SVMS8** Method: **SW846 8270D**

LCS Sample ID: **SLCSS1-71620-71620** Units: **µg/Kg** Analysis Date: **5/29/2015 04:07 PM**
Client ID: Run ID: **SVMS8_150529A** SeqNo: **3300414** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	566.3	6.7	666.7	0	84.9	45-105	0			
2-Methylnaphthalene	601.3	6.7	666.7	0	90.2	45-105	0			
Acenaphthene	553	6.7	666.7	0	82.9	45-110	0			
Acenaphthylene	587.7	6.7	666.7	0	88.1	45-105	0			
Anthracene	639.7	6.7	666.7	0	95.9	55-105	0			
Benzo(a)anthracene	619.3	6.7	666.7	0	92.9	50-110	0			
Benzo(a)pyrene	725.3	6.7	666.7	0	109	50-110	0			
Benzo(b)fluoranthene	757.7	6.7	666.7	0	114	45-115	0			
Benzo(g,h,i)perylene	663.3	6.7	666.7	0	99.5	40-125	0			
Benzo(k)fluoranthene	761.7	6.7	666.7	0	114	45-115	0			
Chrysene	617.7	6.7	666.7	0	92.6	55-110	0			
Dibenzo(a,h)anthracene	710.7	6.7	666.7	0	107	40-125	0			
Fluoranthene	597.7	6.7	666.7	0	89.6	55-115	0			
Fluorene	580.7	6.7	666.7	0	87.1	50-110	0			
Indeno(1,2,3-cd)pyrene	705	6.7	666.7	0	106	40-120	0			
Naphthalene	525	6.7	666.7	0	78.7	40-105	0			
Phenanthrene	585	6.7	666.7	0	87.7	50-110	0			
Pyrene	675.3	6.7	666.7	0	101	45-125	0			
Surr: 2-Fluorobiphenyl	*1248*	0	*1667*	0	*74.9*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1795*	0	*1667*	0	*108*	*25-137*	0			
Surr: Nitrobenzene-d5	*1318*	0	*1667*	0	*79.1*	*37-107*	0			

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71620** Instrument ID **SVMS8** Method: **SW846 8270D**

MS Sample ID: **15051540-01C MS** Units: **µg/Kg** Analysis Date: **5/29/2015 04:27 PM**
Client ID: Run ID: **SVMS8_150529A** SeqNo: **3300415** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1137	13	1324	0	85.9	45-105	0			
2-Methylnaphthalene	1230	13	1324	0	92.9	45-105	0			
Acenaphthene	1134	13	1324	0	85.6	45-110	0			
Acenaphthylene	1209	13	1324	0	91.3	45-105	0			
Anthracene	1302	13	1324	0	98.3	55-105	0			
Benzo(a)anthracene	1256	13	1324	0	94.8	50-110	0			
Benzo(a)pyrene	1456	13	1324	0	110	50-110	0			
Benzo(b)fluoranthene	1487	13	1324	0	112	45-115	0			
Benzo(g,h,i)perylene	1412	13	1324	0	107	40-125	0			
Benzo(k)fluoranthene	1500	13	1324	0	113	45-115	0			
Chrysene	1221	13	1324	0	92.2	55-110	0			
Dibenzo(a,h)anthracene	1483	13	1324	0	112	40-125	0			
Fluoranthene	1229	13	1324	0	92.8	55-115	0			
Fluorene	1194	13	1324	0	90.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1493	13	1324	0	113	40-120	0			
Naphthalene	1077	13	1324	0	81.3	40-105	0			
Phenanthrene	1193	13	1324	6.252	89.7	50-110	0			
Pyrene	1387	13	1324	0	105	45-125	0			
Surr: 2-Fluorobiphenyl	*2540*	0	*3310*	0	*76.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3732*	0	*3310*	0	*113*	*25-137*	0			
Surr: Nitrobenzene-d5	*2738*	0	*3310*	0	*82.7*	*37-107*	0			

