



April 17, 2018

NMOCD District II
Crystal Weaver
811 S 1st Street
Artesia, NM 88210

State Land Office
Ryan Mann
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE INCIDENT AT THE Myox 6 State Com #12H, Eddy COUNTY, NEW MEXICO

Ms. Weaver:

On behalf of COG Operating, LLC, HRL Compliance Solutions, Inc (HRL) has prepared this work plan that describes the assessment, initial characterization, and proposed remediation for a release associated with the Myox 6 State Com #13H. The site is in Unit A, SECTION 6, TOWNSHIP 26S, RANGE 28E, NMPM, Eddy County, New Mexico, on State land. Figure 1 illustrates the location and surrounding area.

Table 1 below, summarizes information regarding the release.

Table 1: Release Information and Site Ranking

Name	Myox 6 State Com #12H
Company	COG Operating, LLC
RP Number	2RP-3696
API Number	30-015-37468
Location	32.0771141, -104.1191025
Estimated Date of Release	5/6/2016
Date Reported to NMOCD	5/16/2016
Land Owner	State
Reported to	OCD
Source of Release	Heater Treater
Released Material	Oil and Produced Water
Released Volume	5 bbls oil, 10 bbl produced water
Recovered Volume	0 bbls oil, 0 bbls produced water
Net Release Volume	5 bbl oil, 10 bbl water
Nearest Waterway	4.7 miles to Pecos River
Depth to Groundwater	<50 feet bgs
Nearest Domestic Water Source	< 1 mile
NMOCD Ranking	20
Response Date	3/28/2018



1.0 Background

The release at the Myox 6 State Com #12H occurred as a result of a fire tube failure in the heater treater resulting in a fire and discharging fluids onto the pad surface as outlined in Figure 2. The majority of the fluids containing hydrocarbon were volatilized in the fire. This released material was confined to the pad perimeter with the exception for a small impacted area off the pad to the south. The initial NMOCD C-141 report is attached (Appendix A). A work plan was submitted to the OCD on April 5, 2017 and was subsequently rejected by NMOCD due to the time delay in the delineation samples to the work plan. A follow-up site delineation was conducted on March 28, 2018 in preparation for this work plan.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 10.4 miles south-southwest of Malaga, with an elevation of approximately 3031 feet above sea level. A search of the New Mexico State Engineer's Office (NMOSE) online water well database for groundwater wells in the vicinity of the release identified eight (8) groundwater wells located within a three-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Table 2 presents the remediation standards and the site ranking for this location. Justification for this site ranking is found in Appendix B.

Table 2: Remediation Standards

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	20
50' to 99' = 10	
>100' = 0	
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	20



3.0 Release Characterization

Upon receiving clearance from the underground utility locate (811) on March 28, 2018, HRL field personnel assessed the impacted area. Samples were collected on 3/28/2018 to characterize the extent of impacts and calculate a volume of soil to be excavated for disposal. All samples were collected and analyzed at a Nationally Environmental Laboratory Accreditation Program (NELAP) laboratory and in accordance with NMOCD soil sampling procedures. The samples were submitted to Hall Environmental Laboratories for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015M. Sample locations are depicted in Figure 2.

4.0 Soil Remediation Workplan

HRL will begin overseeing the excavation of the impacted soils, after approval from area utilities owners via 811 and NMOCD. Approximately six (6) inches of topsoil will be removed around the SP6 sample locations as shown in Figure 2. Approximately one (1) foot will be removed around SP5 where the release entered a small drainage off the pad into a draw. The minimal amount of disturbance will occur in this area to prevent future erosion. Remediation around SP1 and SP2 will occur when the site is abandoned as both of these locations are inside a bermed area by the heater treater. It is anticipated that approximately 30 cubic yards of contaminated soil is to be excavated and disposed at an approved solid waste disposal facility. Clean native soils will be used to backfill the excavation and the impacted area will be recontoured to the surrounding area.

5.0 Revegetation Plan

The pad area will not be revegetated. The current SP5 area is caliche, rock and mesquite. As it is a small eroded area from the pad, there is no need to revegetate this area. However, we will replace large rocks to prevent future erosion.

6.0 Scope and Limitations

The scope of HRL's services consist of performing site characterization and remediation, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Jennifer Knowlton at 505-238-3588.

Submitted by:
HRL Compliance Solutions, Inc

Jennifer Knowlton
Regional Manager - Permian



Attachments:

