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

Name of Company: Williams Four Corners LLC

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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.

Initial Report

Release Notification and Corrective Action

OPERATOR

Contact: Kijun Hong

Address: 1755 Arroyo Dr., Farmington, NM 87413	Г	Telephone No.: (505) 632-4475						
Facility Name: Sims Mesa Compressor Station	F	Facility Type: Glycol Dehydration Unit						
Surface Owner: BLM Mineral	Owner				BLM P	roject No. NMNM81378		
LOCA	TION	OF REI	LEASE					
Unit Letter Section Township Range Feet from the 30N 7W	North/S	South Line	Feet from the	East/We	st Line	County Rio Arriba		
Latitude <u>36.</u>	805198	Longitude	-107.549568					
	URE (OF RELE						
Type of Release: Natural Gas and Glycol		Volume of 65.7 MCF	Release: <mark>Natural Gas</mark>			decovered: atural Gas		
		10 gallons				mpacted soil removed.		
Source of Release: Nipple on the dehy glycol pump broke.		Date and He 5/14/2018 (our of Occurrence a 4:45 PM	1000		Hour of Discovery: @ 4:45 PM		
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Rec	quired	If YES, To	Whom? NA			NMOCD		
By Whom? NA		Date and Ho	our: NA			JUL 13 2018		
Was a Watercourse Reached? ☐ Yes ☑ No		If YES, Vol	lume Impacting th	ne Waterco	ourse.	PASTRICT III		
If a Watercourse was Impacted, Describe Fully.* NA								
Describe Cause of Problem and Remedial Action Taken.* The nipple on the glycol recirculation pump on the dehydration surrounding area. Upon discovery, the release was isolated and Describe Area Affected and Cleanup Action Taken.* Approximately 8' X 5' area impacted by glycol mist. 5 yards of remediation standards based on location risk ranking. Please s	d the del f impact see furth	hy unit was l ted soil was r ter documen	bypassed and puremoved. Confir tation attached.	t out of se	ervice. imple re	sults show levels below		
I hereby certify that the information given above is true and comple regulations all operators are required to report and/or file certain re public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and report the environment. In addition, NMOCD acceptance of a C-141 refederal, state, or local laws and/or regulations.	elease not rt by the i emediate	tifications and NMOCD ma contaminatio	d perform correct arked as "Final Re on that pose a thre	ive actions port" does	s for rele s not relie	ases which may endanger eve the operator of liability . surface water, human health		
Signature:	A	pproved by I	OIL CONS		TION	DIVISION		
Printed Name: Kijun Hong)an	2	0	_		
Title: Environmental Specialist	A	pproval Date	5/23/18	Exp	oiration I	Date:		
E-mail Address: kijun.hong@williams.com	C	onditions of	Approval:			Attached		
Date: 7/9/2018 Phone: (505) 632-4475								
Attach Additional Sheets If Necessary		MA.	F1890	43	622	12		

Remediation Excavation and Sampling Form

Site Name	sims m	resa co	P		
Excavation Di	mensions (feet)			
8	Length	5	Width	20'	Depth
	agram and Sam te features, excavat	ple Locations ion extents, visual o	bservations, sample	locations, no	th arrow, etc.)
	Delt	y #1			
(OX X S	,			
Sample Informa	ation				
OCD Witness Sa Agency(s) Repre				***************************************	
Sample ID	Sample Date	Type		idewell)	Commonte

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
5ims mesa	6-4-18	composite	F1000	
	·			



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

June 26, 2018

Kijun Hong Williams Field Services 1755 Arroyo Dr., Bloomfield, NM 87413

TEL: (505) 632-4442

FAX

RE: DeHY 1 Sim Mesa Glycol Spill

OrderNo.: 1806142

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/5/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1806142

Date Reported: 6/26/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

DeHY 1 Sim Mesa Glycol Spill

Lab ID: 1806142-001

Project:

Matrix: SOIL

Client Sample ID: Sims mesa comp Pelty#1 Collection Date: 6/4/2018 9:00:00 AM Received Date: 6/5/2018 7:00:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 45 30 mg/Kg 6/22/2018 12:42:08 AM 38805 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 69 10 mg/Kg 6/7/2018 9:30:30 PM 38523 Motor Oil Range Organics (MRO) 79 50 mg/Kg 6/7/2018 9:30:30 PM 1 38523 Surr: DNOP 109 70-130 %Rec 6/7/2018 9:30:30 PM 38523 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 47 mg/Kg 6/6/2018 8:06:41 PM 38499 1 Surr: BFB 93.8 15-316 %Rec 6/6/2018 8:06:41 PM 38499 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 6/6/2018 8:06:41 PM 38499 Toluene ND 0.047 mg/Kg 1 6/6/2018 8:06:41 PM 38499 Ethylbenzene ND 0.047 mg/Kg 6/6/2018 8:06:41 PM 38499 Xylenes, Total ND 0.095 mg/Kg 6/6/2018 8:06:41 PM 38499 Surr: 4-Bromofluorobenzene 103 80-120 %Rec 6/6/2018 8:06:41 PM 38499

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1806142

26-Jun-18

Client:

Williams Field Services

Project:

DeHY 1 Sim Mesa Glycol Spill

Sample ID MB-38805

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 38805

PQL

1.5

RunNo: 52139

Prep Date: 6/20/2018

Analysis Date: 6/21/2018

SeqNo: 1708587

Units: mg/Kg

Analyte

Result ND SPK value SPK Ref Val

%REC

LowLimit HighLimit %RPD **RPDLimit**

Qual

Chloride

Client ID:

Prep Date:

SampType: Ics Batch ID: 38805 TestCode: EPA Method 300.0: Anions RunNo: 52139

SeqNo: 1708588

Units: mg/Kg

Analyte

6/20/2018

Analysis Date: 6/21/2018

SPK value SPK Ref Val

LowLimit

HighLimit

RPDLimit

Qual

Result

1.5

PQL

%RPD

Chloride

Sample ID LCS-38805

LCSS

14

15.00

%REC 93.5

110

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Е Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1806142

26-Jun-18

Client:

Williams Field Services

Project: DeHY 1	Sim Mesa Glyco	l Spill							
Sample ID MB-38523	SampType: N	IBLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch ID: 3	8523	F	RunNo: 5	1792				
Prep Date: 6/6/2018	Analysis Date: 6	6/7/2018	\$	SeqNo: 1	691851	Units: mg/l	〈 g		
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		102	70	130			
Sample ID LCS-38523	SampType: L	cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 3	8523	F	RunNo: 5	1792				
Prep Date: 6/6/2018	Analysis Date: 6	6/7/2018	8	SeqNo: 1	691852	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52 10	50.00	0	104	70	130			
Surr: DNOP	4.9	5.000		97.6	70	130			
Sample ID 1806142-001AMS	SampType: M	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: Sims mesa comp	P Batch ID: 38	3523	F	RunNo: 5	1792				
Prep Date: 6/6/2018	Analysis Date: 6	/7/2018	S	SeqNo: 16	691874	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	88 10	50.35	69.03	37.1	62	120			S
Diesel Range Organics (DRO) Surr: DNOP	88 10 5.5	50.35 5.035	69.03	210/4/2015/7					S
	5.5	5.035		37.1 110	62 70	120	esel Range	o Organics	S
Surr: DNOP	5.5 D SampType: M	5.035 SD	Tesi	37.1 110	62 70 PA Method	120 130	esel Rango	e Organics	S
Surr: DNOP Sample ID 1806142-001AMSI	5.5 D SampType: M	5.035 SD 3523	Tesi R	37.1 110 Code: EF	62 70 PA Method 1792	120 130		e Organics	S
Surr: DNOP Sample ID 1806142-001AMSI Client ID: Sims mesa comp Prep Date: 6/6/2018 Analyte	D SampType: M P Batch ID: 38 Analysis Date: 6 Result PQL	5.035 SD 8523 /7/2018 SPK value	Test R S SPK Ref Val	37.1 110 Code: EF tunNo: 51 SeqNo: 16	62 70 PA Method 1792	120 130 8015M/D: Di		e Organics RPDLimit	S Qual
Surr: DNOP Sample ID 1806142-001AMSI Client ID: Sims mesa comp Prep Date: 6/6/2018	5.5 D SampType: M P Batch ID: 38 Analysis Date: 6	5.035 SD 8523 /7/2018 SPK value	Tesi R S	37.1 110 Code: EF LunNo: 51	62 70 PA Method 1792 591875	120 130 8015M/D: Di Units: mg/K	(g		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits

Page 3 of 5

- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1806142

26-Jun-18

Client:

Williams Field Services

Project:

DeHY 1 Sim Mesa Glycol Snill

Troject. Dell'i	Silli iviesa	Glycor	Spili					*		
Sample ID MB-38499	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 384	199	F	RunNo: 5	1763				
Prep Date: 6/5/2018	Analysis D	ate: 6/0	6/2018	5	SeqNo: 1	690527	Units: mg/h	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							,	
Surr: BFB	940		1000		94.2	15	316			
Sample ID LCS-38499	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 384	199	F	RunNo: 5	1763				
Prep Date: 6/5/2018	Analysis D	ate: 6/6	6/2018	S	SeqNo: 1	690528	Units: mg/k	(g		
Analyte	Result	PQL ₄	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	75.9	131			
Surr: BFB	1100		1000		112	15	316			

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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits

Page 4 of 5

- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1806142

26-Jun-18

Client:

Williams Field Services

Project:

DeHY 1 Sim Mesa Glycol Spill

Sample ID MB-38499	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 38	499	F	RunNo: 5	1763				
Prep Date: 6/5/2018	Analysis D	ate: 6/	6/2018	8	SeqNo: 1	690565	Units: mg/K	(g		
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	1.1		1.000		106	80	120			

Sample ID LCS-38499	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 38	499	F	RunNo: 5	1763				
Prep Date: 6/5/2018	Analysis D	ate: 6/	6/2018	8	SeqNo: 1	690566	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	77.3	128			
Toluene	0.93	0.050	1.000	0	92.6	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	92.5	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	94.8	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

- * 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 Quanitative 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
- Page 5 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

WILLIAMS FIELD SERVI Client Name: Work Order Number: 1806142 RcptNo: 1 Received By: Anne Thorne 6/5/2018 7:00:00 AM Completed By: Isaiah Ortiz 6/5/2018 9:56:01 AM Reviewed By: : 5BOC/63 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🗸 NA 🗆 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes V No 🗆 6. Sufficient sample volume for indicated test(s)? No T 7. Are samples (except VOA and ONG) properly preserved? No 🗆 V 8. Was preservative added to bottles? No V Yes NA 🗆 9. VOA vials have zero headspace? No 🗌 No VOA Vials 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 12. Are matrices correctly identified on Chain of Custody? Adjusted? No 🗆 13. Is it clear what analyses were requested? No 🗌 Yes V 14. Were all holding times able to be met? Yes V No 🗌 Checked by (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No . NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information

Seal Date

Signed By

Cooler No Temp ℃

1.0

Good

Condition | Seal Intact | Seal No

Chain	-of-Cu	ustody Record	Turn-Around	Time:																
WFS	5		☑ Standard	□ Rush	1				_							- 1				
		1	Project Name		DeH	4#1										1		414	UR	. #
Address	:1755	ARRAYA DR	sim n	1 850 /-				490	11 H:							1	7100			
om Fig	eld N	m 87413	Project #:	10540	110013	1 - 1 -								-				(*		
#.505	-632-	•	1				Bi		. 00		001			-	and the latest and th			Širis.		
or Fax#: /	(:JUN-H	long @ willians - LOA	Project Mana	ger:			((5)	(Q)		T	T	04)						T	
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	□ Othe	ar	Sampler: M	organ Ki	11100		E	古		£.	= 1		8	808						Î
							+	+	GRC	418	1504	SE	No.	les/		10A	9			Yor
Time	Matrix	Sample Request ID				No.	STEX + MFB	3TEX + MTB	PH 8015B (rPH (Method	EDB (Method	SCRA 8 Met	Anions (F,CI,	3081 Pesticio	3260B (VOA)	270 (Semi-V	Mond			Air Bubbles (Y or N)
0900	Soil	Sims mesa comp.	1-402	Copl					-			+		-		85	X	\dashv	+	1
	0			000,0		<u> </u>	-	\neg			+	\dagger	\vdash				1	_	\dashv	+
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	Address Om Fig #: 508 prackage: ndard ditation AP O(Type) Time 0900	Address: 1753 OMField N #:505-632- or Fax#: K: Jun H Package: Indard Ilitation AP	Address: 1755 ARROYO DR OMFICIA NM 87413 #:505-632- OFFAX#: K: JN- Hong @ w://GAS - LOA Package: Indard	Standard Project Name Address: 755 ARROYO DR OMFICIAL NM 37413 #.505-632- OFFAX#: K: JN Hong & W: longs - Long Project Mana Package: Indard Level 4 (Full Validation) Container Time Matrix Container Type and # OFOO Soil Container Type and #	WFS Standard Rush Project Name: GAddress: 755 ARROYO DR SIM MC50. GE Project #: Project Manager: Most of the standard Sample: Most of the standard Project Manager: Project Manag	Standard Rush Project Name: De H Address: 755 ARROYO DR Sim Mesa 6- 4 co 5 Om Field Nm 37 413 Project #: #: 505-632 - Dr Fax#: K: y.m. Hong W:	Standard Rush Project Name: DeHY#1 Sim Mesa 6-19co SP:// Project Name: DeHY#1 Sim Mesa 6-19co SP:// Project #: #505-632 - Dr Fax#: K: Jwh Howg @ w:// ans - Long Project Manager: Pro	Standard Rush Project Name: DeHY#1 Stim MeSoc 6 Yeo SP: Om Field Nom 87 413 Project #: STOST-632 - OF Fax#: K: J. N. Hong @ w: Vas - Container Project Manager: Project Manager:	Standard Rush Project Name: Detty # 1 And Address: 755 ARRAYO DR Project Name: Detty # 1 And Address: 755 ARRAYO DR Project #: To Fax#:	W/Standard Rush Project Name: De HY # A901 His So So Sim Mesa Sim Sim Mesa Sim Sim Mesa Sim Sim Mesa Sim Sim	Definition Def	Signature Rush Project Name: De HY#I ANA A	Standard Rush Project Name: Deff of the project Na	Address: 755 AR 650 DR Sim M & So & 4 40 Sp:// OM Field Nm 87 4/3 Project Manager: Project Manager: Address: 755 AR 650 DR Sim M & So & 4 40 Sp:// Project #: Text #: (1 JN - Hong @ Willians - Long Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager:	Address: 755 ARBYO DR SIM McSa G YCo SP:	WFS ST standard Rush Project Name: DeHTT Www.hallenvironmental.cd Analysis Ray Sob-345 Analysis Ray	Rystandard	WFS Deferment Rush Project Name: Deferment Deferment Rush Project Name: Deferment Rush Rush Project Name: Rush Project Name: Rush Project Name: Rush Project Name: Rush Rush	Address: 755 ARBS DR DR Sim MeSo. Green Gree	By Standard Rush Project Name: Detect Free Project Projec

Ranking Score Determination

Site Name: Sims Mesa Compressor Station

Legal Description: Unit A, Section 22, T30N, R7W

GPS Coordinates: 36.805198, -107.549568

Ranking Score based on NMOCD Guidelines for Remediation of Leaks, Spills, and Releases dated August 13, 1993.

Depth to Ground - The operator should determine the depth to ground water at each site. The depth to ground water is defined as the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water. If the exact depth to ground water is unknown, the ground water depth can be estimated using either local water well information, published regional ground water information, data on file with the New Mexico State Engineer Office or the vertical distance from adjacent ground water or surface water.

Notes: The nearest data for depth to ground water is from a location 4,953.3ft to the NW at an elevation of 6,258ft and a depth to ground water of 250ft. Given that the release location is at 6,276ft of elevation, it is assumed the depth to ground water at the release location is 268ft.

Depth to Groundwater	<50 feet	50 – 99 feet	>100 feet
Ranking Score (circle one)	20	10	0

Wellhead Protection Area - The operator should determine the horizontal distance from all water sources including private and domestic water sources. Water sources are defined as wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes.

Notes: There are no water sources within 1000ft of the release location.

Wellhead Protection Area	<1000 from a water source; or <200 feet f	from a private domestic water source
Ranking Score (circle one)	Yes → 20	(No → 0)

Distance To Nearest Surface Water Body - The operator should determine the horizontal distance to all downgradient surface water bodies. Surface water bodies are defined as perennial rivers, streams, creeks, irrigation canals and ditches, lakes, ponds and playas.

Notes: Nearest surface water is an ephemeral stream 657.5 ft to the west.

Distance to Surface	<200 horizontal feet	200 – 1,000	>1,000 horizontal feet
Water Body		(horizontal feet)	
Ranking Score (circle one)	20	10	0

Remediation Action Levels

Ranking Score (Circle One)	>19	10 - 19	0 - 9
Benzene		10 mg/kg	
BTEX (total)		50 mg/kg	
TPH (GRO and DRO)	100 mg/kg	1,000 mg/kg	5,000 mg/kg

Ranking Completed by: Kijun Hong

Date: 7/6/2018

Sources:

GPS Conversion Tool

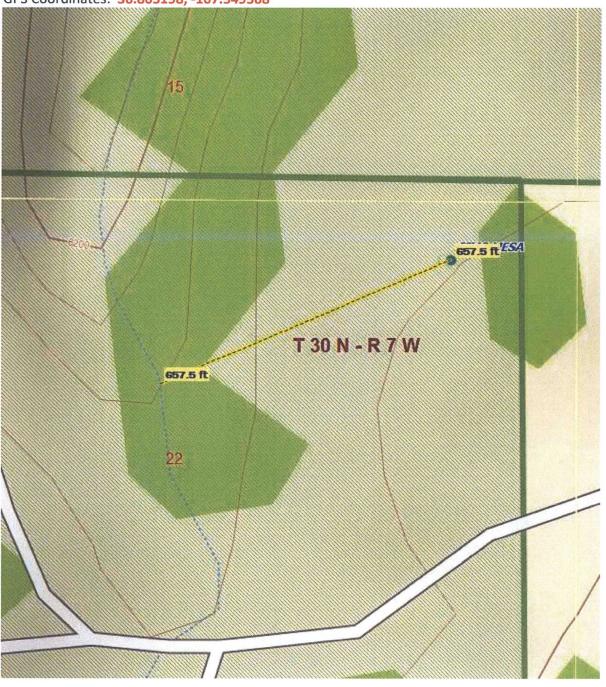
New Mexico Water Rights Reporting System - Water Column/Average Depth to Water Report

New Mexico Oil and Gas Map

Ranking Score Determination

Site Name: Sims Mesa Compressor Station
Legal Description: Unit A, Section 22, T30N, R7W

GPS Coordinates: 36.805198, -107.549568





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													
	1980 E.S	Sub-			Q										Vater
POD Number	Code		County	64					0	X	Y	DistanceDept	hWellDep 402		
<u>SJ 02698</u>		SJ	RA		1	3	15	30N	07W	271173	4076962*	1531	402	255	147
<u>SJ 03640</u>		SJ	RA	1	1	3	15	30N	07W	271072	4077061*	1666	433	241	192
<u>SJ 02366</u>		SJ	RA		1	3	15	30N	07W	271062	4077047	1669	345	225	120
SJ 03946 POD1		SJ	RA	4	2	4	15	30N	07W	270941	4076902	1721	455	285	170
SJ 03006		SJ	RA	3	3	1	24	30N	07W	274255	4075564*	1853	100		
SJ 03082		SJ	RA	1	1	3	24	30N	07W	274244	4075362*	1932	98	61	37
SJ 03485		SJ	RA	1	1	3	24	30N	07W	274244	4075362*	1932	126	60	66
SJ 02818		SJ	RA	2	1	3	24	30N	07W	274444	4075362*	2109	86	42	44
SJ 03773 POD1		SJ	RA	2	1	3	24	30N	07W	274444	4075362*	2109	120	70	50
SJ 04202 POD1		SJ	RA	2	1	3	24	30N	07W	274488	4075418	2124	140	72	68
SJ 03075		SJ	RA	1	2	1	25	30N	07W	274626	4074548*	2712	165	78	87
SJ 03053		SJ	RA	4	4	3	24	30N	07W	274836	4074750*	2757	200		
SJ 03774 POD1		SJ	RA	3	3	1	25	30N	07W	274214	4073956*	2869	300	220	80
SJ 02983		SJ	RA	3	4	1	25	30N	07W	274616	4073946*	3127	262	40	222
SJ 03385		SJ	RA	4	4	4	17	30N	07W	269251	4076513*	3307	520	460	60
CR 04696	R	CR								275861	4076163	3311	80	26	54
SJ 00837		SJ	RA		4	4	17	30N	07W	269152	4076614*	3414	400		
SJ 00035		SJ	RA	2	2	4	33	30N	07W	270745	4072250*	4430	547	467	80
SJ 03301		SJ	SJ	4	4	4	34	30N	07W	272344	4071603*	4696	21	10	11
											Avera	ge Depth to Wate	r:	163 fe	et

Average Depth to Water:

Minimum Depth:

Maximum Depth:

10 feet 467 feet

Record Count: 19

UTMNAD83 Radius Search (in meters):

Easting (X): 272551.8

Northing (Y): 4076295.2

Radius: 5000

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.

7/6/18 12:38 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

SJ 02698

Q64 Q16 Q4 Sec Tws Rng 1 3 15 30N 07W

X 271173 4076962*

Driller License:

1374

Driller Company:

GLOVER, PAUL A

Driller Name:

GLOVER, PAUL A.

Drill Start Date: 05/02/1996

Drill Finish Date:

05/18/1996

Plug Date:

Log File Date:

05/31/1996

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Depth Water:

Estimated Yield: 10 GPM

Casing Size:

5.00

Depth Well:

402 feet

255 feet

Water Bearing Stratifications:

Top

250

385

Bottom Description

260 Other/Unknown

402 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

365 384

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, or suitability for any particular purpose of the data.

7/6/18 12:39 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

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 NMOCD

☐ Initial Report

Schedule Site | Sampling of Hour Prior to Samping.

Form C-141 MAY 2 9 2018 Revised August 8, 2011

Final Report

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

Release Notification and Corrective Action

OPERATOR

Name of Company: Williams Four Corners LLC	Contact: Kijun Hong								
Address: 1755 Arroyo Dr., Farmington, NM 87413	Telephone No.: (505) 632-4475								
Facility Name: Sims Mesa Compressor Station	Facility Type: Glycol Dehydration	n Unit							
Surface Owner: BLM Mineral Ow	wner BLM Project No. NMNM81378								
ourrace Owner. DEM	IICI	BLM Floject No. NWINWISTS/8							
LOCATIO	ON OF RELEASE								
	rth/South Line Feet from the East/V	West Line County							
A 22 30N 7W		Rio Arriba							
Latitude <u>36.805</u>	198 Longitude <u>-107.549568</u>								
	E OF RELEASE								
Type of Release: Natural Gas and Glycol	Volume of Release:	Volume Recovered:							
	65.7 MCF Natural Gas	0 MCF Natural Gas							
	10 college of cheed	Danain/alan and in annuar							
Source of Release: Nipple on the dehy glycol pump broke.	10 gallons of glycol Date and Hour of Occurrence:	Repair/clean up in progress Date and Hour of Discovery:							
or the delig gifter paint broker	5/14/2018 @ 4:45 PM	5/14/2018 @ 4:45 PM							
		9							
Was Immediate Notice Given?	If YES, To Whom? NA								
☐ Yes ☐ No ☒ Not Require	ed								
By Whom? NA	Date and Hour: NA								
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse. NA								
☐ Yes ☒ No	and the second s								
If a Watercourse was Impacted, Describe Fully.* NA									
The Waterboards Water Impacted, December 1 and 1									
Describe Cause of Problem and Remedial Action Taken.*									
The nipple on the glycol recirculation pump on the dehydration un									
surrounding area. Upon discovery, the release was isolated and the Describe Area Affected and Cleanup Action Taken.*	e dehy unit was bypassed and put out o	f service.							
Approximately 15' X 20' area impacted by glycol mist. Repair/clea	n up is currently in progress.								
I hereby certify that the information given above is true and complete to	the best of my knowledge and understar	nd that pursuant to NMOCD rules and							
regulations all operators are required to report and/or file certain release	e notifications and perform corrective acti	ions for releases which may endanger							
public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed	the NMOCD marked as "Final Report" d	loes not relieve the operator of liability							
or the environment. In addition, NMOCD acceptance of a C-141 repor	t does not relieve the operator of responsi	bility for compliance with any other							
federal, state, or local laws and/or regulations.	t does not reme to the operator of responsi	ionicy for compliance with any other							
11 12	OIL CONSERV	ATION DIVISION							
Signature:	Approved by Environmental Specialist	:							
oiginuis.	-								
Printed Name: Kijun Hong									
Title: Environmental Specialist	Approval Date:	Expiration Date:							
E mail Addragg kijun hang@williams aan	Conditions of Approved								
E-mail Address: kijun.hong@williams.com	Conditions of Approval:								
Date: 5/23/2018 Phone: (505) 632-4475									
Attach Additional Sheets If Necessary	NITIGIAL	11150							

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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 August 8, 2011

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.

			Rele	ease Notific	eation	and Co	rrective A	ction				
						OPERA	ΓOR	Initi	al Report	\boxtimes	Final Report	
Name of Co						Contact: Ki						
Address: 17 Facility Nar				M 87413		Telephone N Facility Typ	No.: (505) 632-4	1475				
			ipeinie				e: Fipeline					
Surface Ow	ner: Jicari	lla Tribe		Minera	Owner	•			BLM P	roject No.		
				LOCA		OF REI	LEASE	East/We				
Unit Letter P	Section 6	Township 25N	Range 6W	Feet from the	North/	South Line	County Rio Arrib	a				
							-107.396082					
T CD 1	B1 11			NAT	URE	OF RELI						
Type of Relea	ase: Pipelin	e leak				Volume of	Release: Natural Gas			Recovered:		
						1.77 Met	Matural Gas		WICE I	iaturai Gas		
						30 yards o removed.	f impacted soil	3	30 yards	of impacted	l soil r	emoved.
Source of Rel	ease: Faile	d pipeline					our of Occurrence		Date and	Hour of Dis	covery:	
						6/28/2018	@ 10:30AM	6	5/28/2018	8 @ 10:30A	M	
Was Immedia	te Notice G		Yes \square	No 🛛 Not Re	auired	If YES, To	Whom? Courte	esy Notific	cation en	mail sent 6/2	9/2018	
By Whom?	NA			_	1	Date and H	our: NA					
Was a Watero	ourse Reac					If YES, Vo	lume Impacting tl	he Watero	course.	NA		
10 4			Yes 🛚	No								
If a Watercou	rse was Imp	acted, Descri	be Fully.*	NA								
Describe Cause Failure in the				Taken.* ection of pipe wa	s isolate	d and blown	down.					
Describe Area 30 yards of in	Affected a	nd Cleanup A	ction Tak	en.* onfirmation sam	ples coll	ected and an	alyzed. Please s	ee attach	ments fo	r further de	etails.	
regulations all public health should their o	or the environment of the control of the environment of the control of the contro	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	tifications an NMOCD ma contamination	knowledge and und perform correct arked as "Final Report that pose a three the operator of r	tive action eport" doe eat to grou	ns for rele s not reli	eases which ieve the oper r, surface wa	may en ator of ter, hu	danger liability nan health
	1	10					OIL CONS	SERVA	TION	DIVISIO	N	
	KÄ	~ AA			A	nnroved by	Environmental Sp	pecialist				
Signature:	. 0					ippro ca o		Columb	7			
Printed Name	Kijun Ho	ng					- Ou	X				
Title: Environ	nmental Sp	ecialist			A	approval Date	8/16/18	Date:				
E-mail Addres	ss: kijun.h o	ong@williams			Conditions of	Approval:		Au-1-1 [
Date: 8/9/201			e: (505) 63							Attached	Ц	
Attach Addit	ional Shee	ts If Necessa	ry	WK	181	984/21	44/0	NMOC	0	ALC: UNITED STATE OF THE PARTY		

AUG 1 6 2018

DISTRICT III



Remediation Excavation and Sampling Form

Site Name AXI APache J-9
Excavation Dimensions (feet)
15Length12Width 7Depth
Excavation Diagram and Sample Locations (Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)
11
X7' DecP X X 5' DecP X X Floor 15
Sample Information
OCD Witness Sampling Yes or No Jicarilla EPO Agency(s) Representative(s) Hobson Sandoval

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
J-9 sidewolls	07-12-18	composite	side walls	0.00 PM
J-9 Floor	07-12-18	composite	Floor	0.00 PM
				•



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

OrderNo.: 1807686

July 17, 2018

Kijun Hong Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: AXI Apache J-9

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/13/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1807686

Date Reported: 7/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: AXI Apache J-9

Lab ID: 1807686-001

Client Sample ID: AXI Apache J-9 Sidewalls

Collection Date: 7/12/2018 12:10:00 PM

Received Date: 7/13/2018 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	590	30		mg/Kg	20	7/13/2018 1:35:13 PM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/13/2018 10:14:46 AM	39192
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2018 10:14:46 AM	39192
Surr: DNOP	97.0	70-130		%Rec	1	7/13/2018 10:14:46 AM	39192
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Surr: BFB	90.4	15-316		%Rec	1	7/13/2018 9:37:56 AM	39176
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.019		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Toluene	ND	0.038		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Ethylbenzene	ND	0.038		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Xylenes, Total	ND	0.076		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	7/13/2018 9:37:56 AM	39176

Matrix: SOIL

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

- 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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 6 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1807686

Date Reported: 7/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: AXI Apache J-9

Lab ID: 1807686-002

Client Sample ID: AXI Apache J-9 Floor

Collection Date: 7/12/2018 12:15:00 PM

Received Date: 7/13/2018 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	970	30		mg/Kg	20	7/13/2018 1:47:38 PM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	Irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/13/2018 10:36:49 AM	39192
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2018 10:36:49 AM	39192
Surr: DNOP	101	70-130		%Rec	1	7/13/2018 10:36:49 AM	39192
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Surr: BFB	88.6	15-316		%Rec	1	7/13/2018 10:01:18 AM	39176
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.017		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Toluene	ND	0.034		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Ethylbenzene	ND	0.034		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Xylenes, Total	ND	0.068		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	7/13/2018 10:01:18 AM	39176

Matrix: SOIL

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

- 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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1807686

17-Jul-18

Client:

Williams Field Services

Project:

AXI Apache J-9

Sample ID MB-39196

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 39196

RunNo: 52688

Units: mg/Kg

HighLimit

Prep Date: 7/13/2018

Analysis Date: 7/13/2018

SeqNo: 1729903

%RPD

%RPD

Qual

Analyte Chloride

Result PQL ND 1.5

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39196

RunNo: 52688

Prep Date: 7/13/2018

Sample ID LCS-39196

Analysis Date: 7/13/2018

SeqNo: 1729904

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

RPDLimit Qual

RPDLimit

Analyte

Result

PQL SPK value SPK Ref Val

95.2

%REC

90

LowLimit

Chloride

14

1.5 15.00

HighLimit 110

- 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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Page 3 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1807686

17-Jul-18

Client:

Williams Field Services

Project:

AXI Apache J-9

Sample ID MB-39192	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 39	192	F	RunNo: 52681						
Prep Date: 7/13/2018	Analysis Date: 7/13/2018			8	SeqNo: 1	729526	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	9.5		10.00		94.9	70	130				
Sample ID LCS-39192	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batch	ID: 39	192	R	RunNo: 5	2681					
Prep Date: 7/13/2018	Analysis D	ate: 7/	13/2018	S	SeqNo: 1	729527	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	70	130				
Surr: DNOP	4.6		5.000		91.5	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 Quanitative 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

Page 4 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

WO#:

1807686

17-Jul-18

Client:

Williams Field Services

Project:

Sample ID LCS-39176

AXI Apache J-9

Sample ID MB-39176	SampT	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: 39	176	R							
Prep Date: 7/12/2018	Analysis D	ate: 7/	13/2018	S	SeqNo: 1	730183	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	860		1000		85.9	15	316				

Client ID: LCSS	Batch	ID: 39	176	F	RunNo: 5	2672				
Prep Date: 7/12/2018	Analysis D	ate: 7/	13/2018	S	SeqNo: 1	730184	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	75.9	131			
Surr: BFB	1000		1000		102	15	316			

TestCode: EPA Method 8015D: Gasoline Range

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 Quanitative 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

Page 5 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1807686

17-Jul-18

Client:

Williams Field Services

Project:

AXI Apache J-9

Sample ID MB-39176	SampT	ype: ME	BLK	Tes	tCode: E					
Client ID: PBS	Batch	Batch ID: 39176			RunNo: 52672					
Prep Date: 7/12/2018	Analysis D	ate: 7/	13/2018	8	SeqNo: 1	730189	Units: mg/K	g		
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	1.0		1.000		99.5	80	120			
Sample ID LCS-39176	SampT	ype: LC	S	Test	Code: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 391	176	R	unNo: 5	2672				
Prep Date: 7/12/2018	Analysis D	ate: 7/	13/2018	S	eqNo: 1	730190	Units: mg/K	g		

Client ID. LC55	Batci	1 ID: 39	1/6	H	Runno: 52672					
Prep Date: 7/12/2018	Analysis Date: 7/13/2018			S	SeqNo: 1	730190	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	96.1	77.3	128			1
Toluene	0.99	0.050	1.000	0	99.2	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID 1807686-001AM	Sample ID 1807686-001AMS SampType: MS TestCo							tiles		
Client ID: AXI Apache J-9	Client ID: AXI Apache J-9 Side Batch ID: 39176 R									
Prep Date:	Analysis D	ate: 7/	13/2018	S	SeqNo: 1	730193	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.019	0.7599	0	91.4	68.5	133			
Toluene	0.71	0.038	0.7599	0	93.5	75	130			
Ethylbenzene	0.70	0.038	0.7599	0	92.0	79.4	128			
Xylenes, Total	2.1	0.076	2.280	0	94.3	77.3	131			
Surr: 4-Bromofluorobenzene	0.76		0.7599		100	80	120			

Sample ID 1807686-001AM	IAMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: AXI Apache J-9	ent ID: AXI Apache J-9 Side Batch ID: 39176 RunNo: 52672									
Prep Date:	Analysis D	oate: 7/	13/2018	8	SeqNo: 1	730194	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.019	0.7599	0	90.0	68.5	133	1.46	20	
Toluene	0.70	0.038	0.7599	0	92.4	75	130	1.27	20	
Ethylbenzene	0.69	0.038	0.7599	0	90.5	79.4	128	1.60	20	
Xylenes, Total	2.1	0.076	2.280	0	93.3	77.3	131	1.03	20	
Surr: 4-Bromofluorobenzene	0.81		0.7599		107	80	120	0	0	

- 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 Quanitative 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
- Page 6 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORATORY	Website: ww	vw.hallenvironmental	.com		
Client Name: WILLIAMS FIELD SE	RVI Work Order Nur	nber: 1807686		RcptNo	: 1
Received By: Anne Thorne	7/13/2018 8:05:00	АМ	aone An		
Completed By: Anne Thorne	7/13/2018 8:11:30	AM	Aone Sh Aone Sh		
Reviewed By: ENM	7/13/18		Oliva Jor-		
Labeled by! As 07/1	3/18				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the san	nples?	Yes 🗹	No 🗆	NA 🗆	
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
6. Sufficient sample volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) ;	properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials	
10. Were any sample containers received	broken?	Yes	No ☑ [
			-	# of preserved bottles checked	
11. Does paperwork match bottle labels?		Yes 🗹	No 🗆	for pH:	- 10 10
(Note discrepancies on chain of custoo 2. Are matrices correctly identified on Ch.		Yes 🗸	No 🗀	Adjusted?	>12 unless noted)
3. Is it clear what analyses were requeste		Yes 🗹	No 🗆	_	
4. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization	.)		L		
Special Handling (if applicable)					
15. Was client notified of all discrepancies	with this order?	Yes	No 🗆	NA 🗹	
Person Notified:	Date		PRESTORE TAXABLE PARTIES AND PROPERTY.		
By Whom:	Via:	eMail P	hone Fax	In Person	- 18
Regarding:				:	
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
	Seal Intact: Seal No	Seal Date	Signed By.		
1 2.0 Good	Yes				

C	hain	-of-Cu	ustody Record	Turn-Around	Time:									_								
Client:	WFS			□ Standard	☑ Rush	7-13	-18														TAL OR	
				Project Name) :		-								ironr							
Mailing	Address	175	5 ARROYA DR.	AXI /	Apache J	-9			490)1 H	awki								109			
			Nm 87463	Project #:				4			5-34				ax :							
		-632	•					1777					Α	naly	sis	Req	uest	t		225		
email o	r Fax#:	Kijun	- Hong & williams - com	Project Mana	ger:			((Klu	00	41				04)							
QA/QC	Package:		,					FMB's (8021)	+ MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)			(S)		Anions (F,CI,NO3,NO2,PO4,SO4)	PCB's						
□ Stan			☐ Level 4 (Full Validation)	KISUN	HONG			3.s (9	8			SIMS)		PG							
Accredi		C Other	-	Sampler: Me	rgan Kil	lion		FIVE	F		=	=	072		8	808						9
O NEL		□ Othe	er	On Ice:	ZYes	□-No-		+	+	8	418	504	8 70	S	o o	SS		OA)	ر			P
□ EDD	(Type)	Т			identine (5%) I	HERHOS.	2610	中	136	9	bo	bo	100	eta	5	cide	(A))-ir	Ę.,			\\ \chi_{\scale}
Dete	Time	B. 4 - 4 - 5	Comple Description	Container	Preservative	HEAL		+ MTBE	≥ +	015	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	H,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	hloride			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Type and #	Туре	A FILAG	No.	BTEX	BTEX	H 8	I	B	H's	RA	ions	34	30B	02	4			Bark
			2 km 1000/0 T 0	Meather	. "	18076			B	-	유		PA	8	An	8	82(82	U			Ą
1/2/18	1218	5011	Sidewalls	1-402	Cool		-201	X		X	4								X			
1/12/18	12:15	5011	AXI APache J-9 Sidewalls 4X = Afach = J-9 Eloso	1-402	1.		TO2	X		X									X			
			-																	\neg		
																				\neg		
																						1
																				\Box		
										7 10												
											_											
									_	_		_	_		_					_	_	
Date:	Time:	Relinquishe	ed by:	Received by:		Date	Time					·					İ					
7/12/18				Chris	hat	7/2/18 Date	1530	Ken	narks	i:												
Date:	1535 Time:	Relinquishe	& Zillion	Received by:	^		Time															
7/12/18	1801	South	the bolo	1/1/1/10	1 the	TA 13118 _ 0805	_												*			
	necessary	samples subr	mitted to Hall Environmental may be subc	entracted to other ac	predited laboratorie			nneeih	ality A	חע פוו	h contr	nacted	data	ull bo	clearly	, notal	tod on	the m	nahdlar	al ronor	-	

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 August 8, 2011
ubmit 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.

			Rele	ease Notific	eation	and Co	rrective A	ction					
						OPERA	ГOR		⊠ Initia	al Report		Final Report	
Name of Co	mpany: W	illiams Fou	r Corne	rs LLC		Contact: Kijun Hong							
Address: 17	55 Arroyo	Dr., Farmi	ington, N			Telephone No.: (505) 632-4475							
Facility Nan	ne: AXI A	Apache J9 P	ipeline]	Facility Type: Pipeline							
Surface Ow	ner: <mark>Jicar</mark> i	lla Tribe		Minera	l Owner	•			BLM P	roject No.			
				LOCA	TION	OF REI	LEASE						
Unit Letter	Section 6	Township 25N	Range 6W	Feet from the	North/	South Line	Feet from the	East/W	est Line	County Rio Arrib	a		
				Latitude <u>36</u>	.423886	Longitude	-107.396082						
				NAT	URE	OF RELI	EASE						
Type of Relea	ase: Pipelin	e leak				Volume of			Volume F	Recovered:			
						1.79 MCF	Natural Gas		0 MCF N	atural Gas			
						30 yards o	f impacted soil		30 vards	of impacted	l soil re	moved so	
						removed s	o far		far				
Source of Re	lease: Faile	d pipeline					lour of Occurrence			Hour of Dis			
						6/28/2018	a 10:30AM		6/28/2018	3 @ 10:30A	M		
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required						If YES, To	Whom? Courte	esy Notif	ication en	nail sent 6/2	29/2018		
Des Wilson 9	AT A		ies L] 140 🖾 1401 Kg	equired	Date and Hour: NA							
By Whom? NA						Date and H	lour: NA						
Was a Water	course Read		Yes 🗵	1 No		If YES, Vo	lume Impacting t	he Water	rcourse.	NA			
TC TY	T												
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	NA									
		em and Reme		n Taken.* ection of pipe wa	e icolate	d and blowr	down						
					is isolate	cu anu biowi	down.						
		and Cleanup A				oved and so	nfirmation samp	les baye	been null	lad			
I hereby certi	fy that the i	nformation gi	ven above	e is true and comp	lete to th	ne best of my	knowledge and u	nderstan	d that purs	suant to NM	OCD ru	iles and	
regulations a	or the envi	are required to	o report a	nd/or file certain r	elease no	e NMOCD m	nd perform correct arked as "Final Re	etive action	ons for rele oes not reli	eases which ieve the oper	may en	liability	
should their	operations h	ave failed to	adequately	investigate and r	emediate	e contaminati	on that pose a three	eat to gro	ound water	r, surface wa	iter, hun	nan health	
				otance of a C-141	report de	oes not reliev	e the operator of r	responsib	oility for c	ompliance v	vith any	other	
federal, state,	, or local lav	ws and/or regu	nations.				OIL CONS	SFRV	ATION	DIVISIO	N		
	1	~//	5				OIL CON	OLICVI	THOIT	DIVIDIO	711		
Signature:	10) H) (Approved by	Environmental S	pecialist:					
						(/	1				
Printed Name	e: Kijun Ho	ong			-			2					
Title: Enviro	onmental S	pecialist				Approval Dat	e: 1118	E	expiration	Date:			
E-mail Addre	ess: kijun.h	ong@willian	is.com			Conditions of	Approval:			Attached			
								1		Attached			
Date: 7/13/20 * Attach Addi				032-4413	<	- hall	Deer A	100	1000				
					6	cultion	500 G	UL	11801	,)	10	m A	

DISTRICT III

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	The second second
District RP	3891013
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party Willia	ams Four Corner	s LLC	OGRID						
Contact Nam	e Kijun Ho	ong		Contact T	Contact Telephone (505) 632-4475					
Contact emai	l kijun.hong	@williams.com		Incident #	Incident # (assigned by OCD) NCS 18254 364 05					
Contact mail	ing address	1755 Arroyo Dr.,	, Farmington, NM	87413	1402.0010 (24)					
atitude3	66.615481			of Release S Longitude mal degrees to 5 deci	-107.915998					
Site Name Sn	ick Com 32	-2A		Site Type	Pipeline on producer location					
Date Release l	Discovered	8/8/2018		API# (if app	plicable)					
Unit Letter	Section	Township	Range	Cou	nty					
J	The state of the s				n Juan					
Crude Oil	Materia	volume Released	ll that apply and attach call (bbls)	alculations or specific	justification for the volumes provided below) Volume Recovered (bbls)					
N Produced	Water		d (bbls) Unknown	at this time	Volume Recovered (bbls) Remediation in progress					
	Y	Is the concentration	ion of total dissolved vater >10,000 mg/l?	d solids (TDS)	Yes No					
Condensat	e	Volume Released			Volume Recovered (bbls)					
Natural Ga	as	Volume Released	d (Mcf) 503		Volume Recovered (Mcf) 0					
Other (des	cribe)	Volume/Weight 1	Released (provide u	nits)	Volume/Weight Recovered (provide units)					
Cause of Rele Failure of pip		corrosion.								



NMOCD

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	
19.13.29.7(A) NMAC:	Unauthorized release of gases exceeding 500 MCF
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Upon discovery, courtes initial gas loss calculation	y notification was given to Cory Smith and Vanessa Fields via email by Kijun Hong on 8/9/2018. When an n was determined, an update was given by email to include Jim Griswold on 8/29/2018.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the release	ase has been stopped.
The impacted area has	been secured to protect human health and the environment.
X Released materials have	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.
X All free liquids and re	coverable materials have been removed and managed appropriately.
If all the actions described	above have not been undertaken, explain why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
within a lined containmen	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environm	ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investiga	the and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	The second of the position of the compliance with any other reactar, state, or local laws
Printed Name: Kijun	Hong Title: Environmental Specialist
Signatura	
Signature:	Date:
email: kijun.hong@	williams.com Telephone: 505-632-4475
0000	
OCD Only	\mathcal{Y}_{-}
Received by:	Date: 7/11/18
	/

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)						
Did this release impact groundwater or surface water?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No						
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No						
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil						
Characterization Report Checklist: Each of the following items must be included in the report.							
Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody							

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	, i
District RP	
Facility ID	
Application ID	

Remediation Plan

Domadiation Plan Charlists Each of the following it was	
Remediation Plan Checklist: Each of the following items in	must be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.1 Proposed schedule for remediation (note if remediation plane)	
Deferral Requests Only: Each of the following items must be	be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or arou deconstruction.	ound production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human	health, the environment, or groundwater.
rules and regulations all operators are required to report and/or which may endanger public health or the environment. The ac- liability should their operations have failed to adequately inves	omplete to the best of my knowledge and understand that pursuant to OCD or file certain release notifications and perform corrective actions for releases occeptance of a C-141 report by the OCD does not relieve the operator of estigate and remediate contamination that pose a threat to groundwater, OCD acceptance of a C-141 report does not relieve the operator of local laws and/or regulations.
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditio	ons of Approval Denied Deferral Approved
Signature:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following	ng items must be included in the closure report.		
☐ A scaled site and sampling diagram as described in 19.15.	29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)			
Laboratory analyses of final sampling (Note: appropriate 0	ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities			
may endanger public health or the environment. The acceptance their operations have failed to adequately investigate and remediation, human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or research.	Inplete to the best of my knowledge and understand that pursuant to OCD rules or train release notifications and perform corrective actions for releases which the of a C-141 report by the OCD does not relieve the operator of liability should into interest to groundwater, surface water, and a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete. Title:		
Signature:	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		
Closure approval by the OCD does not relieve the responsible paremediate contamination that poses a threat to groundwater, surfaparty of compliance with any other federal, state, or local laws an	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible nd/or regulations.		
Closure Approved by:	Date:		
Printed Name:			
	in the first of the second		

District I
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party

Contact Name

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	1014
Facility ID	
Application ID	

(505) 632-4475

Release Notification

Responsible Party

OGRID

Contact Telephone

Williams Four Corners LLC

Kijun Hong

Contact ema	il	kijun.hong@williams.com		Incident #	(assigned by OCD)	NCS 1828939224	
Contact mail	ling address	1755 Arroyo Dr	., Farmington, NI	M 8741	3		
			Location	of R	elease So	ource	
Latitude		36.504125	(NAD 83 in dec	imal deg	Longitude _ rees to 5 decim	-107.	.303735
Site Name	Lateral D-2	2			Site Type	Pipeline	
Date Release	Discovered	8/30/2018			API# (if app	licable)	Tage Control
Unit Letter	Section 12	Township 22N	Range 5W		Coun Rio Ar		NMOCD SEP 2 0 2018
Surface Owner	r: State	☐ Federal 🛛 Tr	ibal ☐ Private (A	 ame: _			DISTRICT 1,11
		V	Nature and				
Crude Oil	Materia I	Volume Release	that apply and attach of the control	calculation	ons or specific	Volume Recover	
Produced	Water	Volume Release	d (bbls) 25 BBLs l	based o	n	Volume Recovered (bbls) 60 Yards of impacted soil removed	
Is the concentration of dissolved chloride in produced water >10,000 mg/l?			in the				
Condensa	ite	Volume Release	d (bbls)			Volume Recovered (bbls)	
Natural Gas Volume Released (Mcf) 389.9				Volume Recovered (Mcf) 0			
Other (des	Other (describe) Volume/Weight Released (provide units)				Volume/Weight Recovered (provide units)		
Cause of Rele	ease						
Pipeline failu	ure due to c	orrosion.					



State of New Mexico Oil Conservation Division

Incident ID		
District RP	,	
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	Unauthorized release of 25 bbls or more.
☐ Yes ☐ No	
If YES, was immediate no	lotice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate courtesy not	ification was given by email to Cory Smith and Vanessa Fields of the NMOCD by Kijun Hong
(Williams) the same day	the release was discovered. Hobson of the Jicarilla Tribe was notified by telephone the same day as
well by Chris Lucero (V	Villiams). Jim Griswold (OCD) will also be included on all correspondences moving forward.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	agsa has been stonned
	s been secured to protect human health and the environment.
	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
	d above have not been undertaken, explain why:
if all the actions described	MOCD
	GED a a sau
	SEP 2 0 2018
	DISTRICT III
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are i	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environm	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigated addition, OCD acceptance of	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have the and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
failed to adequately investigated	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigated addition, OCD acceptance of	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have the and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Kiju	and the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have attent and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: Environmental Specialist
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations.	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have the and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Kiju	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title:
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Kiju Signature:	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title:
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Kiju Signature: email:kijun.hong@w	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title:
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Kiju Signature:	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title:
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Kiju Signature: email:kijun.hong@w	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title:

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

Responsible Party

Harvest Midstream

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Nan	ne	Kijun Hong (Contact	Contact Telephone (505) 632-4475		
Contact email kijun.hong@williams.com			iams.com	Incident	Incident # (assigned by OCD)		
Contact mail	ing address	1755 Arroyo Dr.	, Farmington, NA	M 87413			
			Location	of Release	Source		
Latitude		36.942778	(NAD 83 in dec	Longitud imal degrees to 5 de			
Site Name	Rosa 89D			Site Typ	e Pipeline		
Date Release	Discovered	9/17/2018		API# (if a	applicable)		
Unit Letter	Section	Township	Range	Со	punty		
A	34	32N	6W	Rio A	Arriba		
Crude Oi	Materia I	l(s) Released (Select all Volume Released		calculations or speci	ific justification for the volumes provided below) Volume Recovered (bbls)		
☐ Produced	Water	Volume Released	` '		Volume Recovered (bbls) 1.5 BBLs		
X I	Is the concentration of dissolved chlorid produced water >10,000 mg/l?			loride in the			
Condensa	ite	Volume Released			Volume Recovered (bbls)		
□ Natural Gas			l (Mcf) 0.33 MCF	7	Volume Recovered (Mcf) 0 MCF		
Other (describe) Volume/Weight Released (provide units			Released (provide	units)	Volume/Weight Recovered (provide units)		
Cause of Rel	ease	1					
Pipeline fail	ure due to c	orrosion.			111 13181514		



GOOWN

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does th	e responsible part	y consider this a major release?
release as defined by 19.15.29.7(A) NMAC?			
☐ Yes ☐ No			
			A
If YES, was immediate no	otice given to the OCD? By whom?	? To whom? Whe	en and by what means (phone, email, etc)?
	Init	ial Response	
The responsible p	party must undertake the following actions in	mmediately unless they	could create a safety hazard that would result in injury
The source of the rele	ease has been stopped		
	s been secured to protect human hea	alth and the enviro	nment
	•		rbent pads, or other containment devices.
	ecoverable materials have been remo		
	d above have <u>not</u> been undertaken, e		appropriatery.
if all the actions described	i above have <u>not</u> been undertaken, e	explain why.	
			1 6. 1.8.78
Per 19.15.29.8 B. (4) NM	AC the responsible party may comr	mence remediation	immediately after discovery of a release. If remediation
has begun, please attach a	a narrative of actions to date. If re-	medial efforts have	re been successfully completed or if the release occurred
			h all information needed for closure evaluation.
			cnowledge and understand that pursuant to OCD rules and d perform corrective actions for releases which may endanger
public health or the environm	nent. The acceptance of a C-141 report	by the OCD does no	ot relieve the operator of liability should their operations have
addition, OCD acceptance of			Iwater, surface water, human health or the environment. In ty for compliance with any other federal, state, or local laws
and/or regulations.			
Printed Name: Kiju	ın Hong	Title:	Environmental Specialist
Signature:	16.16	Date:	10/2/2018
	70 10		
email: <u>kijun.hong@w</u>	villiams.com	Telephone:	505-436-8457
	Λ		42
OCD Only			
//200			15/11/11
Received by:	7mm	Date:	10/16/18
			•

District I
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Responsible Party

Contact Name

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCS1828939730
District RP	
Facility ID	
Application ID	

37388

(505) 632-4475

Release Notification

Responsible Party

OGRID

Contact Telephone

Harvest Four Corners, LLC

Kijun Hong

Contact email khong@harvestmidstream.com				Incident #	Incident # (assigned by OCD) NCS1828939730				
Contact mailin	g address	1755 Arroyo Dr.	., Farmington, NI	M 87413					
			Location	of Release S	ource				
Latitude		36.942778	ALLD 02: I	Longitude	-107.43	8605			
			(NAD 83 in dec	imal degrees to 5 decir	nal places)				
Site Name R	osa 89D			Site Type	Pipeline				
Date Release D	iscovered	9/17/2018		API# (if app	licable)				
Unit Letter	Section	Township	Range	Cour	ty				
A	34	32N	6W	Rio Ar					
Surface Owner:		Federal Tr	Nature and	Volume of l	Release justification for the volume Volume Recovered				
Produced W	ater	Volume Release	d (bbls) 5 BBLs		Volume Recovered (bbls) 1.5 BBLs				
		Is the concentration produced water >	ion of dissolved ch >10,000 mg/l?	nloride in the	☐ Yes ☒ No				
Condensate		Volume Released	d (bbls)		Volume Recovered (bbls)				
Natural Gas		Volume Released	d (Mcf) 0.33 MCF	7	Volume Recovered (Mcf) 0 MCF				
Other (descr	ribe)	Volume/Weight	Released (provide	units)	Volume/Weight Rec	covered (provide units)			
Cause of Releas	se				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Pipeline failure	e due to co	orrosion.			and the state of t	MOGD			
					DEC	2 1 2018			
					DIST	ICT III			



State of New Mexico Oil Conservation Division

Incident ID	NCS1828939730
District RP	
Facility ID	
Application ID	

release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? tice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible pa	arty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☑ Released materials have☑ All free liquids and received	se has been stopped. been secured to protect human health and the environment. e been contained via the use of berms or dikes, absorbent pads, or other containment devices. overable materials have been removed and managed appropriately. above have not been undertaken, explain why:
has begun, please attach a within a lined containment. I hereby certify that the inform regulations all operators are republic health or the environme failed to adequately investigate.	C the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. That ion given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and quired to report and/or file certain release notifications and perform corrective actions for releases which may endanger that. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kijun Signature: email: khong@harvest	Hong Title: Environmental Specialist Date: 10/2/2018 Telephone: 505-632-4475
OCD Only Received by:	Date:



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

On behalf of Harvest Four Corners LLC, HRL Compliance Solutions, Inc (HRL) is pleased to submit the attached Site Characterization and Closure Report for the Rosa 89D pipeline spill that occurred on September 17, 2018 (Incident #: NCSI1828939730).

District I
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State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCS1828939730
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Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)								
Did this release impact groundwater or surface water?	☐ Yes ⊠ No								
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No								
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No								
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No								
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No								
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No								
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No								
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No								
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No								
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No								
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No								
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No								
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil								
Characterization Report Checklist: Each of the following items must be included in the report.									
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody									

State of New Mexico Oil Conservation Division

Incident ID	NCS1828939730
District RP	
Facility ID	
Application ID	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Kijun Hong Title: Signature: email:khong@harvestmidstream.com	Environmental Specialist Date: 12/14/2018 Telephone: 505-632-4475
OCD Only Received by:	Date:



Site Characterization Rosa 89D NMOCD Incident #: NCS1828939730

The release site is located approximately 5.97 miles south of Arboles, CO, with an elevation of 6,672ft above sea level. The nearest well with water bearing stratification data available on the New Mexico State Engineer's Office (NMOSE) online water well database was SJ 03420, located approximately 3.37 miles to the northwest with an elevation of 6,457ft and a depth to ground water of 55ft. Given that the release location is 215ft higher in elevation than SJ 03420, it is assumed that the depth to ground water at the release location is >100ft.

There are no features of concern identified within proximity of the site. There is no flowing watercourse or significant watercourse within 300 feet of this location. There is no lakebed, sinkhole, or playa lake within 200 feet for this location. This location is not within 300 feet of an occupied permanent residence, school, hospital, institution, or church. This location is not within 500 feet of a spring or domestic freshwater well. This facility is not within incorporated municipal boundaries or within a defined municipal freshwater well field. Refer Attachments D & E for illustration.

Table 2: Remediation Standards

Closure Criteria for Soils Impacted by a Release								
Depth to Groundwater	Constituent	Limit						
> 100 feet	Chloride	20,000 mg/kg						
	TPH (GRO+DRO+MRO)	2,500 mg/kg						
	GRO+DRO	1,000 mg/kg						
	BTEX	50 mg/kg						
	Benzene	10 mg/kg						



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													
			Sub-		Q	Q	Q									Water
POD 1	Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	\mathbf{Y}	DistanceD	epthWellD	epthWater	r Column
SJ 030	<u>55</u>		SJPR	SJ	2	2	1	20	32N	06W	278939	4094657*	5145	290	10	0 190
SJ 034	20		SJPR	SJ		2	4	19	32N	06W	277997	4093753*	5428	415	6	0 355
SJ 027	<u>11</u>		SJ	SJ	3	1	3	11	32N	06W	283293	4096778*	5493	200	120	0 80
SJ 019	49		SJPR	SJ	3	2	2	10	32N	06W	282909	4097594*	6291	300	260	0 40
SJ 019:	<u>57</u>		SJPR	SJ	3	2	2	10	32N	06W	282909	4097594*	6291	280	280	0 0
SJ 031:	<u>35</u>		SJPR	SJ	1	1	3	09	32N	06W	280044	4097112*	6447	200		
SJ 036	85 POD1		SJ	SJ	4	2	1	07	31N	06W	276814	4088772*	6536	460	310	150
SJ 0422	25 POD1		SJ	RA		4	3	23	31N	06W	282900	4084335	6968	320	60	260
SJ 0330	02		SJPR	SJ	4	3	1	08	32N	06W	278635	4097294*	7320	250		
SJ 037	75 POD1		SJPR	SJ	3	3	1	80	32N	06W	278389	4097289 🌑	7460	260	200	60
SJ 0388	80 POD1		SJPR	SJ	4	4	1	07	32N	06W	277366	4097301	8121	410	180	230
SJ 0364	<u>49</u>		SJ	SJ		4	1	02	31N	07W	273538	4090167*	9372	600	300	300

Average Depth to Water:

187 feet

Minimum Depth:

60 feet

Maximum Depth:

310 feet

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 282841.12

Northing (Y): 4091303

Radius: 10000

*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.

12/14/18 8:58 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

SJ 03420

4 19 32N 06W

X

4093753*

Driller License:

717

Driller Company:

WESTERN WATER WELLS

277997

Driller Name:

6.00

Drill Start Date:

HOOD, TERRY

03/10/2006

Drill Finish Date:

03/18/2006 Plug Date:

Log File Date:

03/22/2006

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Depth Well:

Estimated Yield: 1 GPM

Casing Size:

415 feet

Depth Water:

60 feet

Water Bearing Stratifications:

Top Bottom Description

55

Sandstone/Gravel/Conglomerate

325

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

320

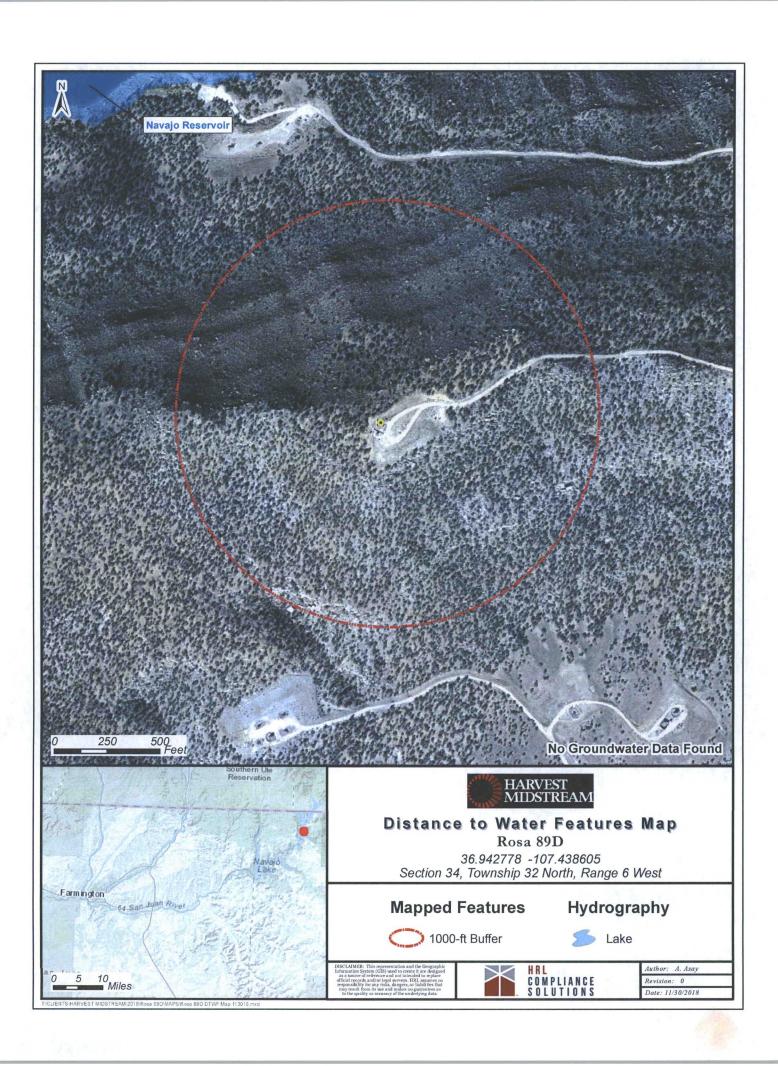
400

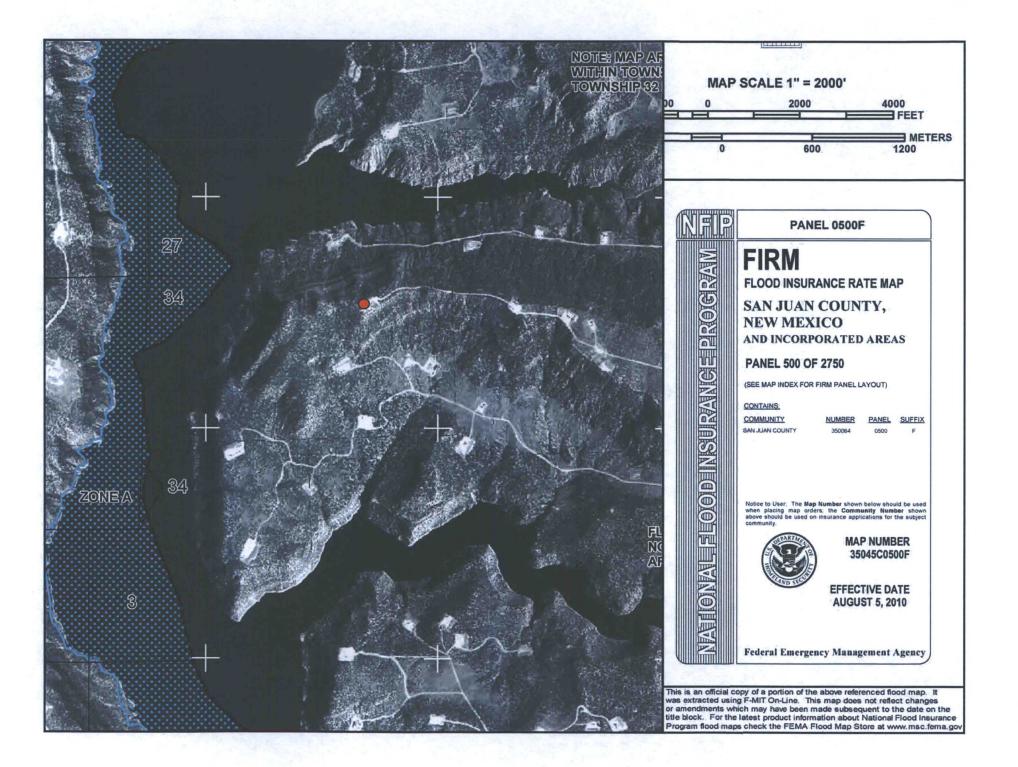
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

12/14/18 9:04 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help





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State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCS1828939730
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Note: A Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Kijun Hong
email: khong@harvestmidstream.com Telephone: 505-632-4475
OCD Only
Received by:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state or local laws and/or regulations.
Closure Approved by: Date: 1/3//7
Printed Name: Title: Title: Title: Title: Title: Title: Title: Title:



Closure Report Rosa 89D NMOCD Incident #: NCS1828939730

Upon discovery, the pipeline was immediately isolated stopping the release. All free liquids were recovered by vac truck, which consisted of 1.5 bbls of produced water.

All impacted soils were excavated and disposed of in accordance with OCD requirements. Clean dirt was trucked in to back fill the excavation. Notification of sampling was given to the OCD, but a representative was not present to witness sample collection which was conducted on September 21, 2018. Composite samples from the excavation floor and sidewalls were collected and sent for analysis. Sample locations are depicted in Figure 1.

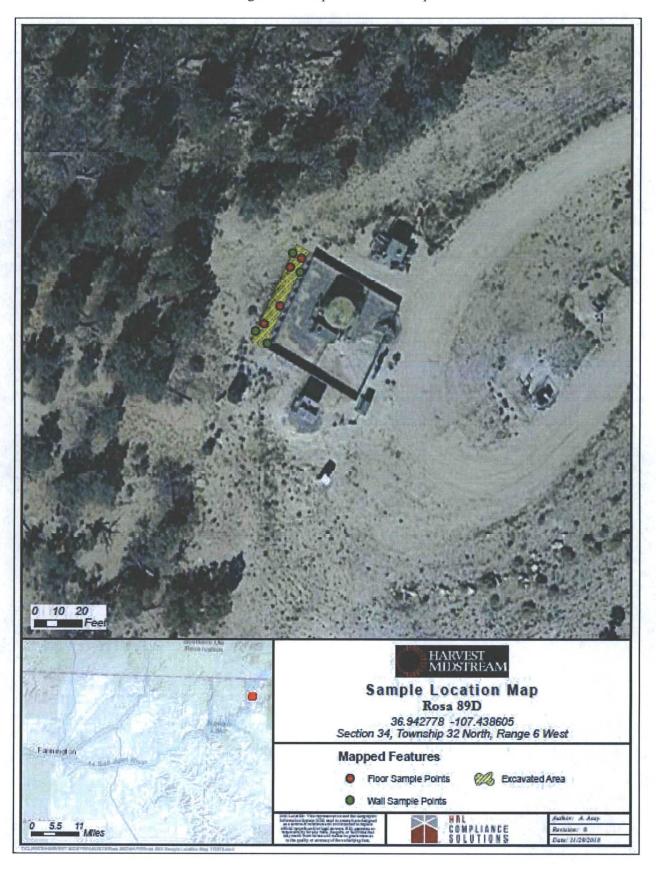
The samples were submitted to Hall Environmental Laboratories for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015M. Results from sampling event indicated that the side walls and floor did not exceed NM OCD regulatory cleanup thresholds and no additional excavation & remediation was necessary. A summary of laboratory analytical results are included in Table 3 with the raw analytical laboratory data attached to this report.

Table 3: Confirmation Analytical Data

	NM	OCD	Sample Locations			
Harvest Midstream		sholds	Hall Sa	ample ID		
Rosa 89D	THE THREE PARKS NAMED INCOME.	@ >100ft	1809E57- 001	1809E57- 002		
			Floor	Side Wall		
			9/21/2018			
DIESEL RANGE ORGANICS (DRO)		1000	ND	ND		
GASOLINE RANGE ORGANICS (GRO)	2500	1000	ND	ND		
MOTOR OIL RANGE ORGANICS (MRO)		-	ND	ND		
BENZENE		10	ND	ND		
TOLUENE			ND	ND		
ETHYLBENZENE		50	ND	ND		
XYLENE TOTAL			ND	ND		
CHLORIDE	20.	,000	370	370		

All results presented in mg/kg

Figure 1: Sample Location Map

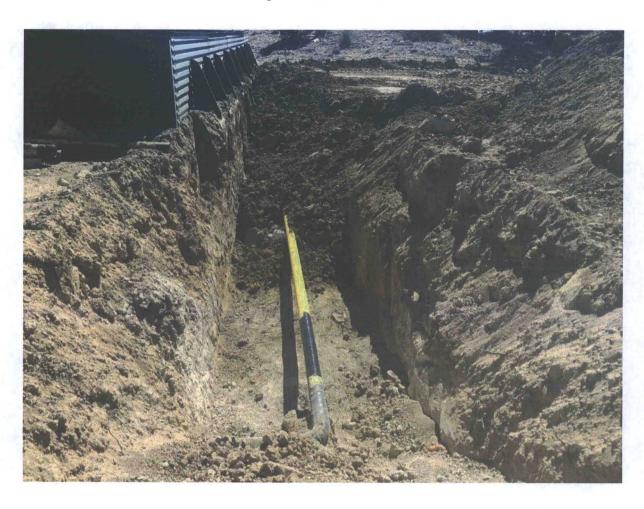


Remediation Excavation and Sampling Form

Site Name	ROSA 891	5		
Excavation Di	mensions (feet)			
45	Length _	6	Width68) '' Depth
	a gram and Sam e features, excavati	ple Locations on extents, visual observation	ons, sample locations, r	north arrow, etc.)
	Exchus	por x walk	Pire Rosa 84	
Sample Informa	ation:			
OCD Witness Sa Agency(s) Repre	10 10	·(No)		
Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
ROS-890-F	9-21-18	comp.	F1001	
Ros-89D-F Ros-89D-W	9-21.18	comp.	Floor Walls	

Figure 2: Final Excavation





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

October 04, 2018

Kijun Hong Williams Field Services 1755 Arroyo Dr., Bloomfield, NM 87413 TEL: (505) 632-4442

FAX

RE: Rosa 89 D Line Leaks

OrderNo.: 1809E57

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/25/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 03, 2018.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1809E57

Date Reported: 10/4/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: Rosa 89 D Line Leaks

Lab ID: 1809E57-001

Client Sample ID: ROS-89D-F

Collection Date: 9/21/2018 1:40:00 PM

Received Date: 9/25/2018 10:38:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	370	30	mg/Kg	20	9/28/2018 6:02:09 AM	40640
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/28/2018 3:34:38 PM	40630
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/28/2018 3:34:38 PM	40630
Surr: DNOP	120	50.6-138	%Rec	1	9/28/2018 3:34:38 PM	40630
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/27/2018 5:45:11 PM	40611
Surr: BFB	93.6	15-316	%Rec	1	9/27/2018 5:45:11 PM	40611
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	9/27/2018 5:45:11 PM	40611
Toluene	ND	0.050	mg/Kg	1	9/27/2018 5:45:11 PM	40611
Ethylbenzene	ND	0.050	mg/Kg	1	9/27/2018 5:45:11 PM	40611
Xylenes, Total	ND	0.099	mg/Kg	1	9/27/2018 5:45:11 PM	40611
Surr: 4-Bromofluorobenzene	93.6	80-120	%Rec	1	9/27/2018 5:45:11 PM	40611

Matrix: SOIL

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

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 Quanitative 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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1809E57

Date Reported: 10/4/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: Rosa 89 D Line Leaks

Lab ID: 1809E57-002

Client Sample ID: ROS-89D-W

Collection Date: 9/21/2018 2:00:00 PM

Received Date: 9/25/2018 10:38:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	smb
Chloride	370	30		mg/Kg	20	9/28/2018 6:14:34 AM	40640
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/28/2018 3:56:37 PM	40630
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2018 3:56:37 PM	40630
Surr: DNOP	110	50.6-138		%Rec	1	9/28/2018 3:56:37 PM	40630
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Surr: BFB	90.2	15-316		%Rec	1	9/27/2018 6:08:41 PM	40611
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Toluene	ND	0.049		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	1	9/27/2018 6:08:41 PM	40611

Matrix: SOIL

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

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 Quanitative 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 Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E57

04-Oct-18

Client:

Williams Field Services

Project:

Rosa 89 D Line Leaks

Sample ID MB-40640

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

9/27/2018

Batch ID: 40640 Analysis Date: 9/28/2018

1.5

RunNo: 54496

SeqNo: 1806702

Units: mg/Kg

Qual

Analyte Chloride

Result

ND

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Sample ID LCS-40640

LCSS

SampType: Ics

RunNo: 54496

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date: 9/27/2018

Batch ID: 40640

1.5

SeqNo: 1806703

Units: mg/Kg

110

Analyte Chloride

Client ID:

Prep Date:

9/28/2018

9/28/2018

Analysis Date: 9/28/2018 Result PQL

15

Result

ND

SPK value SPK Ref Val

SPK value SPK Ref Val

15.00

%REC 98.4

LowLimit HighLimit

90

%RPD **RPDLimit**

Qual

Batch ID: 40653

Analysis Date: 9/28/2018

TestCode: EPA Method 300.0: Anions

Sample ID MB-40653

PBS

SampType: mblk

0

RunNo: 54514 SeqNo: 1808195

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit Qual

Analyte Chloride

PQL 1.5

SampType: Ics

%REC

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

Sample ID LCS-40653 LCSS

Batch ID: 40653

RunNo: 54514

Analyte

Analysis Date: 9/28/2018

1.5

SeqNo: 1808196

Units: mg/Kg

%RPD

Qual

Chloride

Result PQL 15

SPK value SPK Ref Val 15.00

0

%REC 98.6 LowLimit 90

LowLimit

110

HighLimit

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

Page 3 of 6

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E57

04-Oct-18

Client:

Williams Field Services

Project:

Rosa 89 D Line Leaks

Sample ID LCS-40630	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 40630			F	RunNo: 54513					
Prep Date: 9/27/2018	Analysis D	ate: 9/	28/2018	8	SeqNo: 1	807108	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	3.7		5.000		73.8	50.6	138			
Sample ID MB-40630	MB-40630 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									

Sample ID MB-40630	SampTyp	oe: ME	BLK	Test	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch I	D: 40	630	R	RunNo: 54	4513				
Prep Date: 9/27/2018	Analysis Dat	te: 9/	28/2018	S	SeqNo: 18	307109	Units: mg/K	g		
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	9.4		10.00		94.0	50.6	138			

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 Quanitative 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
- Page 4 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E57

04-Oct-18

Client:

Williams Field Services

Project:

Rosa 89 D Line Leaks

Sample ID MB-40611

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 40611

RunNo: 54473

Prep Date: Analyte

9/26/2018

Analysis Date: 9/27/2018

PQL

Batch ID: 40611

Analysis Date: 9/27/2018

5.0

SeqNo: 1805684 %REC

95.6

SeqNo: 1805685

Units: mg/Kg

RPDLimit Qual

Gasoline Range Organics (GRO)

Surr: BFB

Client ID:

Prep Date:

960

SPK value SPK Ref Val

1000

LowLimit

316

HighLimit

Sample ID LCS-40611

LCSS

9/26/2018

SampType: LCS

ND

Result

TestCode: EPA Method 8015D: Gasoline Range RunNo: 54473

LowLimit

15

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 26 1100

SPK value SPK Ref Val **PQL** 5.0 25.00 1000

%REC 104 107

75.9 15

316

HighLimit

131

%RPD

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J

Page 5 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E57

04-Oct-18

Client:

Williams Field Services

Project:

Rosa 89 D Line Leaks

Sample ID MB-40611	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	h ID: 40	ID: 40611 RunNo: 54473			4473				
Prep Date: 9/26/2018	Analysis D	Date: 9/	27/2018	S	SeqNo: 1	805711	Units: mg/K	(g		
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	0.94		1.000		93.8	80	120			

Sample ID LCS-40611	SampT	SampType: LCS TestCode: EPA Method 8					8021B: Volat	tiles		
Client ID: LCSS	Batch	D: 40	40611 RunNo: 54473							
Prep Date: 9/26/2018	Analysis D	ate: 9/	27/2018	S	SeqNo: 1	805712	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	77.3	128			
Toluene	0.94	0.050	1.000	0	93.7	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.6	81.6	129			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	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 Quanitative 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

Page 6 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	WILLIAMS FIELD SERV	Work Order Num	ber: 1809E57		RcptNo: 1			
Received By:	Anne Thorne	9/25/2018 10:38:00	AM	Anne Ha	_			
Completed By:	Anne Thorne	9/25/2018 12:01:40	PM	1. 11				
Reviewed By:	ENM	9/25/18		ame sin				
Labeled &	4: 09/25/18					· •		
Chain of Cus								
1. Is Chain of Cu			Yes 🗸	No 🗌	Not Present			
2. How was the	sample delivered?		Courier			W.		
Log In								
	pt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗌			
4. Were all samp	oles received at a temperati	ure of >0° C to 6.0°C	Yes 🗹	No 🗔	NA 🗆	*		
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗌				
6. Sufficient sam	ple volume for indicated tes	st(s)?	Yes 🗸	No 🗌				
7. Are samples (e	except VOA and ONG) proj	perly preserved?	Yes 🗸	No 🗌				
8. Was preservat	tive added to bottles?		Yes	No 🔽	NA 🗆			
9. VOA vials have	e zero headspace?		Yes	No 🗆	No VOA Vials			
10. Were any sam	nple containers received br	oken?	Yes 🗌	No 🗹	# of preserved bottles checked			
	rk match bottle labels?		Yes 🗹	No 🗆	for pH:	-12 - 1 1		
	ncies on chain of custody)	of Contact O	Yes 🗸	No 🗆	(<2 or Adjusted?	>12 unless noted)		
	orrectly identified on Chain analyses were requested?		Yes ✓ Yes ✓	No 🗆				
	ng times able to be met?		Yes 🗸	No 🗆	Checked by:			
	stomer for authorization.)			L				
Special Handli	ing (if applicable)							
	tified of all discrepancies w	ith this order?	Yes	No 🗆	NA 🗹			
Person I	Notified:	Date						
By Who	m: [Via:	eMail P	hone 🗌 Fax	☐ In Person			
Regardin	ng:				:			
Client In	structions:							
16. Additional ren	narks:							
17. Cooler Inform								
Gooler No	TO THE RESIDENCE OF THE PARTY O	Seal Intact Seal No	Seal Date	Signed By				
LI.	2.8 Good	Yes	<u>_</u>					

Of:11 81-18-5 4-21-18 105 00:21 81-12-b 9-21/8 Client William FIELD SERVICES ☐ EDD (Type) QA/QC Package: email or Fax#: Kijux . Kox@ williars.co~ Mailing Address: 1755 ARROYA DRIDE O NELAP Accreditation □ Standard Phone #: 505-632 - 4475 Date BLOOMFIELD N. My 87413 If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 1400 1340 5011 Time: 3 Time 10 8 Relinquished by: Matrix □ Other Koy. ROS-146B-F □ Level 4 (Full Validation) Ros-890-W ROS-890-F Sample Request ID Local 1468-W Project Manager: Sampler: Project # 0 10 18 33 9 215 STORFILLE Line Lecks Received by: Striple de liberation Project Name: Standard Type and # HOZ Container 402 402 400 Kijur Hors Preservative 3 EOSA89D Ice ICE 100 200 Type □ Rush S 1038 lime 484 202 8 A CORD Remarks × BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 × TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) **ANALYSIS LABORATORY** www.hallenvironmental.com EDB (Method 504.1) PAH's (8310 or 8270 SIMS) Analysis Request RCRA 8 Metals Fax 505-345-4107 Anions (F,CI,NO₃,NO₂,PO₄,SO₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) Chtorioe

Air Bubbles (Y or N)



Chain-of-Custody Record

Turn-Around Time:

HALL ENVIRONMENTAL

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 $\begin{array}{c} Form \, C\text{-}141 \\ Revised \, August \, 24, \, 2018 \\ Submit \, to \, appropriate \, OCD \, District \, office \end{array}$

Incident ID	
District RP	
Facility ID	
Application ID	

NVF 1900731813

Release Notification

Responsible Party

Responsible	Party	Harvest Four Co	orners, LLC	OGRID	37388		
Contact Nam	ne	Kijun Hong		Contact Te	elephone	(505) 632-4	475
Contact ema	il	khong@harvest	midstream.com	Incident #	(assigned by OCL	0)	
Contact mail	ling address	1755 Arroyo Dr	., Farmington, NM 8	37413			
			Location of	Release S	ource		
atitude		36.643012	(NAD 83 in decima	Longitude degrees to 5 decim		107.354571	
Site Name	Trunk L			Site Type	Site Type Compressor Station		
Date Release	Discovered	12/14/2018		API# (if app	plicable)		
Unit Letter	Section	Township	Range	Cour	nty	- Villa	HMOCD
P	21,22	28N	5W	Rio Ai	rriba	1	
						_	JAN 0 3 2019
Surface Owne	r: State	☐ Federal ☐ Ir	ibal ⊠ Private (Nam	ie:			DISTRICT III
			Nature and V	Johnma of	Ralassa		MISTRIOI III
			Nature and v	olume of h	Kelease		
Crude Oi	Materia 1	Volume Release	that apply and attach calc	ulations or specific	justification for the	he volumes provided becovered (bbls)	pelow)
☐ Produced		Volume Release	,			covered (bbls)	
	1 Water		tion of dissolved chlo	ride in the	Yes 🖾		
		produced water		ride in the		NO	
⊠ Condensa	ate		ed (bbls) 22 BBLs int	o lined	Volume Rec	covered (bbls) 22	
Natural C	Gas	Volume Release			Volume Rec	covered (Mcf)	
Other (de	escribe)	Volume/Weight	Released (provide un	its)	Volume/We	ight Recovered (p	provide units)
Cause of Rel	lease						
Excessive li	auids receiv	ve by station duri	ng a pig run. Also, h	igher initial le	vel in slug cat	cher due to stucl	k float valve.
	•						
All free liqu	iids have be	en recovered by v	ac truck from the li	ned secondary	containment.		

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the	e responsible par	ty consider this a major release?
release as defined by 19.15.29.7(A) NMAC?			
19.13.29.7(A) NMAC:			
☐ Yes ☒ No			
If YES, was immediate n	otice given to the OCD? By whom?	To whom? Wh	en and by what means (phone, email, etc)?
			190
X			
	Initi	al Respons	e
The responsible p	arty must undertake the following actions im	mediately unless the	y could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human hea	lth and the enviro	onment.
□ Released materials have a second or	ave been contained via the use of ber	ms or dikes, abso	orbent pads, or other containment devices.
	ecoverable materials have been remo		
	d above have not been undertaken, ex		
if all the actions describe	a above have <u>not</u> been undertaken, e.	Apium wily.	6.737.239
			and the second s
has begun, please attach	a narrative of actions to date. If rer	medial efforts ha	on immediately after discovery of a release. If remediation we been successfully completed or if the release occurred tach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete	e to the best of my	knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain rele	ase notifications ar	nd perform corrective actions for releases which may endanger
			not relieve the operator of liability should their operations have dwater, surface water, human health or the environment. In
addition, OCD 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.			
Printed Name: Kiji	un Hong	Title:	Environmental Specialist
Cianatana	1/2/12	Detail	13/39/3019
Signature:	70 10	Date:	12/28/2018
email: <u>khong@harve</u>	estmidstream.com	Telephone:	505-436-8457
OCD Only			
OCD Only			\
Received by:		Date:	1/3/2019
V			V V

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

NMOCD **Release Notification** DEC 03 2018 **Responsible Party** DISTRICT III Responsible Party Harvest Four Corners, LLC **OGRID** 37388 Contact Name Kijun Hong Contact Telephone (505) 632-4475 Incident # (assigned by OCD) NCS1828939224 Contact email khong@harvestmidstream.com Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413 **Location of Release Source** 36.504125 Longitude Latitude -107.303735 (NAD 83 in decimal degrees to 5 decimal places) Site Name Lateral D-2 Site Type **Pipeline** Date Release Discovered 8/30/2018 API# (if applicable) Unit Letter Section Township Range County H 12 26N 5W Rio Arriba Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) 25 BBLs based on Volume Recovered (bbls) 60 Yards of impacted soil yardage removed. removed Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) 389.9 Volume Recovered (Mcf) 0 Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release Pipeline failure due to corrosion.

Form	C-	14	1
Page 2			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?		
19.15.29.7(A) NMAC?	Unauthorized release of 25 bbls or more.		
☐ Yes ☐ No			
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
Immediate courtesy notification was given by email to Cory Smith and Vanessa Fields of the NMOCD by Kijun Hong			
(Williams) the same day the release was discovered. Hobson of the Jicarilla Tribe was notified by telephone the same day as			
well by Chris Lucero (Williams). Jim Griswold (OCD) will also be included on all correspondences moving forward.			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	*

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ☒ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No	
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps		
Laboratory data including chain of custody		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.		
Printed Name: Kijun Hong	Title: Environmental Specialist	
Signature:	Date: <u>11/27/2018</u>	
email: <u>khong@harvestmidstream.com</u>	Telephone: <u>505-436-8457</u>	
OCD Only		
Received by:	Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)	
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
□ Description of remediation activities	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kijun Hong Title: Environmental Specialist Date: 11/27/2018 Telephone: 505-436-8457	
OCD Only Received by: Date: 121312018	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date: US 2019	
Printed Name: Vanessa Fields Title: Environmental Specalist	

Lateral D-2 Hydrogeologic Information

Depth to groundwater is estimated to be approximately 330 feet below ground surface. This is based on the cathodic well report for the Jicarilla 119N #10A and #11 located approximately 2,080 feet to the northeast of the release location and about 120 feet lower in elevation. There are also no nearby springs labeled on the topographic map and no increased vegetation cover on the aerial photo in the vicinity of the site to suggest the presence of a spring.

The nearest significant watercourse is over 1,000 linear feet to the north of the location.

There are no water wells registered within 0.5 mile of the location.

The site is not within 300 feet of a wetland and is not within a 100-year floodplain.

The site is underlain by the Tertiary San Jose Formation which does have karst features.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 293682.86

Northing (Y): 4042333.84

Radius: 305

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.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 293682.86

Northing (Y): 4042333.84

Radius: 805

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.

· 10A= 30-039-21199 -- 11= 30-039-07146

3529

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator	MERIDIAN OIL INC.	Location	: Unit D S	ec. 7 Twp	26 Rng 4
	ell/Wells or Pipeline Serv				
					cps 2018w
Elevation_	7085'Completion Date 10/18/	88 Total D	epth 320'	_Land Type	* N/A
Casing, Si	zes, Types & Depths	N/A			
If Casing	is cemented, show amounts	& types u	usedN/A		
	or Bentonite Plugs have be	een placed	l, show dep	ths & amou	ints used
	chickness of water zones water, Salty, Sulphur, Etc				possible:
Type & amo	encountered: N/A ount of coke breeze used:	N/A			
Depths and	odes placed: 290', 280', 270	, 255', 245			
	nt pipes placed: 316'	· · · · · · · · · · · · · · · · · · ·		CELV	EM
Vent pipe	perforations: 140'		<u>uu</u>	WAY 3 111991	ש
Remarks:	gb #2 DRILLED 150' HOLE. F	ELL IN.		CON. D	IV.
				DIST. 3	

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

^{*}Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

MERIDIAN OIL INC. WELL CASING... CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

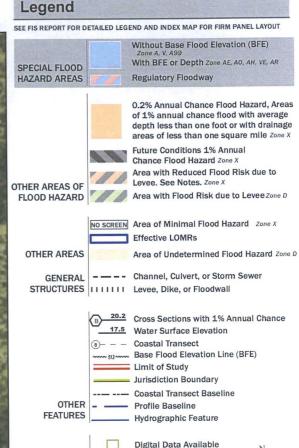
Drilling Log (Attach He	reso)		≈		Completion D	ace 10/18/	188
CPS #	Well Name. Line or Plant:		Work Order	Statue:		Ins. Union Check	
	JICARILLA	119N =10A	405 48h	1 V 1.73 V	600' W	50 Good	Bad
2018 W			1000			-	
	JICARILLA	1.19M // Anode Type:	520371	10: 0	600' W	1	
Loration:	2" X 60"	Durio		6 74 4			
D-7-26-4 Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Use	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	os Mat'l Used	No. Sacks Must U	sed
560'	550						***
Anode Cepth	- 1		1	i	i B		
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Anode Output (Amps)				1	i		1.
# 11	# 13	# 14 !# 15		# 17	i = 18	# 19	# 20
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Volts /2.0	Amos 25.8	Ohms ,4	7				
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Remarks: DAMP	Spot AT 210,	COULD NOT 9	et WATER	sample, p	Althed to	360	Try rog 16
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	Drill No	0
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Client M	eridir	Prospect
County_	Cio A	rriba State New Mex
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FROM	TO	FORMATION — COLOR — HARDNESS
		SANdstone
40	150	Shale
150	190	Shale SANdsforce
190	200	Shale
200	210	SANd
210	240	SANGY Shale
240	360	Shale
300	340	enude stal
340	400	Shale Shale
400	420	Sandstone
420	500	SANdy Shale
	1	SANdstone
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National Flood Hazard Layer FIRMette





9

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

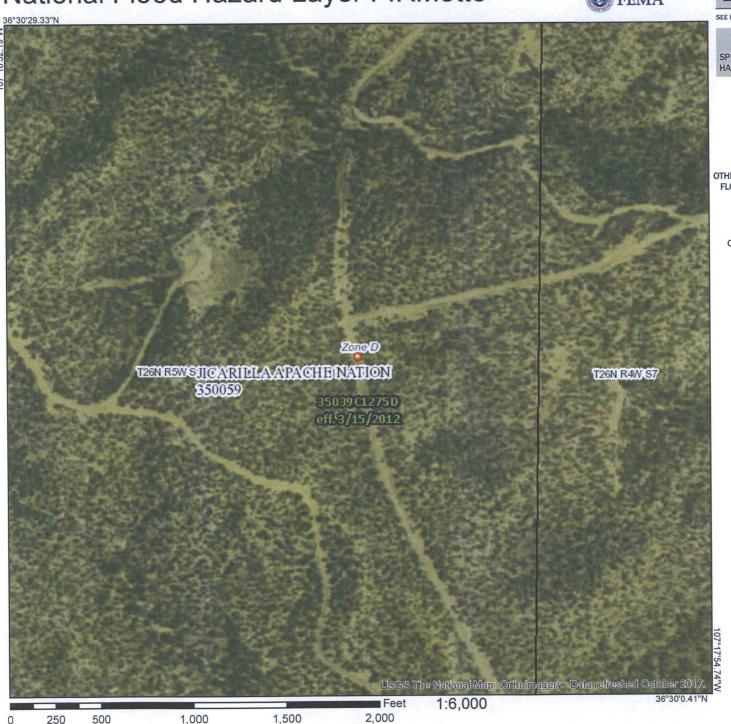
No Digital Data Available

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

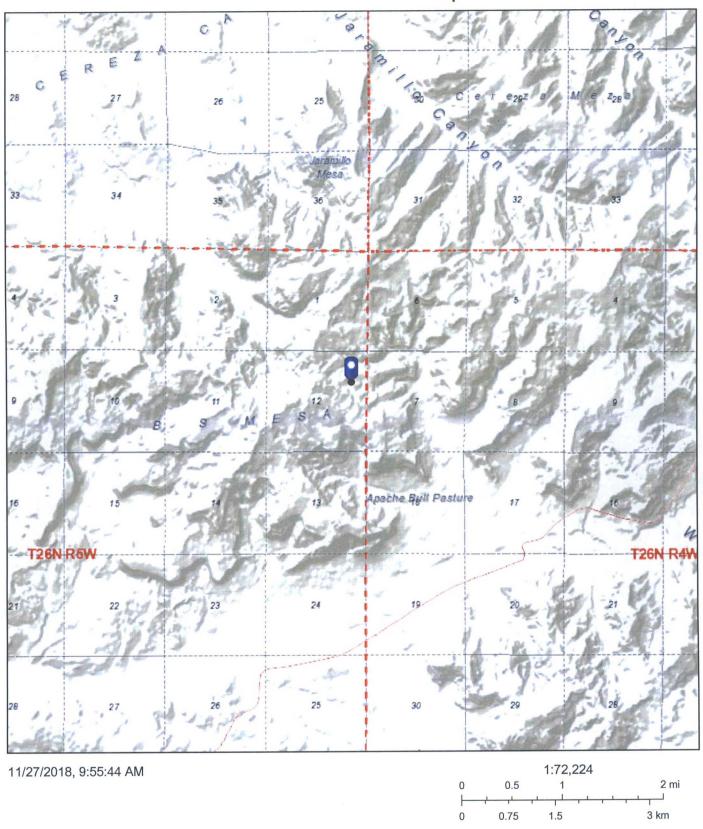
Unmapped

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/27/2018 at 11:48:47 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Lateral D-2 Mine Map



Bureau of Land Management Geographic Coordinate Database, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Narrative of Remedial Activities

The Harvest Four Corners, LLC (Harvest) Lateral D-2 pipeline release site is located at N36.504125, W107.303735 in Unit Letter H, Section 12, Township 26 North, Range 5 West, in Rio Arriba County, New Mexico. The release resulted from corrosion of the pipeline discovered on August 30, 2018, and the pipeline was shut-in immediately. The release consisted of an estimated 25 barrels of produced water and 389.9 Mcf of natural gas.

On August 31, 2018, Harvest initiated remediation by dig and haul at the location. Approximately 60 cubic yards of hydrocarbon impacted soil were removed to an approved landfarm for remediation/disposal.

Notification for confirmation sampling was provided on September 4, 2018. The representative from the Oil Conservation Division (OCD) was not available for the scheduled sampling time on September 6, 2018, so gave permission to commence with sampling on September 4, 2018, as representative from the Jicarilla Apache Nation Environmental Protection Office was onsite to witness the sampling. Two three-point composite samples (*E-Wall* and *W-Wall*) were collected from the excavation for laboratory analysis.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for chloride per USEPA Method 300.0, BTEX per USEPA Method 8021B and TPH per USEPA 8015M/D.

Laboratory analytical results for chloride, total BTEX, benzene, and total TPH are below the remediation standards. No qualifier flags were indicated for the laboratory results.

The excavation was backfilled with clean, imported soil following the receipt of laboratory analytical results.





Photograph #1

Client: Harvest Four Corners, LLC

Site Name:

Lateral D-2 Pipeline Release

Date Photo Taken: September 10, 2018

Release Location: N36.504125, W107.303735

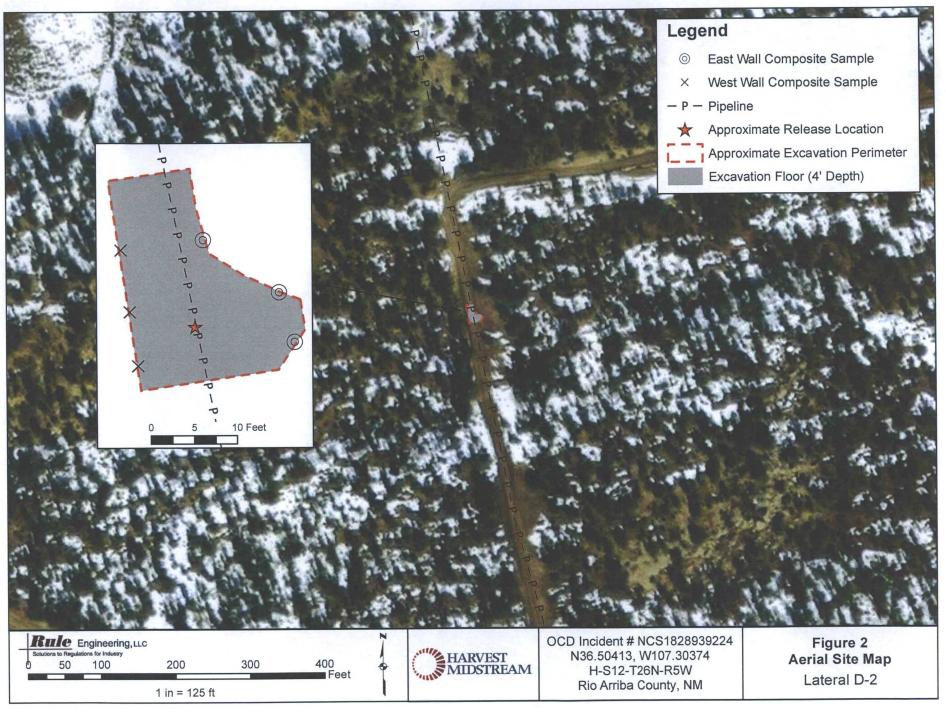
> H-12-26N-5W Rio Arriba County, NM



Description: Facing east, view of remedial excavation and pipeline.

Remediation Excavation and Sampling Form

Site Name	LAT	D-2		
Excavation Dim	ensions (feet)			
25'	Length	20'	Width 4	Depth
Excavation Diag (Depict notable site		le Locations on extents, visual observatio	ns, sample locations, n	orth arrow, etc.)
-		*	*	• ,
		* ×	×	
Sample Informa	tion			
OCD Witness Sa Agency(s) Repre	mpling Yes or esentative(s)	Dicarilla oil	I fas J	asun Sandova
Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
			WALL	
EAST WALL	9-4-18	Comp	WALL	
			11.0	



Date: 11/21/2018

Table 1. Summary of Laboratory Analytical Results Harvest Four Corners, LLC Lateral D-2 Pipeline Release Rio Arriba County, New Mexico

			Laboratory Analytical Results									
Sample Name	Date	Approximate Sample Depth (ft bgs)	Sample Location	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben- zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)	Chloride (mg/kg)
	Re	mediation Stand	ard*	10	NE	NE	NE	50	1,000 as	GRO+DRO / 2	,500 Total	20,000
E-Wall	9/4/2018	0 - 4	East Half of Excavation	<0.10	<0.21	<0.21	0.44	0.44	<21	59	<50	150
W-Wall	9/4/2018	0 - 4	West Half of Excavation	<0.11	0.26	<0.22	8.0	8.3	130	150	<48	230

Notes:

ft bgs - feet below grade surface

mg/kg - milligrams per kilogram

NE - not established

ND - not detected above laboratory reporting limits

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

MRO - mineral oil range organics

*Per Table 1 of 19.15.29.12 NMAC, based on category "greater than 100 feet" depth to groundwater



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

September 11, 2018

Lloyd Bell Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: LAD D-2

OrderNo.: 1809064

Dear Lloyd Bell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/5/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1809064

Date Reported: 9/11/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: E Wall

Project: LAD D-2

Collection Date: 9/4/2018 12:00:00 PM

Lab ID: 1809064-001

CLIENT: Williams Field Services

Matrix: SOIL

Received Date: 9/5/2018 7:00:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	150	30	mg/Kg	20	9/5/2018 10:30:08 AM	40145
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst:	Irm
Diesel Range Organics (DRO)	59	9.9	mg/Kg	1	9/5/2018 10:23:06 AM	40144
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/5/2018 10:23:06 AM	40144
Surr: DNOP	114	50.6-138	%Rec	1	9/5/2018 10:23:06 AM	40144
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	9/5/2018 9:34:27 AM	G53917
Surr: BFB	110	15-316	%Rec	5	9/5/2018 9:34:27 AM	G53917
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.10	mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Toluene	ND	0.21	mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Ethylbenzene	ND	0.21	mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Xylenes, Total	0.44	0.42	mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Surr: 4-Bromofluorobenzene	93.6	80-120	%Rec	5	9/5/2018 9:34:27 AM	B53917

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

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 Quanitative 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 Page 1 of 7
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1809064

Date Reported: 9/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: LAD D-2

Lab ID: 1809064-002

Client Sample ID: W Wall

Collection Date: 9/4/2018 12:00:00 PM

Received Date: 9/5/2018 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	230	30	mg/Kg	20	9/5/2018 10:42:33 AM	40145
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	150	9.6	mg/Kg	1	9/5/2018 10:45:10 AM	40144
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/5/2018 10:45:10 AM	40144
Surr: DNOP	117	50.6-138	%Rec	1	9/5/2018 10:45:10 AM	40144
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	130	22	mg/Kg	5	9/5/2018 9:57:45 AM	G53917
Surr: BFB	189	15-316	%Rec	5	9/5/2018 9:57:45 AM	G53917
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.11	mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Toluene	0.26	0.22	mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Ethylbenzene	ND	0.22	mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Xylenes, Total	8.0	0.43	mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Surr: 4-Bromofluorobenzene	95.0	80-120	%Rec	5	9/5/2018 9:57:45 AM	B53917

Matrix: SOIL

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

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 Quanitative 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 Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809064

11-Sep-18

Client:

Williams Field Services

Project:

LAD D-2

Sample ID MB-40145

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 40145

RunNo: 53927

Prep Date: 9/5/2018

Analysis Date: 9/5/2018

SampType: Ics

SeqNo: 1781197

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit Qual

Chloride

PQL ND

1.5

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: LCSS

Sample ID LCS-40145

Batch ID: 40145

RunNo: 53927

Prep Date: 9/5/2018

Analysis Date: 9/5/2018

SeqNo: 1781198

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Analyte Chloride

Result 14

SPK value SPK Ref Val %REC **PQL** 1.5

15.00

94.4

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

E Value above quantitation range

J Analyte detected below quantitation limits Page 3 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809064

11-Sep-18

Client:

Williams Field Services

Project:

LAD D-2

3		
Sample ID MB-40144	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 40144	RunNo: 53915
Prep Date: 9/5/2018	Analysis Date: 9/5/2018	SeqNo: 1779402 Units: mg/Kg
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	11 10.	.00 106 50.6 138
Sample ID LCS-40144	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 40144	RunNo: 53915
Prep Date: 9/5/2018	Analysis Date: 9/5/2018	SeqNo: 1779424 Units: mg/Kg
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50	.00 0 95.8 70 130
Surr: DNOP	4.8 5.0	000 96.2 50.6 138
Sample ID MB-40111	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 40111	RunNo: 53915
Prep Date: 9/4/2018	Analysis Date: 9/5/2018	SeqNo: 1780862 Units: %Rec
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10	.00 110 50.6 138
Sample ID LCS-40111	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 40111	RunNo: 53915
Prep Date: 9/4/2018	Analysis Date: 9/5/2018	SeqNo: 1780884 Units: %Rec
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.6 5.0	000 113 50.6 138

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 Quanitative 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

Page 4 of 7

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809064

11-Sep-18

Client:

Williams Field Services

Project:

LAD D-2

Project:	LAD D-2										
Sample ID	RB	SampTyp	e: ME	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch I	D: G 5	3917	F	RunNo: 5	3917				
Prep Date:		Analysis Dat	e: 9 /	5/2018	S	SeqNo: 1	780252	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0								
Surr: BFB		930		1000		92.8	15	316			
Sample ID	2.5UG GRO LCS	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch I	D: G 5	3917	F	RunNo: 5	3917				
Prep Date:		Analysis Dat	e: 9 /	5/2018	S	SeqNo: 1	780253	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	27	5.0	25.00	0	107	75.9	131			
Surr: BFB		1000		1000		100	15	316			
Sample ID	1809064-001AMS	SampTyp	e: M \$	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	7
Client ID:	E Wall	Batch I	D: G 5	3917	F	RunNo: 5	3917				
Prep Date:		Analysis Dat	e: 9 /	5/2018	S	SeqNo: 1	780254	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	130	21	104.1	9.700	113	77.8	128			
Surr: BFB		5000		4163		121	15	316			
Sample ID	1809064-001AMS	SampTyp	e: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	E Wall	Batch I	D: G 5	3917	F	RunNo: 5	3917				
Prep Date:		Analysis Dat	e: 9/	5/2018	8	SeqNo: 1	780255	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	120	21	104.1	9.700	110	77.8	128	2.51	20	
Surr: BFB		5000		4163		121	15	316	0	0	
Sample ID	MB-40113	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch I	D: 40	113	F	RunNo: 5	3917				
Prep Date:	9/4/2018	Analysis Dat	e: 9/	/5/2018	8	SeqNo: 1	780256	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		95.7	15	316			
Sample ID	LCS-40113	SampTyp	e: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	le	
Client ID:	LCSS	Batch I	D: 40	113	F	RunNo: 5	3917				
Prep Date:	9/4/2018	Analysis Da	e: 9/	/5/2018	5	SeqNo: 1	780257	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		104	15	316			

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 Quanitative 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

Page 5 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809064

11-Sep-18

Client:

Williams Field Services

Project:

LAD D-2

Sample ID RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: B5	3917	F	RunNo: 5	3917				
Prep Date:	Analysis D	ate: 9/	5/2018	8	SeqNo: 1	780290	Units: mg/K	(g		
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	0.88		1.000		88.0	80	120			
Sample ID 100NG BTEX LCS	B SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: B5	3917	F	RunNo: 5	3917				

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. ,									
Client ID: LC	ss	Batch	ID: B5	3917	R	RunNo: 5	3917				
Prep Date:		Analysis Da	ate: 9/	5/2018	S	SeqNo: 1	780291	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.84	0.025	1.000	0	84.4	77.3	128			
Toluene		0.87	0.050	1.000	0	86.7	79.2	125			
Ethylbenzene		0.85	0.050	1.000	0	85.2	80.7	127			
Xylenes, Total		2.6	0.10	3.000	0	87.2	81.6	129			
Surr: 4-Bromoflu	orobenzene	0.87		1.000		87.4	80	120			

Sample ID 1809064-002AM	S Sam	Type: MS	3	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: W Wall	Bat	ch ID: B5	3917	F	RunNo: 53917					
Prep Date:	Analysis	Date: 9/	5/2018	8	SeqNo: 1	780292	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.7	0.11	4.344	0	86.3	68.5	133			
Toluene	4.0	0.22	4.344	0.2650	85.8	75	130			
Ethylbenzene	3.9	0.22	4.344	0	90.7	79.4	128			
Xylenes, Total	19	0.43	13.03	7.971	87.6	77.3	131			
Surr: 4-Bromofluorobenzene	4.1		4.344		95.1	80	120			

Sample ID 1809064-002AM	SD Samp7	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: W Wall	Batcl	h ID: B5	3917	F	RunNo: 5	3917				
Prep Date:	Analysis D	Date: 9/	5/2018	8	SeqNo: 1	780293	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.7	0.11	4.344	0	86.2	68.5	133	0.116	20	
Toluene	3.9	0.22	4.344	0.2650	84.2	75	130	1.67	20	
Ethylbenzene	3.9	0.22	4.344	0	88.8	79.4	128	2.09	20	
Xylenes, Total	19	0.43	13.03	7.971	87.3	77.3	131	0.222	20	
Surr: 4-Bromofluorobenzene	4.1		4.344		94.4	, 80	120	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 Quanitative 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

Page 6 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809064

11-Sep-18

Client:

Williams Field Services

Project:

LAD D-2

Sample ID MB-40113

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

LowLimit

Client ID:

PBS

Batch ID: 40113

RunNo: 53917

Prep Date: 9/4/2018

Analysis Date: 9/5/2018

SeqNo: 1780294

Units: %Rec

Qual

Analyte Surr: 4-Bromofluorobenzene Result 0.92 SPK value SPK Ref Val 1.000

%REC 92.0 HighLimit 120 %RPD

RPDLimit

Sample ID LCS-40113

SampType: LCS Batch ID: 40113

PQL

RunNo: 53917

TestCode: EPA Method 8021B: Volatiles

LowLimit

Prep Date: Analyte

9/4/2018

Analysis Date: 9/5/2018

SeqNo: 1780295

Units: %Rec

Qual

Surr: 4-Bromofluorobenzene

0.93

SPK value SPK Ref Val

%REC 93.1

80

HighLimit

Result

120

%RPD **RPDLimit**

1.000

Client ID: LCSS

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 7 of 7

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified



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

Sample Log-In Check List

Client Name: W	ILLIAMS FIELD SER	/I Work	Order Numb	er: 180906	64		RcptNo	o: 1
Received By: A	nne Thome	9/5/2018	7:00:00 AN	И	an	ne St.		
Completed By: A	nne Thorne	9/5/2018	7:25:07 AN	И	1	. N.		
Reviewed By:	7.0	09/05/1	ç		C4m	u pro		
Labeled by:	A-09/05/17							
Chain of Custoo								
1. Is Chain of Custo				Yes V	N	o 🗆	Not Present	
2. How was the sam	nple delivered?			Courier				
	•							
Log In				_	-			
3. Was an attempt n	nade to cool the samp	les?		Yes 🗸	No.	o 📙	NA L	
A More all complex		turn of 2.08.0.4	0.010		P No		🗂	
4. Were all samples	received at a tempera	ture or >0° C to	6.0°C	Yes 🕶] 140		NA 🗌	
5. Sample(s) in prop	er container(s)?			Yes 🗸) No	o 🗆		
	volume for indicated to			Yes 🗸				
7. Are samples (except VOA and ONG) properly preserved?				Yes 🗸				
8. Was preservative	added to bottles?			Yes	No	V	NA 🗌	
9. VOA vials have ze	ro headspace?			Yes	No	П	No VOA Vials	
10. Were any sample		roken?		Yes -	1		110 10/11/10/0	
				100			# of preserved bottles checked	
11. Does paperwork m	natch bottle labels?			Yes 🗸	No		for pH:	
v =	es on chain of custody)			_		_		r >12 unless noted)
12. Are matrices corre				Yes 🗹	No		Adjusted?	
13. Is it clear what and		?		Yes 🗹	No		Charled hu	
Were all holding tir (If no, notify custor	mes able to be met? mer for authorization.)			Yes 🗹	No		Checked by:	
Special Handling	(if applicable)							
		W. W		v	ı		[3	
15. Was client notified	or all discrepancies vi	ntn this order?	-	Yes L	No.		NA 🗹	7
Person Notif	fied:	With the second second second second	Date					
By Whom:		1	Via:	eMail	Phone	Fax	☐ In Person	
Regarding:		SANSANA AMAMAMAMA		- CONTRACTOR CONTRACTOR				
Client Instru								
Additional remark	9:							
17. Cooler Informati			_		•		-	
THE SAME OF THE SA	emp °C Condition		Seal No	Seal Date	Signed	Ву		
3 1.3	Good	Yes	Publish		1			

C	hain-	of-Cu	stody Record	Turn-Around	Time:		ž.					LAI		_				.		BIT		i	
Client:		W I	75	☐ Standard Project Name	Z Rush	Same	Day				A	N	LL AL`	YS	IS	L	AE	30					
Mailing	Address	175	5 ARROYOD	n LA	D D	-2			490	01 H			IE -						109	*			
				Project #:							5-34						345-						
Phone #	# :		a s				3	1	W.C	16 A			Ar	naly	sis I	Req	uest						
email or	r Fax#:	410	YD BELL	Project Mana	ger:			5	(ylu	RO)					040	(D							
QA/QC F	Package: dard		☐ Level 4 (Full Validation)	6107	DB	ELL		TMB's (8021)	TPH (Gas only)	DRO/MRO			SIMS)		,PO4,S	2 PCB's						v	
Accredi		□ Othe	r	LIOY Sampler: 7	rich I	To A ST		+	+	-	18.1)	04.1)	8270 SIMS)		ON'EC	s / 808;		(A)	200			IN	or N)
□ EDD	(Type)_			Sample Tem	os anumentes			LBE	出	(G	od 4	od 5	10 or	etals	N.	cide	(A)	Ϋ́	80			>	5
Date	Time	Matrix	Sample Request ID	Container Type and # Mest keb	Preservative Type			EX +	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLO			, C - 1 v	Air Bubbles (Y
7-418	19:00	Soil	E-WALL	1-402	C006		-001	X		X									X				
7-4-18	12'00	Soil	E-WALL W-WALL	1-402			-co2	1	_	X									X	\Box	\neg		\neg
7 10	12.55	-		1				-						7		3							\exists
																							\exists
							* *																٦
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																				:		\top	
																						\top	٦
						`																\top	
-			4																				
Date: 9-4-/9 Date:	Time:	Relinquishe Relinquishe	ech Higgins	Received by:	Val	Date Date	Time	Rer	nark	s:			5					140					
9/4/18	1917	Sh	Inst Walt	Ula	non	09/05/18							8						*****				
, ,	f necessary,	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratori	es. This serves	as notice of this	s possi	bllity.	Апу ѕі	ıb-conf	racted	d data v	vill be	clear	ly note	ated or	the a	natytic	al repo	ort.		

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Biblifetia	
Facility ID	
Facility ID	
A 1' (' TD	
Application ID	
* *	

Release Notification

Responsible Party

Jac # NVF 1902432312

Responsible Party	Harvest Midstream	OGRID 37388			
Contact Name	Kijun Hong	Contact Telephone (505) 632-4475			
Contact email	khong@harvestmidstream.com Incident # (assigned by OCD)				
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413				

Location of Release Source

Latitude		36.83651		Longitude	-10	7.28980				
			(NAD 83 in deci	mal degrees to 5 deci	mal places)					
Site Name	Lateral M-	-3 Launcher		Site Type	Pipeline					
Date Release	Date Release Discovered 1/2/2019			API# (if ap	plicable)					
				12 11						
Unit Letter	Section	Township	Range	Cour	nty					
P	6	30N	4W	Rio Arriba						
Surface Owner	r: State	⊠ Federal □ T	ribal Private (No	ате:		910S S 8 NAL				
Nature and Volume of Release C30MN										
	Materia	l(s) Released (Select a	II that apply and attach as	aloulotions on an air	:	Tigging and the section of the secti				
Material(s) Released (Select all that apply and attach calcular Volume Released (bbls)				alculations of specific	Volume Recovered (bbls)					
Produced	Water	Volume Release	ed (bbls) 8		Volume Recovered (bbls) 8					
		Is the concentrate produced water	tion of dissolved chl	oride in the	ide in the Yes No					
Condensa	te	Volume Release			Volume Recovered (bbls)					
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)					
Other (des	scribe)	Volume/Weight	Released (provide u	ınits)	Volume/Weight	Recovered (provide units)				
Cause of Rele										
Cause of Refe	ease									
Unmarked p	oly line dan	naged during exc	avation.							

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the resp	onsible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes ☒ No					
L 165 M NO					
If VES, was immediate no	tice given to the OCD2 Develope To	.l0 W/I			
ii 125, was ininiculate no	rice given to the OCD? By whom? 10 v	whom? When and by what means (phone, email, etc)?			
	Initial F	Response			
The responsible p	arty must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury			
The source of the relea	ase has been stopped				
	been secured to protect human health an	14			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.					
All free liquids and recoverable materials have been removed and managed appropriately.					
If all the actions described	above have not been undertaken, explain	why:			
Per 19.15.29.8 B. (4) NMA	C the responsible party may commence	remediation immediately after discovery of a release. If remediation			
nas begun, please attach a	narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.			
regulations all operators are re	equired to report and/or file certain release not	best of my knowledge and understand that pursuant to OCD rules and iffications and perform corrective actions for releases which may endanger			
public health of the environme	thi. The acceptance of a C-141 report by the ((CI) does not relieve the operator of liability should their operations become			
ranca to adequately investigate	e and remediate contamination that pose a three	eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws			
and/or regulations.	i optimio	reoponitionity for compnance with any other federal, state, or local laws			
Printed Name: Kijun	Hong	Title:Environmental Specialist			
	11.12				
Signature:	A HOLL	Date:			
email: khong@harvest	midstream.com	Telephone: 505-436-8457			
OCD Only					
Received by: \\\ \alpha\nos	se tields	Data: \ \ \22 \ \20 \ \20			
	THE THE PARTY OF T	Date. 1 CC CO			

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

Responsible Party

Contact Name

Contact email

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID		
District RP	10/4	
Facility ID		
Application ID		

Release Notification

DISTRICT III

JAN 2 2 2019

Responsible Party

Harvest Four Corners, LLC

khong@harvestmidstream.com

Kijun Hong

OGRID

Contact Telephone

Incident # (assigned by OCD)

37388

		8.8
TH		

NCS 190243 8742

(505) 632-4475

Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413									
			Location	of Release S	ource				
Latitude		36.246881	(NAD 83 in dec	Longitude		107.537388			
			(IVAD 05 in acc	mar aegrees to 5 accir					
Site Name Rincon Site Type Compressor Station									
Date Release	Discovered	1/1/2019		API# (if app	plicable)				
Unit Letter Section Township Range County									
P,A	2,11	23N	7W	Rio Aı	rriba				
Surface Owne	r: 🛛 State	⊠ Federal □ Tr	ibal	Vame:)			
3 W. 1. W. 2	🔼								
			Nature and	Volume of	Release				
				calculations or specific		e volumes provided below)			
Crude Oi	1	Volume Release	d (bbls)		Volume Reco	overed (bbls)			
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)				
		Is the concentrat	ion of dissolved cl >10,000 mg/l?	hloride in the	Yes N	No.			
Condensa	ate	Volume Release			Volume Reco	overed (bbls)			
Natural C	as	Volume Release	d (Mcf) 2,574		Volume Recovered (Mcf) 0				
☐ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)						ght Recovered (provide units)			
Cause of Rel	ease								
Extreme ten	nperatures	and liquids in the	line caused the si	upply line to the l	ESD to freeze a	and fail open.			
Upon discov	very, the rel	ease was immedia	tely stopped. He	at tracing and ins	sulation were i	nstalled to prevent future freezes.			



Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does th	e responsible par	rty consider this a major release?
19.15.29.7(A) NMAC?	Unauthorized release of gases ex	ceeding 500 MC	CF
⊠ Yes □ No			
TCX/IDO	d d ocena n		
If YES, was immediate no	otice given to the OCD? By whom?	? To whom? WI	hen and by what means (phone, email, etc)?
Kijun Hong gave notific	ation to Cory Smith, Vanessa Fiel	ds, and Jim Gri	iswold by email on 1/1/2019.
	Init	ial Respons	se
The responsible p	party must undertake the following actions in	nmediately unless the	ey could create a safety hazard that would result in injury
The source of the rele	ase has been stopped.		
☐ The impacted area has	s been secured to protect human hea	alth and the envir	ronment.
Released materials ha	ve been contained via the use of ber	rms or dikes, abs	orbent pads, or other containment devices.
All free liquids and re	coverable materials have been remo	oved and manage	ed appropriately.
If all the actions described	l above have <u>not</u> been undertaken, e	explain why:	
Per 19 15 29 8 B (4) NM	AC the responsible party may comp	mence remediation	on immediately after discovery of a release. If remediation
has begun, please attach a	a narrative of actions to date. If rea	medial efforts ha	ave been successfully completed or if the release occurred ach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investigated	required to report and/or file certain release. The acceptance of a C-141 report and remediate contamination that po	ease notifications a by the OCD does a se a threat to groun	whowledge and understand that pursuant to OCD rules and and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have indwater, surface water, human health or the environment. In allity for compliance with any other federal, state, or local laws
Printed Name: Kiju	n Hong	Title:	Environmental Specialist
Signature:	## # I	Date:	1/16/2019
email: <u>khong@harves</u>	stmidstream.com	Telephone:	505-436-8457
	1		
OCD Only	- 1	7	1 1
Received by:	gu g	Date: _	1/24/19

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kijun Hong Title: Environmental Specialist
Signature: Date:
email: khong@harvestmidstream.com Telephone: 505-436-8457
OCD Only
Received by:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date: 1/3//19
Closure Approved by: Date: 1/3//9 Printed Name: Title: Enwomenested Sec.



Harvest Midstream – Rincon ESD Release Date: 1/1/2019

Incident Number: NCS1902438742

Executive Summary

On January 1, 2019, the Harvest Midstream – Rincon facility experienced an Emergency Shutdown (ESD) and the ESD vent valve lifted, releasing natural gas to the atmosphere. Upon arrival of the Harvest employee, the release was stopped by manually closing the valve. As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.

The ESD valve activation was caused by a freeze in the supply line. Heat trace and insulation were added to prevent future incidents.



Harvest Midstream – Rincon ESD

Release Date: 1/1/2019

Incident Number: NCS1902438742

Site Map and Sampling Diagram



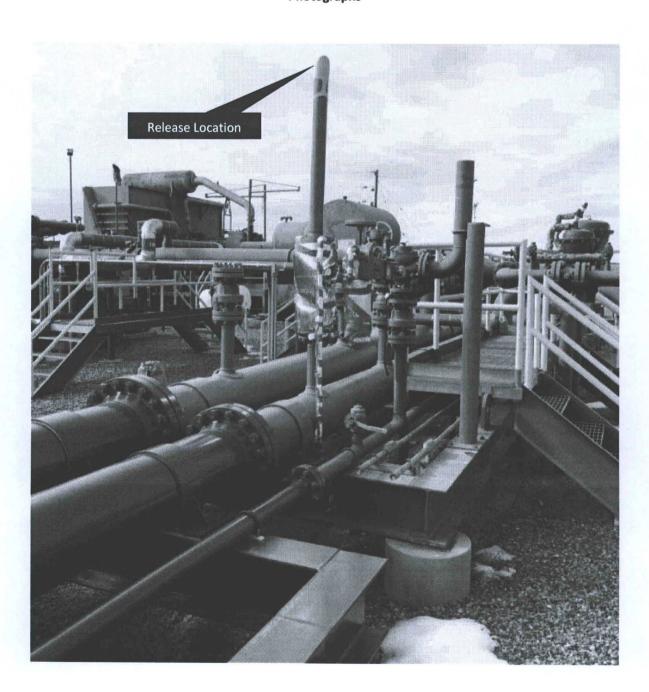




Harvest Midstream – Rincon ESD Release Date: 1/1/2019

Incident Number: NCS1902438742

Photographs



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

36.643012

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID		
District RP	1014	
Facility ID		
Application ID		

Release Notification

NMOGD

IAN 16 2019

Res	pon	sib	le	Pa	rtv
					/

			DISTRICT
Responsible Party	Harvest Four Corners, LLC	OGRID 37388	
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # (assigned by OCD)	NCS1903150282
Contact mailing address	1755 Arroyo Dr., Farmington, NM 8741		

Location of Release Source

Longitude _

-107.354571

			(NAD 83 in deci	mal degrees to 5 decir	nal places)	
Site Name Trunk L				Site Type	Site Type Compressor Station	
Date Release	Discovered	12/29/2018		API# (if app	plicable)	
Unit Letter	Section	Township	Range	Cour	-	
P	21,22	28N	5W	Rio Ar	riba	
Surface Owner			Nature and	Volume of 1		
Crude Oil	Materia	Volume Released		alculations or specific	justification for the volumes provided below) Volume Recovered (bbls)	
Produced	Water	Volume Released (bbls)			Volume Recovered (bbls)	
		Is the concentration of dissolved chloride i produced water >10,000 mg/l?		loride in the	☐ Yes ☐ No	
Condensa	te	Volume Released			Volume Recovered (bbls)	
Natural G	as	Volume Released (Mcf) 1,100			Volume Recovered (Mcf) 0	
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)	
Cause of Rele	ease					
Upon discove	ery, the rele				PRV to freeze and fail open.	
prevent futu	re freezes.					



Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does th	e responsible par	ty consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Unauthorized release of gases ex	ceeding 500 MC	F
⊠ Yes □ No	8		
If YES, was immediate no	otice given to the OCD? By whom?	? To whom? Wh	en and by what means (phone, email, etc)?
Kijun Hong gave notific	ation to Cory Smith, Vanessa Fiel	lds, and Jim Gris	swold by email on 12/31/2018.
	Init	ial Respons	e
The responsible p	party must undertake the following actions in	nmediately unless they	v could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.		
	s been secured to protect human hea	alth and the enviro	onment.
			orbent pads, or other containment devices.
	coverable materials have been remo		
If all the actions described	l above have <u>not</u> been undertaken, e	explain why:	
has begun, please attach a	a narrative of actions to date. If rea	medial efforts have	n immediately after discovery of a release. If remediation we been successfully completed or if the release occurred ch all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investiga	required to report and/or file certain relement. The acceptance of a C-141 report ate and remediate contamination that positions are supported in the contamination of the certain release of the contamination of the certain release of the certain rel	ease notifications ar by the OCD does n se a threat to groun	knowledge and understand that pursuant to OCD rules and ad perform corrective actions for releases which may endanger of relieve the operator of liability should their operations have dwater, surface water, human health or the environment. In ity for compliance with any other federal, state, or local laws
Printed Name: Kiju	n Hong	Title:	Environmental Specialist
Signature:	15. H	Date:	1/13/2019
email: <u>khong@harves</u>	stmidstream.com	Telephone:	505-436-8457
OCD Only Received by:	OCD.	Date:	1/16/19

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kijun Hong Title: Environmental Specialist Date: 1/13/2019 Environmental Specialist Telephone: 505-436-8457
OCD Only
Received by:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date: 1/3/19 Printed Name: Cory Title: Taxison mental Sec.
Printed Name: Title:



Harvest Midstream - Trunk L PRV Release Release Date: 12/29/2018 Incident Number:

Executive Summary

On December 29, 2018, a Pressure Relief Valve (PRV) at the Harvest Midstream – Trunk L facility was discovered lifting and releasing natural gas to the atmosphere. Upon arrival of the Harvest optech, the release was stopped. As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.

The PRV activation was caused by a freeze in the sensing line. Further investigation found that the heat trace was not in direct contact with the line. Tape was wrapped around the heat trace and line to maintain contact and the insulation blanket was replace.





Harvest Midstream - Trunk L PRV Release Release Date: 12/29/2018 Incident Number:







Harvest Midstream - Trunk L PRV Release

Release Date: 12/29/2018

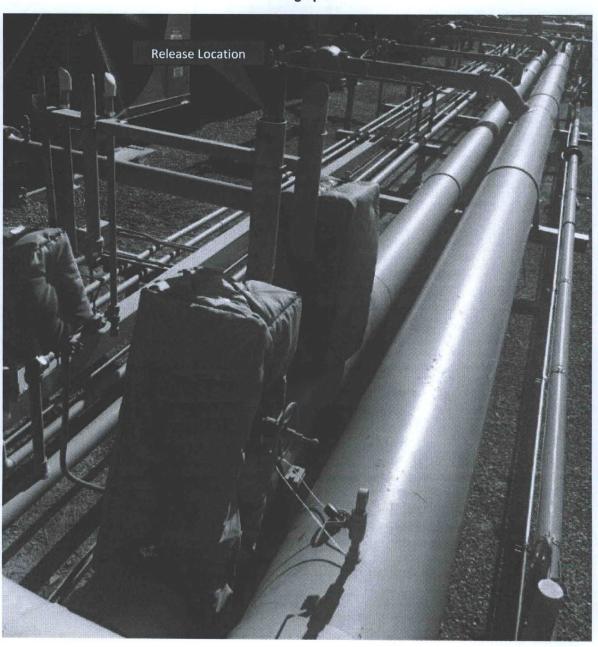
Incident Number:

NMOCD

JAN 3 1 2019

DISTRICT III

Photographs



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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	3RP-1014
Facility ID	
Application ID	

Release Notification

NMOCD

JAN 25 2019

Responsible Party

OGRID

37388

Harvest Four Corners, LLC

n	0	TD	IC	T		

Contact Name		Kijun Hong	Contact Telephone (505) 632-4475						
Contact email		khong@harvest	Incident # (assigned by OCD)						
Contact mailing address 1755 Arroyo Dr., Farmington, NM 874					NCS 1903855245				
			Location of			•			
Latitude		36.704792	(NAD 83 in decimal of	Longitude _ degrees to 5 decin		-107.496173			
Site Name			Site Type Compressor Station						
Date Release	Discovered	1/5/2019		API# (if applicable)					
Unit Letter	Section	Township	Range	Cour	nty				
P	19	29N	6W	Rio Ar	riba				
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls)									
Produced Water		Volume Release		Volume Recovered (bbls)					
		Is the concentrat	ion of dissolved chlorics >10,000 mg/l?	de in the	☐ Yes ☐ No				
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)				
Natural Gas Volume Released (Mcf) 53			d (Mcf) 53		Volume Recovered (Mcf) 0				
Other (describe)		Volume/Weight	Released (provide unit	ts)	Volume/Weight Recovered (provide units)				
Cause of Rele	ease								
Extreme tem	peratures a	and liquids in the	line caused the suppl	y line to the E	CSD to freeze	and fail open.			
Upon discove	ery, the rele	ease was immedia	tely stopped.						



State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the	e responsible par	ty consider this a major release?
release as defined by 19.15.29.7(A) NMAC?			
, ,			
☐ Yes ⊠ No			
YOY TOO			
If YES, was immediate no	otice given to the OCD? By whom?	To whom? Wh	nen and by what means (phone, email, etc)?
	Init	ial Respons	e
The responsible p	party must undertake the following actions in	nmediately unless the	ry could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.		
☐ The impacted area has	s been secured to protect human hea	alth and the envir	onment.
Released materials ha	ve been contained via the use of ber	ms or dikes, abs	orbent pads, or other containment devices.
All free liquids and re	coverable materials have been remo	oved and manage	d appropriately.
If all the actions described	l above have not been undertaken, e	xplain why:	
	,		
			on immediately after discovery of a release. If remediation are been successfully completed or if the release occurred
			ach all information needed for closure evaluation.
I hereby certify that the infor-	mation given above is true and complete	e to the best of my	knowledge and understand that pursuant to OCD rules and
regulations all operators are r	required to report and/or file certain rele	ase notifications a	nd perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have
failed to adequately investiga	ate and remediate contamination that pos	se a threat to groun	ndwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the ope	rator of responsibi	lity for compliance with any other federal, state, or local laws
C and a control of the control of th		m! !	
Printed Name: Kiju	n Hong	Title:	Environmental Specialist
Signature:	His Har	Date:	1/18/2019
email: khong@harves	stmidstream.com	Telephone:	505-436-8457
OCD Only			
OCD Only			1/2-11
Received by:	>	Date: _	1/05/19

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
☐ Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kijun Hong Title: Environmental Specialist Date: 1/18/2019 Environmental Specialist Telephone: 505-436-8457		
OCD Only		
Received by: 605 Date: 2/5/19		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:		
Printed Name: Cony Title: Environmental Sec.		



Harvest Four Corners, LLC 1755 Arroyo Drive Bloomfield, NM 87413 (505) 632-4600 www.harvestmidstream.com

Harvest Midstream – 29-6-4 ESD Release Date: 1/5/2019 Incident Number:

Executive Summary

On January 5, 2019, the Harvest Midstream – 29-6-4 facility experienced an Emergency Shutdown (ESD) and the ESD vent valve lifted, releasing natural gas to the atmosphere. The ESD valve activation was caused by a freeze in the supply line. Upon arrival of the Harvest employee, the release was immediately stopped.

As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.





Harvest Midstream – 29-6-4 ESD Release Date: 1/5/2019 Incident Number:

Site Map and Sampling Diagram





Harvest Four Corners, LLC 1755 Arroyo Drive Bloomfield, NM 87413 (505) 632-4600 www.harvestmidstream.com

Harvest Midstream – 29-6-4 ESD Release Date: 1/5/2019 Incident Number:

Photographs



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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			7100 P			
Responsible Party Harvest Four Corners, LLC		OGRID 37	OGRID 37388			
Contact Name Monica Sandoval		Contact Te	Contact Telephone 505-632-4625 (o) 505-947-1852 (c)			
Contact ema	il msandova	al@harvestmidstr	eam.com	Incident #	(assigned by OCD,	nVF1831835563
Contact mail	ling address	1755 Arroyo Dr.,	Bloomfield, NM 8	87413		NNOCD
Location of Release S		ource	FEB 1 1 2019			
Latitude Longitude -107.20395 (NAD 83 in decimal degrees to 5 decimal places)			DISTRICT			
Site Name Tr	runk M 6" p	ig launcher		Site Type P	Pipeline	
Date Release	Discovered	10/25/2018		API# (if appl	icable)	
Unit Letter	Section	Township	Range	Count	ty]
0	25	30N	4W	Rio Arrik	*	-
Surface Owner: State Federal Tribal Private (Name:						
Produced	Produced Water Volume Released (bbls)				overed (bbls)	
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		Yes	No		
	Condensate Volume Released (bbls)			Volume Rec	overed (bbls)	
Natural G	Natural Gas Volume Released (Mcf)			Volume Rec	overed (Mcf)	
X Other (de	Other (describe) Volume/Weight Released (provide units) Methanol, 500 gallons (12 bbls)		Volume/Wei	ght Recovered (provide units) 100 gallons		
Cause of Rele	ease					
of the weld the release the tank. T	nol storag I along the of 500 ga There was curred. F	e tank located e back of the ta illons of metha a Triple S trud urther investig	at the Trunk N ink. The tank v nol onto the gr ck driver and I	A 6" pig launch was dislodged fo ound making it Harvest employ	er, the tank or the tank is way to a d ee onsite at	Triple S Trucking. While filling over pressured resulting in a fail stand. The tank failure resulted in lry wash located 130 yards from the time of the incident, no ap used for venting, plugged up,

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	Unauthorized release of Methanol into	
mail, etc)? Yes, Monica S		ren and by what means (phone, e Fields 10/25/2018 at12:37pm, and had a follow up phone Fields, Cory Smith, and Jim Griswold 10/25/2018 at
	Initial Respon	se
The responsible	e party must undertake the following actions immediately unless th	ey could create a safety hazard that would result in injury
X The source of the re	elease has been stopped.	
☐ X The impacted area	has been secured to protect human health and the en	vironment.
☐ X Released materials	have been contained via the use of berms or dikes, a	bsorbent pads, or other containment devices.
X All free liquids and	d recoverable materials have been removed and man	aged appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:	
begun, please attach a na	arrative of actions to date. If remedial efforts have	on immediately after discovery of a release. If remediation has been successfully completed or if the release occurred within
a lined containment area ((see 19.15.29.11(A)(5)(a) NMAC), please attach all i	nformation needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investiga	required to report and/or file certain release notifications a ment. The acceptance of a C-141 report by the OCD does ate and remediate contamination that pose a threat to groun	knowledge and understand that pursuant to OCD rules and and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have adwater, surface water, human health or the environment. In lity for compliance with any other federal, state, or local laws
	Sandoval	Title: Environmental Specialist
Signature:	Ndosal Date:	11/9/2018
email:msandoval@har	rvestmidstream.com	Telephone:
OCD Only		
Received by:	Date: _	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ☐XNo	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ _X No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No X	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No X	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No X	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes No	
Are the lateral extents of the release within 300 feet of a wetland?	Yes No	
Are the lateral extents of the release overlying a subsurface mine?	Yes No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No	
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data XDepth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps XLaboratory data including chain of custody		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.			
Printed Name: Monica Sandoval	Title: Environmental Specalist		
Signature: MynicoSandolsal	Date:1/23/2019		
email: msandoval@harvestmidstream.com	Telephone: _505-947-1852		
OCD Only			
Received by:	Date:		

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

D I'd DI CI III TI I CI CII I	
Remediation Plan Checklist: Each of the following items must	be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poin Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29 Proposed schedule for remediation (note if remediation plan times)	12(C)(4) NMAC
<u>Deferral Requests Only:</u> Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
I hereby certify that the information given above is true and complerules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accept liability should their operations have failed to adequately investigat surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	f Approval Denied Deferral Approved
Signature:	Date:

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

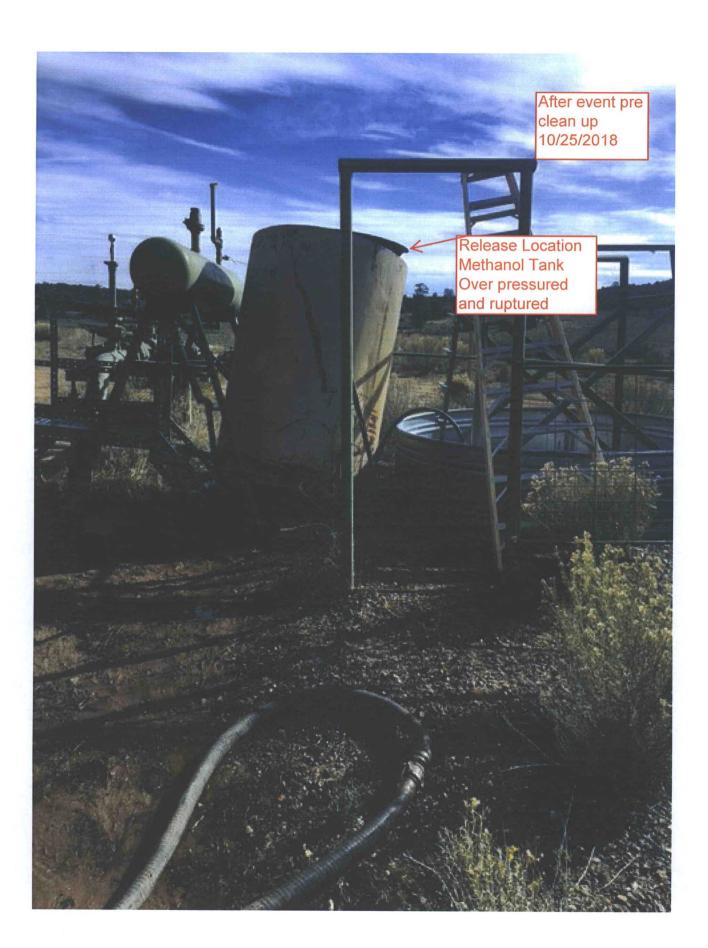
Incident ID	
District RP	
Facility ID	
Application ID	

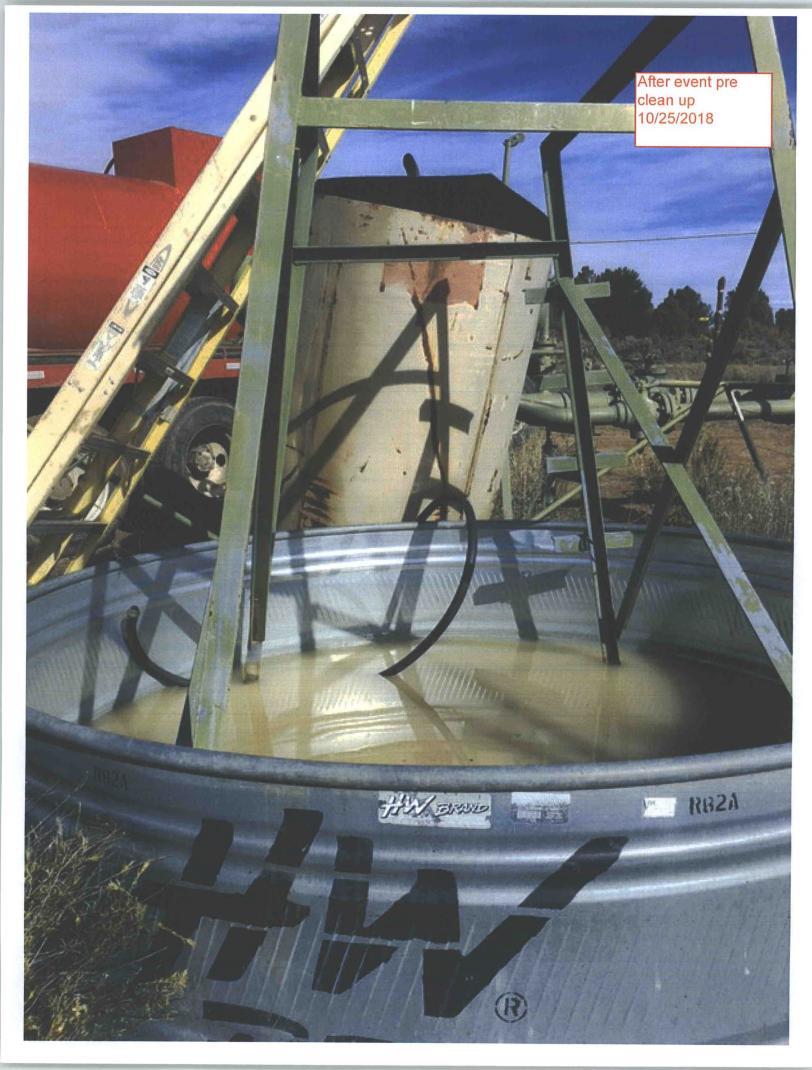
Closure

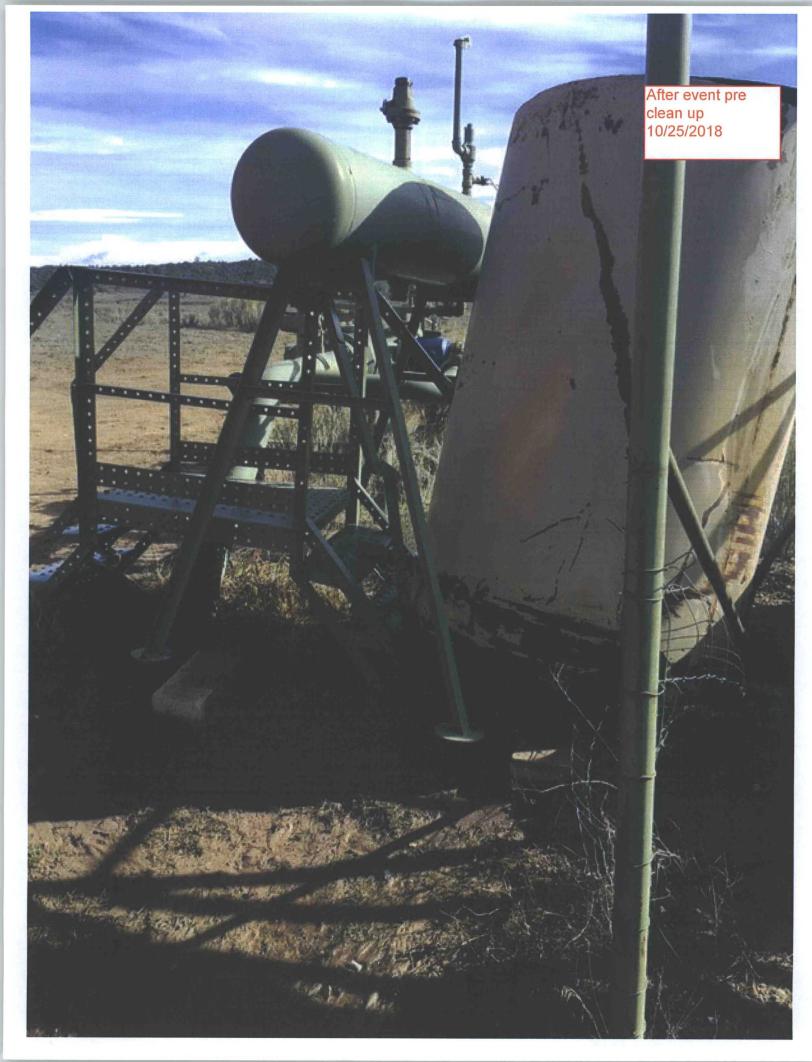
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
X Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Monica Sandoval
OCD Only Received by: Date: 21112019
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date: 21112019 Title: Environmental Decelor
Time Time.











Additional Notes:

Harvest Midstream - 4 Corners

Excavation/Sampling Form

Harvest Midstream Company 1111 Travis Street Houston, TX 77002 713-209-2400

Release Name:Trunk M 6 in' Pig Receiver Methanol Responsible Person:

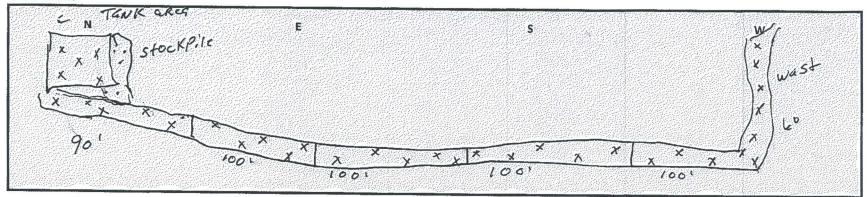
Reportable to the OCD? Yes	portable to the OCD? Yes Date							
Can be reportable for many reasons, not just volumes.		Remediation Start						
Signs of liquids release?Yes	10-25-18	5-18 started clean MP						
Sampling Required? Yes Sampling Is required for all reportable releases where any amount of liquids were released Disposal Required?		Notification of Sampling (2 business days) Who made call: Monica Sandoval & Morgan Killion Talked to: Vanessa Fields	Cory Smith (OCD) Office: 505-334-6178 x115 Cell: 505-419-2687 Vanessa Fields(OCD) Office: 505-334-6178 x119 Cell: 505-419-0463					
Date Yards - Disposal Facility 10-26-18 Hauled Fo Kutz Stockpik 36 Yards		Time: Notes: <u>initial sampling 10/30/2018 at 10:30 am</u>	Hobson Sandoval (Jicarilla) Öffice: 575-759-7445 Cell: 505-486-4966					
11-12-18 36 Yards Kutz Stockpile ON JONL liNer		Confirmation sampling/PID reading. Sampling or PID: 59mple Agency Witness: Corcy Smith						
		Back Fill Date (make sure to take pictures of open excavation	on)					
le le Yards	1-10-19	Close Date						
TOTAL:								

 100 March 100 /li>	
The state of the s	

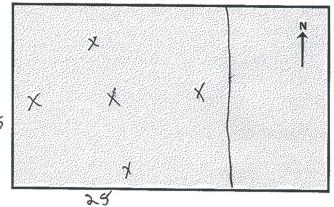
Sampling and Excavation Data

Include dimensions (ft) and sample locations

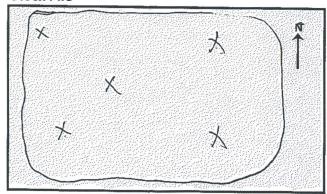
Side Walls



Bottom



Stock Pile



Sample or PID? Sample ReSampled 11-12-2019

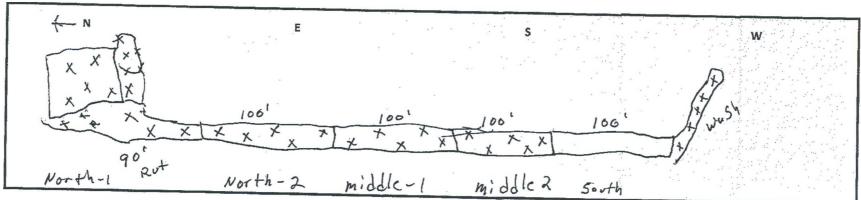
ID	Location (Bottom/Sidewall)	Type (Composite/Grab)	Comment/PID Value
TGNK AREG	BoHom	60 11 posite	2 Nd ROUNS
North Akea I			
North Area 2			
middle Arca I			-
middle ARea 2			
500th ARCA			
Wash			
Stockpile	BoHon	Composite	

Composite samples must represent less than 200 square feet.

Sampling and Excavation Data

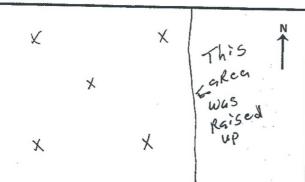
Include dimensions (ft) and sample locations





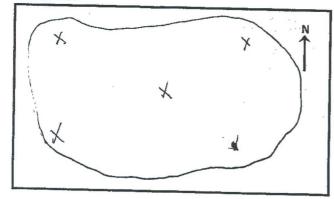
Bottom

Tank ale



Stock Pile

25



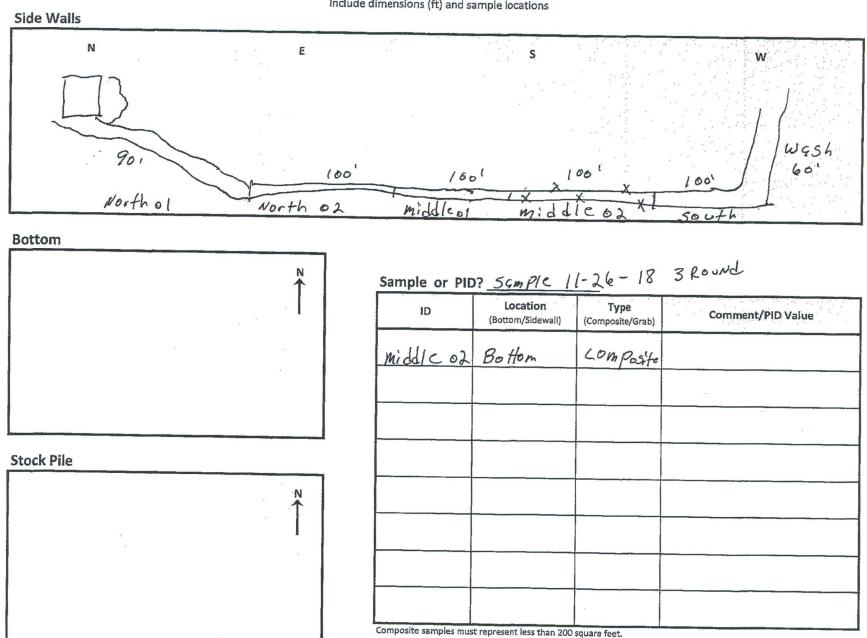
Sample or PID? <u>Samples</u> 10-30-2019

ID.	Location (Bottom/Sidewall)	Type (Composite/Grab)	Comment/PID Value
TGNK GREG	Bottom	Conposite	1-Round
North AREG 1	Bottom	composite	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
North area 2	136 HOM	composite	
middle area i	BoHom	Composite	
middle grea 2	Bottom	conposite	
560th ARCA	BoHDM	composite	
Wash Areq	Botton	Composite	
Stockple	Bottom	composite	

Composite samples must represent less than 200 square feet.

Sampling and Excavation Data

Include dimensions (ft) and sample locations





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(NAD83 UTM in meters)

(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,

closed)

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

(In feet)

0 /	,							_						
POD Number	POD Sub- Code basin			Q 16		Sec	Tws	Rng	x	Y	Distance	WHEN SHEET SHEETS	STREET, BUSSEL	Water Column
SJ 01291	SJ	RA		4	1	25	30N	04W	302930	4073243* 🌑	946	500	250	250
SJ 03900 POD1	SJ	RA	4	4	4	26	30N	04W	302124	4072384 🌑	1191	380	200	180
SJ 03742 POD1	SJ	RA	4	4	3	26	30N	04W	301401	4072375* 🌑	1915	480	210	270
SJ 00037	SJ	RA			2	04	29N	04W	298778	4070389*	4955	373		
SJ 00042	SJ	RA			1	28	30N	04W	297901	4073566*	5543	62		
SJ 01575	SJ	RA	2	4	4	80	29N	03W	306675	4067672*	5782	306		

Average Depth to Water:

220 feet

Minimum Depth:

200 feet

Maximum Depth:

250 feet

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 303316.15

Northing (Y): 4072378.57

Radius: 10000



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

November 06, 2018

Monica Sandoval Harvest 1755 Arroyo Dr. Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Trunk M Methanol

OrderNo.: 1811071

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/31/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

1811071-001A / TANK AREA

Attn:

ANDY FREEMAN

Batch #:

181031036

Project Name:

TRUNK M METHANOL

Analytical Results Report

Sample Number Client Sample ID 181031036-001

Sampling Date

10/30/2018

Date/Time Received

10/31/2018 11:42 AM

Extraction Date

11/2/2018

Matrix Comments Soil

Sampling Time

11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	376	mg/kg	50	11/5/2018 11:04:00 AM	RPR	GC/FID	
%moisture	6	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number Client Sample ID 181031036-002

1811071-002A / NORTH AREA 1

1811071-003A / NORTH AREA 2

Sampling Date

10/30/2018

Date/Time Received 10/31/2018 11:42 AM

Matrix

Sampling Time

11:10 AM

Extraction Date 11/2/2018

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	310	mg/kg	50	11/5/2018 11:50:00 AM	RPR	GC/FID	
%moisture	6.3	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number Client Sample ID 181031036-003

Sampling Date

10/30/2018

Date/Time Received

10/31/2018 11:42 AM

Extraction Date

11/2/2018

Matrix

Soil

Sampling Time 11:15 AM

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	ND	mg/kg	50	11/5/2018 12:05:00 PM	RPR	GC/FID	
%moisture	0	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

181031036

Project Name:

TRUNK M METHANOL

Analytical Results Report

Sample Number

181031036-004

Sampling Date

10/30/2018

Date/Time Received

Extraction Date

10/31/2018 11:42 AM

Client Sample ID Matrix

1811071-004A / MIDDLE AREA 1 Soil

Sampling Time 11:20 AM

11/2/2018

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	723	mg/kg	50	11/5/2018 12:20:00 PM	RPR	GC/FID	
%moisture	5.9	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number

181031036-005

Sampling Date

10/30/2018

Date/Time Received

10/31/2018 11:42 AM

Client Sample ID Matrix

1811071-005A / MIDDLE AREA 2 Soil

Sampling Time 11:30 AM **Extraction Date**

11/2/2018

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	420	mg/kg	50	11/5/2018 12:35:00 PM	RPR	GC/FID	
%moisture	13.7	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number

181031036-006

Sampling Date

10/30/2018

Date/Time Received **Extraction Date**

10/31/2018 11:42 AM

11/2/2018

Client Sample ID Matrix

1811071-006A / SOUTH AREA

Sampling Time 11:40 AM

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method_	Qualifier
Methanol	1270	mg/kg	50	11/5/2018 12:50:00 PM	RPR	GC/FID	
%moisture	7.7	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Batch #:

181031036

Address:

4901 HAWKINS NE SUITE D

Project Name:

TRUNK M METHANOL

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Analytical Results Report

Sample Number

181031036-007

Sampling Date

10/30/2018

Date/Time Received **Extraction Date**

10/31/2018 11:42 AM

Client Sample ID Matrix

1811071-007A / WASH

11/2/2018

Comments

Soil

Sampling Time 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	1290	mg/kg	50	11/5/2018 1:06:00 PM	RPR	GC/FID	
%moisture	10.3	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number

Parameter

Methanol

%moisture

181031036-008

Sampling Date

10/30/2018

Date/Time Received Extraction Date

10/31/2018 11:42 AM

11/2/2018

Client Sample ID Matrix

1811071-008A / STOCKPILE Soil

Sampling Time 12:50 PM

Comments

Qualifier PQL Method Result Units **Analysis Date** Analyst RPR GC/FID 756 mg/kg 50 11/5/2018 1:21:00 PM 7.4 Percent 11/5/2018 2:30:00 PM **RPR** %moisture

Authorized Signature

MCL

EPA's Maximum Contaminant Level

ND PQL

Practical Quantitation Limit

Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

The results reported relate only to the samples indicated.

Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Batch #:

181031036

Address:

4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109 **Project Name:**

TRUNK M METHANOL

Attn:

ANDY FREEMAN

Analytical Results Report
Quality Control Data

Lab Control Sample										
Parameter	LCS Resul	t Units	s LCS	Spike	%Rec	AR	%Rec	Prep	Date	Analysis Date
Methanol	225	mg/L	. 2	250	90.0	60)-130	11/2/	2018	11/5/2018
Lab Control Sample Duplicate	LCSD		LCSD				AR			
Parameter	Result	Units	Spike	%Rec	%RP	_	%RPD	Prep D		Analysis Date
Methanol	242	mg/L	250	96.8	7.3	}	0-25	11/2/2	018	11/5/2018
Matrix Spike							380			
Sample Number Parameter		Sample Result	MS Result	Units		MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181031036-001 Methanol		376	1330	mg/k		1000	95.4	50-150	11/2/2018	-
Matrix Spike Duplicate										ANTILLE
	MSD		MSD				AR			
Parameter	Result	Units	Spike	%R		4RPD	%RPD		p Date	Analysis Date
Methanol	1540	mg/kg	1000	116	.4	14.6	0-25	11/	2/2018	11/5/2018
Method Blank			W. W.							
Parameter		Re	sult	Un	its		PQL	Pr	ep Date	Analysis Date
Methanol		NI	D	mg	/kg		25	11/	/2/2018	11/5/2018

AR

Acceptable Range

ND PQL Not Detected

PDD

Practical Quantitation Limit Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Client Name: Harvest Work Order Number: 1811071 Victoria Gellas 10/31/2018 8:00:00 AM Received By: Victoria Zellar Completed By: **Anne Thorne** 11/2/2018 8:33:29 AM Reviewed By: AT 11/02/17 Chain of Custody Not Present Yes V No 🗌 1. Is Chain of Custody complete? 2. How was the sample delivered? FedEx Log In Yes V No NA 3. Was an attempt made to cool the samples? No 🗌 NA 🗆 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 Yes V 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? NA 🗌 No 🗹 Yes 8. Was preservative added to bottles? Yes No VOA Vials No 9. VOA vials have zero headspace? No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗔 for pH: Yes V 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes V 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? No 🗌 Checked by: 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA V 15. Was client notified of all discrepancies with this order? No Person Notified: Date ☐ eMail ☐ Phone ☐ Fax ☐ In Person By Whom: Via: Regarding: Client Instructions: 16. Additional remarks: DUE TO RUSH TAT, CW SHIPPED SAMPLES DIRECTLY TO ANATEK LABS/at 11/2/18

17. Cooler Information

	hain-	of-Cu	stody Record	Turn-Around	Time:								LAI			ALV.			RIB	AEI	AT	
Client:	Hari	lest	mid Stream	□ Standard	Ų	Rush															TOF	
				Project Name);													al.co				
Mailing	Address	1755	- ARROYODR	TRUNK	< m	m	ethano	1		490	01 H							e, NN		109		
Bloo	mfic	Id Nm	87413	Project #:				778.4				5-34					•	345-				
Phone:	#: 50	5-94	7-1852											- 100		-	7) E-7	uest	-		1 - 1 ·	5
email o	r Fax#: //	1 Sando	a Vola Harvest midstrea.	Project Mana	ger:				_	only)	0					(4)						
	Package:	- J	и	n				*	(8021)		(MRO)			6		4,SO ₄)	PCB's					
☐ Stan	dard		□ Level 4 (Full Validation)	MONIC	a 5	CNC	14401		ູທ	(Ga	RO/			SIMS)		9,						
Accredi				Sampler: <i>M</i> . On⊧lce:	0096	NK	11160		MB	TPH (Gas		E	=	8270		CI,NO ₃ ,NO ₂ ,PO ₄ ,	8082	ı		_		1 2
□ NEL		□ Othe	er	On Ice:	X JYe	ST.	I No		+	+	(GRO)	418	504	r 82	8	So So	-		OA)	aNo		orl
	(Type) _			Sample Temp	beratu I	e.	(6)10x - 100	פש	MTBE	MTBE	5B (G	por	pou	100	leta		icide	(A)	j-	25		\(\sigma \)
Data	Time	Matrix	Cample Beguest ID	Container	Prese	rvative	⊬ss≰HEAL N		+	+	8015	Met	Met	(83	8	s (F,	Pesticides	Š	(Sen	cth		pple
Date	Time	Matrix	Sample Request ID	Type and #		ype	18/107		втех	BTEX	TPH	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,	8081	8260B (VOA)	8270 (Semi-VOA)	MC		Air Bubbles (Y or N)
16/3/18	4100	6611	Tank area	1-402	Co	51		701	Ш	113	_				<u></u>	4	۵	8	8	X	+	
16/36/18	1/10	5611	1. 1. 006 11	1-402	١			002												X		
6/30/18	1115	3011	North akca #2	1-402				703												X		
0/30/18	1/20	5011	middle grea#1	1-402				204												X		
0/30/18	1130	5001	middlcaReq#2	1-402				205												X		
935/18	1140	Soil	southakea	1-402				colo												X		
0/30/18	1150	5011	Wash	1-402				7007												X		
5/36/18	1250		Stock Pile	1-402		_		TO8												X		
																				\perp		
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							<u> </u>	*****		L.						-8					\perp	
Date:	Time:	Relinquish	ed by: Lillion	Received by:	, -	١.	Date T	ime	Rer	nark	S:											
7/8 Date:	1428 Time:	Relinquish	/	Received by:	M	HO E	Date T	/42 <u>%</u>	-													
Ma i	Time.	/ A.	1 / 1	1/4- 1/	211	Cerries VVZ id	3/118	D. 00														
3018	11640	Mu	stu libile	MUBUUM !	PYXAN	CON	U JU	O.CO	neer!	hility	Anves	ıh cori	rnete	d dete	sadll b-	o oloo	lu not-	stad as	the c	nahdiasi	report :	
- 1	r necessary.	samples sub	mitted to Hall Environmental may be subc	contracted to other a	Delibert	INDOISIOGE	es. This serves as	nouce or this	pussi	bility.	rily St	וטסט-מו	u acte	u udid	WIII DE	clear	ly nota	TEG OU	uie a	narytical	Ighour.	



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

November 19, 2018

Monica Sandoval
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL:
FAX

RE: 2nd Set of Samples Trunk M Methanol

OrderNo.: 1811634

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/13/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:

HALL ENVIRONMENTAL ANALYSIS LAB

3

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

181113061

Project Name:

11/15/2018 3:00:00 PM

1811634

Analytical Results Report

Sample Number

181113061-001

Sampling Date

11/12/2018

Date/Time Received 11/13/2018 11:12 AM

Client Sample ID

%moisture

1811634-001A/TANK AREA 01-02

Sampling Time 10:30 AM

11/14/2018 **Extraction Date**

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	44.3	ma/ka	25	11/15/2018 1:22:00 PM	TGT	GC/FID	

Sample Number

181113061-002

Sampling Date

Percent

11/12/2018

Date/Time Received **Extraction Date**

TGT

11/13/2018 11:12 AM

Client Sample ID

1811634-002A/NORTH AREA 01-02 Sampling Time

10:40 AM

11/14/2018

%moisture

Matrix Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	67.3	mg/kg	25	11/15/2018 1:35:00 PM	TGT	GC/FID	
%molsture	6.6	Percent		11/15/2018 3:00:00 PM	TGT	%moisture '	

Sample Number

181113061-003

Sampling Date

11/12/2018

Date/Time Received **Extraction Date**

11/13/2018 11:12 AM

Client Sample ID Matrix

1811634-003A/NORTH AREA 02-02

Sampling Time 10:45 AM

11/14/2018

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	ND	mg/kg	25	11/15/2018 1:48:00 PM	TGT	GC/FID	
%moisture	3.3	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Batch #:

181113061

Address:

4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109 **Project Name:**

1811634

Attn:

ANDY FREEMAN

Analytical Results Report

Sample Number

1811.13061-004

Sampling Date

11/12/2018

Date/Time Received

Analyst

11/13/2018 11:12 AM

Client Sample ID

Methanol

%moisture

1811634-004A/MIDDLE AREA 01-02

Sampling Time

10:50 AM

25

Extraction Date 11/14/2018

Matrix Comments

Parameter Result Units PQL Analysis Date

275

5.5

11/15/2018 2:00:00 PM TGT GC/FID 11/15/2018 3:00:00 PM TGT %moisture

GC/FID

Qualifier

Method

Sample Number

181113061-005

Sampling Date

mg/kg

Percent

Date/Time Received Extraction Date

11/13/2018 11:12 AM

Client Sample ID

1811634-005A/MIDDLE AREA 02-02 Soil **Sam**

44.00.484

11/12/2018

11/14/2018

Matrix Comments Sampling Time 11:00 AM

Method Qualifier **Parameter** Result Units PQL **Analysis Date** Analyst GC/FID Methanol 1960 mg/kg 11/16/2018 12:50:00 PM TGT %moisture 11/15/2018 3:00:00 PM TGT %moisture 9.3 Percent

Sample Number Client Sample ID 181113061-006

Sampling Date

11/12/2018

Date/Time Received

Extraction Date

11/13/2018 11:12 AM

11/14/2018

Matrix

1811634-006A/SOUTH AREA 02

Sampling Time 11:10 AM

Comments

Qualifier Parameter Result Units PQL **Analysis Date** Analyst Method TGT GC/FID Methanol ND mg/kg 11/16/2018 1:03:00 PM %moisture 9.7 Percent 11/15/2018 3:00:00 PM TGT %moisture

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Batch #:

181113061

Address:

4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109 **Project Name:**

1811634

Attn:

ANDY FREEMAN

Analytical Results Report

Sample Number

181113061-007

Sampling Date

11/12/2018 Date/Time Received

Extraction Date

1 11/13/2018 11:12 AM

11/14/2018

Client Sample ID

1811634-007A/WASH AREA 02 Soil

Sampling Time 11:15 AM

Matrix Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	227	mg/kg	25	11/16/2018 1:15:00 PM	TGT	GC/FID	
%moisture	11.1	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Sample Number

181113061-008

Sampling Date 11/12/2018

Date/Time Received Extraction Date

Date/Time Received 11/13/2018 11:12 AM

11/14/2018

Client Sample ID

1811634-008A/STOCK PILE AREA 02 Soil Samp

Sampling Time 11:20 AM

Matrix Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	66.7	mg/kg	25	11/16/2018 1:28:00 PM	TGT	GC/FID	
%moisture	3.4	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Authorized Signature

Todd Taruscio, Lab Manager

MCL

EPA's Maximum Contaminant Level

ND PQL Not Detected Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.

The results reported relate only to the samples indicated.

Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Batch #:

181113061

Address:

4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109 Project Name:

1811634

Attn:

ANDY FREEMAN

Analytical Results Report

Quality Control Data

Lab Control Sa	mple										
Parameter		LCS Result	Units	LCS	Spike	%Rec	AR	%Rec	Prep	Date	Analysis Date
Methanol		280	mg/L	25	50	112.0	60	-130	11/14	/2018	11/15/2018
Matrix Spike											
Sample Number	Parameter		Sample Result	MS Result	Unit	te	M\$ Spike	%Rec	AR %Rec	Pren Date	Analysis Date
181113061-006	Methanol		ND	523	mg/l		500	104.6		11/14/2018	
		·V									
Matrix Spike D	uplicate	MSD		MSD				AR			
Parameter		Result	Units	Spike	%F	Rec	%RPD	%RPI) Pre	p Date	Analysis Date
Methanol		483	mg/kg	500	96	8.6	8.0	0-25	11/	14/2018	11/15/2018
Method Blank											ALLEGO I
Parameter			Re	sult	Ų	nits		PQL	Pr	ep Date	Analysis Date
Methanol			NE)	m	g/kg		25	11/	14/2018	11/15/2018

AR

Acceptable Range

ND Not Detected

PQL RPD Practical Quantitation Limit Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL{NELAP};E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL; 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Harvest	Work Order No	umber: 1811634		RcptNo:	1
Received By: Jazzmine Burkhead	11/13/2018 8:00	:00 AM	Jugain Bushhall		
Completed By: Anne Thorne	11/13/2018 9:48	:13 AM	Jugin Buckhail.		
Reviewed By: AT 11/13/18			Cittle Str.	~	
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u>					
3. Was an attempt made to cool the sample	s?	Yes 🗸	No 🗆	NA 🗌	
4. Were all samples received at a temperature	re of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Viais 🗹	
10. Were any sample containers received bro	ken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH:	>12 unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
14. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)			L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CTD-
Special Handling (if applicable)				_	
15. Was client notified of all discrepancies wi	th this order?	Yes 🗀	No 🗆	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Vi	#	hone Fax	In Person	
16. Additional remarks:					
DUE TO RUSH TAT, CW SHIPPE	SAMPLES DIRECTI	LY TO ANATEK/at 11	/13/18		

17. Cooler Information

												8.								541	
C	hain	-of-Cu	stody Record	Turn-Around	Time:								_			_					
Client: Harvest mid stream			□ Standard □ Rush ASA			HALL ENVIRONMENTAL ANALYSIS LABORATORY															
	,		77.00	Project Name): 2	Nd Sct of						v.hal						KA	10	KY	
Mailing	Address	: 175	5- Arroyo DR	TOUN	' on un	- Hadal		40	04 1.1									1400			
Bla	OME	7-11	1m 874/3	Project Name: 2 Nd Sct of Sample TRUNK M Methanol Project #:					4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107												
			36-4966	7 -					Tel. 505-345-3975 Fax 505-345-4107 Analysis Request												
			vala howest.com	Project Manager:				<u>\S</u>	0											T	
QA/QC Package:								/ DRO / MRO)			(S)		SC.4	PCB's							
☐ Standard ☐ Level 4 (Full Validation)			MONICA SENDONGI				9	RO			SIMS)		PO	2 PC							
Accreditation ☐ NELAP ☐ Other			Sampler: Morgan Killight Onside No.				TPH (Gas only)	0 / D	€	-	8270		NO	808			2			9	
□ EDD					eralüje eralüje		E + TMB's (8021)		3RC	418.1)	504	or 82	<u>s</u>	Š	es/		(Semi-VOA)	CENO			or
	(1900)_	1			Cratule		+ MTBE	ATB	3B (thod	thod	310	8 Metals	<u>c</u>	ficid	OA)	ni-V	he			() se
Date	Time	Matrix	Sample Request ID	Container	Preservative	** HEAL-NO	+	+	801	(Me	(Me	s (8;	A 8 I	F) SI	Pes	8	(Sel	E			alddr
				Type and #	Туре	is ii kati	BTEX	BTEX + MTBE +	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH's (8310	RCRA	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270	1			Air Bubbles (Y or N)
1/12/18	1030	5011	TONK aRea	1-40>	Cool	701							11.	1	<u> </u>	ω	8	X		+	Q.
(12/18	1040	5011	North area	1-402	1	702												X			
1/12/18	10 45	5011	Nosth agea	1-402		703												X		\top	
1/12/18	1050	5011	middle GRC9	1-402		704												X			
1/12/18	1100	5011	Middle GREG Southanea Of	1-402		7045												X			П
/12/18	1110	50,1		1-402		206												X			\Box
1/12/18	1115	soil	Wash area of	1-402		-207												X			
12/18	1120	5611	Stock Pile GREAD	1-402	Y	208												X			П
																					П
																					П
																					П
					1																
Date:	Time:	Relinquish	ed by:	Received by:	1 0 11	14/1 .	Rem	narks	s:												
7/2//8 Date:	1336e	Relinquis	y Sillion	Received by	- Wult,	///12/18 /336 Date Time									. 1.					*	
11.1	TUSS	Mr.	the bolow		· K /h/	11/12/10	u	OCU	la				1	Ma	LIC	•					
112/18	necessary.	samples subi	mitted to Hall Environmental may be subc	ontracted to other ac	credited laboratorie	es. This serves as notice of this	Col	Uru	5/5	Sc.,	racted	datav	will be	clear	v nota	ed on	the af	nalytical	//) [3	117	



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

OrderNo.: 1811C41

November 30, 2018

Monica Sandoval

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Trunk M Methanol 3rd Round

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/27/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Batch #:

181127033

Address:

4901 HAWKINS NE SUITE D

Project Name:

1811C41

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Analytical Results Report

Sample Number

181127033-001

Sampling Date

11/26/2018

Date/Time Received 11/27/2018 11:01 AM

Client Sample ID

1811C41-001A/MIDDLE AREA 02-03 COMPOSITE

Extraction Date

11/28/2018

Matrix

Sampling Time 8:45 AM

Comments

Parameter	Result	Units	PQL	PQL Analysis Date		Method	Qualifier
Methanol	ND	mg/kg	25	11/29/2018 12:35:00 PM	RPR	GC/FID	
%moisture	7.2	Percent		11/29/2018 11:25:00 AM	RPR	%moisture	

Authorized Signature

MCL

EPA's Maximum Contaminant Level

ND

Not Detected

PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory. The results reported relate only to the samples indicated.

Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: Address: HALL ENVIRONMENTAL ANALYSIS LAB

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

181127033

Project Name:

1811C41

Analytical Results Report

Quality Control Data

Lab Control Sample										
Parameter	LCS Resul	t Units	LCS	Spike	%Rec	AR	%Rec	Prep	Date	Analysis Date
Methanol	241	mg/L	. 2	250	96.4	60)-130	11/28	/2018	11/29/2018
Lab Control Sample Duplicate										
Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RP	р °	AR %RPD	Prep D	ate	Analysis Date
Methanol	249	mg/L	250	99.6	3.3		0-25	11/28/2		11/29/2018
Matrix Spike		Comple	MS			MS		AR		
Sample Number Parameter		Sample Result	Result	Units		pike	%Rec	%Rec	Prep Dat	e Analysis Date
181127033-001 Methanol		ND	482	mg/kg		500	96.4	50-150	11/28/201	8 11/29/2018
Matrix Spike Duplicate										
	MSD	11-14-	MSD	N/D		6RPD	AR	Dro	p Date	Analysis Date
Parameter	Result	Units	Spike 500	%Re		6.4	%RPD 0-25		28/2018	11/29/2018
Methanol	452	mg/kg	500	90.	+	0.4	0-25	11/2		11/20/2010
Method Blank										
Parameter		Re	sult	Un	its		PQL	Pr	rep Date	Analysis Date
Methanol		NI)	mg	/kg		25	11/2	28/2018	11/29/2018

AR

Acceptable Range

ND

Not Detected

PQL RPD Practical Quantitation Limit Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Friday, November 30, 2018

Page 1 of 1



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Harvest	Work Order Numb	per: 1811C41		RcptNo	: 1
Received By: Anne Thorne	11/27/2018 7:00:00	AM	Aone Hu	~	
Completed By: Anne Thorne	11/27/2018 8:42:30	AM	anne Am	_	
Reviewed By: AT /// 27/18		,			
Chain of Custody		_			
1. Is Chain of Custody complete?		Yes 🗹	No 🗀	Not Present	?
2. How was the sample delivered?		<u>FedEx</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	na 🗆	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗀		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA \square	
9. VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials	
10. Were any sample containers received broke	en?	Yes	No 🗸	# of preserved	A 11/27/17
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or	r >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	_
Person Notified: By Whom: Regarding:	Date Wia:	eMail F	Phone Fax	In Person	
Client Instructions:				CALENCE AND CO.	
16. Additional remarks:					
DUE TO RUSH TAT, CW SHIPPED S	SAMPLE DIRECTLY T	O ANATEK/at 11/	27/18		
17. Cooler Information					

C	hain-	-of-Cu	stody Record	Turn-Around Time:					HALL ENVIRONMENTAL													
Client:	Herv	est n	aid Stream	□ Standard ☑ Rush ASAP			ANALYSIS LABORATORY															
-	7000			Project Name: 3 Roya L TRUNK M McHowa I																		•
Mailing	Address	1759	- ARROYODR	TRUNK	M Mc	thowa	/	www.hallenvironmental.com 4901 Hawkins NE - Albuquergue, NM 87109														
Blo	on t	Siela	L NM 87413	Project #:						I. 50												
Phone :	#: 50.	5-63	1-1852]					-		17		Α	naly	sis	Req	uest					
			uo 1@ Harvest midstreen	Project Mana	ger:				(Śļe	Ô					04)							
	Package:		· COM				021	s or	M			(O)	1	4,80	PCB's							
□ Stan	dard		☐ Level 4 (Full Validation)	Mocica:	Bandova	1		+ TMB's (8021)	+ TPH (Gas only)	DRO/MRO)			SIMS)		g',	2 2						
Accredi	tation			Sampler: 4/6	MAN Kil	lion		MB	PH		=	=	8270 8		Š	8082						9
□ NEL	AP	□ Othe	r	On least the	Yes the	alida N(O) a - j =	die 51.			8	73	504.1)	82	(0)	03.	s/s		(A)	7			or N
□ EDD	(Type)	***************************************		Sample Temp	perature:			H	BE	(G	od 4	bo	0 or	etals	Ž	ide	F	<u>-</u>	3			2
				Container	Preservative	Arrest Marie	(Art on the	+ MTBE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	(Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	ethoNa			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Type and #	Preservative Type	HI-7		BTEX.	X	186		B	T's	RA	ons	3.1 P	30B	0 (8				Buk
				/ /	7.	18110	4)	ВТІ	BTI	T P	F F	EDB	PAI	RC	Ani	808	826	827	E			Air
1/2/18	8:45	50:1	Middle aRea 02-63 Composite	1-402	ICC		-201												X			
					v																	
					,					\neg	\Box											
-									\dashv	\dashv	\dashv	\neg										+
								-	\dashv	\dashv	\dashv	\dashv	\dashv	\dashv	-		_			\dashv	+	+
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							A SECURITY OF LAW AND A SECOND														\top	
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, Date:	Time:	Relinquish	ed by:	Received by: Date Time Remarks:																		
26/18	1509	Musa	Kiteion	MAJL	lat	1/24/18	1509		71001110													
Date:	Time:	Relinquish	ed by:	Received by:)	Date 7	7//)	1					, 1									
Mohr	THE	M	otro balanton	1 (1/2	1 m -	12	0700															
10010	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.																					



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

Responsible Party

Contact Name

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

(505) 632-4475

HMOCD

Release Notification

AN 25 2019

Responsible Party

Harvest Four Corners, LLC

Kijun Hong

OGRID

Contact Telephone

37388

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Contact emai	il	khong@harvestr	midstream.com	Incident # ((assigned by OCD)	NCS 1904353014		
Contact mail	Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413							
	Location of Release Source							
Latitude		36.811634	0/4D 92 in dag	Longitude _ imal degrees to 5 decim		07.403965		
			(IVAD 65 in deci	imai degrees to 5 decim	ui piaces)			
Site Name	30-5			Site Type	Compressor S	tation		
Date Release	Discovered	1/5/2019		API# (if appl	licable)			
Unit Letter	Unit Letter Section Township Range				ty			
L	18	30N	Rio Ar	riba				
Surface Owner	Surface Owner: State Federal Tribal Private (Name:)							
			2,000000	Volume of F				
Crude Oi		Volume Release		calculations or specific	Volume Recov	volumes provided below) vered (bbls)		
Produced		Volume Release	ed (bbls)		Volume Recovered (bbls)			
		Is the concentrate produced water	tion of dissolved cl	hloride in the	Yes No)		
Condensa	ate	Volume Release			Volume Recov	vered (bbls)		
Natural C	Gas	Volume Release	ed (Mcf) 51		Volume Recov	vered (Mcf) 0		
Under (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)					ht Recovered (provide units)			
Cause of Release								
Extreme ten	Extreme temperatures and liquids in the line caused the supply line to the ESD to freeze and fail open.							
Upon discov	Upon discovery, the release was immediately stopped.							



State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the	e responsible par	ty consider this a major release?
19.15.29.7(A) NMAC?			
☐ Yes ☒ No			
If VEC was immediate n	otice given to the OCD? By whom?	To whom? Wh	nen and by what means (phone, email, etc)?
II 1ES, was ininiediate in	office given to the OCD. By whom:	TO WHOM: WI	ten and by what means (phone, eman, eve).
	Initi	ial Respons	e
The responsible	party must undertake the following actions im	nmediately unless the	y could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.		
	is been secured to protect human hea	lth and the envir	onment.
Released materials ha	ave been contained via the use of ber	ms or dikes, abs	orbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been remo	oved and manage	ed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, e	xplain why:	
has begun, please attach	a narrative of actions to date. If re-	medial efforts ha	on immediately after discovery of a release. If remediation ave been successfully completed or if the release occurred ach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	required to report and/or file certain relement. The acceptance of a C-141 report ate and remediate contamination that po	ease notifications a by the OCD does see a threat to grou	whowledge and understand that pursuant to OCD rules and and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have ndwater, surface water, human health or the environment. In ility for compliance with any other federal, state, or local laws
Printed Name: Kij	un Hong	Title:	Environmental Specialist
Signature:	16 H)	Date:	1/18/2019
email: khong@harve	estmidstream.com	Telephone:	505-436-8457
OCD Only			1 ,
Received by:	2CD	Date: _	1/25/19

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)					
Did this release impact groundwater or surface water? ☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information						
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody						

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	r .
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

	1. 1. the subsection of the su			
Remediation Plan Checklist: Each of the following items must be included	ed in the plan.			
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
	C. I. C I of named intime			
<u>Deferral Requests Only</u> : Each of the following items must be confirmed	as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production deconstruction.	n equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the er	vironment, or groundwater.			
	1 Complete and an and an area of that pursuant to OCD			
I hereby certify that the information given above is true and complete to the rules and regulations all operators are required to report and/or file certain which may endanger public health or the environment. The acceptance of a liability should their operations have failed to adequately investigate and resurface water, human health or the environment. In addition, OCD acceptance responsibility for compliance with any other federal, state, or local laws and	release notifications and perform corrective actions for releases a C-141 report by the OCD does not relieve the operator of mediate contamination that pose a threat to groundwater, nee of a C-141 report does not relieve the operator of			
Printed Name: Titl	e:			
Signature: Date	»:			
email: Tele	ephone:			
OCD Only				
Received by: Date	<u> </u>			
Approved Approved with Attached Conditions of Approv	val Denied Deferral Approved			
Signature: Date:				

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.			
☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)			
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)			
☐ Description of remediation activities			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.			
Printed Name: Kijun Hong Title: Environmental Specialist			
Signature: Date:			
email: <u>khong@harvestmidstream.com</u> Telephone: <u>505-436-8457</u>			
OCD Only			
Received by: Date: 2/12/19			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state or local laws and/or regulations. Closure Approved by: Date: Date: Title: Title:			



Harvest Midstream – 30-5 ESD Release Date: 1/5/2019 Incident Number: Harvest Four Corners, LLC 1755 Arroyo Drive Bloomfield, NM 87413 (505) 632-4600 www.harvestmidstream.com

NMOCD

FEB 1 2 2019

DISTRICT III

Executive Summary

On January 5, 2019, the Harvest Midstream - 30-5 facility experienced an Emergency Shutdown (ESD) and the ESD vent valve lifted, releasing natural gas to the atmosphere. The ESD valve activation was caused by a freeze in the supply line. Upon arrival of the Harvest employee, the release was immediately stopped.

As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.



Harvest Four Corners, LLC 1755 Arroyo Drive Bloomfield, NM 87413 (505) 632-4600 www.harvestmidstream.com

Harvest Midstream – 30-5 ESD Release Date: 1/5/2019 Incident Number:

NMOCD

FEB 1 2 2019

Site Map and Sampling Diagram





Harvest Four Corners, LLC 1755 Arroyo Drive Bloomfield, NM 87413 (505) 632-4600 www.harvestmidstream.com

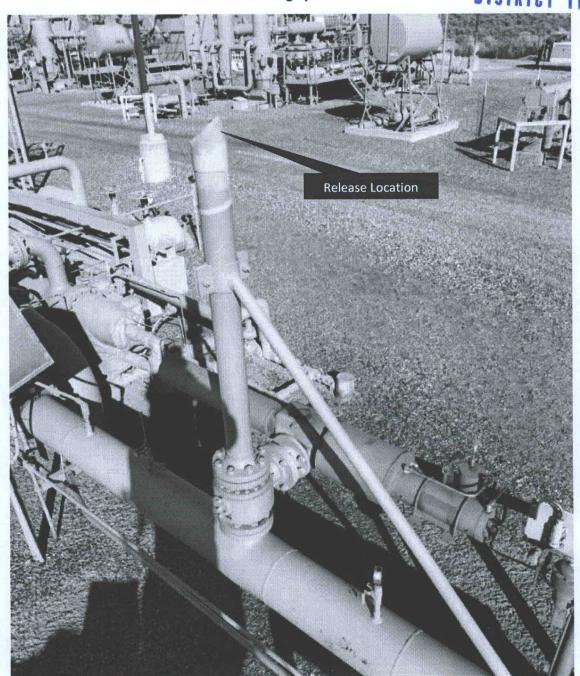
Harvest Midstream – 30-5 ESD Release Date: 1/5/2019 Incident Number:

NMOCD

FEB 1 2 2019

Photographs

DISTRICT III



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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	N	CS 1903 14B07
District RP		
Facility ID	F	561424834197
Application ID		

Release Notification

Responsible Party

Harvest Four Corners, LLC

OGRID

37388

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Contact Nam	e	Kijun Hong		Contact Te	elephone (505) The state of the		
Contact emai	1	khong@harvesti	midstream.com	Incident #	# (assigned by OCD) NCS1903148079		
Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413				M 87413			
atitude		36.484991		of Release So	-107.311031		
			(NAD 83 in dec	imal degrees to 5 decim	nal places)		
Site Name	Lateral H-2	20		Site Type	Pipeline		
Date Release	Discovered	1/30/2019		API# (if app	plicable)		
Unit Letter	Section	Township	Range	Coun	nty		
K	13	26N	5W	Rio Ar			
Crude Oi		Nolume Released	Il that apply and attach	calculations or specific	volume Recovered (bbls) 30		
Ma 10:		al(s) Released (Select a	ll that apply and attach	calculations or specific	c justification for the volumes provided below) Volume Recovered (hhls) 30		
N Produced		Volume Release			Volume Recovered (bbls) 30		
Z Troduced		Is the concentration of dissolved chloride produced water >10,000 mg/l?			Yes No		
Condensa	ate	Volume Release	ed (bbls)		Volume Recovered (bbls)		
Natural C	Gas	Volume Released (Mcf) 100			Volume Recovered (Mcf) 0		
Other (de	Other (describe) Volume/Weight Released (provide units)			e units)	Volume/Weight Recovered (provide units)		
	was discove	ered on the Latera					
		notified on the r					
Jicarma tri	De Has Deeli	nothica on the I	-150000				

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the re			
If YES, was immediate no	otice given to the OCD? By whom? To	o whom? Whe	n and by what means (phone, email, etc)?	
	Initial	l Response		
The responsible p	party must undertake the following actions immed	diately unless they	could create a safety hazard that would result in injury	
	ease has been stopped.			
	as been secured to protect human health			
			bent pads, or other containment devices.	
_ 1	ecoverable materials have been remove		appropriately.	
·	d above have <u>not</u> been undertaken, expl		in a distally after discovery of a valence. If remodiation	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
regulations all operators are public health or the environment failed to adequately investig	required to report and/or file certain release ment. The acceptance of a C-141 report by gate and remediate contamination that pose a	e notifications and the OCD does not a threat to ground	knowledge and understand that pursuant to OCD rules and d perform corrective actions for releases which may endanger of relieve the operator of liability should their operations have dwater, surface water, human health or the environment. In ty for compliance with any other federal, state, or local laws	
Printed Name: Kij	un Hong	Title:	Environmental Specialist	
Signature:	To the second	Date:	2/14/2019	
email: <u>khong@harv</u>	estmidstream.com	Telephone:	505-436-8457	
OCD Only Received by:	use fields	Date:	2115/2019	

District I
1625 N. French Dr., Hobbs, NM 88240
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Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

MVF190132838
F-5142834197
1 0016001111

Release Notification

Responsible Party

OGRID

37388

Harvest Four Corners, LLC

Contact Nan	ne	Kijun Hong		Contact	Telephone	(505) 632-	-4475	
Contact ema	il				ncident # (assigned by OCD)			
Contact mai	Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413							
Location of Release Source Latitude								
			(NAD 83 in deci	mal degrees to 5 de	cimal places)	107.682651		
Site Name	Manzanar	es		Site Typ	e Compressor	Station		
Date Release	Discovered	2/7/2019		API# (if a	applicable)			
Unit Letter	Section 28	Township 30N	Range 8W		unty Arriba			
Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)								
Crude Oil		Volume Released (bbls)		от оргон	Volume Reco	overed (bbls)	i below)	
Produced	Water	Volume Released (bbls)			Volume Recovered (bbls)			
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			☐ Yes ☐ No			
Condensat		Volume Released (bbls)			Volume Reco	Volume Recovered (bbls)		
⊠ Natural Ga	(1.202)			Volume Recovered (Mcf) 0				
Other (des	Other (describe) Volume/Weight Released (provide units)			Volume/Weig	Volume/Weight Recovered (provide units)			
Cause of Release								
Extreme temperatures and liquids in the line caused the supply line to the discharge PRV to freeze and fail.								
Upon discovery, the release was immediately stopped. No liquids were associated with this release.								

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does t	the responsible p	party consider this a major release?
☐ Yes ⊠ No			
If YES, was immediate no	otice given to the OCD? By whom	? To whom? V	When and by what means (phone, email, etc)?
	Ini	tial Respon	ise
The responsible p	arty must undertake the following actions i	immediately unless t	they could create a safety hazard that would result in injury
The source of the rele			
and the second s	s been secured to protect human he		
			psorbent pads, or other containment devices.
	coverable materials have been rem		ged appropriately.
If all the actions described	above have not been undertaken, e	explain why:	
Per 19.15.29.8 B. (4) NMA	AC the responsible party may com	mence remediati	ion immediately after discovery of a release. If remediation
within a lined containment	area (see 19.15.29.11(A)(5)(a) NN	MAC), please att	have been successfully completed or if the release occurred tach all information needed for closure evaluation.
I hereby certify that the inform	nation given above is true and complet	te to the best of m	y knowledge and understand that pursuant to OCD rules and
partie medicin of the environment	one. The acceptance of a C-141 report	by the OCD does	and perform corrective actions for releases which may endanger on trelieve the operator of liability should their operations have
addition, OCD acceptance of a	c and remediate confamination that no	se a threat to group	andwater, surface water, human health or the environment. In collity for compliance with any other federal, state, or local laws
and/or regulations.	•	1	state, or local laws
Printed Name: Kijun	Hong	Title:	Environmental Specialist
Signature:	15 B	Date:	
email: <u>khong@harvest</u>	midstream.com	Telephone:	505-436-8457
OCD Only			
Received by:	sa Fields	Date: _	2/22/2019

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Responsible Party

Contact Name

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

(505) 632-4475

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	N.			ш		ш

MAR 07 2019

Release Notification

DISTRICT III

Harvest Four Corners, LLC

Kijun Hong

Responsible Party

OGRID

Contact Telephone

37388

Contact email khong@harvestmidstream.com Inc		Incident # (d	Incident # (assigned by OCD)			
Contact mailing address 1755 Arroyo Dr., Farmington, NM 8741			, Farmington, NM 874	13 K1	8 COPY 200 FI	
			Location of R	delease So	ource	
Latitude		36.745799	(NAD 83 in decimal de	Longitude _	-107.443609	
			(IAD 65 in accumus ac		,	
Site Name	29-6-2				Compressor Station	
Date Release	Discovered	2/18/2019		API# (if appl	licable)	
Unit Letter	Section	Township	Range	Count	ty	
A	10	29N	6W	Rio Arı	riba	
Surface Owner	Surface Owner: State Federal Tribal Private (Name:) Nature and Volume of Release					
Crude Oil		Volume Release		tions or specific	justification for the volumes provided below) Volume Recovered (bbls)	
Produced		Volume Release	. ,		Volume Recovered (bbls)	
Troduced	water		ion of dissolved chlorid	e in the	☐ Yes ⊠ No	
Condensa	ite	Volume Release			Volume Recovered (bbls)	
☐ Natural C	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)	
Other (de	scribe)	Volume/Weight	Released (provide units	s)	Volume/Weight Recovered (provide units)	
Waste Wate		80 BBLs			80 BBLs	
Storm Water						
Cause of Rel						
Due to high	amounts of	precipitation, the	e waste water tank ove	erflowed into	unlined secondary containment.	
All free liqu	ids have be	en recovered by v	ac truck.			

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Harvest Four Corners, LLC

OGRID

37388

Contact Nam	e	Kijun Hong			Contact Te	elephone	(505) 632-44	75
Contact email khong@harvestmidstream.com			Incident # (assigned by OCD)					
Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413								
			Location	of R	elease So	ource		
Latitude	3	36.745799	(NAD 83 in deci	imal de	Longitude _ grees to 5 decim	nal places)	-107.443609	
Site Name	29-6-2				Site Type	Compresso	r Station	
Date Release	Discovered	12/18/2018			API# (if app	licable)		
Unit Letter	Section	Township	Range		Coun	•		NMOCD
A	10	29N	6W		Rio Ar	riba		MAR 07 2010
Surface Owner	r: State	☐ Federal ☐ Tr	ibal 🛭 Private (A			Release		DISTRICT III
	Matarial	I(s) Dalagged (Calcat al	I that apply and attach	ooloula	tions or specific	justification for t	he volumes provided be	elow)
Crude Oil		Volume Release		caicuia	nons of specific	Volume Red	covered (bbls)	2011)
Produced	Water	Volume Release	d (bbls)			Volume Red	covered (bbls)	
		Is the concentrate produced water	ion of dissolved ch >10,000 mg/l?	nlorid	e in the	☐ Yes ⊠	No	
Condensa	ite	Volume Release				Volume Red	covered (bbls)	
☐ Natural G	as	Volume Release	d (Mcf)			Volume Red	covered (Mcf)	
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/We	eight Recovered (pr	rovide units)
Waste Wate		80 BBLs				80 BBLs		
Storm Wate								
	amounts of	precipitation, the		k ove	rflowed into	unlined seco	ndary containmer	ıt.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

	VOLUME C. 1 (A) Leastly required to consider this a major valence?
Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Unauthorized release of a volume, excluding gases, of 25 barrels or more.
17.13.27.7(11) TAIVITE.	Chauthorized release of a volume, the state of great property of the state of the s
Yes □ No	
If YES, was immediate n	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	was given by email to Vanessa Fields, Cory Smith, and Jim Griswold of the NMOCD by Kijun Hong on
	Initial Response
	•
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	lease has been stopped.
The impacted area ha	as been secured to protect human health and the environment.
	have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	recoverable materials have been removed and managed appropriately.
_	
If all the actions describe	ed above have not been undertaken, explain why:
Der 10 15 20 8 B (4) NN	MAC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
within a lined containme	ent area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the info	formation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	re required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environ	nment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have igate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of	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.	
Printed Name: Kij	Title: Environmental Specialist
Timed Ivanie.	11/12
Signature:	Date:
email: <u>khong@harv</u>	vestmidstream.com Telephone: 505-436-8457
OCD Only	
Received by:	Date: 3 17 2819
received by.	

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

Responsible Party

Contact Name

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCS 1900334230
District RP	
Facility ID	
Application ID	

NMUCD

Release Notification

MAR 2 3 2019

Responsible Party

OGRID

Contact Telephone

Harvest Four Corners, LLC

Kijun Hong

90 B	AT		O T	
U I	21	KI	CT	

(505) 632-4475

Contact ema	il	khong@harvestmidstream.com			Incident # (assigned by OCD) NCS 1900334230		
Contact mailing address 1755 Arroyo Dr., Farmington, NM 87413							
			Location	of R	elease So	ource	
Latitude		36.449293	(NAD 83 in deci	imal deg	Longitude _ grees to 5 decim	nal places)	07.392803
Site Name	Lateral H-8	3			Site Type	Pipeline	
Date Release	Discovered	11/29/2018			API# (if app	licable)	
Unit Letter	Section Township Range 31 26N 5W			Coun Rio Ar	-		
	Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
☐ Crude Oil Volume Released (bbls) Volume Recovered (bbls)						vered (bbls)	
☑ Produced Water Volume Released (bbls) 0.24					Volume Reco		
Is the concentration of dissolved chlorid produced water >10,000 mg/l?			loride	in the	Yes No	0	
Condensar	te	Volume Released				Volume Reco	vered (bbls)
Natural G	as	Volume Released	d (Mcf) 22.97			Volume Recov	vered (Mcf) 0
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)					ht Recovered (provide units)		
Cause of Release							
Pipeline failure due to corrosion.							



State of New Mexico Oil Conservation Division

Incident ID	NCS 1900334230	
District RP		
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the	responsible par	rty consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	May with reasonable probability	reach a watero	course. Possible ground water impacts.
⊠ Yes □ No			
Yes, Monica Sandoval sp Vanessa Fields, and Jim The responsible p	poke with Vanessa Fields via phon Griswold (OCD) by email on 11/3 Initi party must undertake the following actions im	e on 11/29/2018 0/2018 @ 12:34 al Respons mediately unless the	SE ey could create a safety hazard that would result in injury
			orbent pads, or other containment devices.
	coverable materials have been remo		•
	l above have <u>not</u> been undertaken, ex		The state of the s
has begun, please attach a	a narrative of actions to date. If ren	nedial efforts ha	on immediately after discovery of a release. If remediation ave been successfully completed or if the release occurred ach all information needed for closure evaluation.
regulations all operators are public health or the environn failed to adequately investigated to adequate the public health or the environment of the public health or the environment of the public health operators are the public health or the environment of the environment	required to report and/or file certain releated. The acceptance of a C-141 report be at and remediate contamination that post	ase notifications a by the OCD does se a threat to groun	w knowledge and understand that pursuant to OCD rules and and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have indwater, surface water, human health or the environment. In ility for compliance with any other federal, state, or local laws
Printed Name: Kiju	in Hong	Title:	Environmental Specialist
Signature:	16-16 ·	Date:	12/17/2018
email: khong@harve			505-436-8457
OCD Only			
Received by:		Date: _	

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	NCS 1900334230
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: higher the conditions that existed prior to the release or their final land use in Signature: Date: 3/22/2319 Telephone: Sos-632-4475
OCD Only
Received by: Vanssa Fields Date: 312312019
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date: 3/21/2019
Printed Name: Vanesse Fields Title Environmentat pacelist

Executive Summary

Harvest Four Corners, LLC (Harvest) presents the following report summarizing remediation and soil sampling activities at the Lateral H-8 pipeline release (Site) located in Unit A, Section 31, Township 26 North, Range 5 West, in Rio Arriba County, New Mexico (Figure 1). On November 29, 2018, Harvest discovered a release due to corrosion on the pipeline. Harvest estimated 22.97 thousand cubic feet (MCF) of natural gas, 0.24 barrels (bbl) of produced water, and 0.71 bbls of condensate were released, impacting approximately 72 cubic yards of soil. The release occurred on private land within the Jicarilla Apache Reservation. Harvest notified the Jicarilla Oil and Gas Administration and the New Mexico Oil Conservation Division (NMOCD) within 24 hours via phone and sent a follow up email within 48 hours of discovery of the release. Harvest submitted a Release Notification and Corrective Action Form C-141 to the NMOCD on December 17, 2018. The NMOCD assigned the release incident number NCS1900334230.

Due to impacted soil observed directly adjacent to Tapicito Creek, which is a significant watercourse, the following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 100 mg/kg total petroleum hydrocarbons (TPH); and 600 mg/kg chloride.

Harvest repaired the pipeline and excavated approximately 72 yards of impacted soil. The final excavation was approximately 22 feet by 16 feet with an average depth of 4 feet below ground surface. All impacted soil was properly disposed of at Envirotech Landfarm in San Juan County, New Mexico.

On December 6, 2018, Harvest collected four 5-point composite soil samples from the sidewalls of the excavation. Hopson Sandoval and Jason Sandoval with the Jicarilla Apache Environmental Protection Office (EPO) were present during the soil sampling. A map of the sample locations is included as Attachment 1.

The soil samples were shipped following chain-of-custody procedures to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH- motor oil range organics (MRO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.0.

Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria in all soil samples collected. A table with laboratory analytical data is included as Attachment 2 and copies of the laboratory analytical results are included as Attachment 3.

Upon receiving the laboratory analytical results, Harvest submitted them to EPO via email. Hopson Sandoval responded via on email on December 10, 2018, stating that the EPO authorized Harvest to backfill the excavation (Attachment 4).

The EPO approved closure of the site because all soil samples collected from the sidewalls of the excavation were compliant with the NMOCD Table 1 closure criteria. Harvest requests no further action from the NMOCD for incident number NCS1827631854. An updated NMOCD Form C-141 is included with this report.

ATTACHMENT 1
FIELD MAP

Remediation Excavation and Sampling Form

Site Name	rt H-	-8 Lin	ve Leak		
Excavation Dimen	sions (feet)				
	Length	160	Width	4	Depth
Excavation Diagram (Depict notable site feat				ocations, north ar	row, etc.)
3 337	* * * * * * * * * * * * * * * * * * *	4 × ×	X 16	-	5

Sample Information

OCD Witness Sampling Yes or No

Agency(s) Representative(s) Hobson Sandoval & Juson Sandoval

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
	12-6-18	composite	5. dewall	
	12-6-18	composite	sidewall	
,	12-6-18	composite	5 idewall	
•	12-6-18	com posite	sidewall	
			,	We Hauled 72
				Yard To disposal
				ENVIROTECH

Hobson sold when we talk about Bock Till, sug the site That as the walks came back NON deet that we prople Not worry about the well This conversation took place on or around 12-10-18 when we got permission to Back Eill

ATTACHMENT 2
SOIL ANALYTICAL RESULTS

TABLE 1 SOIL ANALYTICAL RESULTS LATERAL H-8 PIPELINE RELEASE INCIDENT NUMBER NCS1900334230 RIO ARRIBA COUNTY, NEW MEXICO HARVEST FOUR CORNERS, LLC

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
North Wall Composite	4	12/6/18	< 0.016	< 0.031	< 0.031	< 0.062	< 0.062	<3.1	<9.9	<49	<49	43
West Wall Composite	4	12/6/18	< 0.015	< 0.030	< 0.030	< 0.060	< 0.060	<3.0	<9.8	<49	<49	<30
South Wall Composite	4	12/6/18	< 0.015	< 0.029	< 0.029	< 0.059	< 0.059	<2.9	<9.8	<49	<49	30
East Wall Composite	4	12/6/18	< 0.016	< 0.032	< 0.032	< 0.064	< 0.064	<3.2	<9.7	<49	<49	200
NMOCD Table 1 C	Closure Crite	ria	10	NE	NE	NE	50	NE	NE	NE	100	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram NE - Not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

< - indicates result is below the laboratory reporting limit

ATTACHMENT 3

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

December 10, 2018

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Lateral H 8

OrderNo.: 1812374

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/7/2018 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1812374

Date Reported: 12/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Project: Lateral H 8

Client Sample ID: North Wall Composite

Collection Date: 12/6/2018 10:00:00 AM

Lab ID: 1812374-001 Matrix: SOIL Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	43	30		mg/Kg	20	12/7/2018 11:26:35 AM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/7/2018 11:08:00 AM	41962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2018 11:08:00 AM	41962
Surr: DNOP	93.2	50.6-138		%Rec	1	12/7/2018 11:08:00 AM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Surr: BFB	101	73.8-119		%Rec	1	12/7/2018 10:26:38 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.016		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Toluene	ND	0.031		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Ethylbenzene	ND	0.031		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Xylenes, Total	ND	0.062		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/7/2018 10:26:38 AM	41948

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

- * 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 Quanitative 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1812374

Date Reported: 12/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Project: Lateral H 8

Lab ID: 1812374-002

Client Sample ID: West Wall Composite

Collection Date: 12/6/2018 10:10:00 AM

Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual U	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	ND	30	1	mg/Kg	20	12/7/2018 11:38:59 AM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.8	1	mg/Kg	1	12/7/2018 11:29:54 AM	41962
Motor Oil Range Organics (MRO)	ND	49	1	mg/Kg	1	12/7/2018 11:29:54 AM	41962
Surr: DNOP	95.4	50.6-138		%Rec	1	12/7/2018 11:29:54 AM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.0	1	mg/Kg	1	12/7/2018 10:50:11 AM	41948
Surr: BFB	94.7	73.8-119	1	%Rec	1	12/7/2018 10:50:11 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.015	1	mg/Kg	1	12/7/2018 10:50:11 AM	41948
Toluene	ND	0.030	1	mg/Kg	1	12/7/2018 10:50:11 AM	41948
Ethylbenzene	ND	0.030	3	mg/Kg	1	12/7/2018 10:50:11 AM	41948
Xylenes, Total	ND	0.060	1	mg/Kg	1	12/7/2018 10:50:11 AM	41948
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/7/2018 10:50:11 AM	41948

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 8 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1812374

Date Reported: 12/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: South Wall Composite

Project: Lateral H 8

Collection Date: 12/6/2018 10:20:00 AM

Lab ID: 1812374-003

Matrix: SOIL

Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	30	30	mg/Kg	20	12/7/2018 11:51:24 AM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/7/2018 11:52:04 AM	41962
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/7/2018 11:52:04 AM	41962
Surr: DNOP	99.1	50.6-138	%Rec	1	12/7/2018 11:52:04 AM	41962
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	2.9	mg/Kg	1	12/7/2018 11:13:47 AM	41948
Surr: BFB	93.1	73.8-119	%Rec	1	12/7/2018 11:13:47 AM	41948
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.015	mg/Kg	1	12/7/2018 11:13:47 AM	41948
Toluene	ND	0.029	mg/Kg	1	12/7/2018 11:13:47 AM	41948
Ethylbenzene	ND	0.029	mg/Kg	1	12/7/2018 11:13:47 AM	41948
Xylenes, Total	ND	0.059	mg/Kg	1	12/7/2018 11:13:47 AM	41948
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	12/7/2018 11:13:47 AM	41948

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

- 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 Quanitative 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1812374

Date Reported: 12/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: East Wall Composite

Project: Lateral H 8 Collection Date: 12/6/2018 10:30:00 AM

Lab ID: 1812374-004 Matrix: SOIL Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	200	30		mg/Kg	20	12/7/2018 12:03:48 PM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/7/2018 12:13:55 PM	41962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2018 12:13:55 PM	41962
Surr: DNOP	92.8	50.6-138		%Rec	1	12/7/2018 12:13:55 PM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Surr: BFB	95.6	73.8-119		%Rec	1	12/7/2018 11:37:28 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.016		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Toluene	ND	0.032		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Ethylbenzene	ND	0.032		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Xylenes, Total	ND	0.064		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/7/2018 11:37:28 AM	41948

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

- * 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 Quanitative 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 Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812374

10-Dec-18

Client:

Harvest

Project:

Lateral H 8

Sample ID MB-41969

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 41969

PQL

RunNo: 56164

Prep Date: 12/7/2018 Analysis Date: 12/7/2018

SeqNo: 1877391

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Result

ND 1.5

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

LCSS

Sample ID LCS-41969

SampType: Ics Batch ID: 41969

RunNo: 56164 SeqNo: 1877392

Units: mg/Kg

LowLimit

RPDLimit

Qual

Analyte

12/7/2018

Analysis Date: 12/7/2018 PQL

SPK value SPK Ref Val 15.00

SPK value SPK Ref Val %REC LowLimit

%REC 94.0

90

110

Result

%RPD

14

Chloride

HighLimit

Page 5 of 8

1.5

Qualifiers:

ND

Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- Practical Quanitative Limit **PQL**
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812374

10-Dec-18

Client:

Harvest

Project:

Lateral H 8

Sample ID LCS-41962	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 41962 RunNo: 56137										
Prep Date: 12/7/2018	Analysis D	ate: 12	2/7/2018	SeqNo: 1876105			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	98.4	70	130				
Surr: DNOP	4.2		5.000		84.7	50.6	138				

Sample ID MB-41962	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 41	962	R	RunNo: 5	6137				
Prep Date: 12/7/2018	Analysis D	ate: 12	2/7/2018	S	SeqNo: 1	876106	Units: mg/K	(g		
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		100	50.6	138			

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 Quanitative 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

Page 6 of 8

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#:

1812374

10-Dec-18

Client:

Harvest

Project:

Lateral H 8

Sample ID	MB-41948
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 41948

RunNo: 56167

Prep Date: 12/6/2018 Analysis Date: 12/7/2018 SeqNo: 1876979 Units: mg/Kg

HighLimit SPK value SPK Ref Val %RPD **RPDLimit** Qual %REC LowLimit PQL Analyte Result ND 5.0 1000

Gasoline Range Organics (GRO) 960 Surr: BFB

96.1 73.8 119

Sample ID LCS-41948 Client ID: LCSS

12/6/2018

Prep Date:

SampType: LCS Batch ID: 41948 TestCode: EPA Method 8015D: Gasoline Range

RunNo: 56167

Analysis Date: 12/7/2018

Units: mg/Kg SeqNo: 1876980

RPDLimit HighLimit %RPD Qual

SPK value SPK Ref Val %REC LowLimit Result PQL Analyte 80.1 123 0 101 Gasoline Range Organics (GRO) 25 5.0 25.00 73.8 119 Surr: BFB 1100 1000 108

Oualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range E
- Analyte detected below quantitation limits

Page 7 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812374

10-Dec-18

Client:

Harvest

Project:

Lateral H 8

Sample ID MB-41948	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	n ID: 419	948	R	RunNo: 5	6167							
Prep Date: 12/6/2018	Analysis D	ate: 12	2/7/2018	S	SeqNo: 1	876984	Units: mg/K						
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	1.0		1.000		102	80	120						

Sample ID LCS-41948	SampT	ype: LC	S	Test						
Client ID: LCSS	Batch	ID: 41 9	948	R						
Prep Date: 12/6/2018	Analysis D	ate: 12	2/7/2018	S	SeqNo: 1					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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 Quanitative 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

Page 8 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Harvest		Work C	Order Numbe	er: 1812	374			RcptNo	: 1
Received By:	Anne Thor	ne	12/7/201	8 9:00:00 AM	И			An		
Completed By:	Anne Thor	ne	12/7/201	8 9:03:13 AM	VI.		an	Am	_	
Reviewed By:	ENM		12/7	1/18						
A a s a	-	12/07/18		110						
Chain of Cus		12101111								
1. Is Chain of Cu		ete?			Yes	~	No		Not Present	
2. How was the	sample delive	ered?			Cour	ier	5			
Log In									🗆	
Was an attem	pt made to c	ool the samples	3?		Yes	V	No		NA 🗌	
4. Were all samp	les received	at a temperatur	re of >0°C to	6.0°C	Yes	V	No		na \square	
5. Sample(s) in p	oroper contail	ner(s)?			Yes	V	No			
6. Sufficient sam	ple volume fo	or indicated test	(s)?		Yes	· •	No			
7. Are samples (except VOA a	and ONG) prope	erly preserved	d?	Yes	~	No			
8. Was preservat	tive added to	bottles?			Yes		No	~	NA 🗆	
9. VOA vials hav	e zero heads	pace?			Yes		No		No VOA Vials 🗹	
10. Were any san	nple containe	rs received bro	ken?		Yes		No	~	# of preserved	
44 =					Yes		No		bottles checked for pH:	
 Does paperwo (Note discrepa 					res	•	NO			or >12 unless noted)
12. Are matrices of			of Custody?		Yes	✓	No		Adjusted?	
13. Is it clear what	t analyses we	ere requested?			Yes	V	. No		5 / 11	
14. Were all holding (If no, notify co	-				Yes	~	No		Checked by:	
Special Handl	ing (if app	licable)								
15. Was client no	tified of all di	screpancies wit	h this order?		Yes		No		NA 🗹	
Person	Notified:			Date		MATERICAL				
By Who	m:			Via:	☐ еМ	ail 🔲	Phone [Fax	☐ In Person	
Regard	ing:	P. A. S. A. W. C. D. D. W. C. M.				THE CONSTRUCTION OF A STATE OF				
Client In	nstructions:	Procedural for coloring and an arrangement of the process of the coloring and arrangement of the coloring arrangement of the c								
16. Additional re	marks:									
17. Cooler Infor								tale and		
Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву		
2	1.0		res res		*************					
		.1	THE PARTY OF THE PARTY AND THE PARTY OF THE PARTY.	L				·	1	

Chain-of-Custody Record			Turn-Around	Time:	Samo	dur			9	ш	AI		EN	W	TC		NI K	ЛE	NT	· A I		
Client:	Har	VEST	mid Steam	□ Standard ☑ Rush				HALL ENVIRONMENTAL ANALYSIS LABORATORY														
. •				Project Name:				www.hallenvironmental.com														
Mailing Address: 1755 ARROYO DR				Later	al H=	8		4901 Hawkins NE - Albuquerque, NM 87109														
RIDAL	nfie	1d NV	1 87413	Project #:				Tel. 505-345-3975 Fax 505-345-4107														
Phone #	: 508	632.	- u475	2				Analysis Request														
email or	Fax#: k	HONGE	@ Hervest mids lean	Project Mana	ger:				nly)	8					040							
QA/QC P		9	· Com		, , , , ,			302	as o	/ M			8		, S(PCB's						
☐ Stand	dard		☐ Level 4 (Full Validation)	KIJUN	HONG		0	3's (8	<u>(Ö</u>	/ DRO / MRO)			SIMS)		P, P	2 P(
Accredit		- 011		Sampler: ///	organi	Kill.0		TMB's (8021)	BTEX + MTBE + TPH (Gas only)		-	504.1)	8270		Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082						Î
□ NELA		□ Othe	r					+	+ ш	SRC	418	(Q)	or 8	SE	် ရ	es/		(OA)	1			Y or
□ EDD	(Type)_			ATLIONIS	perature Z	(Cae, F. 174). Design		+ MIBE	/TB) B	hod	hod	310	Meta	드,	ticid	OA)	ni-V	brde	20) se
Data	Time	Matrix	Sample Beguest ID	Container	Preservative	Ying a	i) L Night-A	+	+	TPH 8015B (GRO	TPH (Method 418.1)	(Method	PAH's (8310	RCRA 8 Metals	S (F	Pes	8260B (VOA)	8270 (Semi-VOA)	20			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Type and #	Туре	7	у Логия 3 Л	BTEX		표	H	EDB	AH's	S.	niol	93	260	270	U			E. B
2111			wall.	neither		10125		m	m	-	F	Ш	Ω.	M.	⋖	œ	80	60	~	-	+	< \
2/6/8			No Composite	1-462	Cool		7001	LX.	\vdash	A	\dashv	+	+	-	_	-			X	_	\dashv	+
2/16/18	10/0	5011	North Walle Composite West Wall Lomposite	1-462			-202	X		X	_	_	_						X		_	
3/26/18	1020	Soil	South Wall comfesite	1-462			703	X		X									X			
	1030	5011	Fast wallsite	1-402	1		-004	X		X									X			
- 10	1020	Α,																				
					-						\neg		\dashv								\top	$\neg \neg$
												\neg	\dashv							-	\top	
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Dita	T'	D-lii-h	- J h	Peceived by	<u> </u>	Date	Time	Por	nork								<u> </u>					
Date:	Time: 1337	Relinguish	Who Killion				Remarks: Morgan Killion @ Yahoo. com															
Date:	Time:	Relinquish	ed by:	Received by:	A CONTRACTOR OF THE PARTY OF TH	Date,	Time	1		•								Desi.				
17/16	1001	MA	at I halfe	12/07/18				·														
74/1	f necessary,	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laborator	ies. This serve		s possi	ibility.	Any su	ıb-conti	acted	data v	will be	clear	ly nota	ated or	the a	ınalytic	al repo	ort.	

ATTACHMENT 4

CORRESPONDANCE WITH JICARILLA EPO

LIC	chsandoval2012@gmail.com> teral H-8 Preliminary Results	Kijun Hong: Jason Sandoval; Morgan Killion 🕶		@ 1	12/10/2018
ARV] image002.png IIDS1 .png File					
of K Compressor. I commend I	are below OCD closure standard. TI Morgan Killion and his crew for a g o PM Kijun Hong < <u>khong@harvestmid</u>	nerefore, Jicarilla Apache Environmental Protection of od job in the remediation of this site. stream.com	Office (EPO) authorizes you to back fill this site wit	th clean clay soil from a pile jus	it south
The Initial Image cannot be displayed. The file ma	Kijun Hong Harvest Midstream C Office: 505-632-4475 Cell: 505-4	ompany Environmental Specialist Four Corners 36-8457 1755 Arroyo Dr., Bloomfield, NM 87413			

Effective July 30, 2018, please note all Harvest Midstream employees' email addresses have changed to @harvestmidstream.com.

ATTACHMENT 5
PHOTOGRAPHIC LOG