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71620** Instrument ID **SVMS8** Method: **SW846 8270D**

MSD Sample ID: **15051540-01C MSD** Units: **µg/Kg** Analysis Date: **5/29/2015 04:47 PM**

Client ID: Run ID: **SVMS8_150529A** SeqNo: **3300416** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	1069	13	1296	0	82.5	45-105	1137	6.14	30	
2-Methylnaphthalene	1153	13	1296	0	88.9	45-105	1230	6.5	30	
Acenaphthene	1055	13	1296	0	81.3	45-110	1134	7.25	30	
Acenaphthylene	1125	13	1296	0	86.7	45-105	1209	7.27	30	
Anthracene	1222	13	1296	0	94.3	55-105	1302	6.31	30	
Benzo(a)anthracene	1191	13	1296	0	91.8	50-110	1256	5.32	30	
Benzo(a)pyrene	1410	13	1296	0	109	50-110	1456	3.15	30	
Benzo(b)fluoranthene	1486	13	1296	0	115	45-115	1487	0.12	30	
Benzo(g,h,i)perylene	1320	13	1296	0	102	40-125	1412	6.75	30	
Benzo(k)fluoranthene	1449	13	1296	0	112	45-115	1500	3.43	30	
Chrysene	1160	13	1296	0	89.5	55-110	1221	5.13	30	
Dibenzo(a,h)anthracene	1401	13	1296	0	108	40-125	1483	5.65	30	
Fluoranthene	1173	13	1296	0	90.5	55-115	1229	4.67	30	
Fluorene	1117	13	1296	0	86.1	50-110	1194	6.69	30	
Indeno(1,2,3-cd)pyrene	1414	13	1296	0	109	40-120	1493	5.39	30	
Naphthalene	1020	13	1296	0	78.6	40-105	1077	5.48	30	
Phenanthrene	1123	13	1296	6.252	86.1	50-110	1193	6.12	30	
Pyrene	1307	13	1296	0	101	45-125	1387	5.99	30	
Surr: 2-Fluorobiphenyl	*2381*	0	*3241*	0	*73.5*	*12-100*	2540	*6.47*	*40*	
Surr: 4-Terphenyl-d14	*3465*	0	*3241*	0	*107*	*25-137*	3732	*7.42*	*40*	
Surr: Nitrobenzene-d5	*2611*	0	*3241*	0	*80.6*	*37-107*	2738	*4.72*	*40*	

The following samples were analyzed in this batch:

15051538-01B	15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71556** Instrument ID **VMS7** Method: **SW8260B**

MBLK Sample ID: **MBLK-71556-71556** Units: **µg/Kg** Analysis Date: **5/28/2015 02:12 PM**
Client ID: Run ID: **VMS7_150528A** SeqNo: **3297459** Prep Date: **5/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*974.5*	0	*1000*	0	*97.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1008*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*967.5*	0	*1000*	0	*96.8*	*70-130*	0			
Surr: Toluene-d8	*965*	0	*1000*	0	*96.5*	*70-130*	0			

LCS Sample ID: **LCS-71556-71556** Units: **µg/Kg** Analysis Date: **5/28/2015 12:33 PM**
Client ID: Run ID: **VMS7_150528A** SeqNo: **3297458** Prep Date: **5/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1140	30	1000	0	114	75-125	0			
Ethylbenzene	1046	30	1000	0	105	75-125	0			
m,p-Xylene	2114	60	2000	0	106	80-125	0			
o-Xylene	1014	30	1000	0	101	75-125	0			
Toluene	1108	30	1000	0	111	70-125	0			
Xylenes, Total	3128	90	3000	0	104	75-125	0			
Surr: 1,2-Dichloroethane-d4	*984*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1005*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*965*	0	*1000*	0	*96.5*	*70-130*	0			

The following samples were analyzed in this batch:

15051538-01A	15051538-02A

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71578** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP Sample ID: **15051538-02B DUP** Units: **mmhos/cm @25°** Analysis Date: **6/1/2015 02:15 PM**