Figure 1: Vicinity and Wellhead Protection Map

Figure 2: Site and Sample Location Map

Table 3: Summary of Sample Results

Appendix A: Form C141 Initial

Appendix B: NMOSE Well Report

Appendix C: Laboratory Analytical Reports



Figure 1:
Site Vicinity Map

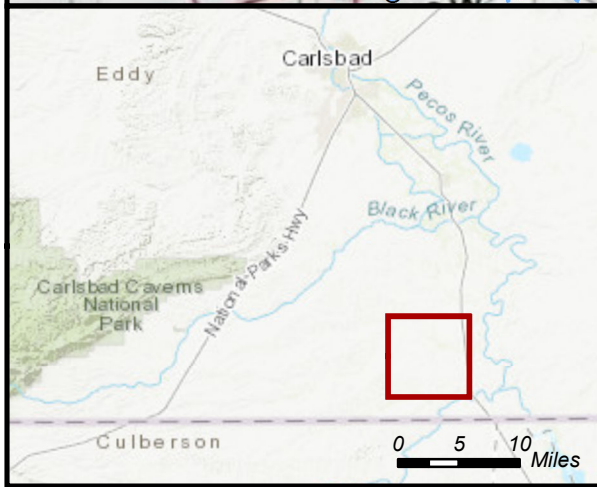
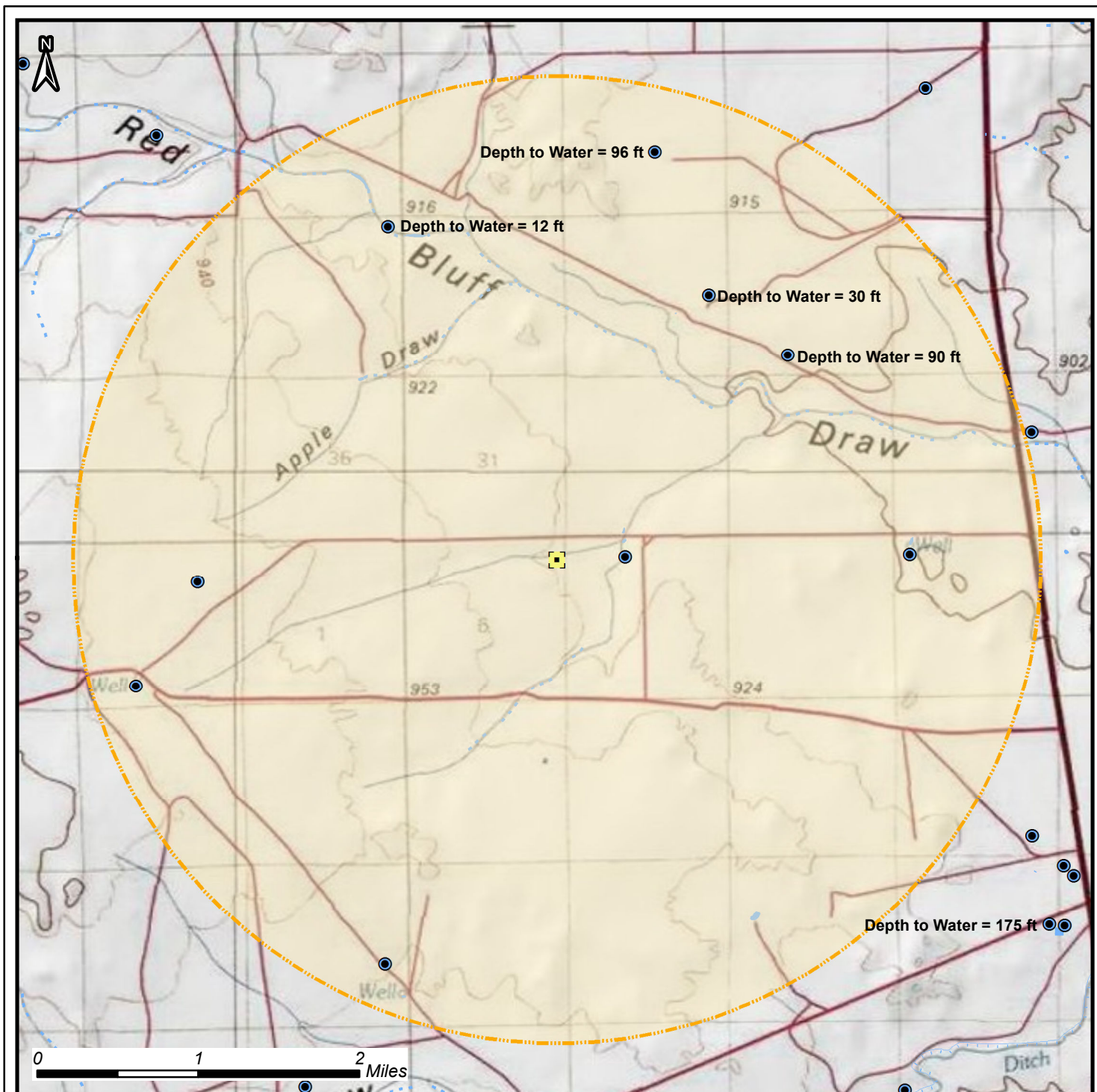





Figure 1: Location Map

Myox 6 State Com #12H




32.076820 -104.118825

Section 6, Township 26 South, Range 28 East

Features

-  Site Location
-  Water Well
-  3 Mile Buffer

Hydrography

-  Canal/Ditch
-  Ephemeral Stream
-  Waterbody

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HCSL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantee as to the quality or accuracy of the underlying data.



