

## Rose-Coss, Dylan H, EMNRD

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**From:** Raymond Taylor <raymond@loboservicesconsulting.com>  
**Sent:** Friday, February 21, 2020 1:12 PM  
**To:** Rose-Coss, Dylan H, EMNRD  
**Cc:** JR Juarez Jr; kyle.waggoner@whiting.com; Tim Blair; Josue Rodriguez  
**Subject:** [EXT] Update - Whiting Oil and Gas - Carlson Fed A 2 TB - Lea Co, NM - Stockpile Analysis  
**Attachments:** Whiting Oil and Gas - Carlson Fed A 2 TB Stockpiles- Lab Data.pdf; FourthStockpileSampling.pdf

Afternoon Dylan,

We've been working on the stockpiles at the Carlson TB. The 7 stockpiles have been watered and worked with a backhoe on the pad twice and then resealed on 2/3/20. The lab analysis report and lab data table are attached for your review. We'll be working the stockpiles again next week and resampling following that.

Thank You Sir & Let us know if you have any questions

**Raymond Taylor, CSP**

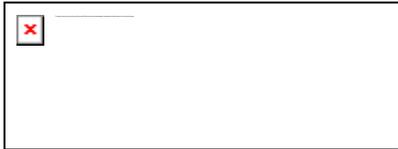
**President**

M: 432-425-3098 | O: 1-800-610-6214

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214 W Texas Ave, Suite 1215, Midland, Texas 79701



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# Certificate of Analysis Summary 651156

Lobo Services, Midland, TX

Project Name: Whiting Oil +Gas Carlson Fed A 2 TB



**Project Id:**  
**Contact:** Raymond Taylor  
**Project Location:**

**Date Received in Lab:** Mon Feb-03-20 04:47 pm  
**Report Date:** 06-FEB-20  
**Project Manager:** Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	651156-001		651156-002		651156-003		651156-004		651156-005		651156-006	
	<i>Field Id:</i>	Stockpile #1		Stockpile #2		Stockpile #3		Stockpile #4		Stockpile #5		Stockpile #6	
	<i>Depth:</i>												
	<i>Matrix:</i>	SOIL		SOIL									
<i>Sampled:</i>	Feb-03-20 00:00		Feb-03-20 00:00		Feb-03-20 00:00		Feb-03-20 00:00		Feb-03-20 00:00		Feb-03-20 00:00		
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Feb-04-20 13:00		Feb-04-20 13:00									
	<i>Analyzed:</i>	Feb-04-20 13:23		Feb-04-20 13:42		Feb-04-20 14:01		Feb-04-20 14:20		Feb-04-20 14:39		Feb-04-20 14:58	
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)	<49.9	49.9	<50.0	50.0	<50.0	50.0	55.8	49.9	<50.0	50.0	<50.0	50.0	
Diesel Range Organics (DRO)	2110	49.9	1980	50.0	1390	50.0	3590	49.9	2280	50.0	1870	50.0	
Motor Oil Range Hydrocarbons (MRO)	457	49.9	410	50.0	288	50.0	586	49.9	447	50.0	389	50.0	
Total TPH	2570	49.9	2390	50.0	1680	50.0	4230	49.9	2730	50.0	2260	50.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 651156

Lobo Services, Midland, TX

Project Name: Whiting Oil +Gas Carlson Fed A 2 TB



**Project Id:**  
**Contact:** Raymond Taylor  
**Project Location:**

**Date Received in Lab:** Mon Feb-03-20 04:47 pm  
**Report Date:** 06-FEB-20  
**Project Manager:** Holly Taylor

<b>Analysis Requested</b>	<b>Lab Id:</b>	651156-007				
	<b>Field Id:</b>	Stockpile #7				
	<b>Depth:</b>					
	<b>Matrix:</b>	SOIL				
	<b>Sampled:</b>	Feb-03-20 00:00				
<b>TPH By SW8015 Mod</b>	<b>Extracted:</b>	Feb-04-20 13:00				
	<b>Analyzed:</b>	Feb-04-20 15:17				
	<b>Units/RL:</b>	mg/kg      RL				
Gasoline Range Hydrocarbons (GRO)		<49.8      49.8				
Diesel Range Organics (DRO)		1390      49.8				
Motor Oil Range Hydrocarbons (MRO)		257      49.8				
Total TPH		1650      49.8				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Holly Taylor  
Project Manager

# Analytical Report 651156

for  
**Lobo Services**

**Project Manager: Raymond Taylor**  
**Whiting Oil + Gas Carlson Fed A 2 TB**

**06-FEB-20**

Collected By: Client



**1211 W. Florida Ave**  
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06-FEB-20

Project Manager: **Raymond Taylor**

**Lobo Services**

214 W. Texas Ave.

Suite 1215

Midland, TX 79701

Reference: XENCO Report No(s): **651156**

**Whiting Oil +Gas Carlson Fed A 2 TB**

Project Address:

**Raymond Taylor:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651156. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 651156 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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**Holly Taylor**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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# Sample Cross Reference 651156



## Lobo Services, Midland, TX

Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile #1	S	02-03-20 00:00		651156-001
Stockpile #2	S	02-03-20 00:00		651156-002
Stockpile #3	S	02-03-20 00:00		651156-003
Stockpile #4	S	02-03-20 00:00		651156-004
Stockpile #5	S	02-03-20 00:00		651156-005
Stockpile #6	S	02-03-20 00:00		651156-006
Stockpile #7	S	02-03-20 00:00		651156-007



## CASE NARRATIVE

*Client Name: Lobo Services*

*Project Name: Whiting Oil +Gas Carlson Fed A 2 TB*

Project ID:  
Work Order Number(s): 651156

Report Date: 06-FEB-20  
Date Received: 02/03/2020

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #1</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-001	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.20 13.23	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>2110</b>	49.9	mg/kg	02.04.20 13.23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<b>457</b>	49.9	mg/kg	02.04.20 13.23		1
<b>Total TPH</b>	PHC635	<b>2570</b>	49.9	mg/kg	02.04.20 13.23		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	76	%	70-135	02.04.20 13.23		
o-Terphenyl	84-15-1	93	%	70-135	02.04.20 13.23		

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #2</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-002	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 13.42	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>1980</b>	50.0	mg/kg	02.04.20 13.42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<b>410</b>	50.0	mg/kg	02.04.20 13.42		1
<b>Total TPH</b>	PHC635	<b>2390</b>	50.0	mg/kg	02.04.20 13.42		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	77	%	70-135	02.04.20 13.42		
o-Terphenyl	84-15-1	91	%	70-135	02.04.20 13.42		

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #3</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-003	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 14.01	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>1390</b>	50.0	mg/kg	02.04.20 14.01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<b>288</b>	50.0	mg/kg	02.04.20 14.01		1
<b>Total TPH</b>	PHC635	<b>1680</b>	50.0	mg/kg	02.04.20 14.01		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	81	%	70-135	02.04.20 14.01		
o-Terphenyl	84-15-1	93	%	70-135	02.04.20 14.01		

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #4</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-004	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
<b>Gasoline Range Hydrocarbons (GRO)</b>	PHC610	<b>55.8</b>	49.9	mg/kg	02.04.20 14.20		1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>3590</b>	49.9	mg/kg	02.04.20 14.20		1
<b>Motor Oil Range Hydrocarbons (MRO)</b>	PHCG2835	<b>586</b>	49.9	mg/kg	02.04.20 14.20		1
<b>Total TPH</b>	PHC635	<b>4230</b>	49.9	mg/kg	02.04.20 14.20		1
<b>Surrogate</b>	<b>Cas Number</b>		<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>
1-Chlorooctane	111-85-3		87	%	70-135	02.04.20 14.20	
o-Terphenyl	84-15-1		109	%	70-135	02.04.20 14.20	

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #5</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-005	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 14.39	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>2280</b>	50.0	mg/kg	02.04.20 14.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<b>447</b>	50.0	mg/kg	02.04.20 14.39		1
<b>Total TPH</b>	PHC635	<b>2730</b>	50.0	mg/kg	02.04.20 14.39		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	73	%	70-135	02.04.20 14.39		
o-Terphenyl	84-15-1	91	%	70-135	02.04.20 14.39		

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #6</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-006	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 14.58	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>1870</b>	50.0	mg/kg	02.04.20 14.58		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<b>389</b>	50.0	mg/kg	02.04.20 14.58		1
<b>Total TPH</b>	PHC635	<b>2260</b>	50.0	mg/kg	02.04.20 14.58		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	77	%	70-135	02.04.20 14.58		
o-Terphenyl	84-15-1	90	%	70-135	02.04.20 14.58		

## Lobo Services, Midland, TX Whiting Oil +Gas Carlson Fed A 2 TB

Sample Id: <b>Stockpile #7</b>	Matrix: Soil	Date Received: 02.03.20 16.47
Lab Sample Id: 651156-007	Date Collected: 02.03.20 00.00	
Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 02.04.20 13.00	Basis: Wet Weight
Seq Number: 3115596		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.04.20 15.17	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	<b>1390</b>	49.8	mg/kg	02.04.20 15.17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<b>257</b>	49.8	mg/kg	02.04.20 15.17		1
<b>Total TPH</b>	PHC635	<b>1650</b>	49.8	mg/kg	02.04.20 15.17		1
		%					
<b>Surrogate</b>	<b>Cas Number</b>	<b>Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1-Chlorooctane	111-85-3	73	%	70-135	02.04.20 15.17		
o-Terphenyl	84-15-1	88	%	70-135	02.04.20 15.17		





**Lobo Services**  
Whiting Oil +Gas Carlson Fed A 2 TB

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3115596

MB Sample Id: 7695964-1-BLK

Matrix: Solid

LCS Sample Id: 7695964-1-BKS

Prep Method: SW8015P

Date Prep: 02.04.20

LCSD Sample Id: 7695964-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	873	87	862	86	70-135	1	20	mg/kg	02.04.20 11:28	
Diesel Range Organics (DRO)	<15.0	1000	952	95	967	97	70-135	2	20	mg/kg	02.04.20 11:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	78		101		103		70-135	%	02.04.20 11:28
o-Terphenyl	79		96		88		70-135	%	02.04.20 11:28

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3115596

Matrix: Solid

MB Sample Id: 7695964-1-BLK

Prep Method: SW8015P

Date Prep: 02.04.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.04.20 10:51	

**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3115596

Matrix: Soil

MS Sample Id: 651190-002 S

Prep Method: SW8015P

Date Prep: 02.04.20

Parent Sample Id: 651190-002

MSD Sample Id: 651190-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	884	89	999	100	70-135	12	20	mg/kg	02.04.20 12:26	
Diesel Range Organics (DRO)	273	997	1070	80	1120	85	70-135	5	20	mg/kg	02.04.20 12:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		113		70-135	%	02.04.20 12:26
o-Terphenyl	91		97		70-135	%	02.04.20 12:26

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296  
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

**Chain of Custody**

Work Order No. 105154

Page 105154 of 105154

Project Manager:	Raymond Taylor	Bill to: (if different)	JR Jarez
Company Name:	Lobo Services	Company Name:	Whitins Oil and Gas
Address:	214 W Texas Ave, Suite 1215	Address:	
City, State ZIP:	Midland, Texas 79701	City, State ZIP:	
Phone:	432-425-3098	Email:	raymond@loboservicesconsulting.com

Project Name:	Whitins Oil & Gas	Turn Around	<input type="checkbox"/>
Project Number:	Carlson Fed # 2 TR	Routine	<input type="checkbox"/>
P.O. Number:		Rush: 3 day	
Sampler's Name:	Josue Rodriguez	Due Date:	

<b>SAMPLE RECEIPT</b>	Temp Blank:	Yes	NO	Wet Ice:	Yes	No
Temperature (°C):	3.0	Thermometer ID				
Received In tact:	Yes	No	Correction Factor:			
Cooler Custody Seals:	Yes	No	MMA			
Sample Custody Seals:	Yes	No	TRR	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers			Sample Comments
					BTEX	TPH	Chlorides	
Stockpile #1	soil	2/3/2010			1	1	1	
Stockpile #2					1	1	1	
Stockpile #3					1	1	1	
Stockpile #4					1	1	1	
Stockpile #5					1	1	1	
Stockpile #6					1	1	1	
Stockpile #7					1	1	1	

Total 200.7 / 6010    200.8 / 6020:    8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed    TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U    1631 / 245.1 / 7470 / 7471 - Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2/3/10			2
					4
					6

Client: Lobo Services

Date/ Time Received: 02/03/2020 04:47:00 PM

Work Order #: 651156

Acceptable Temperature Range: 0 - 6 degC  
 Air and Metal samples Acceptable Range: Ambient  
 Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 02/03/2020  
 Brianna Teel

Checklist reviewed by: Holly Taylor Date: 02/06/2020  
 Holly Taylor

WHITING OIL AND GAS – CARLSON FED A 2 TB

NMOCD Closure Criteria 51' – 100'

Chloride 10,000 mg/kg    Total TPH 2,500 mg/kg    GRO+DRO 1,000 mg/kg    BTEX 50 mg/kg    Benzene 10 mg/kg

Sample ID	Sample Date	Total TPH mg/kg	GRO+DRO mg/kg	BTEX mg/kg	Benzene mg/kg
Stockpile # 1	7/19/2019	7560.0	7081.0	11.70	0.0456
Stockpile # 2	7/19/2019	6520.0	6071.0	6.84	0.0550
Stockpile # 3	7/19/2019	7240.0	6785.0	15.10	0.0636
Stockpile # 4	7/19/2019	8110.0	7598.0	23.90	0.0918
Stockpile # 5	7/19/2019	8330.0	7788.0	20.20	0.0978
Stockpile # 6	7/19/2019	7260.0	6808.0	14.30	0.0532
Stockpile # 7	7/19/2019	6240.0	5850.0	18.50	0.0806
Stockpile # 1	10/2/2019	1750.0	1659.9		
Stockpile # 2	10/2/2019	1990.0	1879.9		
Stockpile # 3	10/2/2019	4010.0	3655.0		
Stockpile # 4	10/2/2019	5210.0	4785.4		
Stockpile # 5	10/2/2019	5000.0	4593.0		
Stockpile # 6	10/2/2019	2450.0	2240.5		
Stockpile # 7	10/2/2019	3150.0	2896.9		
Stockpile # 1	10/30/2019	2990.0	2660.0		
Stockpile # 2	10/30/2019	2400.0	2160.0		
Stockpile # 3	10/30/2019	2360.0	2119.9		
Stockpile # 4	10/30/2019	3580.0	3151.4		
Stockpile # 5	10/30/2019	3410.0	3046.7		
Stockpile # 6	10/30/2019	3070.0	2745.9		
Stockpile # 7	10/30/2019.	3080.0	2764.3		
Stockpile # 1	2/3/2020	2570.0	2159.9		
Stockpile # 2	2/3/2020	2390.0	2030.0		
Stockpile # 3	2/3/2020	1680.0	1440.0		
Stockpile # 4	2/3/2020	4230.0	3645.8		
Stockpile # 5	2/3/2020	2730.0	2330.0		
Stockpile # 6	2/3/2020	2260.0	1920.0		
Stockpile # 7	2/3/2020	1650.0	1439.8		