Client ID: **W Wall 8'** Run ID: **WETCHEM_150601M** SeqNo: **3299949** Prep Date: **6/1/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.819	0.050	0	0	0		0.738	10.4	50	

The following samples were analyzed in this batch: 15051538-01B 15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71663** Instrument ID **WETCHEM** Method: **SW9045D**

DUP Sample ID: **15051532-01A DUP** Units: **s.u.** Analysis Date: **5/29/2015 05:30 PM**

Client ID: Run ID: **WETCHEM_150529N** SeqNo: **3298022** Prep Date: **5/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.6	0	0	0	0	0-0	6.61	0.151	20	

The following samples were analyzed in this batch: 15051538-01B, 15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **71711** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-71711-71711** Units: **mg/Kg** Analysis Date: **6/1/2015 10:00 AM**
Client ID: Run ID: **WETCHEM_150601B** SeqNo: **3299361** Prep Date: **5/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	1.0								

LCS Sample ID: **LCS-71711-71711** Units: **mg/Kg** Analysis Date: **6/1/2015 10:00 AM**
Client ID: Run ID: **WETCHEM_150601B** SeqNo: **3299360** Prep Date: **5/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.13	1.0	5	0	82.6	80-120	0			

MS Sample ID: **15051672-01B MS** Units: **mg/Kg** Analysis Date: **6/1/2015 10:00 AM**
Client ID: Run ID: **WETCHEM_150601B** SeqNo: **3299356** Prep Date: **5/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	3.757	0.97	4.854	0.1263	74.8	75-125	0			S

MS Sample ID: **15051672-01B MSI** Units: **mg/Kg** Analysis Date: **6/1/2015 10:00 AM**
Client ID: Run ID: **WETCHEM_150601B** SeqNo: **3299358** Prep Date: **5/30/2015** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2096	93	2607	0.1263	80.4	75-125	0			

MSD Sample ID: **15051672-01B MSD** Units: **mg/Kg** Analysis Date: **6/1/2015 10:00 AM**
Client ID: Run ID: **WETCHEM_150601B** SeqNo: **3299357** Prep Date: **5/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4	1.0	5	0.1263	77.5	75-125	3.757	6.26	20	

The following samples were analyzed in this batch:

15051538-01B	15051538-02B

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

Client: Oxy USA WTP LP
Work Order: 15051538
Project: Soil - COGCC Table 910-1

QC BATCH REPORT

Batch ID: **R164421** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **MB-R164421-R164421** Units: **% of sample** Analysis Date: **5/29/2015 03:55 PM**
Client ID: Run ID: **MOIST_150529A** SeqNo: **3298009** 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-R164421-R164421** Units: **% of sample** Analysis Date: **5/29/2015 03:55 PM**
Client ID: Run ID: **MOIST_150529A** SeqNo: **3298010** 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: **15051004-01A DUP** Units: **% of sample** Analysis Date: **5/29/2015 03:55 PM**
Client ID: Run ID: **MOIST_150529A** SeqNo: **3299276** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.64	0.050	0	0	0		6.27	5.73	20	

DUP Sample ID: **15051538-02B DUP** Units: **% of sample** Analysis Date: **5/29/2015 03:55 PM**
Client ID: **W Wall 8'** Run ID: **MOIST_150529A** SeqNo: **3299299** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	20.41	0.050	0	0	0		20.41	0	20	

The following samples were analyzed in this batch:

15051538-01B	15051538-02B

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

☐ ALS Environmental
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

☑ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	COGCC Table 910-1
Work Order		Project Number		B	
Company Name	OXY USA WTP LP	Bill To Company	OXY USA WTP LP	C	
Send Report To	Blair Rollins	Invoice Attn.		D	
Address	760 Horizon Drive, suite 101	Address	760 Horizon Drive, suite 101	E	
				F	
City/State/Zip	Grand Junction Co. 81506	City/State/Zip	Grand Junction Co. 81506	G	
Phone	970-263-3637	Phone	970-263-3637	H	
Fax		Fax		I	
e-Mail Address	blair_rollins@oxy.com			J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	S Wall 8'	5/26/15	1000	Soil		3	X										
2	W Wall-8'	5/26/15	1015	Soil		3	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign
Blair K Rollins [signature]

