

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pJK1424834298

3RP - 1014

Williams Four Corners, LLC

3R-1014

Release Report/ General Correspondence

Williams RA

Date: Apr-Jun 2017

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
Submit 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.

			Rel	ease Notific	atio	n and Co	orrective A	ction	1				
						OPERA	ΓOR			al Report	\boxtimes	Final	Report
Name of Co			Corners	LLC		Contact	Mitch Morris						
	1755 Arroy						No. 505-632-47			OII	CONS	DIV	/ nie-
Facility Na	ne Five Po	oints Compr	essor Sta	tion		Facility Typ	e Compressor	Statio	n	912	OOIAC	. DIV	ופוע
Surface Ow	ner Jicaril	la Apache T	ribe	Mineral O	wner				API No).	APR	26	2017
				LOCA	TIO	N OF RE	LEASE						
Unit Letter C	Section 8	Township 25N	Range 5W	Feet from the	North	South Line	Feet from the	East/	West Line	County Rio Arriba	a		
				Latitude 36.42			V						
Type of Pale	asa Natura	1 Gos		NAT	URE	OF REL		ed at	Volume I	Pacovarad	0 MCE		
Type of Release Natural Gas Volume of Release Estimated at 516 MCF													
Source of Re	lease Manu	al dump valv	e			The second secon	Hour of Occurrence	ce		Hour of Dis			
Was Immedi	ate Notice (Riven?					3:42 PM MST Whom? Cory Sn	nith via		3:42 PM M	151		
			Yes [No Not Rec	quired		,						
By Whom?							Hour 4/6/2017 ~4:						
Was a Water	course Reac		Yes 🗵	No		If YES, Vo	olume Impacting to cable	the Wat	ercourse.				
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*								TO	
Not Applicat			•						OIL	CONS. D	A DIS	1. 0	
Describe Cau		em and Reme	dial Actio	n Taken.*						APR 2	2017		
		company mist opping the rel		t a manual dump v	alve op	en, allowing	natural gas to ver	nt from	the fuel gas				kid.
Describe Are	a Affected a	and Cleanup A	Action Tal	cen.*				-					
No cleanup i	s required w	vith a natural g	gas release	·.									
regulations a public health should their or or the environ	or the environment of the enviro	are required to conment. The ave failed to a	o report an acceptant adequately OCD accept	e is true and comple nd/or file certain re ce of a C-141 repor investigate and re otance of a C-141 r	lease noted that the mediate	otifications as e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a three the operator of	etive act eport" (eat to g respons	tions for rele does not reli round water sibility for co	eases which leve the ope s, surface was compliance v	may en rator of ater, hur with any	danger liability nan hea	y
		1					OIL CON	SERV	ATION	DIVISIO	<u>N</u>		
Mitch Morr Signature:						Approved by	Environmental S	pecialis	st:				
Printed Name	e: Mitch Mo	orris					1112			-			-
Title: Enviro	onmental Sp	pecialist				Approval Da	te:4 08 0		Expiration	Date:			
E-mail Addre	ess: Mitch.	Morris@willia	ams.com			Conditions o		Zuc		Attached			
Date:	4/21/2017		Ph	one: 505-632-4708	3	WF	171195	230	0				

^{*} Attach Additional Sheets If Necessary

<u>District I</u> 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

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

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

Release Notificati	on and Co	rrective A	ction										
	OPERA	ГOR	\boxtimes	Initia	al Report		Final Repor	r					
Name of Company Williams Four Corners LLC	Contact	Mitch Morris	-		1			-					
Address 1755 Arroyo Drive, Bloomfield, NM 87413		No. 505-632-47											
Facility Name Ojito Compressor Station	Facility Typ	e Compressor	Station					_					
Surface Owner Jicarilla Apache Nation Mineral Owne	r			API No.				-					
*													
	ON OF REI		E //X/		C			_					
Unit Letter Section Township Range Feet from the Nor D 7 26N 3W	rth/South Line	Feet from the	East/Wes	st Line	County Rio Arriba								
D 7 2014 3 W					Rio Airioa								
Latitude 36.50697°	N. Longitud	107 10263° V	N/	,									
			<u>v</u>										
	E OF REL							_					
Type of Release Small Fire		Release N/A			decovered N/A			-					
Source of Release Flammable Liquids (lube oil) Date and Hour of Occurrence 4/11/2017, 10:30 AM Date and Hour of Discovery 4/11/2017, 10:30 AM													
Was Immediate Notice Given? If YES, To Whom?													
☐ Yes ☐ No ☐ Not Require	ed Cory Smith	n, NMOCD via te	lephone ca	ıll									
By Whom? Mitch Morris		lour 4/11/17 1:55											
Was a Watercourse Reached?		lume Impacting t	he Waterco	ourse.									
☐ Yes ☒ No	N/A												
If a Watercourse was Impacted, Describe Fully.*			OIL CO	AND -									
Not Applicable				DIVS. D	IV DIST O								
Not Applicable			MAA	W 0	101. 3								
Describe Cause of Problem and Remedial Action Taken.*			IMA	TOI	OV DIST. 3			•					
Sorbent pads saturated with lube oil resting next to a heat source on a c compressor building and was immediately extinguished with a handhel													
returned to service the following day (4/12/2017).	d fire extinguish	er. Equipment su	istamed iii	iiiiiiai da	illage and was	abic	10 00						
Describe Area Affected and Cleanup Action Taken.*													
The area affected was inside a building. Equipment sustained minimal	damage and wa	s able to be return	ied to servi	ice the fo	llowing day (4	12/2	.017).						
I hereby certify that the information given above is true and complete to	o the best of my	knowledge and u	nderstand t	that purs	uant to NMO0	CD ru	les and	-					
regulations all operators are required to report and/or file certain release	e notifications ar	nd perform correc	tive action	s for rele	eases which m	ay end	danger						
public health or the environment. The acceptance of a C-141 report by													
should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 repor													
federal, state, or local laws and/or regulations.	t does not renev	e the operator or i	responsion	illy for co	mphance with	ally	other						
		OIL CONS	SERVA	TION	DIVISION	1/							
		-				/_		1					
1 1/1/		D : 10		1	1		4						
Mould Many	Approved by	Environmental S	pecialist:	100	4/1	X	-//						
Signature:				-	1								
	1			6	/								
Printed Name: Mitch Morris								_					
Title: Environmental Specialist	Approval Dat	· 7/2=/1	7 Ev.	piration I	Date:								
The Dividimental operation	Approvar Dai	1/0/5/1	EX	PHALIOH I	Jaic.			-					
E-mail Address: Mitch.Morris@williams.com	Conditions of	Approval:			Attached [7							
Date: 4/26/2017 Phone: 505-632-4708					/ Attached [_							
Phone: 303-032-4/08	1				1								

* Attach Additional Sheets If Necessary

#NCS 1720652064
3R 1014



OIL CONS. DIV DIST. 3

District I
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State of New Mexico
Energy Minerals and Natural Resources

AUG 0 3 2017

Form C-141 Revised April 3, 2017

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

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

			Rele	ease Notific	cation	and Co	orrective A	ction	l			
						OPERA'	ГOR			al Report	⊠ F	Final Report
Name of Co	mpany W	illiams Four	Corners	LLC	(Contact	Mitch Morris					
Address	755 Arroy	o Drive, Blo	oomfield,	NM 87413	1	Telephone 1	No. 505-632-47	'08				
Facility Nat	ne Ojito (Compressor S	Station]	Facility Typ	e Compressor	Station	1			
Surface Ow	ner Iicarill	a Apache Na	ation	Mineral ()wner				API No).		
Surface OW	ner stearm	a ripache ru	411011	'					111111			
	~ .					OF RE		T - 7				
Unit Letter D	Section 7	Township 26N	Range 3W	Feet from the	North/	Feet from the East/West Line County Rio Arriba						
			Lati	tude <u>36.50697</u> °	N Lo	ngitude <u>-10</u>	7.19263° W N	AD83				
				NAT	TURE	OF REL	EASE					
Type of Rele	ase: Fire					Volume of 43.29 MC			0 MCF	Recovered		
Source of Re	lease: Natur	ral gas from co	ompressor	unit/vent system		7/18/2017		e		Hour of Disc 7 12:20 PM	overy	
Was Immedi	ate Notice (Yes] No 🗌 Not R	equired	Jicarilla O telephone	rrin via telephone GA: Deidra Vicer call	nti, Jason	n Sandoval	, Waymore C	allado v	ia
By Whom? N							Iour: 7/18/2017 1					
Was a Water	course Reac		Yes 🗵	l No		If YES, Vo	olume Impacting t	the Wate	ercourse.			
		pacted, Descr										
A fire occur source. Pers support and	red at the connel evac the Incide	cuated the stant Command	essor stati ation and d System	ion when natura no injuries wer was established	e report l. The st	ed. Jicarilla ation was is	vented into the Apache Nation solated from the tine the cause(s)	emerge gather	ency respo	onders provi	ded aid	l and
The area affe	cted by the		ined with			ouilding. No	cleanup actions a	re requi	red as the f	īre was assoc	iated wi	th a natural
regulations a public health should their or or the enviro	Il operators or the envir operations h nment. In a	are required to conment. The ave failed to a	o report an acceptance adequately OCD accep	nd/or file certain ince of a C-141 report investigate and in	elease no ort by the emediate	otifications a NMOCD m contamination	knowledge and und perform correct arked as "Final R on that pose a three the operator of	etive active eport" de eat to gr	ons for relloes not rellound water bility for c	eases which r ieve the opera r, surface wat ompliance wi	nay enda ator of li er, huma th any o	anger iability an health
							OIL CON	SERV	ATION	DIVISIO	N	
Signature:	the the	Mino				Approved by	Environmental S	pecialis	i: (
Printed Name	e: Mitch Mo	orris							Messe		5	
Title: Enviro	nmental Spe	ecialist			1	Approval Da	te: 8/12/90	1)	Expiration	Date:		1
		Morris@Willia		422 4708	Conditions of Approval: Attached							
	1/27/2017 tional Shee	ets If Necess	ne: (505) e arv	032-4/08	NVC177799243510							

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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.

Release Notification and Corrective Action

						OPERA	ГOR		Initi	al Report	\boxtimes	Final Rep
		illiams Four	Corners	LLC		Contact	Mitch Morris					
	1755 Arro						No. 505-632-47	708				
Facility Nar	ne San Ju	an 27-5 No.	145 Drip	Riser		Facility Typ	e Pipeline					
Surface Ow	ner BLM			Mineral C	wner				API No).		
				LOCA	TIO	N OF RE	FASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/\	West Line	County		
P	27	27N	5W							Rio Arriba	a	
				Latitude 36.5	400° N	Longitud	e - <u>107.3366° W</u>	_				
				NAT	URE	OF REL	EASE					
Type of Rele	ase Produ	ced Water					Release 15 cu. y	yards		Recovered	15 cu. y	ards of
C CD -	1					of impacte			impacted			
Source of Re	lease					the way compare of system	Iour of Occurrence 2:00 PM MST	ce		Hour of Dis 7, 2:00 PM N		
Was Immedia	ate Notice (If YES, To	Whom? N/A		0,02,201	,, 2100 11111	101	
			Yes	No Not Re	equired							
By Whom?		1 10				Date and H	Iour N/A	1 777				
Was a Water	course Read		Yes 🛛	l No		Not Applie	olume Impacting to table	the Wate	OIL CO	NS. DIV	DIST	3
TC TV	, T					Trot rippine					01011	0
If a Watercou	irse was im	pacted, Descr	ibe Fully.	•					MA	AY 26 21	017	
Not Applicab		em and Reme										
	a Affected	placed and a	crew was i	mobilized to clean						impacted soi	il were r	emoved
from the site.	Confirmat	ion soil samp	le results a	re attached to this	report	. Cleanup was	s completed on M	1ay 12, 2	2017.			
regulations al public health should their of or the environ	I operators or the envi operations h nment. In a	are required to ronment. The ave failed to a	o report ar acceptance adequately OCD accep	is true and compled/or file certain rese of a C-141 repoinvestigate and retance of a C-141 repoints.	elease in the second of the se	notifications ar ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a three the operator of	etive act eport" d eat to gr responsi	ons for release not release not release to the cound water bility for contract to the country for coun	eases which ieve the oper r, surface wa ompliance w	may end rator of later, hun with any	danger liability nan health
Mitch Morr Signature:			and the same of th			Approved by	OIL CON	pecialis		5		>
Title: Enviro	nmental S	pecialist			Approval Date: Old Expiration Date:							
		Morris@willia			\dashv	Conditions of	Approval:			Attached		
Attach Addit	tional She	ets If Necess	ary			UNE	1717	32	490			



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

OrderNo.: 1705705

May 16, 2017

Mitch Morris Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: SJ 27-5 #145 Valve Leak

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/13/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705705

Date Reported: 5/16/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: SJ-27-5 #145 Sidewall

Project: SJ 27-5 #145 Valve Leak

Collection Date: 5/12/2017 12:10:00 PM

Lab ID: 1705705-001

Matrix: MEOH (SOIL) Received Date: 5/13/2017 10:30:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	s			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/15/2017 10:31:33 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/15/2017 10:31:33 AM
Surr: DNOP	89.5	70-130	%Rec	1	5/15/2017 10:31:33 AM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	5/15/2017 9:44:19 AM
Surr: BFB	90.8	54-150	%Rec	1	5/15/2017 9:44:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	5/15/2017 9:44:19 AM
Toluene	ND	0.034	mg/Kg	1	5/15/2017 9:44:19 AM
Ethylbenzene	ND	0.034	mg/Kg	1	5/15/2017 9:44:19 AM
Xylenes, Total	ND	0.069	mg/Kg	1	5/15/2017 9:44:19 AM
Surr: 4-Bromofluorobenzene	104	66.6-132	%Rec	1	5/15/2017 9:44:19 AM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	5/15/2017 10:55:43 AM

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
- R RPD outside accepted recovery limits
- 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

Lab Order 1705705

Date Reported: 5/16/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: SJ-27-5 #145 Bottom

Project: SJ 27-5 #145 Valve Leak

Collection Date: 5/12/2017 12:15:00 PM

Lab ID: 1705705-002

Matrix: MEOH (SOIL) Received Date: 5/13/2017 10:30:00 AM

Analyses	Result	PQL (Qual U	nits	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	s				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	m	ng/Kg	1	5/15/2017 10:59:41 AM
Motor Oil Range Organics (MRO)	ND	48	m	ng/Kg	1	5/15/2017 10:59:41 AM
Surr: DNOP	88.7	70-130	%	Rec	1	5/15/2017 10:59:41 AM
EPA METHOD 8015D: GASOLINE RANG	E					Analyst: NSB
Gasoline Range Organics (GRO)	20	3.9	m	ng/Kg	1	5/15/2017 10:08:15 AM
Surr: BFB	170	54-150	S %	Rec	1	5/15/2017 10:08:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020	m	ng/Kg	1	5/15/2017 10:08:15 AM
Toluene	ND	0.039	m	ng/Kg	1	5/15/2017 10:08:15 AM
Ethylbenzene	ND	0.039	m	ng/Kg	1	5/15/2017 10:08:15 AM
Xylenes, Total	0.40	0.078	· m	ng/Kg	1	5/15/2017 10:08:15 AM
Surr: 4-Bromofluorobenzene	113	66.6-132	%	Rec	1	5/15/2017 10:08:15 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	30	m	ng/Kg	20	5/15/2017 11:08:08 AM

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
- R RPD outside accepted recovery limits
- 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#:

1705705

16-May-17

Client:

Williams Field Services

Project:

SJ 27-5 #145 Valve Leak

Sample ID MB-31730

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 31730

RunNo: 42779

Prep Date: 5/15/2017

SeqNo: 1346357

Units: mg/Kg

Analyte

Analysis Date: 5/15/2017

SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual

Chloride

1.5

Sample ID LCS-31730

SampType: LCS

Result

Result

14

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 31730

RunNo: 42779

Prep Date: 5/15/2017 Analysis Date: 5/15/2017

SeqNo: 1346358

Units: mg/Kg

Qual

Analyte

SPK value SPK Ref Val 0

%REC LowLimit HighLimit

%RPD

%RPD

Chloride

PQL

15.00

90

110

RPDLimit

RPDLimit

1.5

91.4

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

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

SampType: MSD

WO#:

1705705

16-May-17

Client:

Williams Field Services

Project:

Sample ID MB-31727

Sample ID 1705705-001AMSD

SJ 27-5 #145 Valve Leak

Sample ID LCS-31727	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: 31	727	R	RunNo: 4	2773					
Prep Date: 5/15/2017	Analysis Da	ate: 5/	15/2017	S	SeqNo: 1	345646	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	63.8	116				
Surr: DNOP	4.6		5.000		91.8	70	130				

									-	
Client ID: PBS	Batch	ID: 31 7	727	R	tunNo: 4	2773				
Prep Date: 5/15/2017	Analysis Da	ite: 5/	15/2017	S	eqNo: 1	345647	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	8.6		10.00		86.3	70	130			

TestCode: EPA Method 8015M/D: Diesel Range Organics

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID	1705705-001AMS	SampT	ype: MS	8	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SJ-27-5 #145 Sid	ew Batch	ID: 31	727	R	RunNo: 4	2773				
Prep Date:	5/15/2017	Analysis D	ate: 5/	15/2017	S	SeqNo: 1	345730	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	47	9.8	48.97	0	96.7	55.8	122			
Surr: DNOP		4.7		4.897		96.6	70	130			

Client ID: SJ-27-5 #145 Side	w Batch	ID: 31	727	R	tunNo: 4	2773				
Prep Date: 5/15/2017	Analysis D	ate: 5/	15/2017	S	eqNo: 1	345731	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.1	45.70	0	93.5	55.8	122	10.3	20	
Surr: DNOP	4.2		4.570		91.8	70	130	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
- R RPD outside accepted recovery limits
- 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#:

1705705

16-May-17

Client:

Williams Field Services

Project:

SJ 27-5 #145 Valve Leak

Sample ID MB-31708

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 31708

5.0

PQL

5.0

RunNo: 42782

Result

ND

Prep Date: 5/12/2017 Analysis Date: 5/15/2017 SeqNo: 1346037

Units: mg/Kg

Gasoline Range Organics (GRO)

Surr: BFB

940

1000

SPK value SPK Ref Val %REC

54

LowLimit

LowLimit

%RPD

RPDLimit Qual

Sample ID LCS-31708

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

94.1

Client ID: **LCSS**

Batch ID: 31708

RunNo: 42782

150

HighLimit

Prep Date: 5/12/2017

Analyte

Analysis Date: 5/15/2017

SeqNo: 1346038 %REC

Units: mg/Kg

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

24 1000

Result

25.00 1000

SPK value SPK Ref Val

97.6 101 76.4 125 54 150

HighLimit

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- 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
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705705

16-May-17

Client:

Williams Field Services

Project:

SJ 27-5 #145 Valve Leak

Sample ID MB-31708	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 31708			F	RunNo: 4	2782				
Prep Date: 5/12/2017	8	SeqNo: 1								
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		110	66.6	132			

Sample ID LCS-31708	S	Test	tCode: El	PA Method	8021B: Volat	tiles				
Client ID: LCSS	708	R	RunNo: 4	2782						
Prep Date: 5/12/2017	Analysis D	ate: 5/	15/2017	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	97.8	80	120			
Toluene	0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	66.6	132			

- * 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
- R RPD outside accepted recovery limits
- 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 Albuquergue, NM 87109

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

Sample Log-In Check List

WILLIAMS FIELD SERVI Work Order Number: 1705705 RcptNo: 1 Client Name: Received By: 5/13/2017 10:30:00 AM **Andy Freeman** 5/15/2017 8:10:35 AM Completed By: **Andy Jansson** 5/15/17 Reviewed By: Chain of Custody No 🗌 Not Present Yes 1. Custody seals intact on sample bottles? No 🗌 Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 4. Was an attempt made to cool the samples? Yes V No 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 NA 🔲 No 🗌 6. Sample(s) in proper container(s)? Yes 🗸 No 🗆 Yes 🗸 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? Yes V No 🗌 No 🗸 NA 🗌 Yes 9. Was preservative added to bottles? Yes No 🗌 No VOA Vials 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked Yes V No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes V No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗸 14 Is it clear what analyses were requested? Checked by: No 🗌 15. Were all holding times able to be met? Yes V (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🔽 Person Notified: Date By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good

Mailing Bloc Phone email of	Address Address African Fire Fax#: Package:	188 (11 NI 5-7 mitch-	n 874/3 Morris@williow.com	Project Mana	⊠Rush 9: 5—#195 V	Schedor 5-15-2017 Colve Leak	+-TMB's (8021)		01 Ha	A v awkir	/ww. is Ni 5-39	halle E	Albud Far	onme quero x 50 is Re	LA ental.o que, N 5-34!	BO com NM 87 5-410	7109	ATO	AL
Accredi	AP	□ Othe	т	Sampler: M & On Ice:	rgen Kill	□ No		E + TPH (SRO / DR	418.1)		8270	SI	Canal on	1000	OA)			Or N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBI	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	8081 Posticides / 8082 PCR's	8260B (VOA)	8270 (Semi-VOA)	-4/6nd		Air Bubbles (Y or N)
14/17	12:16	50:1	58-27-5#145	1-402	Cool	-001	1		+					1	+	1	X		
<u> </u>		soil	57-27-5#145 5127-5#145 5+27-5#145	1-402	+	-002	×		X								<i>^</i>		
Date:	Time: 1515 Time: 2341	Relinquishe Relinquishe	Killion	Received by:	Jast Men	5/12/17 15/15 Date Time 5/13/17 1030	Ren	narks	s:		1								

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

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

Release Notification and Corrective Action

						OPERA	ΓOR			al Report	\boxtimes	Fina	l Report
Name of Co	mpany: W	illiams Fou	r Corner	's LLC		Contact: Ki							
Address: 17			ngton, N	M 87413			No.: (505) 632-4	475					
Facility Nar	ne: Carson	n 6]	Facility Typ	e: Pipeline						
Surface Ow	ner: Forest	Service		Mineral	Owner	r			BLM P	roject No.			
				LOCA	TION	OF REI	LEASE						
Unit Letter M	Section 29	Township 30N	Range 4W	Feet from the	North/	South Line	Feet from the	East/V	West Line	County Rio Arriba	ı		
				Latitude <u>3</u>	6.7756	Longitud	e <u>-107.2846</u>						
				NAT	URE	OF RELI	EASE						
Type of Relea							Release: 9.2 MC			Recovered: 0			
Source of Re	lease: Pipeli	ne					our of Occurrence at 9:30 AM	e:		Hour of Disc at 9:30 AM	overy:		
Was Immedia	ate Notice G		Yes 🖂	No Not Re	quired	If YES, To	Whom?						
By Whom?	NA					Date and H	our: NA		C	IL CONS.	DIV I	DIST	. 3
Was a Watero	course Reacl		Yes 🛛	No		If YES, Vo	lume Impacting the	he Wate	ercourse.	MAY 0	5 20	17	
If a Watercou	ırse was Imp	pacted, Descri	be Fully.*										
Describe Cau Natural gas				Taken.* pipeline. The se	ection w	vas immediat	ely isolated and	shut-in	upon disc	overy.			
	only assum	ned gas loss a	s there w	en.* as no surface evi ds on 4/21/2017.		f liquids imp	act. Once excav	ation b	egan, soil i	mpacts wer	e disco	vered	1.
regulations al public health should their o	I operators a or the environment of the environment of the environment. In accordance of the environment of	are required to conment. The live failed to a didition, NMO	acceptance acceptance dequately CD accep	is true and completed of a C-141 repoint tance	elease no rt by the emediate	otifications are NMOCD me contaminati	nd perform correct arked as "Final Recon that pose a threet the operator of r	tive act eport" d eat to gr responsi	ions for relations for relatio	eases which rieve the operar, surface wat	may end ator of ter, hun ith any	dange liabil nan h	er ity ealth
Signature:	18	- A			ı i	Approved by	OIL CONS			DIVISIO	N ~	5	5
Printed Name	: Kijun Ho	ng					, ,						
Title: Enviro	nmental Sp	ecialist			1	Approval Dat	e: 5/11/1-	7	Expiration	Date:	1 1		
E-mail Addre	ess: <mark>kijun.h</mark> o	ong@william	s.com		(Conditions of	Approval:			Attached			

* Attach Additional Sheets If Necessary

#NCS1713153929

Phone: (505) 632-4475



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

April 28, 2017

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

FAX

RE: Carson 6 Line Leak

OrderNo.: 1704A82

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/25/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1704A82

Date Reported: 4/28/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Carson 6-W

Project: (

Carson 6 Line Leak

Collection Date: 4/21/2017 12:30:00 PM

Lab ID: 1704A82-001

Matrix: SOIL

Received Date: 4/25/2017 7:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	70	30	mg/Kg	20	4/26/2017 3:38:12 PM	31441
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	260	9.5	mg/Kg	1	4/27/2017 8:37:18 PM	31429
Motor Oil Range Organics (MRO)	130	48	mg/Kg	1	4/27/2017 8:37:18 PM	31429
Surr: DNOP	92.9	70-130	%Rec	1	4/27/2017 8:37:18 PM	31429
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/27/2017 5:13:41 PM	31417
Surr: BFB	104	54-150	%Rec	1	4/27/2017 5:13:41 PM	31417
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	4/27/2017 5:13:41 PM	31417
Toluene	ND	0.047	mg/Kg	1	4/27/2017 5:13:41 PM	31417
Ethylbenzene	ND	0.047	mg/Kg	1	4/27/2017 5:13:41 PM	31417
Xylenes, Total	ND	0.095	mg/Kg	1	4/27/2017 5:13:41 PM	31417
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	4/27/2017 5:13:41 PM	31417

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
- R RPD outside accepted recovery limits
- 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

Lab Order 1704A82

Date Reported: 4/28/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Carson 6-B

Project:

Carson 6 Line Leak

Collection Date: 4/21/2017 12:40:00 PM

Lab ID:

1704A82-002

Matrix: SOIL

Received Date: 4/25/2017 7:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	91	30	mg/Kg	20	4/26/2017 3:50:37 PM	31441
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	18	9.6	mg/Kg	1	4/27/2017 9:05:06 PM	31429
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/27/2017 9:05:06 PM	31429
Surr: DNOP	85.6	70-130	%Rec	1	4/27/2017 9:05:06 PM	31429
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/26/2017 10:12:07 PM	31417
Surr: BFB	93.1	54-150	%Rec	1	4/26/2017 10:12:07 PM	31417
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	4/26/2017 10:12:07 PM	31417
Toluene	ND	0.047	mg/Kg	1	4/26/2017 10:12:07 PM	31417
Ethylbenzene	ND	0.047	mg/Kg	1	4/26/2017 10:12:07 PM	31417
Xylenes, Total	ND	0.093	mg/Kg	1	4/26/2017 10:12:07 PM	31417
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	4/26/2017 10:12:07 PM	31417

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
- R RPD outside accepted recovery limits
- 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#:

1704A82

28-Apr-17

Client:

Williams Field Services

Project:

Carson 6 Line Leak

Sample ID MB-31441

SampType: mblk

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 31441

RunNo: 42386

%REC

Prep Date: 4/26/2017 Analysis Date: 4/26/2017

SeqNo: 1333287

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit

Qual

Analyte Chloride

PQL

ND 1.5

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

SampType: Ics Batch ID: 31441

RunNo: 42386

Prep Date:

Sample ID LCS-31441

4/26/2017

Analysis Date: 4/26/2017

SeqNo: 1333288

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte

SPK value SPK Ref Val 15.00

110

Chloride

15

1.5

0

SPK value SPK Ref Val

%REC 97.7

Qualifiers:

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

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1704A82

28-Apr-17

Client:

Williams Field Services

Project:

Carson 6 Line Leak

Sample ID LCS-31429	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 314	429	F	RunNo: 4	2400				
Prep Date: 4/26/2017	Analysis D	ate: 4/	27/2017	S	SeqNo: 1	333922	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.2	63.8	116			
Surr: DNOP	4.4		5.000		88.3	70	130			

Sample ID MB-31429	SampT	ype: ME	BLK	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 314	429	R	tunNo: 42	2400				
Prep Date: 4/26/2017	Analysis D	ate: 4/	27/2017	S	eqNo: 1	333923	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	8.3		10.00		83.2	70	130			

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

Reporting Detection Limit

- Sample container temperature is out of limit as specified

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1704A82

28-Apr-17

Client:

Williams Field Services

Project:

Carson 6 Line Leak

Sample ID MB-31417

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 31417

RunNo: 42378

Analysis Date: 4/26/2017

SeqNo: 1332745

Units: mg/Kg

4/25/2017 Analyte

PQL ND 5.0 SPK value SPK Ref Val %REC LowLimit HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

Prep Date:

920

92.0

150

Surr: BFB

Sample ID LCS-31417 LCSS

SampType: LCS

PQL

5.0

RunNo: 42378

TestCode: EPA Method 8015D: Gasoline Range

%RPD

%RPD

Client ID: Prep Date:

Batch ID: 31417 4/25/2017

Analyte Gasoline Range Organics (GRO) Result

Analysis Date: 4/26/2017

SeqNo: 1332746

Units: mg/Kg HighLimit

RPDLimit Qual

Surr: BFB

24 1000 25.00 1000

SPK Ref Val

0

SPK value

1000

97.2 100

%REC

76.4 54

LowLimit

125 150

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В 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
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1704A82

28-Apr-17

Client:

Williams Field Services

Project:

Carson 6 Line Leak

Sample ID MB-31417	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: 31	417	F	RunNo: 4	2378				
Prep Date: 4/25/2017	Analysis D	ate: 4/	26/2017	S	SeqNo: 1	332767	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		104	66.6	132			

Sample ID LCS-31417	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 314	417	F	RunNo: 4	2378				
Prep Date: 4/25/2017	Analysis D	ate: 4/	26/2017	8	SeqNo: 1	332768	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	66.6	132			

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 6



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

Clien	t Name: \	WILLIAMS F	IELD SERVI	Work (Order Numbe	er: 1704/	82		RcptN	o: 1
Recei	ved By:	Lindsay Ma	ıngin	4/25/201	7 7:15:00 AI	νI		Street Hatig		
	oleted By:	Lindsay Ma			7 7:47:52 Al			Streeke Alran		
					77.47.0271	w1		Com Grand		
Kevie	wed By:	8KC	04/2	5/17						
Chair	of Custo	ody -								
1. C	ustody seals	intact on sa	mple bottles?			Yes		No l	Not Present	1 .
2. Is	Chain of Cu	stody compl	ete?			Yes	V	No [Not Present	;
3. H	ow was the s	ample delive	ered?			Cour	ier			
Log	In									
		nt made to	cool the samp	los?		Yes	-	No []	NA 🗀	7
7. V	vas an altern	pt made to t	coor the samp	ies r		Tes	187	140 1_3	IVA :_	,
5. W	ere all samp	oles received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No []	NA []	
6. s	ample(s) in p	oroper conta	iner(s)?			Yes	4	No 🗌		
7. Si	ufficient sam	ple volume f	or indicated to	est(s)?		Yes	V	No 🗔		
8. Ar	re samples (e	except VOA	and ONG) pro	operly preserve	ed?	Yes	V	No []		
9. W	as preservat	tive added to	bottles?			Yes		No 🗸	NA L]
10.vo	OA vials have	e zero heads	space?			Yes		No	No VOA Vials	
11. W	ere any san	ple containe	ers received b	roken?		Yes	[]	No 🗸		
									# of preserved bottles checked	
	oes paperwo			Λ.		Yes	V	No	for pH:	2 or >12 unless noted)
			ain of custody	n of Custody?		Yes	1	No []	Adjusted?	2 Of > 12 diffees Hoted)
		•	ere requested			Yes		No [
	ere all holdir	-				Yes	20	No 📋	Checked by	
(If	no, notify cu	istomer for a	uthorization.)							
Spec	ial Handli	ng (if app	licable)							
16.W	as client not	ified of all di	screpancies v	vith this order?		Yes		No []	NA M	
	Person N	Notified:	ENTERNATION OF THE PROPERTY OF	MARIE AND BANKS OF THE PARTY OF	Date:	AND RESIDENCE AND A	INTERNATION OF STREET			
	By Whor	n:	And the second s	CONTRACTOR OF THE PERSON OF THE PERSON OF THE	Via:	[] eMa	nil []	Phone [] Fax	[] In Person	
	Regardir	ng:					COLUMBANIO CONTRACTOR			
	Client In	structions:]
17. A	dditional ren	narks:								
18. c	ooler Inform	nation								
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed By		
	1	2.1	Good	Yes			and the name			

C	hain-	of-Cu	stody Record	Turn-Around	Time:					l.	I A I	B H	E	NIX	TE	0	BIE	AE	NT	AI	
Client:	Willi	ams F	FIELD Services	Standard	□ Rush														TC		y
	, , , , , , , , , , , , , , , , , , ,	4		Project Name														PC.P4		/K	
Mailing	Address		5 Arroya Drive		Leak			40	04.11						ment			400			
771		175.	MI - WALL STILL	Project #:	NECE.		-										M 87				
			NEW Mexico 87413		7141648	5		16	el. 50)5-34	5-39				505- Req		4107		Z-TE	27-19	100
			12-4475					\$	<u> </u>						Ney	นะอเ					
		CIJON.	hom @ williams . com	Project Mana	iger:		21)	only	ARC					SO ₄	S						
QA/QC I	Package:		☐ Level 4 (Full Validation)				TMB's (8021)	TPH (Gas only)	/ DRO / MRO)			SIMS)		0,40	PCB's						
Accredi	_		Level 4 (Full Validation)	Sampler: //	u-l lte	hle	B's) H	DR(S) ₂ ,P							
□ NEL		□ Othe	er	Sampler: //	M Yes	I No	Į ₹		0	8.1)	4.1	8270		3,NC	/ 80		2				[Z]
□ EDD				Beedmarkdensker. / LEITHLIEBIDENDAR	erature /	E	1	<u>Ж</u>	(GR	141	9 20		als	NO.	des		100	ě.			>
	1 71 72			TOTAL SPECIAL SPECIAL STREET, SPECIAL			1	MTE	5B	tho	tho	310	Met	D,	stici	/0A	-imi	0			les (
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No. 4	+	+	801	(Me	(Ne	8) 8	A 8	l) SL	Pe	B (\	(Se	1 Porios			qqn
				Type and #	Type	MO4A82	BTEX + M TB	BTEX + MTBE +	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	U			Air Bubbles (Y or N)
4-21-17	12:30	soil	CARSON 6 - W	402	ice	-001	1	ш	F		-			1	ω	ω_	ω	+	+	_	
1-21-17	12:40	soil	CARSON 6 - W CARSON 6 - B	402	100	-002	1		+									1			
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المراك	1833	1/1/1	Antra 11 Moli	7	X C	4/25/17 041	\$														
-	f necessary.	samples sub	mitted to Hall Environmental may be subc	contracted to other a	credited laboratorie	es. This serves as notice of thi	s possi	bility.	Anv su	ıb-con	tracted	d data	will be	clear	lv nota	ted or	n the a	nalytica	al report		

Ranking Score Determination Site Name: Carson 6 Pipeline

Legal (Unit, Sec, Twn, Rng): Unit M, Section 29, T 30N, R 4W

GPS Coordinates: 36.7756, -107.2846

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 well with depth to ground water data is at 7235ft elevation with a ground water depth of 210ft. Given that the release location is at 7420ft, the depth to ground water at the release location is greater than 100ft.

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: The release location is <1000ft from a water source and <200ft from a private domestic water source.

Wellhead Protection Area	<1000 from a water source; or <200 feet	from a pri	ate domestic wate	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: The nearest surface water is an intermittent stream located 1,044ft to the northeast of the release location.

Distance to Surface Water Body	<200 horizontal feet	200 – 1,000 horizontal feet	>1,0	00 horizon	tal 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

Signature:

Date: May 1, 2017

Sources:

GPS Conversion Tool

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

New Mexico Oil and Gas Map



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)

DOD

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		-	Q	_									ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDepth'	WellDepthW	ater Col	umn
<u>SJ 00042</u>			RA			1	28	30N	04W	297901	4073566*	2126	62		
<u>SJ 00037</u>			RA			2	04	29N	04W	298778	4070389*	3347	373		
SJ 03742 POD1			RA	4	4	3	26	30N	04W	301401	4072375*	5288	480	210	270
SJ 02384			RA	3	1	3	07	30N	04W	294736	4077762*	5521	185	95	90
SJ 04039 POD1			SJ	2	3	2	14	30N	05W	292702	4076834	5582	275		
SJ 03900 POD1			RA	4	4	4	26	30N	04W	302124	4072384	6011	380	200	180
SJ 01291			RA		4	1	25	30N	04W	302930	4073243*	6867	500	250	250
SJ 00049			RA			3	33	31N	04W	298080	4080910*	8719	112	80	32
SJ 03593	O		RA	4	2	4	21	29N	05W	289638	4065294	9624	455	300	155
SJ 03593 POD1			RA	4	2	4	21	29N	05E	289638	4065294	9624	455	300	155
												Death to Western		205 54	

Average Depth to Water:

205 feet

Minimum Depth:

80 feet

Maximum Depth:

300 feet

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 296113

Northing (Y): 4072414.98

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.

5/1/17 9:16 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)

Q64 Q16 Q4 Sec Tws Rng

X

POD Number SJ 03742 POD1

26 30N 04W

301401 4072375*

Driller License:

1508

7.00

Driller Company:

HARGIS CONSULTING WATER WELL

Driller Name:

HARGIS, WILLIAM CALVIN

Casing Perforations:

Drill Start Date:

08/01/2006

Drill Finish Date:

12/31/2006

480 feet

Plug Date:

Estimated Yield: 13 GPM

Log File Date:

02/27/2007

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: Casing Size:

Pipe Discharge Size:

Depth Water:

210 feet

Water Bearing Stratifications:

280 310

Description **Bottom**

Sandstone/Gravel/Conglomerate

Sandstone/Gravel/Conglomerate

360

Sandstone/Gravel/Conglomerate **Bottom**

Top 200 380

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.

5/1/17 9:19 AM

POINT OF DIVERSION SUMMARY

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

107,235°	W107.284444°	W107.283889°	W107.283333°	W107.282778P	W107.282222	W107.281687°	W107.2811
						1,044.1 ft	
				E.			
100				And the second second			
			ESPI RA	NOSA NCH			
	N36.77566*** W107.28460°						

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

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

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action OPERATOR Name of Company Williams Four Corners LLC													
						OPERA	ГOR		Initi	al Report	\boxtimes	Final Repor	
			Corners	LLC									
			1:					08					
Facility Nai	me Breech	E-364 Pipe	line			Facility Typ	e Pipeline						
Surface Ow	ner BLM			Mineral C)wner				API No).			
				LOCA	OITA	N OF RE	LEASE						
Unit Letter		~		Feet from the	North/	South Line	Feet from the	East/V	West Line				
Type of Rele	ase Natura	1 Gas		NAI	UKE			ed	Volume I	Recovered e	stimate	ed cleanup	
Type of Refe	asc ivatura	1 Gas							volume o	f 40 cubic ya	rds	or creatup	
Source of Re	lease Manu	al dump valve	Э					e					
Was Immedia	ate Notice C	liven?							5/16/201	7, 3:00 PIVI IV.	151		
			Yes	No Not Re	equired								
Was a Water	course Reac		Yes 🛛	No				he Wate	OIL COMO				
If a Watercon	irse was Imi								air of	INS. DIV	DIST	9	
		odotod, Doson	oc r unj.						.11	Non	.010	ی	
		m and Dame	lial Action	Tokon *						1 05 20	17		
Cleanup of a	line leak tha	at was initially	not repor	table. A C-138 v	vas subm	nitted to the la	andfarm with an e						
					,								
Cleanup was	completed a	ind confirmati	on soil sa	mples were obtain	ied.								
regulations al public health should their o or the environ	l operators a or the envir perations ha ment. In ac	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	otifications and NMOCD ma contamination	d perform correct arked as "Final Re on that pose a thre	tive action eport" de eat to gre	ons for rele oes not reli ound water	eases which reve the opera , surface wat	nay end ator of l er, hun	danger liability nan health	
		1					OIL CONS	SERV	ATION	DIVISIO	N		
	/	1/1											
Mitch Morri Signature:	Stock		unb		A	Approved by	Environmental Sp	pecialist	~		1		
Printed Name	: Mitch Mo	rris						101	John	C		>	
Title: Enviro	nmental Sp	ecialist			A	Approval Date	1610:) E	Expiration I	Date:			
E-mail Addre	ss: Mitch.N	forris@willia	ms.com			Conditions of	Approval:			Attached			
		×0.7.7		ne: 505-632-4708	3	-							
Attach Addit	ional Shee	ts If Necessa	ry			MAE	171634	121	97				



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

May 19, 2017

Mitch Morris
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL:
FAX

RE: Breech E-564 Line Leak

OrderNo.: 1705859

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/17/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705859

Date Reported: 5/19/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech E-564 N&W Walls

Project: Breech E-564 Line Leak

Collection Date: 5/16/2017 10:00:00 AM

Lab ID: 1705859-001

Matrix: SOIL

Received Date: 5/17/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	26	9.3	mg/Kg	1	5/17/2017 10:06:58 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/17/2017 10:06:58 AM
Surr: DNOP	76.6	70-130	%Rec	1	5/17/2017 10:06:58 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1200	75	mg/Kg	50	5/17/2017 12:27:56 PM
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst: AG
Benzene	ND	0.11	mg/Kg	5	5/17/2017 10:32:57 AM
Toluene	ND	0.23	mg/Kg	5	5/17/2017 10:32:57 AM
Ethylbenzene	ND	0.23	mg/Kg	5	5/17/2017 10:32:57 AM
Xylenes, Total	ND	0.45	mg/Kg	5	5/17/2017 10:32:57 AM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	5	5/17/2017 10:32:57 AM
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	5	5/17/2017 10:32:57 AM
Surr: Dibromofluoromethane	105	70-130	%Rec	5	5/17/2017 10:32:57 AM
Surr: Toluene-d8	102	70-130	%Rec	5	5/17/2017 10:32:57 AM
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	5/17/2017 10:32:57 AM
Surr: BFB	93.1	70-130	%Rec	5	5/17/2017 10:32:57 AM

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
- R RPD outside accepted recovery limits
- 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 1705859

Date Reported: 5/19/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech E-564 S&E Walls

Project: Breech E-564 Line Leak

Collection Date: 5/16/2017 10:05:00 AM

Lab ID: 1705859-002

Matrix: SOIL

Received Date: 5/17/2017 7:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: TOM
Diesel Range Organics (DRO)	14	9.6	mg/Kg	1	5/17/2017 10:31:24 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/17/2017 10:31:24 AM
Surr: DNOP	78.8	70-130	%Rec	1	5/17/2017 10:31:24 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1200	30	mg/Kg	20	5/17/2017 10:48:39 AM
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: AG
Benzene	ND	0.098	mg/Kg	5	5/17/2017 11:02:24 AM
Toluene	ND	0.20	mg/Kg	5	5/17/2017 11:02:24 AM
Ethylbenzene	ND	0.20	mg/Kg	5	5/17/2017 11:02:24 AM
Xylenes, Total	ND	0.39	mg/Kg	5	5/17/2017 11:02:24 AM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	5	5/17/2017 11:02:24 AM
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	5	5/17/2017 11:02:24 AM
Surr: Dibromofluoromethane	103	70-130	%Rec	5	5/17/2017 11:02:24 AM
Surr: Toluene-d8	102	70-130	%Rec	5	5/17/2017 11:02:24 AM
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	5/17/2017 11:02:24 AM
Surr: BFB	94.0	70-130	%Rec	5	5/17/2017 11:02:24 AM

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
- R RPD outside accepted recovery limits
- 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 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705859

Date Reported: 5/19/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech E-564 Bottom

Project: Breech E-564 Line Leak

Collection Date: 5/16/2017 10:10:00 AM

Lab ID: 1705859-003

Matrix: SOIL

Received Date: 5/17/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/17/2017 10:58:21 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/17/2017 10:58:21 AM
Surr: DNOP	81.0	70-130	%Rec	1	5/17/2017 10:58:21 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	470	30	mg/Kg	20	5/17/2017 11:01:03 AM
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst: AG
Benzene	ND	0.018	mg/Kg	1	5/17/2017 11:31:26 AM
Toluene	ND	0.037	mg/Kg	1	5/17/2017 11:31:26 AM
Ethylbenzene	ND	0.037	mg/Kg	1	5/17/2017 11:31:26 AM
Xylenes, Total	ND	0.073	mg/Kg	1	5/17/2017 11:31:26 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/17/2017 11:31:26 AM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	5/17/2017 11:31:26 AM
Surr: Dibromofluoromethane	108	70-130	%Rec	1	5/17/2017 11:31:26 AM
Surr: Toluene-d8	117	70-130	%Rec	1	5/17/2017 11:31:26 AM
EPA METHOD 8015D MOD: GASOLI	INE RANGE				Analyst: DJF
Gasoline Range Organics (GRO)	8.5	3.7	mg/Kg	1	5/18/2017 4:37:12 PM
Surr: BFB	108	70-130	%Rec	1	5/18/2017 4:37:12 PM

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
- R RPD outside accepted recovery limits
- % 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 3 of 8 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#:

1705859

19-May-17

Client:

Williams Field Services

Project:

Breech E-564 Line Leak

Sample ID MB-31782

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

Batch ID: 31782

RunNo: 42861

Prep Date: 5/17/2017

Units: mg/Kg

HighLimit

Qual

Analyte

Analysis Date: 5/17/2017

SeqNo: 1349223

RPDLimit

Chloride

Result **PQL** ND 1.5

Sample ID LCS-31782

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 42861

Client ID: LCSS

Batch ID: 31782

Prep Date: 5/17/2017

Analysis Date: 5/17/2017

SeqNo: 1349224

Units: mg/Kg

%RPD **RPDLimit**

PQL

110

14 1.5

90

Qual

SPK value SPK Ref Val %REC

HighLimit

%RPD

Chloride

Analyte Result SPK value SPK Ref Val %REC LowLimit 15.00 0 92.2

S

Qualifiers: Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits E

Analyte detected in the associated Method Blank Value above quantitation range

J Analyte detected below quantitation limits

Reporting Detection Limit RL

Sample pH Not In Range

Page 4 of 8

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#:

1705859

19-May-17

Client:

Williams Field Services

Project:

Sample ID 1705859-001AMS

Breech E-564 Line Leak

Sample ID MB-31779	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 31	779	F	RunNo: 4	2843				
Prep Date: 5/17/2017	Analysis D	ate: 5/	17/2017	S	SeqNo: 1	347977	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	7.3		10.00		73.2	70	130			

Client ID: Breech E-564 N&W Batch ID: 31779 RunNo: 42845 Prep Date: 5/17/2017 Analysis Date: 5/17/2017 SeqNo: 1348325 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte **PQL** LowLimit 71 9.7 48.40 25.83 92.3 55.8 122 Diesel Range Organics (DRO) Surr: DNOP 4.1 4.840 84.7 70 130

TestCode: EPA Method 8015M/D: Diesel Range Organics

SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID 1705859-001AMSD Client ID: Breech E-564 N&W Batch ID: 31779 RunNo: 42845 Prep Date: 5/17/2017 Analysis Date: 5/17/2017 SeqNo: 1348326 Units: mg/Kg %REC %RPD **RPDLimit** Qual Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit Diesel Range Organics (DRO) 25.83 98.2 3.96 20 73 48.40 55.8 Surr: DNOP 84.3 70 130 0 4.1 4.840 0

SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-31779 Batch ID: 31779 Client ID: LCSS RunNo: 42848 Prep Date: 5/17/2017 Analysis Date: 5/17/2017 SeqNo: 1348461 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result PQL Diesel Range Organics (DRO) 49 10 50.00 0 97.8 73.2 114 Surr: DNOP 5.000 92.8 70 130 4.6

- * 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
- R RPD outside accepted recovery limits
- 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 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, Inc.

WO#:

1705859

19-May-17

Client:

Williams Field Services

Project:

Breech E-564 Line Leak

Sample ID rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batch	n ID: A4	2857	F	RunNo: 4	2857				
Prep Date:	Analysis D	ate: 5/	17/2017	8	SeqNo: 1	348266	Units: mg/h	(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: 1,2-Dichloroethane-d4	0.53		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.56		0.5000		111	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID 1705859-002ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: Breech E-564 S8	E Batch	1D: A4	2857	F	RunNo: 4	2857				
Prep Date:	Analysis D	ate: 5/	17/2017	S	SeqNo: 1	348774	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.4	0.098	3.922	0	111	61.9	146			
Toluene	4.2	0.20	3.922	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	2.1		1.961		106	70	130			
Surr: 4-Bromofluorobenzene	2.1		1.961		109	70	130			
Surr: Dibromofluoromethane	2.0		1.961		102	70	130			
Surr: Toluene-d8	19		1 961		974	70	130			

Sample ID 1705859-002amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: Breech E-564 S&E	Batch	ID: A4	2857	F	RunNo: 4	2857				
Prep Date:	Analysis Da	ate: 5/	17/2017	8	SeqNo: 1	348775	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.2	0.098	3.922	0	108	61.9	146	3.05	20	
Toluene	4.1	0.20	3.922	0	104	70	130	2.37	20	
Surr: 1,2-Dichloroethane-d4	2.0		1.961		103	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.2		1.961		112	70	130	0	0	
Surr: Dibromofluoromethane	2.0		1.961		102	70	130	0	0	
Surr: Toluene-d8	1.9		1.961		98.0	70	130	0	0	

Sample ID	100ng lcs	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: Vola	iles Short	List	
Client ID:	LCSS	Batch	n ID: A4	2857	F	RunNo: 4	2857				
Prep Date:		Analysis D	ate: 5/	17/2017	8	SeqNo: 1	348776	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.3	0.025	1.000	0	125	70	130			
Toluene		1.2	0.050	1.000	0	116	70	130			

- 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
- R RPD outside accepted recovery limits
- 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

Hall Environmental Analysis Laboratory, Inc.

0.48

WO#:

1705859

19-May-17

Client:

Williams Field Services

Project:

Surr: Toluene-d8

Breech E-564 Line Leak

Sample ID 100ng Ics	SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID:	A42857	F	RunNo: 4	2857				
Prep Date:	Analysis Date:	5/17/2017	5	SeqNo: 1	348776	Units: mg/k	(g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.53	0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.54	0.5000		107	70	130			
Surr: Dibromofluoromethane	0.51	0.5000		101	70	130			
Surr: Toluene-d8	0.50	0.5000		99.4	70	130			
Sample ID mb-31781	SampType	: MBLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Sample ID mb-31781 Client ID: PBS	SampType Batch ID:			tCode: El		8260B: Volat	tiles Short	List	
		31781	F		2902	8260B: Volat		List	
Client ID: PBS	Batch ID: Analysis Date:	31781 5/18/2017	F	RunNo: 4	2902			List RPDLimit	Qual
Client ID: PBS Prep Date: 5/17/2017	Batch ID: Analysis Date:	31781 5/18/2017	F	RunNo: 4:	2902 349963	Units: %Red	C		Qual
Client ID: PBS Prep Date: 5/17/2017 Analyte	Batch ID: Analysis Date: Result Po	31781 5/18/2017 QL SPK value	F	RunNo: 43 SeqNo: 13 %REC	2902 349963 LowLimit	Units: %Re c	C		Qual

Sample ID Ics-31781	SampT	ype: LC	s	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batch	1D: 31	781	F	RunNo: 4	2902				
Prep Date: 5/17/2017	Analysis D	ate: 5	/18/2017	8	SeqNo: 1	349964	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.2	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.2	70	130			
Surr: Toluene-d8	0.47		0.5000		94 2	70	130			

95.2

70

130

0.5000

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

R RPD outside accepted recovery limits

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 7 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, Inc.

WO#:

1705859

19-May-17

Client: Project: Williams Field Services Breech E-564 Line Leak

Sample ID rb

SampType: MBLK

Client ID:

PBS

Batch ID: R42857

PQL

RunNo: 42857

%REC

Prep Date:

Analyte

Analysis Date: 5/17/2017

Result

SeqNo: 1348274

TestCode: EPA Method 8015D Mod: Gasoline Range

SPK value SPK Ref Val

LowLimit

LowLimit

63.2

70

70

70

70

70

Units: mg/Kg

130

%RPD

%RPD

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

Surr: BFB

ND 5.0 480

500.0

96.2

Sample ID 1705859-001ams

SampType: MS Breech E-564 N&W

Batch ID: R42857

TestCode: EPA Method 8015D Mod: Gasoline Range

RunNo: 42857

Client ID: Prep Date:

Units: mg/Kg

Analyte

Analysis Date: 5/17/2017

SeqNo: 1348777 %REC

Gasoline Range Organics (GRO) Surr: BFB

160 2200

Result

PQL SPK value SPK Ref Val 112.9

20.01 2258

127 96.3 HighLimit 128 130 **RPDLimit**

Qual

Sample ID 1705859-001amsd

SampType: MSD

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: Breech E-564 N&W Batch ID: R42857

RunNo: 42857

Prep Date:

Analysis Date: 5/17/2017

SegNo: 1348778

Units: mg/Kg

130

0

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result

150

2200

SPK value SPK Ref Val PQL 20.01 23 112.9

2258

%REC LowLimit 117 96.0

HighLimit 128 %RPD 7.50 20

RPDLimit Qual

Sample ID 2.5ug gro Ics

LCSS

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

RunNo: 42857

0

Client ID: Prep Date:

Batch ID: R42857

Analyte

Analysis Date: 5/17/2017 Result PQL

SeqNo: 1348779

Units: mg/Kg

130

%RPD 130

0

Gasoline Range Organics (GRO)

Client ID:

30 490 5.0 25.00 500.0

SPK value SPK Ref Val %REC LowLimit 119

98.8

HighLimit

RPDLimit Qual

Surr: BFB

Sample ID rb1

SampType: MBLK

Analysis Date: 5/18/2017

Batch ID: GS42902

TestCode: EPA Method 8015D Mod: Gasoline Range

SeqNo: 1349976

RunNo: 42902

Units: mg/Kg

130

Qual

RPDLimit

Prep Date: Analyte Gasoline Range Organics (GRO)

Surr: BFB

Result PQL ND 5.0

500

500.0

SPK value SPK Ref Val %REC

101

LowLimit

70

%RPD HighLimit

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank B

E Value above quantitation range

Analyte detected below quantitation limits

Page 8 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Qualifiers:

ND Not Detected at the Reporting Limit

S % Recovery outside of range due to dilution or matrix



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 SERVI	Work Order Number:	1705859		RcptNo:	1
Received By:	Anne Thorne	5/17/2017 7:30:00 AM		anne An	~	
Completed By:	Anne Thorne	5/17/2017 8:02:39 AM		aone Hu Aone Hu		
Reviewed By:	ENM	05/17/17		Clothe Str		
Notioned by.		0-11111				
Chain of Cus	stody					
1. Custody sea	als intact on sample bottles?		Yes	No 🗌	Not Present	
2. Is Chain of	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the samples	?	Yes 🗹	No 🗌	NA 🗆	
5. Were all sar	mples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
6. Sample(s) is	n proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sa	mple volume for indicated test(s)?	Yes 🗸	No 🗌		
8. Are samples	(except VOA and ONG) prope	rly preserved?	Yes 🗹	No 🗌		
9. Was preserv	vative added to bottles?		Yes	No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials ✓	
11. Were any sa	ample containers received brok	en?	Yes	No 🗹		
					# of preserved bottles checked	
	work match bottle labels?		Yes 🗸	No 📙	for pH: (<2.0	r >12 unless noted)
	pancies on chain of custody) correctly identified on Chain of	f Custody?	Yes 🗸	No 🗆	Adjusted?	1 - 12 dilloso flotody
	at analyses were requested?		Yes 🗸	No 🗆		
	ding times able to be met?		Yes 🗸	No 🗆	Checked by:	
(If no, notify	customer for authorization.)					
	ling (if applicable)			_	_	
16. Was client no	otified of all discrepancies with	this order?	Yes	No 📙	NA 🗹	
Person	Notified:	Date				
By Wh	om:	Via:	eMail	Phone Fax	☐ In Person	
Regard	A CONTRACTOR OF THE PARTY OF TH		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200.000.000.000.000		
Client I	nstructions:					
17. Additional re	emarks:					
18. Cooler Info					ı.	
Cooler No	1.0 Good Yes		eal Date	Signed By		
1.	3000 16	•			I	

Cliont	hain w <i>⊱</i> 5		stody Record	Turn-Around		5-17-2017												NT/		
-	NIFO			Project Name		<u> </u>			- e								KA	TO	RY	
Mailing	Address	*****									w.hal									
71	- 1001000	188	CR 4900	Brecch Project #:	F-564	Live Leak				wkins		Alb	uque	erqu	e, Ni	W 87	109			
15/00	MFI	eld a	M 87413	Pioject #.				Te	. 505	-345-3	THE PERSON NAMED IN	MARKA CANADA	-			4107			-	
			L-4708						~		A	naly	-	Req	uest					
QA/QC F	ackage:		□ Level 4 (Full Validation)	Project Mana			TAMB's (8021)	Ges only	O / MRO		SIMS)		PO4, SO4)	PCB's						
Accredit	tation				rgen Kil	1.or	事	PH (DR	= =	.0 S		02,	082						
D NEL	AP.	□ Othe	r	On Ice:	V Yes	□ No	+ 14	1+	80	18.	827		03,N	878		8				Nio
□ EDD	(Type)			Sample Tem	perature:	1.6		BE	9	2 b	0 0	stals	N'I	sepi	8	8	F			3
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTSE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1) EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	chlord	19		Air Bubbles (Y or N)
5/16/17	1000	30il	North a west wells	1-402	Cool	-001	X		X	nonemark November							X			
5/16/17	1005	Soil	Breech E-56415	1-402	1	702	X		X								X			
5/16/17	1610	5011	Brech E-564	1-402	1	703	X		X								X			
																		+		
											-	_						+	+	
																			-	
Date: 5/1/7 Date: 5/16/17	Time: 1345 Time: 1857	Relinquish Relinquish	y Killion Notwindle	Received by: Received by:	West of	Date Time 3/10/17 1345 Date Time 05/17/17 1730		nark			1	J.								
- 1	fnecessary	semples sue	milted to Hall Environmental may be sub	econtracted to other a	ocredited laboratori	ias. This serves as notice of this	s possi	ibility.	Any sul	o-contrac	ted data	will b	e slea	rly not	aled or	o the e	malytice	al report.	-	

<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

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

Revised August 8, 2011

Form C-141

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

			Rele	ease Notific	atior	and Co	rrective A	ction	1			
						OPERA				al Report		Final Repor
		/illiams Four	Corners	LLC		Contact	Mitch Morris					
	1755 Arro	yo Drive l D-2 Pipelin	ie.			Facility Typ	No. 505-632-47	08				
						racinty Typ	e i ipeilite		Language			
Surface Ow	ner Jicari	lla Apache T	ribe	Mineral C)wner				API No).		
						OF REI	LEASE					
Unit Letter H	Section 12	Township 26N	Range 5W	Feet from the	North/	South Line	Feet from the	East/	West Line	County Rio Arriba	ı	
							e - <u>107.3034° W</u>					
T CD 1	D 1	1 337	1	NAT	URE	OF REL		1.20	X7.1 T	1.0	20	1-1
Type of Rele	ase Produc	ced Water				Volume of Release estimated 30 Volume Recovered 30 yards impaging yards impacted soil soil						
Source of Re	elease Pipel	ine				Date and H	lour of Occurrence 9:15 AM MST	ce		Hour of Dise 7, 9:15 AM N		
Was Immedi	ate Notice (Yes [No Not Re	equired	If YES, To	Whom? N/A					
By Whom?						Date and H						
Was a Water	course Read		Yes 🗵] No		If YES, Vo	lume Impacting t able	the Wat	COMO -			
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*		Not Applicable OIL CONS. DIV DIST. 3 JUN 12 2017						
Not Applical	ole.							0	UNIO	20	3	
		em and Reme	dial Actio	n Taken.*					4. 2	2017		
Initial release		reportable qua	ntity, but	historic impacts w	vere enco	ountered duri						en to an OCD
		and Cleanup A		cen.* npacted soil was r	emoved	and disposed	of at a landfarm.					
regulations a public health should their or the enviro	Il operators or the environment. In a	are required to ronment. The lave failed to a	o report ar acceptance adequately OCD accep	e is true and completed is true and completed of a C-141 report investigate and restance of a C-141 report investigate and restance of a C-141 report in the contract of a C-141	elease no ort by the emediate	otifications are NMOCD made contamination	nd perform correct arked as "Final Roon that pose a throether of the operator operator of the operator of the operator opera	etive act eport" of eat to grespons	ions for relations for relatio	eases which leve the oper s, surface wa compliance w	may e ator of ter, hu with any	ndanger f liability ıman health
		1					OIL CON	SERV	ATION	DIVISIO	N	
Mitch Morris Must Monos Signature:						Approved by	Environmental S	pecialis	ŧ:	6)	
Printed Nam	e: Mitch M	orris							bre	me !	C_	5
Title: Enviro	onmental S	pecialist				Approval Dat			Expiration	Date:		
E-mail Addr	ess: Mitch.l	Morris@willia	ams.com			Conditions of	Approval: 8015	80	181	Attached		
Date:	6/6/2017		Pho	ne: 505-632-4708		7	molaupa	OC'	hlorides			

* Attach Additional Sheets If Necessary

NVF1717335633

<u>District I</u> 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

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

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company: Williams Four Corners LLC Address: 1753 Arroya Dr., Farmington, NM 87413 Facility Name: Bancos Compressor Station Surface Owner: State of NM Mineral Owner LOCATION OF RELEASE Unit Letter Section Township Range B 36 32N 6W Feet from the North/South Line Feet from the East/West Line County Rio Arriba Latitude 36,942652 Longitude =107,405361 NATURE OF RELEASE Type of Release: Natural Gas Volume of Release: 428 MCF Julia and Hour of Discovery: Date and Hour of Discovery: O628/2017 at 8:30 AM 66/28/2017 at 8:30 AM 66/28/20	Name of Company: Williams Four Corners LLC										Final Report		
Surface Owner: State of NM	Name of Co	mpany: W	illiams Fou	r Corne	rs LLC	(Contact: Ki	jun Hong					
Surface Owner: State of NM													
Location of Release: Section Township Range Feet from the North/South Line Feet from the East/West Line County Rio Arriba	Facility Nan	ne: Banco	os Compress	sor Statio	on	I	Facility Typ	e: Compressor	Statio	n		_	
Unit Letter Section Township Range Section Attached Sach Section Sach Sac	Surface Own	ner: State	of NM		Mineral	Owner				BLM P	roject No.		
Latitude 36.942652 Longitude -107.405361 NATURE OF RELEASE Type of Release: Natural Gas Source of Release: Pipeline Was Immediate Notice Given? Was Immediate Notice Given? Was Immediate Notice Given? Was a Watercourse Reached? Yes No Not Required Type, of Problem and Remedial Action Taken.* If YES, Volume Impacting the Watercourse. NA Describe Cause of Problem and Remedial Action Taken.* Investigation determined prelube shuttle valve on the start system had an internal mechanical failure causing release of natural gas to atmosphere. Valve was replaced. Describe Area Affected and Cleanup Action Taken.* Ihrerby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In alwal and or regulations. OIL CONSERVATION DIVISION Approved by Environmental Specialist: DIL CONSERVATION DIVISION Approved by Environmental Specialist: Approval Date: Alpha Date: Attached					LOCA	TION	OF REI	LEASE					
NATURE OF RELEASE	Unit Letter	Section	Township	Range					East/	West Line	County		
Type of Release: Natural Gas Volume of Release: 428 MCF	В	36	32N	6W							Rio Arrib	a	
Type of Release: Natural Gas Source of Release: Pipeline Date and Hour of Occurrence: Date and Hour of Occurrence: Dots and Hour of Occurrence: Dots and Hour of Occurrence: Dots and Hour of Discovery: Dots and Ho					Latitude 36.9	942652	Longitud	e <u>-107.405361</u>					
Source of Release: Pipeline Date and Hour of Occurrence: Date and Hour of Discovery:		1 = 27			NAT	URE	OF RELI	EASE					
Was Immediate Notice Given? Yes No Not Required If YES, To Whom? Cory Smith													
Was a Watercourse Reached? Yes No Not Required Date and Hour: 6/28/2017 @ 11:15am Oll CONS. DIV DIST. 3	Source of Rel	lease: Pipel	ine				The state of the s		e:				:
By Whom? Kijun Hong Date and Hour: 6/28/2017 @ 11:15am OIL CONS. DIV DIST. 3 Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* Investigation determined prelube shuttle valve on the start system had an internal mechanical failure causing release of natural gas to atmosphere. Valve was replaced. Describe Area Affected and Cleanup Action Taken.* Release was only gas and no liquids. No soil impacts reported. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by Environmental Specialist: Approval Date: OIL CONSERVATION DIVISION Approval Date: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Approval Date: OIL CONSERVATION DIVISION	Was Immediate Notice Given?									06/28/201	7 at 8:30 A	M	
By Whom? Kijun Hong Date and Hour: 6/28/2017 @ 11:15am Oll CONS. DIV DIST. 3 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. JUL 17 2017 If a Watercourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* Investigation determined prelube shuttle valve on the start system had an internal mechanical failure causing release of natural gas to atmosphere. Valve was replaced. Describe Area Affected and Cleanup Action Taken.* Release was only gas and no liquids. No soil impacts reported. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by Environmental Specialist: OIL CONSERVATION DATE: Approved by Environmental Specialist: E-mail Address: kijun.hong@williams.com Conditions of Approval: Attached Attached	The state of the s												
Yes No NA JUL 17 ZUII	By Whom?	Kijun Hong							11:15	am ()	IL CONS.	DIV	DIST. 3
Yes No NA JUL 17 2017	Was a Watero	course Read	hed?				If YES, Vo	lume Impacting the	he Wat	ercourse.	11.11	. 17 2	047
Describe Cause of Problem and Remedial Action Taken.* Investigation determined prelube shuttle valve on the start system had an internal mechanical failure causing release of natural gas to atmosphere. Valve was replaced. Describe Area Affected and Cleanup Action Taken.* Release was only gas and no liquids. No soil impacts reported. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by Environmental Specialist: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Conditions of Approval: Approval Date: Attached				Yes 🛛	No			1 0			JUL :	162	UII
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OIL CONSERVATION DIVISION	should their o	perations h	ave failed to a	dequately	investigate and re	mediate	contaminati	on that pose a thre	eat to gr	round water	, surface wa	ter, hu	man health
OIL CONSERVATION DIVISION Approved by Environmental Specialist: Printed Name: Kijun Hong Title: Environmental Specialist E-mail Address: kijun.hong@williams.com Conditions of Approval: Attached					tance of a C-141 r	eport do	es not reliev	e the operator of r	espons	ibility for co	ompliance w	ith any	other
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Printed Name: Kijun Hong Title: Environmental Specialist E-mail Address: kijun.hong@williams.com Conditions of Approval: Attached		1	-///					OIL CONS	SER V	ATION	DIVISIO	IN	
Printed Name: Kijun Hong Title: Environmental Specialist E-mail Address: kijun.hong@williams.com Conditions of Approval: Attached		17	To All			A	Approved by	Environmental Sp	pecialis	t:			
Title: Environmental Specialist E-mail Address: kijun.hong@williams.com Conditions of Approval: Attached	Signature:	. 0						1		1			
E-mail Address: kijun.hong@williams.com Conditions of Approval: Attached	Printed Name: Kijun Hong						areno						
Attached _	Title: Environmental Specialist						Approval Date: 3113017 Expiration Date			Date:			
	E-mail Address: kijun.hong@williams.com						Conditions of Approval:			- , M			
Date: 07/11/2017 Phone: (505) 632-4475	Date: 07/11/2	017	Ph	one: (505)	632-4475		~				- Titaciica		

* Attach Additional Sheets If Necessary

NVF1720238879

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

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.

		Talk to the second second			The second				Name of Street, or other Parks			
Release Notification and Cor								ction	ı			
						OPERA	ГOR		Initial	al Report	\boxtimes	Final Report
		'illiams Four	r Corners	LLC		Contact	Mitch Morris					
	1755 Arroy						No. 505-632-47					
Facility Na	me Jicarill	a E-4				Facility Typ	e Pipeline Tar	ık				
Surface Ov	vner Jicaril	la Apache T	ribe	Mineral C	wner				API No			
				LOCA	TIO	N OF RE	FASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/	West Line	County		
A	22	26N	4W	Tool nom me	110111	Journ Eme	T COL MOIN INC	Laou	obe Ellio	Rio Arriba	a	
				Latitude 36.4	772° N	Longitud	e - <u>107.2343° W</u>					
				NAT	TIRE	OF REL	EASE					
Type of Rele	ease Produc	ed Water		NAI	UKE		Release 70 cubi	c	Volume F	Recovered	70 cubi	ic vards of
		-				yards of in	soil					
Source of Re	elease Pipeli	ine Tank					lour of Occurrence 10:00 AM MST	ee		Hour of Dis 7, 10:00 AM		
Was Immed	iate Notice C	Given?										
	Yes No Not Re						Whom? N/A four N/A slume Impacting table					
By Whom?						Date and H	Iour N/A					
Was a Water	rcourse Reac		Yes 🗵	1 No		If YES, Vo	lume Impacting t	he Wat	ercourse.	IL CONS	DIV	Die
						Not Applic	able				DIA	DIST. 3
If a Waterco	urse was Imp	pacted, Descr	ibe Fully.	k						JUN 2	9 20	17
Not Applica	ble										20	17
Describe Car	use of Proble	em and Reme	dial Action	n Taken.*								
Williams	a notified by	the Lieuwille	Oil & Gas	Association (IOC	A) of a	oil staining as	ound the Licerille	E 4 min	aalina tanle	dumina a maa	umina .	maatina
				Association (JOC nable to perform i								
				oil were removed								
D " 4	A CC . 1	1.01		de .								
A cleanup cr	ea Affected a	and Cleanup A	Action Tak site for ren	ten.* nediation. Confirm	mation	soil sample re	sults are attached	to this	report.			
				is true and completed is true and completed is true and complete is true								
				ce of a C-141 repo								
should their	operations h	ave failed to a	dequately	investigate and re	emediat	e contaminati	on that pose a thre	eat to g	round water	, surface wa	ter, hu	man health
		ddition, NMC vs and/or regu		tance of a C-141	report d	loes not reliev	e the operator of	respons	ibility for co	ompliance v	vith any	other
icuciai, state	, or local lav	vs and/or regu	nations.		T	OIL CONSERVATION DIVISION						
			N /				OIL COIN	OLIC !		DIVISIO		
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Mitch Mori Signature:	Mitch Morris Mull Man						Environmental S	pecialis	t: / see	4/		75
Signature.	Signature.									X		
Printed Nam	e: Mitch Mo	orris										
Title: English	anmontal C.	anialist				A mm mo1 D	7/11/1	7	Euminatia -	Data		
Title: Enviro	onmental Sp	ecialist			Approval Date: ///// Expiration Date:							
E-mail Addr	ess: Mitch.N	Morris@willia	ams.com			Conditions of	Approval:			Attached	П	
				one: 505-632-470						Attacheu		

* Attach Additional Sheets If Necessary #NCS 17 192 56342 3RP-1014

(10)



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

OrderNo.: 1706833

June 16, 2017

Mitch Morris Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: Jicarilla E-4

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/15/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1706833

Date Reported: 6/16/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Jic E-4 Sidewall Composite

Project: Jicarilla E-4

Collection Date: 6/14/2017 12:35:00 PM

Lab ID: 1706833-001

Matrix: SOIL

Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/15/2017 12:10:47 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/15/2017 12:10:47 PM
Surr: DNOP	91.0	70-130	%Rec	1	6/15/2017 12:10:47 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	43	30	mg/Kg	20	6/15/2017 12:16:50 PM
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst: AG
Benzene	ND	0.024	mg/Kg	1	6/15/2017 1:04:11 PM
Toluene	ND	0.047	mg/Kg	1	6/15/2017 1:04:11 PM
Ethylbenzene	ND	0.047	mg/Kg	1	6/15/2017 1:04:11 PM
Xylenes, Total	ND	0.095	mg/Kg	1	6/15/2017 1:04:11 PM
Surr: 1,2-Dichloroethane-d4	113	70-130	%Rec	1	6/15/2017 1:04:11 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/15/2017 1:04:11 PM
Surr: Dibromofluoromethane	117	70-130	%Rec	1	6/15/2017 1:04:11 PM
Surr: Toluene-d8	115	70-130	%Rec	1	6/15/2017 1:04:11 PM
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/15/2017 1:04:11 PM
Surr: BFB	91.6	70-130	%Rec	1	6/15/2017 1:04:11 PM

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
- RL Reporting Detection Limit

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Lab Order 1706833

Date Reported: 6/16/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Jic E-4 Bottom

Project: Jicarilla E-4

Collection Date: 6/14/2017 12:40:00 PM

Lab ID: 1706833-002

Matrix: SOIL

Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/15/2017 11:46:07 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/15/2017 11:46:07 AM
Surr: DNOP	96.4	70-130	%Rec	1	6/15/2017 11:46:07 AM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	6/15/2017 12:29:14 PM
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst: AG
Benzene	ND	0.020	mg/Kg	1	6/15/2017 1:33:26 PM
Toluene	ND	0.039	mg/Kg	1	6/15/2017 1:33:26 PM
Ethylbenzene	ND	0.039	mg/Kg	1	6/15/2017 1:33:26 PM
Xylenes, Total	ND	0.079	mg/Kg	1	6/15/2017 1:33:26 PM
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	6/15/2017 1:33:26 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	6/15/2017 1:33:26 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	6/15/2017 1:33:26 PM
Surr: Toluene-d8	113	70-130	%Rec	1	6/15/2017 1:33:26 PM
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/15/2017 1:33:26 PM
Surr: BFB	93.2	70-130	%Rec	1	6/15/2017 1:33:26 PM

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
- RL Reporting Detection Limit

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706833

16-Jun-17

Client:

Williams Field Services

Project:

Jicarilla E-4

Sample ID MB-32305

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

Batch ID: 32305

RunNo: 43534

SeqNo: 1371963

Units: mg/Kg

Qual

Analyte

Analysis Date: 6/15/2017 PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Chloride

ND 1.5

Sample ID LCS-32305

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 32305

1.5

RunNo: 43534

Prep Date:

6/15/2017

6/15/2017

Analysis Date: 6/15/2017

SeqNo: 1371964

Units: mg/Kg

Qual

Analyte

PQL

HighLimit

%RPD

Result

Result

15.00

%REC LowLimit

110

Chloride

14

RPDLimit

SPK value SPK Ref Val

93.0

Qualifiers:

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 Reporting Detection Limit

Analyte detected in the associated Method Blank В

E Value above quantitation range

Analyte detected below quantitation limits P Sample pH Not In Range

J

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706833

16-Jun-17

Client:

Williams Field Services

Project:

Jicarilla E-4

Sample ID LCS-32302	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 32302 RunNo: 43528									
Prep Date: 6/15/2017	Analysis D	ate: 6/	6/15/2017 Se			371104	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	73.2	114			
Surr: DNOP	4.7		5.000		94.7	70	130			

Sample ID MB-32302	SampTy	pe: ME	BLK	Test	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 32	302	R	RunNo: 43	3528				
Prep Date: 6/15/2017	Analysis Da	ate: 6/	15/2017	S	SeqNo: 1	371105	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	9.5		10.00		95.4	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
- Reporting Detection Limit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706833

16-Jun-17

Client:

Williams Field Services

Project:

Jicarilla E-4

Troject. Jicarina	* D-T									
Sample ID rb	Samp1	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batcl	n ID: A4	3531	F	RunNo: 43531					
Prep Date:	Analysis D	Analysis Date: 6/15/2017			SeqNo: 1371134			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			
Sample ID 100ng Ics	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batch	n ID: A4	3531	RunNo: 43531						
Prep Date:	Analysis D	ate: 6/	15/2017	8	SeqNo: 1	371135	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	70	130			
Toluene	0.90	0.050	1.000	0	89.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			

- * 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 RL Reporting Detection Limit
- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

RPDLimit

1706833

16-Jun-17

Qual

Qual

Client:

Williams Field Services

Project:

Jicarilla E-4

Sample ID	rb
Client ID:	PBS
Prep Date:	

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Batch ID: R43531

RunNo: 43531

Analysis Date: 6/15/2017

SeqNo: 1371142 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 470 500.0 94.3 70 130

Sample ID 2.5ug gro lcs

SampType: LCS

480

TestCode: EPA Method 8015D Mod: Gasoline Range

70

LCSS Client ID: Prep Date: Analysis Date: 6/15/2017

Batch ID: R43531

RunNo: 43531 SeqNo: 1371143

96.6

Units: mg/Kg

130

%RPD

%RPD

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Gasoline Range Organics (GRO) 26 5.0 25.00 104 70 130 Surr: BFB

500.0

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

Practical Quanitative Limit

Reporting Detection Limit

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Page 6 of 6



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: 1706833 RcptNo: 1 anne Sham Received By: **Anne Thorne** 6/15/2017 9:00:00 AM anne Ilm 6/15/2017 9:23:21 AM Completed By: **Anne Thorne** 6/15/17 Reviewed By: Chain of Custody No 🗆 Not Present 1. Custody seals intact on sample bottles? Yes V No 🗍 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA 🗍 4. Was an attempt made to cool the samples? Yes 🗸 No 🗍 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V 6. Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗌 8. Are samples (except VOA and ONG) properly preserved? No V Yes NA 🗌 9. Was preservative added to bottles? Yes 10. VOA vials have zero headspace? No 🗌 No VOA Vials Yes -No V 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: Yes 🗸 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 No 🗌 Yes V 14. Is it clear what analyses were requested? Checked by: Yes 🗹 No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA 🗸 16. Was client notified of all discrepancies with this order? No 🔲 Person Notified: Date By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good

possibility. Any sub-contracted data will be clearly notated on the analytical report.		If necessary, samples; submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this
		My 1910 Mod Will Sup
Remarks:	N(1) 1 1825	7 1815 May Xillia
×	-402 (JOC) 702)	6/14/7 1240 50:1 7:CBOHGM 1-
X	-402 (00) 20H	Soil J'STOREWALL COMPSER 1
BTEX + MI BTEX + MI TPH 8015E TPH (Methor EDB (Methor PAH's (831 RCRA 8 Mor Anions (F,C) 8081 Pestic 8260B (VO) 8270 (Semi	Container Preservative HEAL No.	quest ID
GE 3 (GI 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Sample Temperature: 2.3	□ EDD (Type) Sam
+ TF RO / -18.1 604.1 604.1 604.1 604.1 604.1	□ No	□ Other
PH (' DR () () () () () ()	3	8
Gas O / M IMS)	mitt morris	☐ Standard ☐ Level 4 (Full Validation) ☐ ##
only //RO		email or Fax#: M. TCh, Morris @ williess ConProject Manager:
		Phone #: 505- 632 - 4708
Tel. 505-345-3975 Fax 505-345-4107	2 #:	- Id N
4901 Hawkins NE - Albuquerque, NM 87109	Jicarilla E-4	Mailing Address: 188 CR 4900 J
www.hallenvironmental.com	Project Name:	
	□ Standard □ Rush 6 - 15 - 17	Client
HALL ENVIDONMENTA	Turn-Around Time:	hain-of-Custody Record

Air Bubbles (Y or N)

Turn-Around Time:

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

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

Release Notification and Corrective Action

OPERATOR

Name of Co	mpany W	'illiams Four	Corners	LLC		Contact Mitch Morris						
Address 1	755 Arroy	yo Drive				Telephone N	No. 505-632-47	08				
Facility Nan	ne Lateral	D-2				Facility Typ	e Pipeline					
Surface Own	ner licaril	la Anacha T	riha	Mineral O	umar				API No			
Surface Own	ici Jicaili	ia Apacile 1	1106	Willieral O	WIICI				AFINO			
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/	West Line	County		
Н	12	26N	5W							Rio Arriba		
				Latitude 36.50	33° N	I Longitude	e -107.3034° W					
				NAT	URE	OF RELI	EASE					
Type of Relea	ase Produc	ced Water					Release 80 cubic	С		Recovered 80 cubic yards of		
						pacted soil		impacted				
Source of Release Pipeline						lour of Occurrence	e		Hour of Discovery			
Was Immediate Notice Given?						9:15 AM MST Whom? N/A		4/20/2017	7, 9:15 AM MST			
was illilledia	ne Nonce C		Yes [No Not Rec	nuired		WHOIII? IN/A					
By Whom? N/A Was a Watercourse Reached?						Date and H	lour N/A	ha Wat	<u>Ol</u>	CONG		
was a watero	course Reac		Yes 🛛	No		Not Applie	nume impacting t	ne wat	ercourse	LCUNS. DIV DIST 2		
								2.5%				
If a Watercou	rse was Im	pacted, Descri	be Fully.3							JUN 2 9 2017		
Not Applicable												
Describe Cau		am and Dame	lial Action	Taken *								
Describe Cau	30 01 1 1001	em and Reme	ilai / tetioi	i i akeii.								
A line leak w	as discover	ed by a third r	arty contr	actor. The pipelin	e was	immediately is	solated, ceasing th	ne leak.	The initial	calculated volume was under		
										and taken to a NMOCD		
approved land												
Describe Area												
A cleanup cre	w was mot	oilized to the s	ite for ren	nediation. Confirm	nation	soil sample re	sults are attached	to this	report.			
I hereby certi	fy that the i	nformation gi	ven above	is true and comple	ete to t	the best of my	knowledge and u	ndereta	nd that nure	uant to NMOCD rules and		
										eases which may endanger		
										eve the operator of liability		
should their o	perations h	ave failed to a	dequately	investigate and re-	mediat	te contaminati	on that pose a thre	eat to gr	round water	, surface water, human health		
				tance of a C-141 re	eport d	does not reliev	e the operator of	respons	ibility for co	ompliance with any other		
federal, state,	or local lav	vs and/or regu	lations.				011 0011	OFFI	I I TI CO I	DAMAS A		
							OIL CONS	SERV	ATION	<u>DIVISION</u>		
		11/	/							1 // .		
Mitch Morri	Moul	11/1/1/1	and			Approved by	Environmental S	pagialic	. //			
Signature:	300					Approved by	Liiviioiiiiieitai 5	pecialis	" / "	7/		
Digitature.									(47		
Printed Name	: Mitch M	orris										
							7/10/1					
Title: Enviro	nmental Sp	pecialist				Approval Dat	e: //d/1	1	Expiration 1	Date:		
D	3.00					0 "	, , ,					
E-mail Addre	ss: Mitch.l	Morris@willia	ms.com			Conditions of	Approval:			Attached		
Date:	5/26/2017		Dh	one; 505-632-4708								
Attach Addit		ets If Nacass				2 7 -	1 0-					
Attach Audit	ionai one	11 1400055	my 7	11X51	(17	33191	00					



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

May 26, 2017

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

FAX

RE: Lat 0-2 Line Leak

OrderNo.: 1705C40

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/24/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705C40

Date Reported: 5/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Lat 0-2 Line Leak

Project:

Client Sample ID: Lat D-2 Side Walls

Collection Date: 5/23/2017 1:30:00 PM

Lab ID: 1705C40-001 Matrix: MEOH (SOIL) Received Date: 5/24/2017 7:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: LGT
Chloride	ND	30	mg/Kg	20	5/24/2017 3:44:29 PM	31936
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/25/2017 9:23:06 AM	31943
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/25/2017 9:23:06 AM	31943
Surr: DNOP	99.5	70-130	%Rec	1	5/25/2017 9:23:06 AM	31943
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	5/24/2017 7:46:07 PM	G43026
Surr: BFB	121	54-150	%Rec	1	5/24/2017 7:46:07 PM	G43026
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	5/24/2017 7:46:07 PM	B43026
Toluene	ND	0.039	mg/Kg	1	5/24/2017 7:46:07 PM	B43026
Ethylbenzene	ND	0.039	mg/Kg	1	5/24/2017 7:46:07 PM	B43026
Xylenes, Total	0.29	0.079	mg/Kg	1	5/24/2017 7:46:07 PM	B43026
Surr: 4-Bromofluorobenzene	126	66.6-132	%Rec	1	5/24/2017 7:46:07 PM	B43026

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
- R RPD outside accepted recovery limits
- 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

Lab Order 1705C40

Date Reported: 5/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Lat D-2 Bottom Composite

Project: Lat 0-2 Line Leak Collection Date: 5/23/2017 1:35:00 PM

Lab ID: 1705C40-002 Matrix: MEOH (SOIL) Received Date: 5/24/2017 7:15:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	180	30		mg/Kg	20	5/24/2017 3:56:54 PM	31936
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	6				Analyst	: TOM
Diesel Range Organics (DRO)	550	99		mg/Kg	10	5/25/2017 9:45:37 AM	31943
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	5/25/2017 9:45:37 AM	31943
Surr: DNOP	0	70-130	S	%Rec	10	5/25/2017 9:45:37 AM	31943
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	1800	73		mg/Kg	20	5/24/2017 8:10:06 PM	G43026
Surr: BFB	612	54-150	S	%Rec	20	5/24/2017 8:10:06 PM	G43026
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.68	0.36		mg/Kg	20	5/24/2017 8:10:06 PM	B43026
Toluene	34	0.73		mg/Kg	20	5/24/2017 8:10:06 PM	B43026
Ethylbenzene	11	0.73		mg/Kg	20	5/24/2017 8:10:06 PM	B43026
Xylenes, Total	140	1.5		mg/Kg	20	5/24/2017 8:10:06 PM	B43026
Surr: 4-Bromofluorobenzene	147	66.6-132	S	%Rec	20	5/24/2017 8:10:06 PM	B43026

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 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#:

1705C40

26-May-17

Client:

Williams Field Services

Project:

Lat 0-2 Line Leak

Sample ID MB-31936

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 31936

RunNo: 43028

Result

Prep Date: 5/24/2017 Analysis Date: 5/24/2017

SeqNo: 1355112

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

PQL ND 1.5

Sample ID LCS-31936

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 31936

RunNo: 43028

Prep Date: 5/24/2017 Analysis Date: 5/24/2017

SeqNo: 1355113

Units: mg/Kg

%RPD **RPDLimit**

%RPD

Qual

PQL SPK value SPK Ref Val

94.4

HighLimit

%REC Analyte Result Chloride 14 1.5 15.00

90

LowLimit

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

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E 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#:

1705C40

26-May-17

Client:

Williams Field Services

Project:

Lat 0-2 Line Leak

Project: Lat 0-2	Line Leak					
Sample ID LCS-31943	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel F	Range Organics			
Client ID: LCSS	Batch ID: 31943	RunNo: 43051				
Prep Date: 5/24/2017	Analysis Date: 5/25/2017	SeqNo: 1354741 Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %F	RPD RPDLimit Qual			
Diesel Range Organics (DRO)	42 10 50.00	0 84.8 73.2 114				
Surr: DNOP	4.8 5.000	95.2 70 130				
Sample ID MB-31943 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 31943	RunNo: 43051				
Prep Date: 5/24/2017	Analysis Date: 5/25/2017	SeqNo: 1354742 Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %F	RPD RPDLimit Qual			
Diesel Range Organics (DRO)	ND 10					
Motor Oil Range Organics (MRO)	ND 50					
Surr: DNOP	9.6 10.00	96.1 70 130				
Sample ID LCS-31932	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel F	Range Organics			
Client ID: LCSS	Batch ID: 31932	RunNo: 43051				
Prep Date: 5/24/2017	Analysis Date: 5/25/2017	SeqNo: 1355829 Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %R	PD RPDLimit Qual			
Surr: DNOP	4.5 5.000	89.3 70 130				
Sample ID MB-31932	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel F	Range Organics			
Client ID: PBS	Batch ID: 31932	RunNo: 43051				
Prep Date: 5/24/2017	Analysis Date: 5/25/2017	SeqNo: 1355830 Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %R	PD RPDLimit Qual			
Surr: DNOP	9.4 10.00	94.4 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
- R RPD outside accepted recovery limits
- 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#:

1705C40

26-May-17

Client:

Williams Field Services

Project:

Lat 0-2 Line Leak

Sample ID	MD-21221
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 31921

RunNo: 43026

Prep Date: 5/23/2017 Analysis Date: 5/24/2017

SeqNo: 1354470 Units: %Rec

Analyte

SPK value SPK Ref Val Result PQL

%REC LowLimit 97.8

150

HighLimit

RPDLimit

Qual

Surr: BFB

980 SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-31921 Client ID: LCSS

Batch ID: 31921

RunNo: 43026

Prep Date: 5/23/2017 Analysis Date: 5/24/2017

SeqNo: 1354471

Units: %Rec

HighLimit %RPD **RPDLimit**

%RPD

%RPD

Analyte Surr: BFB Result

SPK value SPK Ref Val 1000

%REC LowLimit

150

Qual

Prep Date:

1100

SampType: MBLK

5.0

PQL

TestCode: EPA Method 8015D: Gasoline Range

Sample ID RB Client ID: PBS

Batch ID: G43026 Analysis Date: 5/24/2017

RunNo: 43026

Units: mg/Kg

Analyte

PQL Result

SPK value SPK Ref Val

SeqNo: 1354482 %REC

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

LCSS

ND 990

1000

1000

150

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 43026

LowLimit

Client ID: Prep Date:

Analysis Date: 5/24/2017

Batch ID: G43026

SeqNo: 1354483

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result 24

SPK value SPK Ref Val 5.0 25.00

%REC 96.3

LowLimit 76.4 HighLimit 125 %RPD **RPDLimit**

Qual

Page 5 of 6

Surr: BFB

1100

1000

112

54

150

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705C40

26-May-17

Client:

Williams Field Services

Project:

Lat 0-2 Line Leak

Sample ID MB-31921 SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 31921

PQL

RunNo: 43026

Prep Date:

SeqNo: 1354496

Units: %Rec

5/23/2017

Analysis Date: 5/24/2017

Analyte

Result

SPK value SPK Ref Val %REC

LowLimit

1.2

1.000

117

HighLimit %RPD

RPDLimit Qual

Surr: 4-Bromofluorobenzene

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Client ID:

LCSS

Batch ID: 31921

PQL

RunNo: 43026

127

Prep Date:

Sample ID LCS-31921

SeqNo: 1354497

Units: %Rec

Analyte

5/23/2017

Analysis Date: 5/24/2017

SPK value SPK Ref Val

RPDLimit

Sample ID RB

Result 1.3

1.000

%REC LowLimit

66.6

HighLimit

132

Qual

Surr: 4-Bromofluorobenzene

Batch ID: **B43026**

0.050

0.10

TestCode: EPA Method 8021B: Volatiles

%RPD

Qual

Client ID:

PBS

SampType: MBLK

RunNo: 43026

Prep Date:

Analyte

Analysis Date: 5/24/2017 SPK value SPK Ref Val %REC LowLimit Result PQL

SeqNo: 1354508

Units: mg/Kg

%RPD **HighLimit**

RPDLimit Qual

Benzene

Toluene

Ethylbenzene

ND 0.025 ND 0.050

115

132

Xylenes, Total

Sample ID 100NG BTEX LCS

Surr: 4-Bromofluorobenzene

SampType: LCS

66.6 TestCode: EPA Method 8021B: Volatiles

Client ID:

LCSS

Batch ID: **B43026**

RunNo: 43026

Prep Date:

Analysis Date: 5/24/2017

ND

ND

1.1

Analyte

Toluene Ethylbenzene Result PQL

SPK value SPK Ref Val

1.000

SeqNo: 1354509

Units: mg/Kg

HighLimit %RPD **RPDLimit**

%REC LowLimit 120 1.0 0.025 1.000 0 102 80 Benzene 1.0 0.050 1.000 0 103 80 120 1.0 0.050 1.000 0 104 80 120 0 3.2 0.10 3.000 105 80 120 Xylenes, Total Surr: 4-Bromofluorobenzene 1.2 1.000 116 66.6 132

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

R RPD outside accepted recovery limits S % 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