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SOLUTIONS

Author: E. Fought
Revision: 0
Date: 4/12/2018



Figure 2:
Site and Sample Location Map

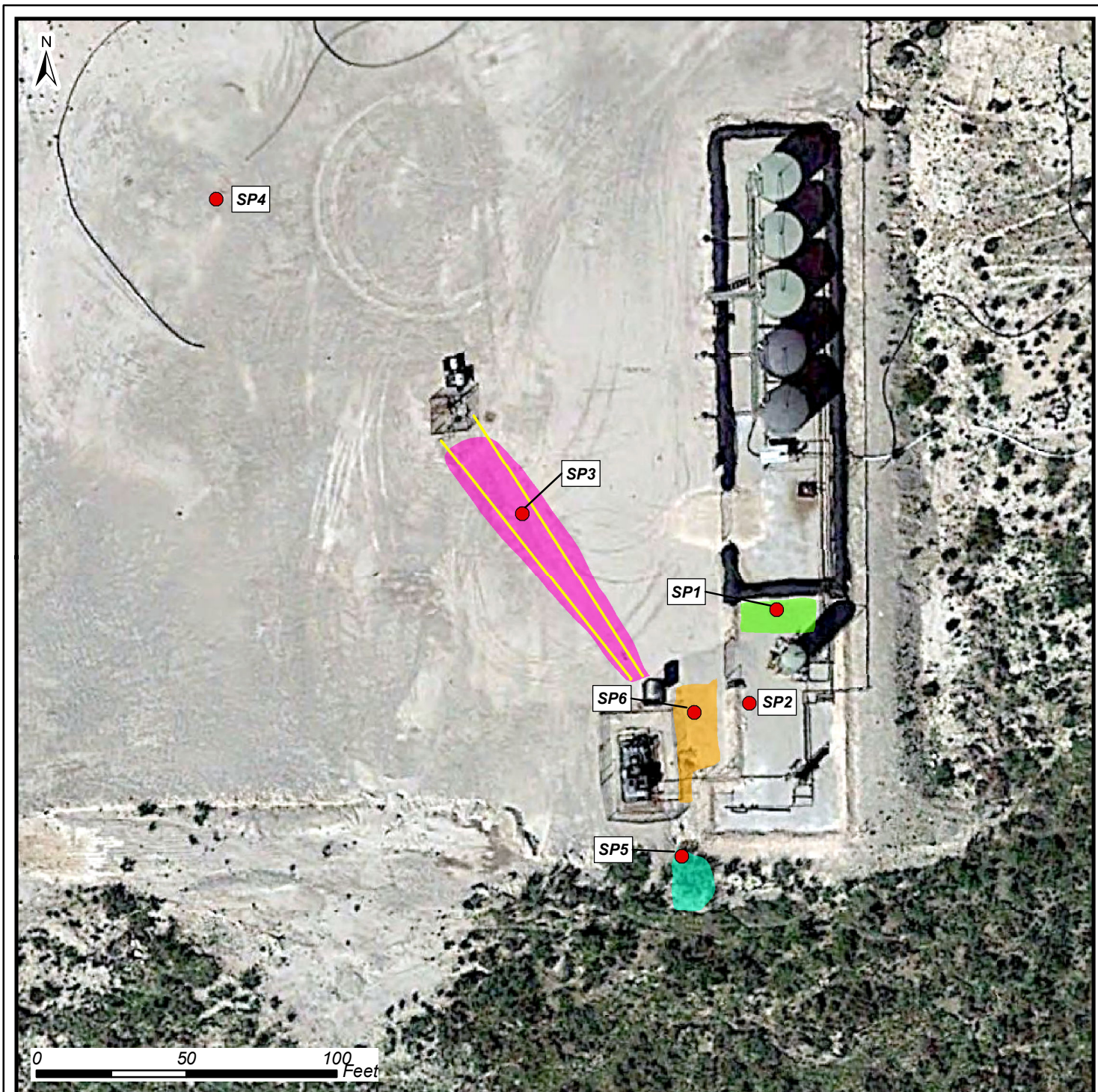


Figure 2: Sample Location Map

Myox 6 State Com #12H

32.076820 -104.118825

Section 6, Township 26 South, Range 28 East

Features

- Sample Location
- Buried Pipeline
- Possible SP3 Remediation Area
- Possible SP6 Remediation Area
- SP1 Remediation Area
- SP5 Remediation Area

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HCS1 assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantee as to the quality or accuracy of the underlying data.



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Author: E. Fought

Revision: 0

Date: 4/12/2018



Table 3: Analytical Results Summary

Concentrations of Benzene, BTEX, TPH & Chloride in Soil												
Concho Operating, LLC												
Myox 6 State Com #012												
Eddy County, New Mexico												
NMOCD REF: 2RP-3696												
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - Guidelines for Remediation of Leaks, Spills and Releases				10	NE	NE	NE	50	NE	NE	5,000	600
Vertical Delineation Sampling												
SP1	Surface	3/28/2018	In-Situ	ND	ND	ND	ND	ND	45	3300	9845	77
SP1	1'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	11	11	43
SP1	2'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	45	107	ND
SP1	4'	3/28/2018	In-Situ	ND	ND	0.051	0.17	0.221	16	380	666	120
SP1	6'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	140
SP2	Surface	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	4400	9400	340
SP2	1'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	2,600
SP2	2'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	890
SP2	4'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	19	19	310
SP2	6'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	10	10	1,300
SP2	8'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	10	10	800



Concentrations of Benzene, BTEX, TPH & Chloride in Soil												
Concho Operating, LLC												
Myox 6 State Com #012												
Eddy County, New Mexico												
NMOCD REF: 2RP-3696												
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - Guidelines for Remediation of Leaks, Spills and Releases				10	NE	NE	NE	50	NE	NE	5,000	600
SP3	Surface	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	680
SP3	1'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	320
SP3	2'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	300
SP4	Surface	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP4	1'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP4	2'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP5	Surface	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	410	30
SP5	1'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	5800	330
SP5	2'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	400	ND
SP6	Surface	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	12000	94
SP6	1'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	940
SP6	2'	3/28/2018	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND	730



Appendix A: Form C141 Initial

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	MYOX 6 STATE COM #012H	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	API No. 30-015-37468

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	06	26S	28E	660	North	330	East	Eddy

Latitude 32.0771141

Longitude 104.1191025

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 5bbls of Oil 10bbls of Produced Water	Volume Recovered: 0bbls of Oil 0bbls of Produced Water
Source of Release: Heater Treater	Date and Hour of Occurrence: 05-06-2016 09:30am	Date and Hour of Discovery: 05-06-2016 09:30am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Fire tube failure on the Heater Treater.		
Describe Area Affected and Cleanup Action Taken.* The majority of the release was contained in the bermed area a 3' X 10' area in the pasture. The majority of the fluid was burnt up in the fire. Concho has replaced the fire tube on the heater treater and will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Robert Grubbs Jr.</i>	OIL CONSERVATION DIVISION	
Printed Name: Robert Grubbs Jr.	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 05-16-2016 Phone: 432-683-7443		

* Attach Additional Sheets If Necessary



Appendix B: NMOSE Well Report



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01668	CUB	ED		3	3	12	26S	28E		589957	3546554*	250	100	150
C 02160	CUB	ED		4	1	2	14	26S	28E	589243	3546044*	300	120	180
C 02160 S	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	300	120	180
C 02160 S2	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	300	120	180
C 02160 S3	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S4	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S5	CUB	ED		1	1	1	14	26S	28E	588225	3546237*	300	120	180
C 02160 S6	CUB	ED		3	3	1	14	26S	28E	588232	3545635*	300	120	180
C 02160 S7	CUB	ED		3	3	1	22	26S	28E	586638	3543998*	300	120	180
C 02160 S8	CUB	ED		2	3	3	12	26S	28E	590056	3546653*	200	120	80
C 02160 S9	CUB	ED		3	3	2	02	26S	28E	589020	3548868*	300	120	180
C 02477	CUB	ED		1	1	03	26S	28E		586687	3549347*	150		
C 02478	CUB	ED		2	1	05	26S	28E		583848	3549325*	100		
C 02479	CUB	ED		4	4	10	26S	28E		587909	3546534*	200		
C 02480	CUB	ED		4	4	10	26S	28E		587909	3546534*	150		
C 02481	CUB	ED		1	1	14	26S	28E		588326	3546138*	200		
C 02894	C	ED		2	2	3	12	26S	28E	590458	3547061*	240		
C 02924	C	ED		1	3	2	11	26S	28E	589032	3547451*			
C 04022 POD1	CUB	ED		4	4	2	15	26S	28E	588082	3545647	220	175	45
C 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	250	145	105

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: 124 feet

Minimum Depth: 100 feet

Maximum Depth: 175 feet

Record Count: 20

PLSS Search:

Township: 26S **Range:** 28E



Appendix C: Laboratory Analytical Reports



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 2018

Jennifer Knowlton

Concho

600 W Illinois Ave

Midland, TX 79701

TEL: (505) 238-3588

FAX

RE: Myox 6 State Com 12H

OrderNo.: 1803F65

Dear Jennifer Knowlton:

Hall Environmental Analysis Laboratory received 23 sample(s) on 3/29/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP4-2' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 11:20:00 AM

Lab ID: 1803F65-001

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/2/2018 3:42:06 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/2/2018 3:42:06 PM
Surr: DNOP	103	70-130		%Rec	1	4/2/2018 3:42:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2018 12:17:11 PM
Surr: BFB	90.2	15-316		%Rec	1	3/30/2018 12:17:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 12:17:11 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 12:17:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 12:17:11 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2018 12:17:11 PM
Surr: 4-Bromofluorobenzene	83.7	80-120		%Rec	1	3/30/2018 12:17:11 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	30		mg/Kg	20	4/3/2018 10:35:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP4-1' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 11:20:00 AM

Lab ID: 1803F65-002

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/2/2018 4:56:15 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/2/2018 4:56:15 PM
Surr: DNOP	85.1	70-130		%Rec	1	4/2/2018 4:56:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2018 12:40:42 PM
Surr: BFB	91.5	15-316		%Rec	1	3/30/2018 12:40:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 12:40:42 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 12:40:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2018 12:40:42 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/30/2018 12:40:42 PM
Surr: 4-Bromofluorobenzene	84.7	80-120		%Rec	1	3/30/2018 12:40:42 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	30		mg/Kg	20	4/3/2018 10:47:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP4-Surface

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 11:20:00 AM

Lab ID: 1803F65-003

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/2/2018 5:21:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/2/2018 5:21:06 PM
Surr: DNOP	81.5	70-130		%Rec	1	4/2/2018 5:21:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2018 1:04:12 PM
Surr: BFB	93.7	15-316		%Rec	1	3/30/2018 1:04:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/30/2018 1:04:12 PM
Toluene	ND	0.046		mg/Kg	1	3/30/2018 1:04:12 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2018 1:04:12 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2018 1:04:12 PM
Surr: 4-Bromofluorobenzene	86.4	80-120		%Rec	1	3/30/2018 1:04:12 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	30		mg/Kg	20	4/3/2018 11:24:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP3-2' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 11:05:00 AM

Lab ID: 1803F65-004

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/2/2018 5:45:50 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/2/2018 5:45:50 PM
Surr: DNOP	75.2	70-130		%Rec	1	4/2/2018 5:45:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2018 1:27:40 PM
Surr: BFB	90.3	15-316		%Rec	1	3/30/2018 1:27:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 1:27:40 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 1:27:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 1:27:40 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2018 1:27:40 PM
Surr: 4-Bromofluorobenzene	84.7	80-120		%Rec	1	3/30/2018 1:27:40 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	300	30		mg/Kg	20	4/3/2018 11:37:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP3-1' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 11:05:00 AM

Lab ID: 1803F65-005

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/2/2018 6:11:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/2/2018 6:11:01 PM
Surr: DNOP	81.1	70-130		%Rec	1	4/2/2018 6:11:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2018 1:51:13 PM
Surr: BFB	91.6	15-316		%Rec	1	3/30/2018 1:51:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 1:51:13 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 1:51:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 1:51:13 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2018 1:51:13 PM
Surr: 4-Bromofluorobenzene	86.6	80-120		%Rec	1	3/30/2018 1:51:13 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	320	30		mg/Kg	20	4/3/2018 11:49:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP3-Surface

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 11:05:00 AM

Lab ID: 1803F65-006

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/2/2018 6:35:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/2/2018 6:35:52 PM
Surr: DNOP	86.3	70-130		%Rec	1	4/2/2018 6:35:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2018 2:14:26 PM
Surr: BFB	89.4	15-316		%Rec	1	3/30/2018 2:14:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/30/2018 2:14:26 PM
Toluene	ND	0.046		mg/Kg	1	3/30/2018 2:14:26 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2018 2:14:26 PM
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2018 2:14:26 PM
Surr: 4-Bromofluorobenzene	85.0	80-120		%Rec	1	3/30/2018 2:14:26 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	680	30		mg/Kg	20	4/4/2018 12:27:01 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP6-2' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:04:00 AM

Lab ID: 1803F65-007

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/2/2018 7:00:51 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/2/2018 7:00:51 PM
Surr: DNOP	77.7	70-130		%Rec	1	4/2/2018 7:00:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2018 2:37:45 PM
Surr: BFB	89.0	15-316		%Rec	1	3/30/2018 2:37:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2018 2:37:45 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 2:37:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2018 2:37:45 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/30/2018 2:37:45 PM
Surr: 4-Bromofluorobenzene	85.1	80-120		%Rec	1	3/30/2018 2:37:45 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	730	30		mg/Kg	20	4/4/2018 12:39:26 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP6-1' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:04:00 AM

Lab ID: 1803F65-008

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	22	9.9		mg/Kg	1	4/2/2018 7:25:42 PM
Motor Oil Range Organics (MRO)	670	50		mg/Kg	1	4/2/2018 7:25:42 PM
Surr: DNOP	83.0	70-130		%Rec	1	4/2/2018 7:25:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2018 3:01:17 PM
Surr: BFB	84.9	15-316		%Rec	1	3/30/2018 3:01:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2018 3:01:17 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 3:01:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2018 3:01:17 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/30/2018 3:01:17 PM
Surr: 4-Bromofluorobenzene	80.2	80-120		%Rec	1	3/30/2018 3:01:17 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	940	30		mg/Kg	20	4/4/2018 12:51:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP6--Surface

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:04:00 AM

Lab ID: 1803F65-009

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	940	D	mg/Kg	100	4/4/2018 2:39:17 PM
Motor Oil Range Organics (MRO)	12000	4700		mg/Kg	100	4/4/2018 2:39:17 PM
Surr: DNOP	0	70-130	S	%Rec	100	4/4/2018 2:39:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2018 3:24:27 PM
Surr: BFB	86.9	15-316		%Rec	1	3/30/2018 3:24:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 3:24:27 PM
Toluene	ND	0.047		mg/Kg	1	3/30/2018 3:24:27 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2018 3:24:27 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2018 3:24:27 PM
Surr: 4-Bromofluorobenzene	80.4	80-120		%Rec	1	3/30/2018 3:24:27 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	94	30		mg/Kg	20	4/4/2018 11:44:18 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP5-2' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 9:50:00 AM

Lab ID: 1803F65-010

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/2/2018 8:15:33 PM
Motor Oil Range Organics (MRO)	410	49		mg/Kg	1	4/2/2018 8:15:33 PM
Surr: DNOP	90.7	70-130		%Rec	1	4/2/2018 8:15:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2018 7:17:10 PM
Surr: BFB	85.6	15-316		%Rec	1	3/30/2018 7:17:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 7:17:10 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 7:17:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 7:17:10 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2018 7:17:10 PM
Surr: 4-Bromofluorobenzene	82.2	80-120		%Rec	1	3/30/2018 7:17:10 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/4/2018 12:21:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP5-1' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 9:50:00 AM

Lab ID: 1803F65-011

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	100	D	mg/Kg	10	4/4/2018 4:19:24 AM
Motor Oil Range Organics (MRO)	5800	500		mg/Kg	10	4/4/2018 4:19:24 AM
Surr: DNOP	0	70-130	S	%Rec	10	4/4/2018 4:19:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2018 7:40:17 PM
Surr: BFB	91.4	15-316		%Rec	1	3/30/2018 7:40:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 7:40:17 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 7:40:17 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 7:40:17 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2018 7:40:17 PM
Surr: 4-Bromofluorobenzene	84.7	80-120		%Rec	1	3/30/2018 7:40:17 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	330	30		mg/Kg	20	4/4/2018 12:33:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP5--Surface

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 9:50:00 AM

Lab ID: 1803F65-012

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	14	10		mg/Kg	1	4/2/2018 9:05:03 PM
Motor Oil Range Organics (MRO)	400	50		mg/Kg	1	4/2/2018 9:05:03 PM
Surr: DNOP	103	70-130		%Rec	1	4/2/2018 9:05:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2018 8:03:31 PM
Surr: BFB	90.6	15-316		%Rec	1	3/30/2018 8:03:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 8:03:31 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 8:03:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2018 8:03:31 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/30/2018 8:03:31 PM
Surr: 4-Bromofluorobenzene	84.3	80-120		%Rec	1	3/30/2018 8:03:31 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/4/2018 12:46:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP1-6' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:22:00 AM

Lab ID: 1803F65-013

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/2/2018 9:29:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/2/2018 9:29:55 PM
Surr: DNOP	90.9	70-130		%Rec	1	4/2/2018 9:29:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2018 8:26:37 PM
Surr: BFB	87.7	15-316		%Rec	1	3/30/2018 8:26:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 8:26:37 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 8:26:37 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2018 8:26:37 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/30/2018 8:26:37 PM
Surr: 4-Bromofluorobenzene	82.8	80-120		%Rec	1	3/30/2018 8:26:37 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	140	30		mg/Kg	20	4/4/2018 12:58:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP1-4' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:22:00 AM

Lab ID: 1803F65-014

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	380	10		mg/Kg	1	4/2/2018 9:54:34 PM
Motor Oil Range Organics (MRO)	270	50		mg/Kg	1	4/2/2018 9:54:34 PM
Surr: DNOP	95.5	70-130		%Rec	1	4/2/2018 9:54:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	16	4.9		mg/Kg	1	3/30/2018 8:49:55 PM
Surr: BFB	217	15-316		%Rec	1	3/30/2018 8:49:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2018 8:49:55 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 8:49:55 PM
Ethylbenzene	0.051	0.049		mg/Kg	1	3/30/2018 8:49:55 PM
Xylenes, Total	0.17	0.099		mg/Kg	1	3/30/2018 8:49:55 PM
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	3/30/2018 8:49:55 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	30		mg/Kg	20	4/4/2018 1:35:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP1-2' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:22:00 AM

Lab ID: 1803F65-015

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	45	9.3		mg/Kg	1	4/4/2018 3:13:56 AM
Motor Oil Range Organics (MRO)	62	47		mg/Kg	1	4/4/2018 3:13:56 AM
Surr: DNOP	100	70-130		%Rec	1	4/4/2018 3:13:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2018 9:13:14 PM
Surr: BFB	96.3	15-316		%Rec	1	3/30/2018 9:13:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 9:13:14 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 9:13:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 9:13:14 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2018 9:13:14 PM
Surr: 4-Bromofluorobenzene	86.5	80-120		%Rec	1	3/30/2018 9:13:14 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/4/2018 1:48:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP1-1' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:22:00 AM

Lab ID: 1803F65-016

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	11	10		mg/Kg	1	4/2/2018 10:44:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/2/2018 10:44:10 PM
Surr: DNOP	93.6	70-130		%Rec	1	4/2/2018 10:44:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2018 9:36:34 PM
Surr: BFB	92.4	15-316		%Rec	1	3/30/2018 9:36:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2018 9:36:34 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2018 9:36:34 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2018 9:36:34 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2018 9:36:34 PM
Surr: 4-Bromofluorobenzene	86.5	80-120		%Rec	1	3/30/2018 9:36:34 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	43	30		mg/Kg	20	4/4/2018 2:25:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP1-Surface

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:22:00 AM

Lab ID: 1803F65-017

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	3300	980		mg/Kg	100	4/2/2018 11:08:56 PM
Motor Oil Range Organics (MRO)	6500	4900		mg/Kg	100	4/2/2018 11:08:56 PM
Surr: DNOP	0	70-130	S	%Rec	100	4/2/2018 11:08:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	45	4.8		mg/Kg	1	3/30/2018 9:59:49 PM
Surr: BFB	474	15-316	S	%Rec	1	3/30/2018 9:59:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/30/2018 9:59:49 PM
Toluene	ND	0.048		mg/Kg	1	3/30/2018 9:59:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2018 9:59:49 PM
Xylenes, Total	0.15	0.096		mg/Kg	1	3/30/2018 9:59:49 PM
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	3/30/2018 9:59:49 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	77	30		mg/Kg	20	4/4/2018 2:38:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP2-8' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:45:00 AM

Lab ID: 1803F65-018

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	4/2/2018 11:33:38 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/2/2018 11:33:38 PM
Surr: DNOP	88.6	70-130		%Rec	1	4/2/2018 11:33:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2018 10:23:02 PM
Surr: BFB	92.2	15-316		%Rec	1	3/30/2018 10:23:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2018 10:23:02 PM
Toluene	ND	0.050		mg/Kg	1	3/30/2018 10:23:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2018 10:23:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2018 10:23:02 PM
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	1	3/30/2018 10:23:02 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	800	30		mg/Kg	20	4/4/2018 2:50:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP2-6' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:45:00 AM

Lab ID: 1803F65-019

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/2/2018 11:58:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/2/2018 11:58:17 PM
Surr: DNOP	88.0	70-130		%Rec	1	4/2/2018 11:58:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2018 10:46:26 PM
Surr: BFB	90.6	15-316		%Rec	1	3/30/2018 10:46:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2018 10:46:26 PM
Toluene	ND	0.050		mg/Kg	1	3/30/2018 10:46:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2018 10:46:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2018 10:46:26 PM
Surr: 4-Bromofluorobenzene	84.4	80-120		%Rec	1	3/30/2018 10:46:26 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1300	75		mg/Kg	50	4/5/2018 4:25:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP2-4' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:45:00 AM

Lab ID: 1803F65-020

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	19	9.7		mg/Kg	1	4/3/2018 12:22:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/3/2018 12:22:47 AM
Surr: DNOP	85.0	70-130		%Rec	1	4/3/2018 12:22:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2018 12:19:57 AM
Surr: BFB	90.1	15-316		%Rec	1	3/31/2018 12:19:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2018 12:19:57 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2018 12:19:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2018 12:19:57 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2018 12:19:57 AM
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	3/31/2018 12:19:57 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	310	30		mg/Kg	20	4/4/2018 3:15:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP2-2' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:45:00 AM

Lab ID: 1803F65-021

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/3/2018 12:47:24 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/3/2018 12:47:24 AM
Surr: DNOP	86.3	70-130		%Rec	1	4/3/2018 12:47:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2018 12:43:21 AM
Surr: BFB	88.4	15-316		%Rec	1	3/31/2018 12:43:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2018 12:43:21 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2018 12:43:21 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2018 12:43:21 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/31/2018 12:43:21 AM
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	3/31/2018 12:43:21 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	890	30		mg/Kg	20	4/4/2018 3:27:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP2-1' bgs

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:45:00 AM

Lab ID: 1803F65-022

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/3/2018 1:11:56 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/3/2018 1:11:56 AM
Surr: DNOP	97.6	70-130		%Rec	1	4/3/2018 1:11:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2018 1:06:47 AM
Surr: BFB	88.8	15-316		%Rec	1	3/31/2018 1:06:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2018 1:06:47 AM
Toluene	ND	0.048		mg/Kg	1	3/31/2018 1:06:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2018 1:06:47 AM
Xylenes, Total	ND	0.096		mg/Kg	1	3/31/2018 1:06:47 AM
Surr: 4-Bromofluorobenzene	83.9	80-120		%Rec	1	3/31/2018 1:06:47 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	2600	75		mg/Kg	50	4/5/2018 4:37:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1803F65**

Date Reported: **4/6/2018**

CLIENT: Concho

Client Sample ID: SP2-Surface

Project: Myox 6 State Com 12H

Collection Date: 3/28/2018 10:45:00 AM

Lab ID: 1803F65-023

Matrix: SOIL

Received Date: 3/29/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	4400	970		mg/Kg	100	4/3/2018 1:36:34 AM
Motor Oil Range Organics (MRO)	5000	4800		mg/Kg	100	4/3/2018 1:36:34 AM
Surr: DNOP	0	70-130	S	%Rec	100	4/3/2018 1:36:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/31/2018 1:30:08 AM
Surr: BFB	86.8	15-316		%Rec	1	3/31/2018 1:30:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/31/2018 1:30:08 AM
Toluene	ND	0.046		mg/Kg	1	3/31/2018 1:30:08 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/31/2018 1:30:08 AM
Xylenes, Total	ND	0.093		mg/Kg	1	3/31/2018 1:30:08 AM
Surr: 4-Bromofluorobenzene	82.0	80-120		%Rec	1	3/31/2018 1:30:08 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	340	30		mg/Kg	20	4/4/2018 4:17:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho
Project: Myox 6 State Com 12H

Sample ID	MB-37408		SampType:	mblk		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	37408		RunNo:	50279				
Prep Date:	4/3/2018		Analysis Date:	4/3/2018		SeqNo:	1629289		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-37408		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 37408		RunNo: 50279					
Prep Date:	4/3/2018		Analysis Date: 4/3/2018		SeqNo: 1629290		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID	MB-37423		SampType:	mblk		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	37423		RunNo:	50311				
Prep Date:	4/4/2018		Analysis Date:	4/4/2018		SeqNo:	1630654		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-37423		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 37423		RunNo: 50311					
Prep Date:	4/4/2018		Analysis Date: 4/4/2018		SeqNo: 1630655		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho
Project: Myox 6 State Com 12H

Sample ID	LCS-37326		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 37326		RunNo: 50229					
Prep Date:	3/29/2018		Analysis Date: 4/2/2018		SeqNo: 1627194		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	70	130			
Surr: DNOP	4.3		5.000		86.8	70	130			

Sample ID	MB-37326		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 37326		RunNo: 50229					
Prep Date:	3/29/2018		Analysis Date: 4/2/2018		SeqNo: 1627195		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.9	70	130			

Sample ID	1803F65-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SP4-2' bgs		Batch ID: 37334		RunNo: 50265					
Prep Date:	3/29/2018		Analysis Date: 4/2/2018		SeqNo: 1627981		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.7	48.54	0	99.0	55.8	125			
Surr: DNOP	4.7		4.854		96.2	70	130			

Sample ID	1803F65-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	SP4-2' bgs		Batch ID:	37334		RunNo:	50265				
Prep Date:	3/29/2018		Analysis Date:	4/2/2018		SeqNo:	1627983		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	9.9	49.26	0	97.6	55.8	125	0.0714	20		
Surr: DNOP	4.6		4.926		94.1	70	130	0	0		

Sample ID	LCS-37334		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 37334		RunNo: 50265					
Prep Date:	3/29/2018		Analysis Date: 4/2/2018		SeqNo: 1628008		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	70	130			
Surr: DNOP	4.8		5.000		96.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho
Project: Myox 6 State Com 12H

Sample ID	MB-37334		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	37334		RunNo:	50265			
Prep Date:	3/29/2018		Analysis Date:	4/2/2018		SeqNo:	1628009	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.8	70	130			