Shipment Method:

Required Turnaround Time: (Check Box) ☐ 10 Wk Days ☐ 5 Wk Days ☒ 3 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by: [signature]	Date: 5/26/15	Time: 1330	Received by: [signature]	Date: 5-26-15	Time: 1400	Notes:
Relinquished by: Fed	Date:	Time:	Received by (Laboratory): [signature]	Date: 5/26	Time: 10.0	
Logged by (Laboratory): [signature]	Date: 5/26/15	Time: 13:40	Checked by (Laboratory):			

ALS Cooler ID	Cooler Temp

QC Package: (Check Box Below)
☑ Level II: Standard QC ☐ Level III: Raw Data
☐ TRRP LRC ☐ TRRP Level IV
☐ Level IV: SW846 Methods/CLP like
☐ Other: _____

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

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

From: (616) 298-1033
Nick Martinez
ALS Environmental
127 E. 1st Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J151215022303uv

Ship Date: 26MAY15
ActWgt: 56.0 LB
CAD: 2264840/INET3610

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

Ref # 052615-1
Invoice #
PO # Parachute
Dept #

SHIP TO: (616) 399-6878 BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

2 of 2

MPS# 7736 8571 4874
0263

Mstr# 7736 8571 3926 0201

WED - 27 MAY 10:30A
PRIORITY OVERNIGHT

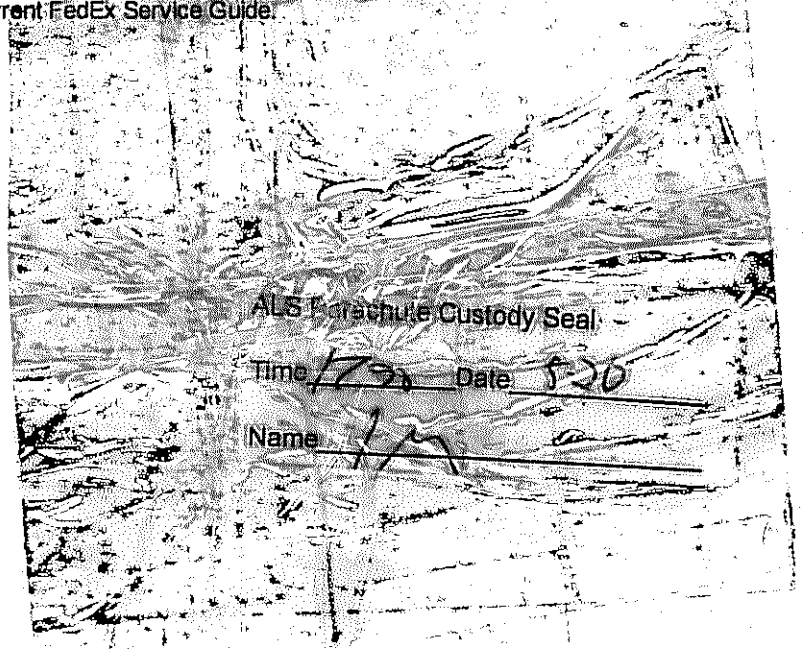
XX HLMA

49424
MI-US
GRR

537J3/C918/EE4B

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

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



ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **OXYUSA - CO** Date/Time Received: **28-May-15 10:00**

Work Order: **15051538** Received by: **NML**

Checklist completed by Naoma Leonard (eSignature) 28-May-15 (Date) Reviewed by: Lee Arnold (eSignature) 29-May-15 (Date)

Matrices: soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	3.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/28/2015 1:39:33 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: