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

Form C-141 Revised April 3, 2017 bmit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

PCS1620831816

Release Notification and Corrective Action												
						OPERATOR Initia					X	Final Report
Name of Co	mpany W	hiptail Mids	tream			Contact Ernie Johnson						
Address 504	S. Bloom	field Blvd, B	loomfield	l, NM 87413		Telephone No. 918-289-2147						
Facility Nar	ne 7-1 CD	P				Facility Typ	e Central Depo	ository				
Surface Ow	ner Burea	u of Land M	anageme	nt Mineral C	wner I	Bureau of La	nd Managemen	nt	API No	. N/A		
						OF RE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
С	Sec. 35	T23N	9W	554.8ft	Sc	outh Line	32.4ft	Wes	st Line	San J	uan Co	unty
			Latitud	le36.188903	Lo	ongitude	-107.763032	NAD8	33			
	NATURE OF RELEASE											
Type of Release			LACT	14			Release 195bbl		Volume R		194-19	
Source of Rei Was Immedia			LACT ur	111.		If YES, To	lour of Occurrenc	ce 6/5/18]	Date and	Hour of Disc	covery	6/5/18 1:30PM
was militedia	ne nonce C		Yes	No Not Re	equired		Fields - Environ	nmental	Specialist	(NMOCD)	
By Whom?			e Solutions)				our 6/6/18 @1:20					
Was a Watero	course Reac		V [V	l Nr.		If YES, Volume Impacting the Watercourse.						
			Yes X			NMOCD						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.'	k					MINIOUD			
								JU	L 13 2	2018		
								DIOT	DIOT	1 1 1		
Describe Cau									KILI	111		
It was determ	ined that ap	pproximately	195bbls of	Crude Oil was re	leased w	rithin the line	d secondary conta	ainment	due to a La	ACT unit gas	sket fail	ure. The
LACT unit w	as shut off t	ipon discover	y of the lea	ak and has been re	epaired.							
Whiptail personnel containment. A lin the containment are	ased, crews reco l utilized vac-tru er crew repaired nd were excavate	overed 194-194.5bb ucks to recover the I the pin-hole leak a ed utilizing a vac-tr	ls within cont released mate section Friday uck on Wedn	ten.* ainment. A small pinhole rial within containment at (6/8/18). Once the site be resday (6/13/18). Addition IMOCD and Whiptail pe	and placed i ad fully dri nal impacte	it back into the tar ed from hydro-exe d materials were r	k system. A hydro-vac t cavation activities Mond emoved from location b	ruck has be lay (6/11/18 y crews util	en utilized to re), additional im izing hand sho	emove any impac npacted soils were	cted soils o e observed	utside of adjacent to
				is true and comp								
				nd/or file certain re								
				ce of a C-141 repo								
				tance of a C-141								
federal, state,	or local lav	vs and/or regu	lations.									
Signature:	200 20	Alma	an				OIL CONS	SERV	ATION	DIVISIO	N	
orginature. O	1	Tentinac				Annroved by	Environmental S ₁	necialis			_	
Printed Name	: Ernes	t Johnson				-PPIO (CG O)		7	0			2
Title: Dir	ector of	Risk and E	Enginee	ring Services	1	Approval Dat	e: 717118	C I	Expiration I	Date:		
E-mail Addre	ss: ernie.j	ohnson@	whiptail	midstream.co	m (Conditions of	Approval:			Attached	П	*
09 Ju	ılv. 2018			918.289.214	7					- Indened		

* Attach Additional Sheets If Necessary

NVF181649793

34



65 Mercado Street, Suite 109 • Durango, CO 81301 PHONE: 970.259.0926 • www.hrlcomp.com

July 5, 2018

Vanessa Fields Oil Conservation Division District III 1000 Rio Brazos Road, Aztec, NM 87410



SUBJECT: Final Closure Report for Incident Number: nVF1816448793 (Whiptail Midstream 7-1 CDP)

Ms. Fields:

On behalf of Whiptail Midstream, HRL Compliance Solutions, Inc. (HRL) is submitting the attached final closure report summarizing the findings and closure actions for the 7-1 CDP. The purpose of the report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for closure of the release that occurred on June 5, 2018. Table 1 below summarizes information regarding the release.

Table 1: Release Information and Site Ranking

Name	7-1 CDP
Company	Whiptail Midstream
Incident Number	nVF1816448793
API Number	N/A
Location	31.188903, -107.763032 NAD83
Date of Release	6/5/2018
Date Reported to NMOCD	6/6/2018
Land Owner	Bureau of Land Management
Reported to	OCD
Source of Release	LACT
Released Material	Oil
Released Volume	195 bbls oil
Recovered Volume	194-194.5 bbls oil
Net Release Volume	1 – 1.5 bbls oil
NMOCD Ranking	10
Response Date	6/5/2018



1.0 Background

On June 5, 2018, during routine facility operations, a gasket on one of three Lease Automatic Custody Transfer (LACT) units failed. Oil was released from the faulty gasket into the lined (steel) secondary containment. Pinhole leaks were observed at two locations in the liner along the southern portion of the containment structure. This allowed fluid from the release to migrate through the liner on to the southern edge of the pad surface adjacent to the containment structure. A vacuum truck was dispatched to remove any free standing fluids from outside and within the lined containment on 6/5/18. Recovered liquids were recycled into the adjacent 7-1 tank battery facility/storage system. Once cleaned, the liner was repaired with spray on patching. The faulty gasket on the LACT unit was repaired and the LACT unit was put back into operation.

Soils impacted along the southern edge of the pad/adjacent to the secondary containment were observed to be sandy loam, composed primarily of fine-course sands with little clay content. A vacuum truck and hand crews utilizing hand shovels removed free standing liquids and saturated soils from the impacted area along the southern edge of the pad and from underneath the containment liner to the furthest extent deemed to be safe. Remediation activities outside and underneath the containment took place between 6/5/18 and 6/15/18. In total, two vacuum trucks and two pickup truck loads of soil (placed in secured sand bags) were delivered to Envirotech Landfarm for disposal. An initial Form C-141 was submitted to the NMOCD District III Office in hard copy format on 6/19/2018.

2.0 Site Ranking and Land Jurisdiction

Recommended Remediation Action Levels (RRALs) were determined by the NMOCD District III Office. Table 2 presents the remediation standards and the site ranking for this location.

Table 2: Remediation Standards

Soil Remediation Standards	NMOCD Site Ranking: 10
Benzene	10 PPM
BTEX	50 PPM
TPH	1000 PPM

3.0 Assessment

Upon conducting an on-site review with NMOCD and Whiptail Midstream personnel on June 27, 2018, it was determined that the remediation activities conducted appeared to be sufficient to address impacts adjacent to and underneath the containment liner. As noted above, further excavation under the liner and/or use of hand tools in the area was deemed to be unsafe due to the proximity to the LACT unit, densely spaced below-grade flowline piping, and high voltage utility lines in the immediate area. Any residual impacts that remain beneath the liner/LACT containment will be addressed when the facility goes to final closure. HRL field personnel collected composite soil samples from excavated areas (identified as Areas 1-3) see Figures 1-3. All samples were homogenized, and prepared for analysis under the supervision of NMOCD and Whiptail Midstream personnel. All samples were analyzed at a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory and in accordance with



NMOCD soil sampling procedures. The samples were submitted to ALS Environmental in Holland, MI for the following analysis; chlorides by Method 300.0, volatile organics (BTEX) by Method 8021, and ORO, DRO, and GRO by EPA Method 8015. Sample locations and excavations are depicted in Figure 1, Figure 2, and Figure 3.

4.0 Conclusion

Analytical results for the impacted areas are at or below the action levels for NMCOD constituents of concern. A summary of laboratory analytical results in included in Table 3. Laboratory analytic reports are included in Appendix B. No further remedial activities are recommended.

5.0 Scope and Limitations

The scope of services consisted of a spill assessment, verification of release stabilization, regulatory liaison, sampling for closure, and preparation of this Final Closure Report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the San Juan Basin in New Mexico.

If there are any questions regarding this report, please contact Gunnar Westerman at 970-259-0926.

Submitted by: HRL Compliance Solutions, Inc. Gunnar Westerman Project Lead

Attachments:

Figure 1: Site and Sample Location Map – Area 1 Figure 2: Site and Sample Location Map – Area 2 Figure 3: Site and Sample Location Map – Area 3

Table 3: Composite Sample Location Details
Table 4: Summary of Sample Results

Appendix A: Final Form C141 Appendix B: Site Photos

Appendix C: Laboratory Analytical Reports



Figure 1:

Site and Sample Location Map – Area 1

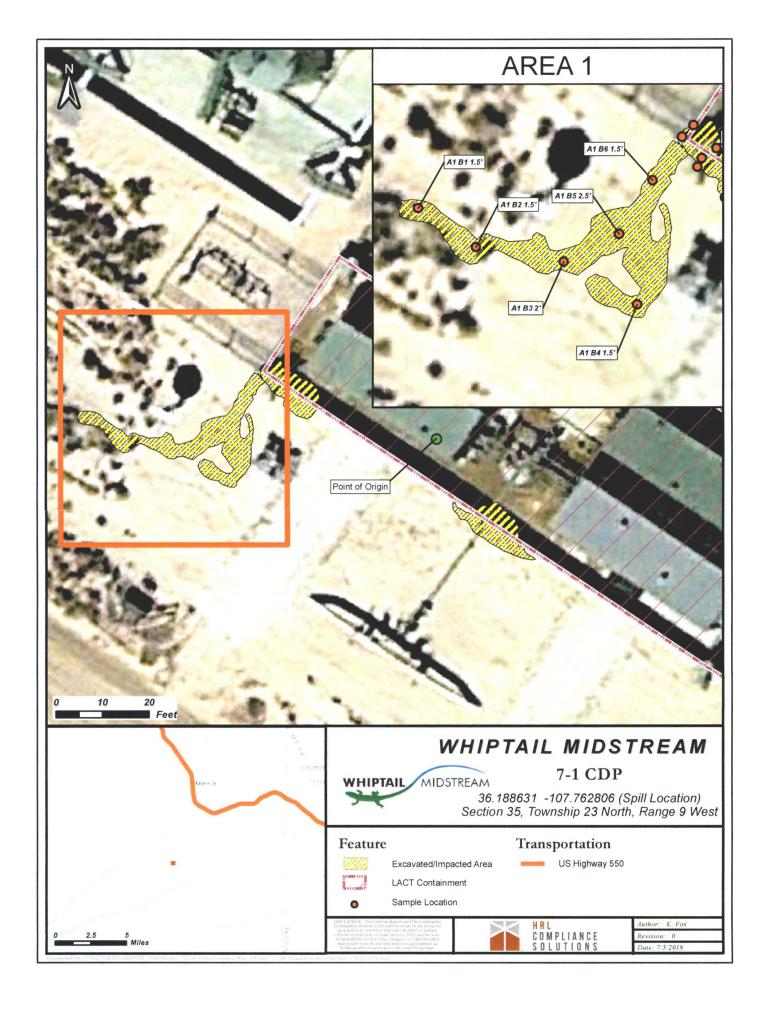




Figure 2:

Site and Sample Location Map – Area 2

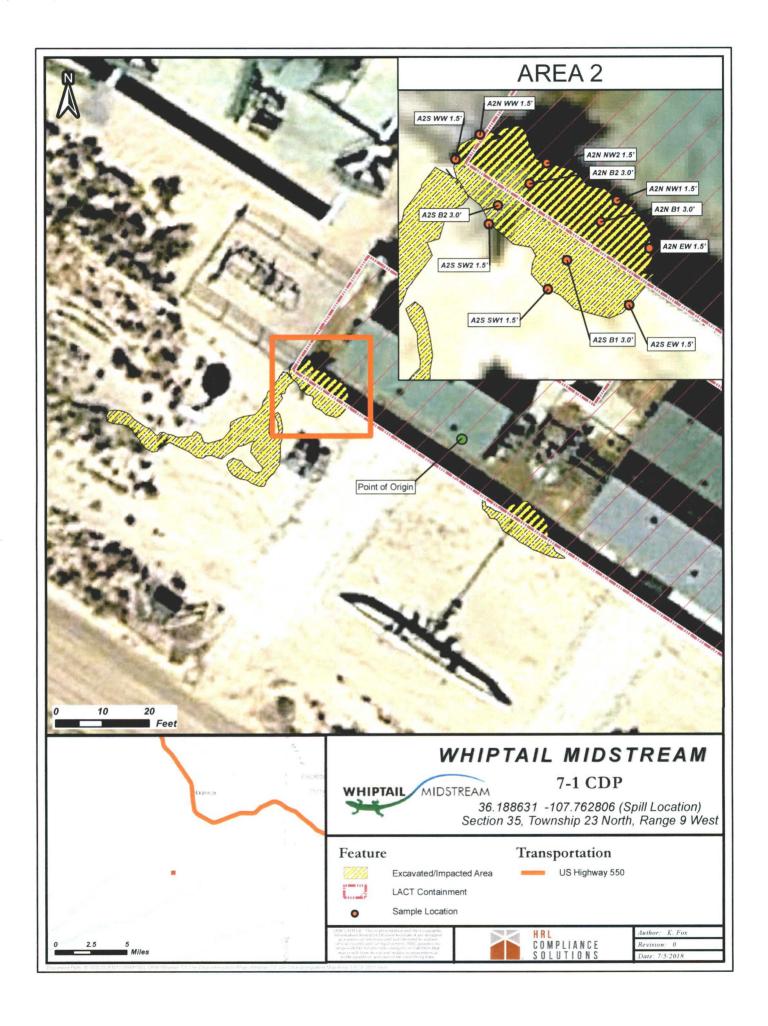




Figure 3:

Site and Sample Location Map – Area 3

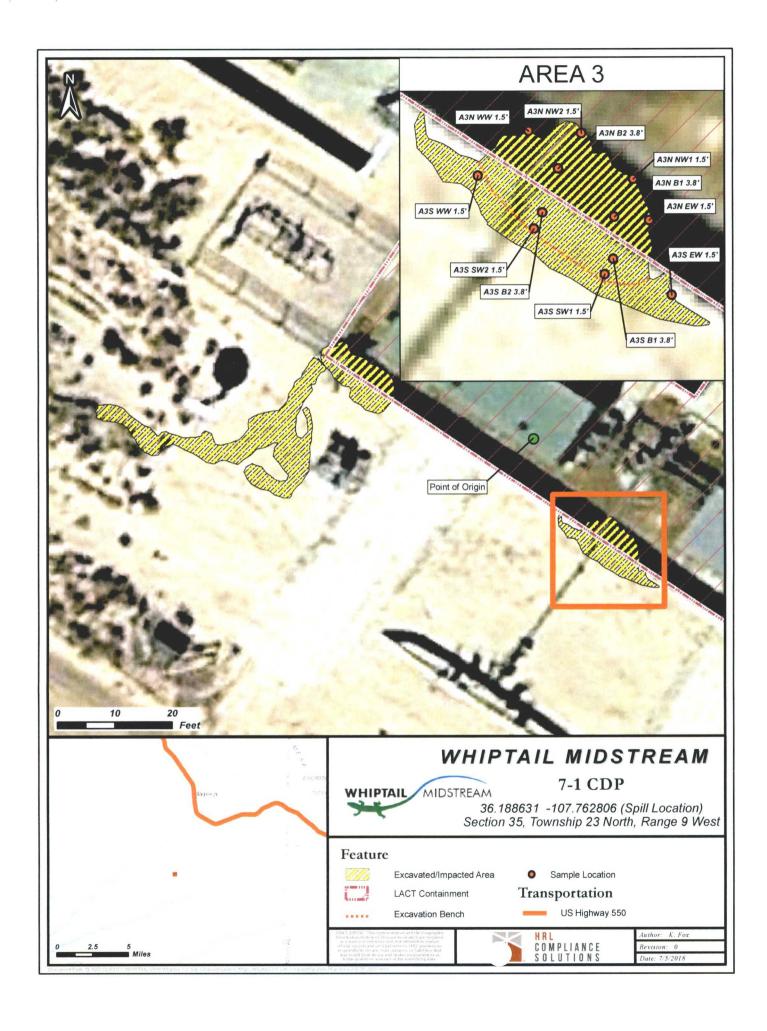




Table 3: Composite Sample Location Details

ID	Sample Area	Surface Sampled	Depth Below Ground Surface (ft)	Composite Sample ID
A1 B1 1.5'	Area 1	Bottom	1.5	A1
A1 B2 1.5'	Area 1	Bottom	1.5	A1
A1 B3 2'	Area 1	Bottom	2	A1
A1 B4 1.5'	Area 1	Bottom	1.5	A1
A1 B5 2.5'	Area 1	Bottom	2.5	A1
A1 B6 1.5'	Area 1	Bottom	1.5	A1
A2N B1 3.0'	Area 2	Bottom	3	A2N
A2N B2 3.0'	Area 2	Bottom	3	A2N
A2N NW1 1.5'	Area 2	North Wall	1.5	A2N
A2N NW2 1.5'	Area 2	North Wall	1.5	A2N
A2N WW 1.5'	Area 2	West Wall	1.5	A2N
A2N EW 1.5'	Area 2	East Wall	1.5	A2N
A2S B1 3.0'	Area 2	Bottom	3	A2S
A2S B2 3.0'	Area 2	Bottom	3	A2S
A2S SW1 1.5'	Area 2	South Wall	1.5	A2S
A2S SW2 1.5'	Area 2	South Wall	1.5	A2S
A2S WW 1.5'	Area 2	West Wall	1.5	A2S
A2S EW 1.5'	Area 2	East Wall	1.5	A2S
A3N B1 3.8'	Area 3	Bottom	3.8	A3N
A3N B2 3.81	Area 3	Bottom	3.8	A3N
A3N NW1 1.5'	Area 3	North Wall	1.5	A3N
A3N NW2 1.5'	Area 3	North Wall	1.5	A3N
A3N WW 1.5'	Area 3	West Wall	1.5	A3N
A3N EW 1.5'	Area 3	East Wall	1.5	A3N
A3S B1 3.8'	Area 3	Bottom	3.8	A3S
A3S B2 3.81	Area 3	Bottom	3.8	A3S
A3S SW1 1.5'	Area 3	South Wall	1.5	A3S
A3S SW2 1.5'	Area 3	South Wall	1.5	A3S
A3S WW 1.5'	Area 3	West Wall	1.5	A3S
A3S EW 1.5'	Area 3	East Wall	1.5	A3S



Table 4: Analytical Results Summary

		SAMPLE TYPE	SAMPLE DATE	SOIL STATUS			8021			8015				300
SAMPLE LOCATION	COMPOSITE SAMPLE ID				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)		GRO (mg/Kg)	ORO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - G	uidelines for Re Rel	mediation of eases	f Leaks, Spill	s and	10	NE	NE	NE	50	NE	NE	NE	1,000	600
AREA 1	A1	Composite	6/27/2018	In-Situ	ND	ND	ND	ND	ND	ND	430	350	780	6.6
AREA 2	A2N	Composite	6/27/2018	In-Situ	ND	ND	ND	ND	ND	ND	48	31	79	6.3
AREA 2	A2S	Composite	6/27/2018	In-Situ	ND	ND	ND	ND	ND	ND	410	340	750	8.1
AREA 3	A3N	Composite	6/27/2018	In-Situ	ND	ND	ND	ND	ND	ND	99	58	157	5.7
AREA 3	A3S	Composite	6/27/2018	In-Situ	ND	ND	ND	ND	ND	ND	260	180	440	7.1
BACKGROUND	Background Sample	Composite	6/27/2018	In-Situ	ND	ND	ND	ND	ND	ND	13	3.4	16.4	5.3

ND = Not Detected



Appendix A: Form C-141 Final

District I
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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

	Release Notification and Corrective Action										
					2	OPERA	ГOR	☐ Initia	al Report X Final Report		
		hiptail Mids				Contact Err					
			loomfield	l, NM 87413		Telephone No. 918-289-2147 Facility Type Central Depository					
Facility Nat	me 7-1 CD)P				Facility Type Central Depository					
Surface Ow	ner Burea	u of Land M	anageme	nt Mineral O	wner	Bureau of La	nd Managemen	t API No	. N/A		
				LOCA	TIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County		
С	Sec. 35	T23N	9W	554.8ft	Se	outh Line	32.4ft	West Line	San Juan County		
	1		Latitud	le 36.188903	L	ongitude	-107.763032	NAD83			
						OF REL					
Type of Rele	ase Crud	e Oil		IVAI	UKE		Release 195bbl	Volume F	Recovered 194-194.5bbl		
Source of Re	lease Faul	ty gasket on	LACT ur	nit.		Date and H	Iour of Occurrence		Hour of Discovery 6/5/18 1:30PM		
Was Immedi	ate Notice (V	1 N N - 4 D		If YES, To		. 10	(NIMOCD)		
				No Not Re	equired			mental Specialis	(NMOCD)		
	By Whom? Kris Rowe (HRL Compliance Solutions) Was a Watercourse Reached?					Date and Hour 6/6/18 @1:20 If YES, Volume Impacting the Watercourse.					
was a water	Yes X No					II ILS, VC	orume impacting t	ne watercourse.			
If a Watercon	irse was Im	pacted, Descr	ihe Fully	*							
Tu Waterest	arbe was mi	paetea, Deser	ioe i uiij.								
		em and Reme									
It was determ	nined that a	pproximately	195bbls of	f Crude Oil was re ak and has been re	leased v	vithin the line	ed secondary cont	ainment due to a L	ACT unit gasket failure. The		
LAC1 unit w	as snut on	upon discover	y of the le	ak and has been re	epaired.						
		and Cleanup A			e leak was	observed, which m	isted ~0.5-1 bbl outside	of containment and onto t	he soils around the containment wall.		
Whiptail personne	el utilized vac-tr	ucks to recover the	released mate	rial within containment	and placed	lit back into the ta	nk system. A hydro-vac t	truck has been utilized to r	emove any impacted soils outside of npacted soils were observed adjacent to		
the containment a	nd were excavat	ed utilizing a vac-ti	ruck on Wedn	esday (6/13/18). Additio	nal impact	ted materials were	removed from location b	y crews utilizing hand sho	vels (6/15/18). The analytical results (from		
				NMOCD and Whiptail pe					suant to NMOCD rules and		
									eases which may endanger		
									eve the operator of liability		
									r, surface water, human health ompliance with any other		
		ws and/or regu		stance of a C 1 11	геренте	ioes not rene	e the operator or		ompriance with any eviler		
	_	1					OIL CON	SERVATION	DIVISION		
Signature:	mo No	- Ahm A	S								
o.gature.		- Contract				Approved by	Environmental S	pecialist:			
Printed Nam	e: Ernes	t Johnson									
Title: Di	rector of	Risk and I	Enginee	ering Services		Approval Da	te:	Expiration	Date:		
E-mail Addr	ess: ernie.	johnson@	whiptai	lmidstream.co	om	Conditions o	f Approval:				
	uly, 2018			918.289.214			-FF		Attached		

^{*} Attach Additional Sheets If Necessary



Appendix B: Site Photos



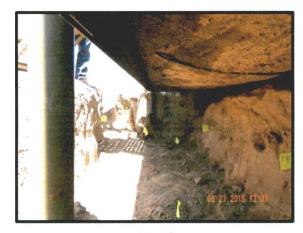




Area 1

Area 1





Area 2

Area 2





Area 3

Area 3



Appendix C: Laboratory Analytical Reports



29-Jun-2018

Brian Skyles HRL Compliance Solutions, Inc 65 Mercado St. Suite 109 Durango, CO 81301

Re: Whiptail Midstream lic. 7-1 CDP

Work Order: 18061848

Dear Brian,

ALS Environmental received 6 samples on 28-Jun-2018 08:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

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

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by Chad Whelton

Chad Whelton Project Manager

Report of Laboratory Analysis

Certificate No: MN 998501



www.alsglobal.com

RIGHT SOLUTIONS

Date: 29-Jun-18

Client:

HRL Compliance Solutions, Inc

Project:

Whiptail Midstream lic. 7-1 CDP

Work Order:

18061848

Work Order Sample Summary

Lab Samp ID C	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
18061848-01 A	.1	Soil		6/27/2018 09:34	6/28/2018 08:30	
18061848-02 A	2N	Soil		6/27/2018 09:58	6/28/2018 08:30	
18061848-03 A	.28	Soil		6/27/2018 09:58	6/28/2018 08:30	
18061848-04 A	.3N	Soil		6/27/2018 10:15	6/28/2018 08:30	
18061848-05 A	.3S	Soil		6/27/2018 10:15	6/28/2018 08:30	
18061848-06 B	ackground Sample	Soil		6/27/2018 11:06	6/28/2018 08:30	

Date: 29-Jun-18

Client:

HRL Compliance Solutions, Inc

Project:

Whiptail Midstream lic. 7-1 CDP

Work Order:

18061848

Case Narrative

Batch 120558, Method DRLVI_8015_S, Sample 18061848-01A MS/MSD: The MS/MSD recovery was below the lower control limit DRO/ORO. The corresponding result in the parent sample may be biased low.

Batch 120573, Method GRO_8015_S, Sample 18061848-06A: One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is required.

Date: 29-Jun-18

Client: HRL Compliance Solutions, Inc QUALIFIERS, Project: Whiptail Midstream lic. 7-1 CDP **ACRONYMS, UNITS**

WorkOrder: 18061848

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S U	Spike Recovery outside laboratory control limits
X	Analyzed but not detected above the MDL Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or
Α	reagent contamination at the observed level.
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL.	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
Α	APHA Standard Methods
D	ASTM
Е	EPA
SW	SW-846 Update III
Units Reported	Description

Units Reported Description

Percent of Sample % of sample

mg/Kg-dry Milligrams per Kilogram Dry Weight

Client:

HRL Compliance Solutions, Inc

Project:

Note:

Whiptail Midstream lic. 7-1 CDP

Sample ID:

A1

Collection Date: 6/27/2018 09:34 AM

Date: 29-Jun-18

Work Order: 18061848

Lab ID: 18061848-01

Matrix: SOIL

Analyses	Result	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: SW80150		Prep: SW354	46 / 6/28/18	Analyst: MEB
DRO (C10-C28)	350	2.8	4.9	mg/Kg-dry	1	6/28/2018 18:25
ORO (C28-C40)	430	1.9	4.9	mg/Kg-dry	1	6/28/2018 18:25
Surr: 4-Terphenyl-d14	74.1		34-130	%REC	1	6/28/2018 18:25
GASOLINE RANGE ORGANICS BY GC-FID		Method: SW8015D	1	Prep: SW500	35 / 6/28/18	Analyst: MEB
GRO (C6-C10)	U	2.1	5.1	mg/Kg-dry	1	6/29/2018 02:36
Surr: Toluene-d8	106		71-123	%REC	1	6/29/2018 02:36
VOLATILE ORGANIC COMPOUNDS		Method: SW8260C		Prep: SW503	35 / 6/28/18	Analyst: LSY
Benzene	U	0.0052	0.030	mg/Kg-dry	1	6/28/2018 17:54
Ethylbenzene	U	0.0064	0.030	mg/Kg-dry	1	6/28/2018 17:54
m,p-Xylene	U	0.014	0.061	mg/Kg-dry	1	6/28/2018 17:54
o-Xylene	U	0.012	0.030	mg/Kg-dry	1	6/28/2018 17:54
Toluene	U	0.0083	0.030	mg/Kg-dry	1	6/28/2018 17:54
Xylenes, Total	U	0.026	0.091	mg/Kg-dry	1	6/28/2018 17:54
Surr: 1,2-Dichloroethane-d4	110		70-130	%REC	1	6/28/2018 17:54
Surr: 4-Bromofluorobenzene	93.3		70-130	%REC	1	6/28/2018 17:54
Surr: Dibromofluoromethane	87.6		70-130	%REC	1	6/28/2018 17:54
Surr: Toluene-d8	93.8		70-130	%REC	1	6/28/2018 17:54
CHLORIDE		Method: A4500-CL	E-11	Prep: EXTRA	ACT / 6/28/18	Analyst: STP
Chloride	6.6	Jx 1.1	10	mg/Kg-dry	1	6/29/2018 14:00
MOISTURE		Method: SW3550C				Analyst: NW
Moisture	0.51	0.025	0.050	% of sample	1	6/28/2018 14:45

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

Client:

HRL Compliance Solutions, Inc

Project:

Whiptail Midstream lic. 7-1 CDP

Sample ID:

Collection Date: 6/27/2018 09:58 AM

Date: 29-Jun-18

Work Order: 18061848

Lab ID: 18061848-02

Matrix: SOIL

Analyses	Result	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: SW8015C		Prep: SW354	46 / 6/28/18	Analyst: MEB
DRO (C10-C28)	31	2.9	5.0	mg/Kg-dry	1	6/28/2018 21:49
ORO (C28-C40)	48	1.9	5.0	mg/Kg-dry	1	6/28/2018 21:49
Surr: 4-Terphenyl-d14	65.6		34-130	%REC	1	6/28/2018 21:49
GASOLINE RANGE ORGANICS BY GC-FID		Method: SW8015D		Prep: SW503	35 / 6/28/18	Analyst: MEB
GRO (C6-C10)	U	2.1	5.1	mg/Kg-dry	1	6/29/2018 03:05
Surr: Toluene-d8	102		71-123	%REC	1	6/29/2018 03:05
VOLATILE ORGANIC COMPOUNDS		Method: SW8260C		Prep: SW503	35 / 6/28/18	Analyst: LSY
Benzene	U	0.0052	0.031	mg/Kg-dry	1	6/28/2018 18:09
Ethylbenzene	U	0.0065	0.031	mg/Kg-dry	1	6/28/2018 18:09
m,p-Xylene	U	0.015	0.061	mg/Kg-dry	1	6/28/2018 18:09
o-Xylene	U	0.012	0.031	mg/Kg-dry	1	6/28/2018 18:09
Toluene	U	0.0084	0.031	mg/Kg-dry	1	6/28/2018 18:09
Xylenes, Total	U	0.026	0.092	mg/Kg-dry	1	6/28/2018 18:09
Surr: 1,2-Dichloroethane-d4	108		70-130	%REC	1	6/28/2018 18:09
Surr: 4-Bromofluorobenzene	95.3		70-130	%REC	1	6/28/2018 18:09
Surr: Dibromofluoromethane	90.2		70-130	%REC	1	6/28/2018 18:09
Surr: Toluene-d8	92.2		70-130	%REC	1	6/28/2018 18:09
CHLORIDE		Method: A4500-CL	E-11	Prep: EXTRA	ACT / 6/28/18	Analyst: STP
Chloride	6.3	Jx 1.1	9.8	mg/Kg-dry	1	6/29/2018 14:00
MOISTURE		Method: SW3550C				Analyst: NW
Moisture	1.1	0.025	0.050	% of sample	1	6/28/2018 14:45

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

Client:

HRL Compliance Solutions, Inc

Project:

Whiptail Midstream lic. 7-1 CDP

Sample ID:

A2S

Collection Date: 6/27/2018 09:58 AM

Date: 29-Jun-18

Work Order: 18061848

Lab ID: 18061848-03

Matrix: SOIL

Analyses	Result	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: SW80150	:	Prep: SW354	46 / 6/28/18	Analyst: MEB
DRO (C10-C28)	340	2.9	5.0	mg/Kg-dry	1	6/28/2018 22:47
ORO (C28-C40)	410	1.9	5.0	mg/Kg-dry	1	6/28/2018 22:47
Surr: 4-Terphenyl-d14	80.1		34-130	%REC	1	6/28/2018 22:47
GASOLINE RANGE ORGANICS BY GC-FID		Method: SW80150)	Prep: SW500	35 / 6/28/18	Analyst: MEB
GRO (C6-C10)	U	2.1	5.1	mg/Kg-dry	1	6/29/2018 03:35
Surr: Toluene-d8	105		71-123	%REC	1	6/29/2018 03:35
VOLATILE ORGANIC COMPOUNDS		Method: SW82600	;	Prep: SW503	35 / 6/28/18	Analyst: LSY
Benzene	U	0.0052	0.030	mg/Kg-dry	1	6/28/2018 18:24
Ethylbenzene	U	0.0064	0.030	mg/Kg-dry	1	6/28/2018 18:24
m,p-Xylene	U	0.014	0.061	mg/Kg-dry	1	6/28/2018 18:24
o-Xylene	U	0.012	0.030	mg/Kg-dry	1	6/28/2018 18:24
Toluene	U	0.0083	0.030	mg/Kg-dry	1	6/28/2018 18:24
Xylenes, Total	U	0.026	0.091	mg/Kg-dry	1	6/28/2018 18:24
Surr: 1,2-Dichloroethane-d4	107		70-130	%REC	1	6/28/2018 18:24
Surr: 4-Bromofluorobenzene	96.7		70-130	%REC	1	6/28/2018 18:24
Surr: Dibromofluoromethane	90.2		70-130	%REC	1	6/28/2018 18:24
Surr: Toluene-d8	95.8		70-130	%REC	1	6/28/2018 18:24
CHLORIDE		Method: A4500-CL	E-11	Prep: EXTRA	CT / 6/28/18	Analyst: STP
Chloride	8.1	Jx 1.1	10	mg/Kg-dry	1	6/29/2018 14:00
MOISTURE		Method: SW3550C				Analyst: NW
Moisture	0.73	0.025	0.050	% of sample	1	6/28/2018 14:45

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

TES Group, CS.

Client: HRL Compliance Solutions, Inc

Project: Whiptail Midstream lic. 7-1 CDP

Sample ID: A3N

Collection Date: 6/27/2018 10:15 AM

Date: 29-Jun-18

Work Order: 18061848

Lab ID: 18061848-04

Matrix: SOIL

Analyses	Result	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: SW8015C		Prep: SW354	16 / 6/28/18	Analyst: MEB
DRO (C10-C28)	58	2.8	4.9	mg/Kg-dry	1	6/28/2018 23:16
ORO (C28-C40)	99	1.9	4.9	mg/Kg-dry	1	6/28/2018 23:16
Surr: 4-Terphenyl-d14	56.6		34-130	%REC	1	6/28/2018 23:16
GASOLINE RANGE ORGANICS BY GC-FID		Method: SW8015D		Prep: SW503	35 / 6/28/18	Analyst: MEB
GRO (C6-C10)	U	2.2	5.2	mg/Kg-dry	1	6/29/2018 04:05
Surr: Toluene-d8	109		71-123	%REC	1	6/29/2018 04:05
VOLATILE ORGANIC COMPOUNDS		Method: SW8260C		Prep: SW503	35 / 6/28/18	Analyst: LSY
Benzene	U	0.0054	0.031	mg/Kg-dry	1	6/28/2018 18:39
Ethylbenzene	U	0.0066	0.031	mg/Kg-dry	1	6/28/2018 18:39
m,p-Xylene	U	0.015	0.063	mg/Kg-dry	1	6/28/2018 18:39
o-Xylene	U	0.012	0.031	mg/Kg-dry	1	6/28/2018 18:39
Toluene	U	0.0086	0.031	mg/Kg-dry	1	6/28/2018 18:39
Xylenes, Total	U	0.027	0.094	mg/Kg-dry	1	6/28/2018 18:39
Surr: 1,2-Dichloroethane-d4	110		70-130	%REC	1	6/28/2018 18:39
Surr: 4-Bromofluorobenzene	97.2		70-130	%REC	1	6/28/2018 18:39
Surr: Dibromofluoromethane	88.1		70-130	%REC	1	6/28/2018 18:39
Surr: Toluene-d8	94.6		70-130	%REC	1	6/28/2018 18:39
CHLORIDE		Method: A4500-CL	E-11	Prep: EXTRA	ACT / 6/28/18	Analyst: STP
Chloride	5.7	Jx 1.1	10	mg/Kg-dry	1	6/29/2018 14:00
MOISTURE		Method: SW3550C				Analyst: NW
Moisture	2.2	0.025	0.050	% of sample	1	6/28/2018 14:45

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

Client:

HRL Compliance Solutions, Inc

Project:

Whiptail Midstream lic. 7-1 CDP

Sample ID:

A3S

Collection Date: 6/27/2018 10:15 AM

Date: 29-Jun-18

Work Order: 18061848

Lab ID: 18061848-05

Matrix: SOIL

Analyses	Result	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: SW80150		Prep: SW354	46 / 6/28/18	Analyst: MEB
DRO (C10-C28)	180	2.9	5.0	mg/Kg-dry	1	6/28/2018 23:45
ORO (C28-C40)	260	1.9	5.0	mg/Kg-dry	1	6/28/2018 23:45
Surr: 4-Terphenyl-d14	61.6		34-130	%REC	1	6/28/2018 23:45
GASOLINE RANGE ORGANICS BY GC-FID		Method: SW8015D		Prep: SW503	35 / 6/28/18	Analyst: MEB
GRO (C6-C10)	U	2.2	5.1	mg/Kg-dry	1	6/29/2018 04:35
Surr: Toluene-d8	107		71-123	%REC	1	6/29/2018 04:35
VOLATILE ORGANIC COMPOUNDS		Method: SW8260C		Prep: SW503	35 / 6/28/18	Analyst: LSY
Benzene	U	0.0053	0.031	mg/Kg-dry	1	6/28/2018 18:54
Ethylbenzene	U	0.0065	0.031	mg/Kg-dry	1	6/28/2018 18:54
m,p-Xylene	U	0.015	0.062	mg/Kg-dry	1	6/28/2018 18:54
o-Xylene	U	0.012	0.031	mg/Kg-dry	1	6/28/2018 18:54
Toluene	U	0.0084	0.031	mg/Kg-dry	1	6/28/2018 18:54
Xylenes, Total	U	0.027	0.093	mg/Kg-dry	1	6/28/2018 18:54
Surr: 1,2-Dichloroethane-d4	109		70-130	%REC	1	6/28/2018 18:54
Surr: 4-Bromofluorobenzene	97.2		70-130	%REC	1	6/28/2018 18:54
Surr: Dibromofluoromethane	87.2		70-130	%REC	1	6/28/2018 18:54
Surr: Toluene-d8	94.6		70-130	%REC	1	6/28/2018 18:54
CHLORIDE		Method: A4500-CL	E-11	Prep: EXTRA	CT / 6/28/18	Analyst: STP
Chloride	7.1	Jx 1.1	9.7	mg/Kg-dry	1	6/29/2018 14:00
MOISTURE		Method: SW3550C				Analyst: NW
Moisture	1.4	0.025	0.050	% of sample	1	6/28/2018 14:45

Client: HRL Compliance Solutions, Inc

Project: Whiptail Midstream lic. 7-1 CDP

Sample ID: Background Sample Collection Date: 6/27/2018 11:06 AM

Date: 29-Jun-18

Work Order: 18061848

Lab ID: 18061848-06

Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Meth	od: SW8015 C		Prep: SW35	46 / 6/28/18	Analyst: MEB
DRO (C10-C28)	3.4	J	2.8	4.9	mg/Kg-dry	1	6/29/2018 12:15
ORO (C28-C40)	13		1.9	4.9	mg/Kg-dry	1	6/29/2018 12:15
Surr: 4-Terphenyl-d14	68.1			34-130	%REC	1	6/29/2018 12:15
GASOLINE RANGE ORGANICS BY GC-FID		Meth	od: SW8015D		Prep: SW50	35 / 6/28/18	Analyst: MEB
GRO (C6-C10)	U		2.1	5.0	mg/Kg-dry	1	6/29/2018 05:04
Surr: Toluene-d8	152	S		71-123	%REC	1	6/29/2018 05:04
VOLATILE ORGANIC COMPOUNDS		Meth	od: SW8260C		Prep: SW50	35 / 6/28/18	Analyst: LSY
Benzene	U		0.0051	0.030	mg/Kg-dry	1	6/28/2018 19:09
Ethylbenzene	U		0.0063	0.030	mg/Kg-dry	1	6/28/2018 19:09
m,p-Xylene	U		0.014	0.060	mg/Kg-dry	1	6/28/2018 19:09
o-Xylene	U		0.012	0.030	mg/Kg-dry	1	6/28/2018 19:09
Toluene	U		0.0082	0.030	mg/Kg-dry	1	6/28/2018 19:09
Xylenes, Total	U		0.026	0.090	mg/Kg-dry	1	6/28/2018 19:09
Surr: 1,2-Dichloroethane-d4	105			70-130	%REC	1	6/28/2018 19:09
Surr: 4-Bromofluorobenzene	94.0			70-130	%REC	1	6/28/2018 19:09
Surr: Dibromofluoromethane	87.6			70-130	%REC	1	6/28/2018 19:09
Surr: Toluene-d8	93.7			70-130	%REC	1	6/28/2018 19:09
CHLORIDE		Meth	od: A4500-CL	E-11	Prep: EXTR	ACT / 6/28/18	Analyst: STP
Chloride	5.3	Jx	1.1	9.8	mg/Kg-dry	1	6/29/2018 14:00
MOISTURE		Meth	od: SW3550C				Analyst: NW
Moisture	U		0.025	0.050	% of sample	1	6/28/2018 14:45

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

Client:

HRL Compliance Solutions, Inc

Work Order:

18061848

Project:

Whiptail Midstream lic. 7-1 CDP

Date: 29-Jun-18

Batch ID: 120558	Instru	ment ID GC8		Metho	d: SW801	5C						
MBLK	Sample ID:	DBLKS1-120558-120	558			į	Jnits: mg/	Kg	Analys	is Date:	6/28/2018 (5:26 PN
Client ID:		Run ID	: GC8_18	30628A		Se	qNo: 512	0266	Prep Date: 6/2	8/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		U	5.0									
ORO (C28-C40)		U	5.0									
Surr: 4-Terphenyl	-d14	2.233	0	3.33		0	67.1	34-130	0			
LCS	Sample ID:	DLCSS1-120558-1205	558			l	Jnits: mg/	Kg	Analys	is Date: (6/28/2018 (5:56 PN
Client ID:		Run ID	: GC8_18	0628A		Se	qNo: 512	0267	Prep Date: 6/28	3/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		297.7	5.0	333		0	89.4	65-122	0			
ORO (C28-C40)		301.1	5.0	333		0	90.4	81-116	0			
Surr: 4-Terphenyl	-d14	2.567	0	3.33		0	77.1	34-130	0			
MS	Sample ID:	18061848-01A MS				L	Inits: mg/l	Kg	Analys	is Date: 6	5/28/2018 0	6:54 PN
Client ID: A1		Run ID	: GC8_18	0628A		Se	qNo: 512 0	269	Prep Date: 6/28	3/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		574.2	4.8	320.9	345.	1	71.4	65-122	0			
ORO (C28-C40)		677.4	4.8	320.9	427.	8	77.8	81-116	0			S
Surr: 4-Terphenyl	-d14	2.425	0	3.209		0	75.6	34-130	0			
MSD	Sample ID:	18061848-01A MSD				U	Inits: mg/l	Kg	Analys	s Date: 6	5/28/2018 0	7:23 PM
Client ID: A1		Run ID	GC8_18	0628A		Se	qNo: 512 0	270	Prep Date: 6/28	/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)		546.6	5.0	331.7	345.	1	60.8	65-122	574.2	4.94	30	s
ORO (C28-C40)		595	5.013	331.7	427.	8	50.4	81-116	677.4		30	S
Surr: 4-Terphenyl	d14	2.672	0	3.317		0	80.6	34-130	2.425	9.69	30	
The following samp	he following samples were analyzed in this batch:		01/	061848- A 061848-	18061848- 02A 18061848-			03/	061848- A 061848-			
			04/		05/		0	06/				

HRL Compliance Solutions, Inc

Work Order:

18061848

Project:

Whiptail Midstream lic. 7-1 CDP

Batch ID: 120573	Instrument ID GC9		Metho	od: SW80	15D						
MBLK	Sample ID: MBLK-120573-120	1573				Jnits: µg/l	Kg-dry	Analys	is Date: 6	/29/2018 0	2:06 AM
Client ID:	Rur	ID: GC9_	180628B		Se	eqNo: 512	0032	Prep Date: 6/28	3/2018	DF: 1	
Analyte	Result	PQI	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000)								
Surr: Toluene-d8	5060				0	101	71-123	0			
LCS	Sample ID: LCS-120573-12057	73				Jnits: µg/l	(g-dry	Analys	is Date: 6	/29/2018 0	1:07 AM
Client ID:	Run	ID: GC9_	180628B		Se	eqNo: 512	0031	Prep Date: 6/28	V/2018	DF: 1	
Analyte	Result	PQI	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	401800	5.000	500000		0	80.4	71-123	0			
Surr: Toluene-d8	5614				0	112	71-123	_			
MS	Sample ID: 18061848-01A MS				ı	Jnits: µg/l	(g-dry	Analys	is Date: 6/	29/2018 0	7:32 AM
Client ID: A1	Run	ID: GC9_	180628B		Se	qNo: 512	0044	Prep Date: 6/28	/2018	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQI	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
GRO (C6-C10)	424300	5,100	505100		0	84	71-123	0			
Surr: Toluene-d8	4877	(5051		0	96.6	71-123	0			
MSD	Sample ID: 18061848-01A MS	D			1	Jnits: µg/l	(g-dry	Analys	s Date: 6/	29/2018 0	8:01 AM
Client ID: A1	Run	ID: GC9_	180628B		Se	qNo: 512	0045	Prep Date: 6/28	/2018	DF: 1	
Analyte	Result	PQL	. SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	424100	5,100	505100		0	84	71-123	424300	0.0517	30	
Surr: Toluene-d8	4594	(5051		0	90.9	71-123	4877	5.99	30	
The following samp	les were analyzed in this batch		18061848- 01A 18061848- 04A	02	2A	1848-	03	061848-			

QC BATCH REPORT

Client:

HRL Compliance Solutions, Inc

Work Order:

18061848

Project:

Whiptail Midstream lic. 7-1 CDP

Batch ID: 120572	Instrument IC	VMS9		Metho	od: SW826	60C						
MBLK	Sample ID: MBLK-	120572-12057	2			l	Jnits: µg/	Kg-dry	Analy	sis Date: 6	6/28/2018	03:32 PR
Client ID:		Run ID	VMS9_	180628A		Se	qNo: 512	0052	Prep Date: 6/2	8/2018	DF: 1	
A		Desuit	DOL	CDV Val	SPK Ref Value		N/ DEC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Analyte		Result	PQL	SPK Val			%REC			76RPD		Quai
Benzene		U	30	0		0	0	0-0	(
Ethylbenzene		U	30	0		0	0	0-0	(
m,p-Xylene		U	60	0		0	0	0-0	(
o-Xylene		U	30	0		0	0	0-0	C			
Toluene		U	30	0		0	0	0-0	(
Xylenes, Total		U	90	0		0	0	0-0	0			
Surr: 1,2-Dichloro		1080	0	1000		0	108	70-130	C			
Surr: 4-Bromofluo		938.5	0	1000		0	93.8	70-130	0			
Surr: Dibromofluo	promethane	934.5	0	1000		0	93.4	70-130	C			
Surr: Toluene-d8		957.5	0	1000		0	95.8	70-130	C)		
LCS	Sample ID: LCS-12	20572-120572	-			L	Jnits: µg/l	Kg-dry	Analys	sis Date: 6	/28/2018	02:47 PM
Client ID:		Run ID	: VMS9_	180628A		Se	qNo: 512	0048	Prep Date: 6/2	8/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
		1102				0	****	75 405				
Benzene		977	30 30	1000 1000		0	110 97.7	75-125 75-125	0			
Ethylbenzene m,p-Xylene		1845	60	2000		0	92.2	80-125	0			
o-Xylene		988	30	1000		0	98.8	75-125	0			
Toluene		961.5	30	1000		0	96.2	70-125	0			
Xylenes, Total		2833	90	3000		0	94.4	75-125	0			
Surr: 1,2-Dichloro	ethane_d4	1049	0	1000		0	105	70-130	0			
Surr: 4-Bromofluo		985.5	0	1000		0	98.6	70-130	0			
Surr: Dibromofluo		1019	0	1000		0	102	70-130	0			
Surr: Toluene-d8	romemane	940	0	1000		0	94	70-130	0			
MS	Sample ID: 180618	AR-D1A MS				1	Inits: µg/k	(a-dry	Analys	is Date: 6	/28/2018 (19-40 PM
Client ID: A1	Sample 15. 100010		: VMS9_	180628A			qNo: 512 (Prep Date: 6/2		DF: 1	JU. 40 1 III
			_		SPK Ref			Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Benzene		974.9	30	1010		0	96.5	75-125	0			
Ethylbenzene		899.6	30	1010		0	89	75-125	0			
m,p-Xylene		1721	61	2021		0	85.2	80-125	0			
o-Xylene		905.2	30	1010		0	89.6	75-125	0			
Toluene		870.8	30	1010		0	86.2	70-125	0			
Xylenes, Total		2627	91	3031		0	86.7	75-125	0			
Surr: 1,2-Dichloro	ethane-d4	1030	0	1010		0	102	70-130	0			
Surr: 4-Bromofluo	robenzene	1011	0	1010		0	100	70-130	0			
Surr: Dibromofluo	romethane	930.9	0	1010		0	92.2	70-130	0			
Surr: Toluene-d8		956.7	0	1010		0	94.7	70-130	0			

HRL Compliance Solutions, Inc

Work Order:

18061848

Project:

Whiptail Midstream lic. 7-1 CDP

Batch ID: 120572	Instrument ID	TING5		Metho	d: SW826 0							
MSD	Sample ID: 180618	48-01A MSD				Units:	μg/K	g-dry	Analys	is Date: 6	/28/2018 0	9:55 PM
Client ID: A1		Run ID:	VMS9_	180628A		SeqNo:	5120	133	Prep Date: 6/2	8/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%R	EC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene		992.6	30	1010		98	.2	75-125	974.9	1.8	30	
Ethylbenzene		906.2	30	1010	(0 89	.7	75-125	899.6	0.727	30	
m,p-Xylene		1709	61	2021	(0 84	.6	80-125	1721	0.707	30	
o-Xylene		901.1	30	1010	(0 89	.2	75-125	905.2	0.447	30	
Toluene		838	30	1010	(0 1	33	70-125	870.8	3.84	30	
Xylenes, Total		2610	91	3031	(0 86	.1	75-125	2627	0.617	30	
Surr: 1,2-Dichloroe	ethane-d4	1063	0	1010	() 1	05	70-130	1030	3.14	30	
Surr: 4-Bromofluor	obenzene	999.6	0	1010	()	99	70-130	1011	1.16	30	
Surr: Dibromofluor	omethane	957.2	0	1010	(94	.8	70-130	930.9	2.78	30	
Surr: Toluene-d8		950.6	0	1010	(94	.1	70-130	956.7	0.636	30	
The following samp	les were analyzed in	this batch:	01	3061848-	02/	61848-		03/	061848-			

Work Order:

HRL Compliance Solutions, Inc.