Sample ID	LCS-37380		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	37380		RunNo:	50268			
Prep Date:	4/2/2018		Analysis Date:	4/3/2018		SeqNo:	1628463	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.7	70	130			

Sample ID	MB-37380		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	37380		RunNo:	50268			
Prep Date:	4/2/2018		Analysis Date:	4/3/2018		SeqNo:	1628464	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.6	70	130			

Sample ID	LCS-37415		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	37415		RunNo:	50301			
Prep Date:	4/4/2018		Analysis Date:	4/4/2018		SeqNo:	1629965	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.0	70	130			

Sample ID	MB-37415		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	37415		RunNo:	50301			
Prep Date:	4/4/2018		Analysis Date:	4/4/2018		SeqNo:	1629966	Units:	%Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho
Project: Myox 6 State Com 12H

Sample ID	MB-37325		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 37325		RunNo: 50223					
Prep Date:	3/29/2018		Analysis Date: 3/30/2018		SeqNo: 1626696		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.2	15	316			

Sample ID	LCS-37325		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 37325		RunNo: 50223					
Prep Date:	3/29/2018		Analysis Date: 3/30/2018		SeqNo: 1626697		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	75.9	131			
Surr: BFB	960		1000		95.8	15	316			

Sample ID	MB-37333		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 37333		RunNo: 50223					
Prep Date:	3/29/2018		Analysis Date: 3/30/2018		SeqNo: 1626720		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.0	15	316			

Sample ID	LCS-37333		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 37333		RunNo: 50223					
Prep Date:	3/29/2018		Analysis Date: 3/30/2018		SeqNo: 1626721		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	75.9	131			
Surr: BFB	990		1000		99.3	15	316			

Sample ID	1803F65-019AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	SP2-6' bgs		Batch ID: 37333		RunNo: 50223					
Prep Date:	3/29/2018		Analysis Date: 3/30/2018		SeqNo: 1626724		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.9	24.53	0	144	77.8	128			S
Surr: BFB	1000		981.4		105	15	316			

Sample ID	1803F65-019AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	SP2-6' bgs		Batch ID:	37333		RunNo:	50223				
Prep Date:	3/29/2018		Analysis Date:	3/30/2018		SeqNo:	1626725		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho

Project: Myox 6 State Com 12H

Sample ID	1803F65-019AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SP2-6' bgs	Batch ID:	37333	RunNo:	50223					
Prep Date:	3/29/2018	Analysis Date:	3/30/2018	SeqNo:	1626725	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.9	24.58	0	143	77.8	128	0.501	20	S
Surr: BFB	1100		983.3		111	15	316	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho

Project: Myox 6 State Com 12H

Sample ID	MB-37325		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	37325		RunNo:	50223			
Prep Date:	3/29/2018		Analysis Date:	3/30/2018		SeqNo:	1626737		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.1	80	120			

Sample ID	LCS-37325		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	37325		RunNo:	50223			
Prep Date:	3/29/2018		Analysis Date:	3/30/2018		SeqNo:	1626738		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	77.3	128			
Toluene	0.97	0.050	1.000	0	96.9	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.85		1.000		84.9	80	120			

Sample ID	MB-37333		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	37333		RunNo:	50223			
Prep Date:	3/29/2018		Analysis Date:	3/30/2018		SeqNo:	1626759		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	80	120			

Sample ID	LCS-37333		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	37333		RunNo:	50223			
Prep Date:	3/29/2018		Analysis Date:	3/30/2018		SeqNo:	1626760		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	77.3	128			
Toluene	0.94	0.050	1.000	0	93.7	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.0	81.6	129			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803F65

06-Apr-18

Client: Concho
Project: Myox 6 State Com 12H

Sample ID	1803F65-018AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	SP2-8' bgs	Batch ID: 37333			RunNo: 50259					
Prep Date:	3/29/2018	Analysis Date: 4/2/2018			SeqNo: 1627795		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9699	0	88.6	68.5	133			
Toluene	0.89	0.048	0.9699	0	91.8	75	130			
Ethylbenzene	0.89	0.048	0.9699	0	91.4	79.4	128			
Xylenes, Total	2.7	0.097	2.910	0	92.9	77.3	131			
Surr: 4-Bromofluorobenzene	0.85		0.9699		87.9	80	120			

Sample ID	1803F65-018AMSD	SampType:	MSD	TestCode: EPA Method 8021B: Volatiles						
Client ID:	SP2-8' bgs	Batch ID:	37333	RunNo: 50259						
Prep Date:	3/29/2018	Analysis Date:	4/2/2018	SeqNo: 1627796		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.024	0.9461	0	80.0	68.5	133	12.7	20	
Toluene	0.79	0.047	0.9461	0	83.7	75	130	11.7	20	
Ethylbenzene	0.81	0.047	0.9461	0	85.7	79.4	128	8.85	20	
Xylenes, Total	2.5	0.095	2.838	0	86.6	77.3	131	9.44	20	
Surr: 4-Bromofluorobenzene	0.81		0.9461		85.8	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: CONCHO MIDLAND

Work Order Number: 1803F65

RcptNo: 1

Received By: Erin Melendrez 3/29/2018 9:40:00 AM

Completed By: Ashley Gallegos 3/29/2018 1:50:51 PM

Reviewed By:

DDS

3/29/18

labeled by:

ENM

Chain of Custody

- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

3/29/18

(2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

- Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