18061848

10001040

Whiptail Midstream lic. 7-1 CDP Project: Batch ID: 120579 Instrument ID GALLERY Method: A4500-CI E-11 Analysis Date: 6/29/2018 02:00 PM MBLK Sample ID: MBLK-120579-120579 Units: mg/Kg Client ID: Run ID: GALLERY 180629C SeqNo: 5121337 Prep Date: 6/28/2018 DF: 1 RPD SPK Ref Control RPD Ref Value Limit Value Limit Result SPK Val %REC %RPD Qual Analyte 4.281 10 Jx Chloride Analysis Date: 6/29/2018 02:00 PM MS Sample ID: 18061768-01AMS Units: ma/Ka Client ID: Run ID: GALLERY 180629C SeqNo: 5121339 Prep Date: 6/28/2018 DF: 1 SPK Ref RPD Ref RPD Control Value Limit Value Limit Result PQL SPK Val %REC %RPD Qual Analyte 5488 0 108 75-125 94 4717 393.1 Chloride X Analysis Date: 6/29/2018 02:00 PM MSD Sample ID: 18061768-01AMSD Units: mg/Kg Client ID: Run ID: GALLERY 180629C SeqNo: 5121340 Prep Date: 6/28/2018 DF: 1 RPD RPD Ref SPK Ref Control Value Limit Value %RPD Limit Qual SPK Val %REC Analyte Result PQL Chloride 4848 85 4237 393.1 105 75-125 5488 12.4 25 LCS1 Sample ID: LCS1-120579-120579 Units: mg/Kg Analysis Date: 6/29/2018 02:00 PM Client ID: Run ID: GALLERY_180629C SeqNo: 5121347 Prep Date: 6/28/2018 DF: 1 RPD SPK Ref Control RPD Ref Limit Value Limit Value Analyte Result PQL SPK Val %REC %RPD Qual 102.4 80-120 Chloride 10 100 0 102 Analysis Date: 6/29/2018 02:00 PM LCS2 Sample ID: LCS2-120579-120579 Units: mg/Kg Client ID: Run ID: GALLERY_180629C SeqNo: 5121348 Prep Date: 6/28/2018 DF: 1 SPK Ref Control RPD Ref RPD Limit Value Value Limit %RPD Qual Analyte Result POL SPK Val %REC 508.3 0 0 10 80-120 Chloride 500 102 18061848-18061848-18061848-The following samples were analyzed in this batch: 01A 02A 03A 18061848-18061848-18061848-

04A

05A

06A

HRL Compliance Solutions, Inc

Work Order:

18061848

Project:

Whiptail Midstream lic. 7-1 CDP

Batch ID: R239171	Instrument ID MO	IST		Metho	d: SW35	50C					
MBLK	Sample ID: WBLKS-R2	39171				Units: %	of sample	Analys	sis Date: 6	6/28/2018 0	2:45 PM
Client ID:		Run ID	: MOIST	_180628B		SeqNo: 51	20304	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		U	0.050								
LCS	Sample ID: LCS-R2391	71				Units: %	of sample	Analys	is Date: 6	6/28/2018 0	2:45 PM
Client ID:		Run ID	: MOIST	_180628B		SeqNo: 51	20303	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		100	0.050	100		0 100	99.5-100	.5 0			
DUP	Sample ID: 18061815-0	1A DUP				Units: %	of sample	Analys	is Date: 6	6/28/2018 0	2:45 PM
Client ID:		Run ID	: MOIST	_180628B		SeqNo: 51	20291	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		16.09	0.050	0		0 0	0-0	16.05	0.249	9 10	
DUP	Sample ID: 18061815-0	5A DUP				Units: %	of sample	Analys	is Date: 6	6/28/2018 0	2:45 PM
Client ID:		Run ID	MOIST	_180628B		SeqNo: 51	20296	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture		16.42	0.050	0		0 0	0-0	16.61	1.15	5 10	
The following samp	oles were analyzed in thi	s batch:	18	3061848- 1A 3061848-	02	8061848- 2A 8061848- 5A	03	061848-			

ALS Laboratory Group 3352 128th Ave. Holland, MI 49424 TF: (1-816-399-4070) FPt 616-399-6185

Chain-of-Custody

WORKORDER | 8

18041848

Form 292r8 PAGE SAMPLER Gunnar Westerman DATE 6/27/2018 SITE ID 7-1 CDP TURNAROUND By Lab or Return to Client PROJECT NAME | Whichall Midstream No. 7-1 CDP -nVF1816448793 RUSH DISPOSAL PROJECT No. N/A **EDD FORMAT** PURCHASE ORDER BILL TO COMPANY Whiptail Midstream LLC. COMPANY NAME HRL COMPLIANCE SOLUTIONS Inc. BENZENE (Method 8021) SEND REPORT TO Brian Skyles/Gunnar Westerman INVOICE ATTN TO Ernie Johnston MRO (Method 8015) DRO (Method 8015) GRO ((Method 8015) CHLORIDES (Method BTEX (Method 8021) ADDRESS 504 9 Bloomfield Blvd 65 Mercado St. Suite 109 **ADDRESS** CITY / STATE / ZIP | Bloomfield, NM 87413 Durango, CO 81301 CITY / STATE / ZIP PHONE | 948-949-7850 PHONE 970-259-0926 FAX 970-259-0971 E-MAIL emie.johnson@whlptailmidstream.com E-MAIL bskyles@hrlcomp.com Sample Sample # Field ID Matrix QĊ Lab ID Pres. Date Time Bottles S 6/27/2018 XXXXXX 9:34 NA X X X X X X 2 A2N S 6/27/2018 9:58 1 NA S XXXXXX A2S 6/27/2018 9:58 1 NA 3 4 A3N S 6/27/2018 10:15 NA XX XXXX 1 A3S S 6/27/2018 10:15 N/A XX XXXX 5 1 S 6/27/2018 11:06 N/A XX X χ X X Background Sample 1

"Time Zone (Circle): EST CST MST PST Matrix: 0 = oil S = soil NS = non-soil solid W = water L = liquid E = entract F = filter

Comments:						ŀ	OC PACE	(AGE (check	i below)
	_		50.0	2 .	70			LEVEL II (S	tandard QC)
			502	216				LEVEL III (S	Std QC + forms
					0			LEVEL IV (S + raw data)	Std QC + forms
Preservative Key:	140	2-HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Other	8-4 de	grees C	9-5035

	SIGNATURE	PRINTED NAME	DATE	TME
RELINQUISHED BY	Bur Ste	Brian Skyles	6/27/2018	3:07 pm
RECEIVED BY	FED. 6x			
RELINQUISHED BY	- FGD GV			
RECEIVED BY		Drone & Show	6/28/18	0830
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL - DURANGO			Date/Time R	Receive	d: <u>28-</u>	Jun-18	08:30	
Work Order: <u>18061848</u>			Received by	y :	DS			
Checklist completed by Lane Sham esignature	28-Jun-18 Date		Reviewed by:	Chad	Whelto.	n		28-Jun-18
Matrices: Soil Carrier name: FedEx								
Shipping container/cooler in good condition?	Yes	~	No	Not	t Present			
Custody seals intact on shipping container/cooler?	Yes		No	Not	t Present	~		
Custody seals intact on sample bottles?	Yes		No	Not	t Present	~		
Chain of custody present?	Yes	v	No					
Chain of custody signed when relinquished and red	ceived? Yes	v	No					
Chain of custody agrees with sample labels?	Yes	~	No				*	
Samples in proper container/bottle?	Yes	v	No					
Sample containers intact?	Yes	v	No					
Sufficient sample volume for indicated test?	Yes	v	No					
All samples received within holding time?	Yes	v	No					
Container/Temp Blank temperature in compliance?	Yes	v	No					
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes 3.2/3.2		No		SR2			
Cooler(s)/Kit(s):	5.275.2				SINZ			
Date/Time sample(s) sent to storage:	6/28/20)18 1	1:13:12 AM					
Water - VOA vials have zero headspace?	Yes		No	No VOA	A vials sub	mitted	~	
Water - pH acceptable upon receipt?	Yes		No a	N/A	~			
pH adjusted?	Yes		No	N/A	✓			
pH adjusted by:	-							
Login Notes:								
Client Contacted: Di	ate Contacted:		Person (Contact	ed:			
Contacted By: Re	egarding:							
Comments:								
CorrectiveAction:								