P Sample pH Not In Range

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

Page 6 of 6



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 SERVI	Work Order Number:	1705C40		RcptNo:	1
Received By:	Anne Thome	5/24/2017 7:15:00 AM		anne Ham	_	
Completed By: Reviewed By:	Andy Jansson	5/24/2017 8:43:36 AM		ans report		
Chain of Cus	stody					
1. Custody sea	als intact on sample bottles?		Yes	No 🗆	Not Present	
2. Is Chain of 0	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the sample:	3?	Yes 🗸	No 🗌	NA 🗆	
5. Were all sar	mples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) is	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	imple volume for indicated test	(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ONG) prope	erly preserved?	Yes 🗹	No 🗆		
9. Was present	vative added to bottles?		Yes	No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes	No 🗆	No VOA Vials	
11, Were any sa	ample containers received bro	ken?	Yes U	No 🗹	# of preserved	
	work match bottle labels? pancies on chain of custody)		Yes 🗸	No 🗆	for pH:	r >12 unless noted)
	s correctly identified on Chain of	of Custody?	Yes 🗸	No 🗆	Adjusted?	12 0111000 110100)
	nat analyses were requested?	or oddiody:	Yes 🗸	No 🗆		
15. Were all hole	ding times able to be met? customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
(ii iio, iioiii)	datamat for addictization.					
Special Hand	lling (if applicable)					
16. Was client n	otified of all discrepancies with	this order?	Yes 🗌	No 🗆	NA 🗹	1
Person	n Notified:	Date				
By Wh	nom:	Via:	eMail [Phone Fax	☐ In Person	
Regard	ding:	24.5.2.5.2.5.6.5.6.6.6.6.6.6.6.6.6.6.6.6.6	WAYA ALABAMTATONA WAYAT ING WAYA - O F	M-2/2011/2012/2012/2012/2012/2014/2014/201	MANAGEMENT OF THE PROPERTY OF	
17. Additional re	,				***	
18. Cooler Info Cooler No	o Temp °C Condition	Seal Intact Seal No Sea	Seal Date	Signed By		

	cal report.	analyti	on the	otated	borry n	il be c	data w	acted o	-oortr	ny sub	Hy. A	cssibil	te of this pr	s. This serves as note	credited laboratorie	intracted to other ac	If necessary, samples submitted to Hall Environmental may be subcontracted to other accrected laboratories. This serves as notice of this possibility. Any sub-contracted data will be observy noticed on the enalytical report	samples subn	necessary.	-
													9	(5)24/17 1/15		Received 5%	ed by:	Relinquished by:	1910	5/23/17
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		-	Name and Address	_	-	-	-	_	-	-				iw w		Sample Temperature:			□ EDD (Type)	□ EDD
			Al	s / 8	-	-	_	_	Name and Address of the Owner, where	-	***************************************	*********		□ No		On Ice:	No.	□ Other	AP	O NELAP
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				B'S		-	5)			MF		-	100						QAVQC Package:	QAVQC
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			st	Request	is R	Analysis	Ar												井	Phone #:
		07	54	Fax 505-345-4107	× 5	T		Tel. 505-345-3975	5-34	500	Tel					Project #:	Bloomfield NM 874/3	ield 1	OFT	1310
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			com	www.hallenvironmental.com	omme	envir	halle	WWW	_						100	Project Name:				
P F	LABORATORY	R	B	5 2	ANALYSIS	S		2	> :			ПГ		FRush 5-25-17		□ Standard		ν.	WE	Clent
	ENVIDONMENTAL	2	2	j	5	2			r								Total Lands	9		

Air Bubbles (Y or N)

Chain-of-Custody Record

Turn-Around Time:

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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.

			Rel	ease Notific	catio	n and Co	orrective A	ction	1			
						OPERA	ГOR			ial Report	\boxtimes	Final Repor
		Villiams Four	r Corners	LLC		Contact	Mitch Morris					
	1755 Arro						No. 505-632-47	708				
Facility Na	me Tribal	C-2				Facility Typ	e Pipeline					
Surface Ov	vner Jicari	lla Apache T	ribe	Mineral (Owner				API No	0.		
				LOCA	ATIC	N OF RE	LEASE					
Unit Letter M	Section 6	Township 26N	Range 3W	Feet from the	Nort	h/South Line	Feet from the	East/\	West Line	County Rio Arriba	ı	
							e - <u>107.1905° W</u>					
T CD 1	D 1	1 337		NAT	ruri	E OF REL		•	X7.1	D 1	160	1 ' 1 C
Type of Rele	ease Produ	ced Water					Release 160 cub npacted soil	DIC	impacted	Recovered	160 cu	bic yards of
Source of Re	elease Pipel	ine				Date and I	Hour of Occurrence	ce	Date and	Hour of Dis		
Was Issued	:-+- NI-+: (O:0					10:00 AM MST		5/5/2017	, 10:00 AM	MST	
Was Immed	iate Notice (Yes [No ⊠ Not R	equired		Whom? N/A					
By Whom?	N/A					Date and H	Iour N/A					
Was a Water						If YES, Vo	olume Impacting	the Wate	ercourse.	Ann		
			Yes 🗵	No		Not Applie	cable		O	IL CONS.	DIV	DICT 6
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*								DIUI. S
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was replaced soil removed	l. The initia I from the si	l calculated vo te and taken to	olume was o a NMOC	drip riser on the p s under the reports CD approved land	able an							
		and Cleanup A bilized to the s		ken.* nediation. Confir	rmation	soil sample re	sults are attached	to this	report.			
regulations a public health should their or the enviro	all operators n or the envir operations h onment. In a	are required to ronment. The nave failed to a	o report and acceptant adequately OCD accept	e is true and comp nd/or file certain i ce of a C-141 report investigate and report otance of a C-141	release ort by t remedia	notifications as he NMOCD mate contaminati	nd perform correct arked as "Final R on that pose a thr	ctive act eport" de eat to gr	ions for rel loes not rel round wate	leases which lieve the open or, surface was	may en rator of iter, hu	ndanger f liability ıman health
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Mitch Mor Signature:	ris Mus	D M	mo			Approved by	Environmental S	pecialis	t: Ca	my v	L	-
Printed Nam	e: Mitch M	lorris										
Title: Envir	onmental S	pecialist				Approval Da	te: 7/11/1	7	Expiration	Date:		
E-mail Addr	ress: Mitch.	Morris@willia	ams.com			Conditions of	f Approval:			Attached		
Date:	6/26/2017 itional She	ets If Necess		one: 505-632-470		25/9/	0 700					

#NCS 17 19256960 3RP-1614



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

OrderNo.: 1706832

June 16, 2017

Mitch Morris Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: Tribal C-2: S-1 N&W Wall, S-2 S&E Walls

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/15/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1706832

Date Reported: 6/16/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services Client Sample ID: Tribal C-2 S-1 North & West

 Project:
 Tribal C-2: S-1 N&W Wall, S-2 S&E Wa
 Collection Date: 6/14/2017 11:30:00 AM

 Lab ID:
 1706832-001
 Matrix: SOIL
 Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/15/2017 2:14:36 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/15/2017 2:14:36 PM
Surr: DNOP	104	70-130	%Rec	1	6/15/2017 2:14:36 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	6/15/2017 11:14:46 AM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: AG
Benzene	ND	0.020	mg/Kg	1	6/15/2017 11:36:56 AM
Toluene	ND	0.040	mg/Kg	1	6/15/2017 11:36:56 AM
Ethylbenzene	ND	0.040	mg/Kg	1	6/15/2017 11:36:56 AM
Xylenes, Total	ND	0.080	mg/Kg	1	6/15/2017 11:36:56 AM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	6/15/2017 11:36:56 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/15/2017 11:36:56 AM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	6/15/2017 11:36:56 AM
Surr: Toluene-d8	113	70-130	%Rec	1	6/15/2017 11:36:56 AM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/15/2017 11:36:56 AM
Surr: BFB	92.8	70-130	%Rec	1	6/15/2017 11:36:56 AM

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
- RL Reporting Detection Limit

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Lab Order 1706832

Date Reported: 6/16/2017

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Tribal C-2 S-2 South & East

Project: Tribal C-2: S-1 N&W Wall, S-2 S&E Wa

CLIENT: Williams Field Services

Lab ID:

Collection Date: 6/14/2017 11:35:00 AM

1706832-002

Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	14	10	mg/Kg	1	6/15/2017 2:39:33 PM
Motor Oil Range Organics (MRO)	110	50	mg/Kg	1	6/15/2017 2:39:33 PM
Surr: DNOP	101	70-130	%Rec	1	6/15/2017 2:39:33 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	6/15/2017 11:27:11 AM
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst: AG
Benzene	ND	0.019	mg/Kg	1	6/15/2017 12:06:01 PM
Toluene	ND	0.037	mg/Kg	1	6/15/2017 12:06:01 PM
Ethylbenzene	ND	0.037	mg/Kg	1	6/15/2017 12:06:01 PM
Xylenes, Total	ND	0.075	mg/Kg	1	6/15/2017 12:06:01 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	6/15/2017 12:06:01 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	6/15/2017 12:06:01 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	6/15/2017 12:06:01 PM
Surr: Toluene-d8	106	70-130	%Rec	1	6/15/2017 12:06:01 PM
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	6/15/2017 12:06:01 PM
Surr: BFB	91.1	70-130	%Rec	1	6/15/2017 12:06:01 PM

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
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 8
- Sample pH Not In Range
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix

Lab Order 1706832

Date Reported: 6/16/2017

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Tribal C-2 Bottom

Project: Tribal C-2: S-1 N&W Wall, S-2 S&E Wa

Collection Date: 6/14/2017 11:40:00 AM

Lab ID: 1706832-003

CLIENT: Williams Field Services

Matrix: SOIL

Received Date: 6/15/2017 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/15/2017 3:04:27 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/15/2017 3:04:27 PM
Surr: DNOP	96.1	70-130	%Rec	1	6/15/2017 3:04:27 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	30	mg/Kg	20	6/15/2017 12:04:25 PM
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst: AG
Benzene	ND	0.022	mg/Kg	1	6/15/2017 12:35:02 PM
Toluene	ND	0.045	mg/Kg	1	6/15/2017 12:35:02 PM
Ethylbenzene	ND	0.045	mg/Kg	1	6/15/2017 12:35:02 PM
Xylenes, Total	ND	0.090	mg/Kg	1	6/15/2017 12:35:02 PM
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	6/15/2017 12:35:02 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	6/15/2017 12:35:02 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	6/15/2017 12:35:02 PM
Surr: Toluene-d8	109	70-130	%Rec	1	6/15/2017 12:35:02 PM
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	6/15/2017 12:35:02 PM
Surr: BFB	90.7	70-130	%Rec	1	6/15/2017 12:35:02 PM

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
- RL Reporting Detection Limit

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706832

16-Jun-17

Client:

Williams Field Services

Project:

Tribal C-2: S-1 N&W Wall, S-2 S&E Walls

Sample ID MB-32305

Client ID:

PBS

SampType: mblk Batch ID: 32305

Prep Date:

6/15/2017

Analysis Date: 6/15/2017

RunNo: 43534

SeqNo: 1371963

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

Analyte Chloride

Result PQL ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

Sample ID LCS-32305

Client ID: LCSS SampType: Ics

Batch ID: 32305

PQL

1.5

TestCode: EPA Method 300.0: Anions RunNo: 43534

Prep Date:

6/15/2017

Analysis Date: 6/15/2017

SeqNo: 1371964

Units: mg/Kg

Analyte

14

SPK value SPK Ref Val

LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

Result

1.5 15.00

%REC 93.0

110

Page 4 of 8

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

В Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RPD outside accepted recovery limits

P

% Recovery outside of range due to dilution or matrix

Qualifiers:

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706832

16-Jun-17

Client:

Williams Field Services

Project:

Tribal C-2: S-1 N&W Wall, S-2 S&E Walls

Project:	Tribal C-	-2: S-1 N&'	W Wal	l, S-2 S&E	Walls						
Sample ID	LCS-32302	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 32	302	F	RunNo: 4	3528				
Prep Date:	6/15/2017	Analysis D	ate: 6/	15/2017	8	SeqNo: 1	371104	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	48	10	50.00	0	95.7	73.2	114			
Surr: DNOP		4.7		5.000		94.7	70	130			
Sample ID	MB-32302	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 32	302	F	RunNo: 4	3528				
Prep Date:	6/15/2017	Analysis Da	ate: 6/	15/2017	S	SeqNo: 1	371105	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 Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.5		10.00		95.4	70	130			
Sample ID	1706832-001AMS	SampT	уре: МS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Tribal C-2 S-1 No	rth Batch	ID: 32	302	F	RunNo: 4	3528				
Prep Date:	6/15/2017	Analysis Da	ate: 6/	15/2017	S	SeqNo: 1	372094	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	50	10	50.40	0	98.7	55.8	122			
Surr: DNOP		5.0		5.040		98.5	70	130			
Sample ID	1706832-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	Tribal C-2 S-1 No	rth Batch	ID: 32	302	F	RunNo: 4	3528				
Prep Date:	6/15/2017	Analysis Da	ate: 6/	15/2017	S	SeqNo: 1	372095	Units: mg/h	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	43	9.5	47.44	0	90.4	55.8	122	14.8	20	
Surr: DNOP		4.0		4.744		83.5	70	130	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
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 5 of 8

- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706832

16-Jun-17

Client:

Williams Field Services

Sample ID rb	Samp ⁻	Туре: МІ	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Shor	List	
Client ID: PBS		h ID: A4			RunNo: 4		ozooz. voia		. =101	
							Unito: mar/l	<i>-</i>		
Prep Date:	Analysis [Jale. 6	15/2017		SeqNo: 1	3/1134	Units: mg/h	\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	0.5000		400		100			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130		len j T	
Sample ID 100ng Ics	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batc	h ID: A4	3531	F	RunNo: 4	3531				
Prep Date:	Analysis [Date: 6/	15/2017	S	SeqNo: 1	371135	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	70	130			
Toluene	0.90	0.050	1.000	0	89.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			
Sample ID 1706832-001am	s Samp1	Гуре: М	3	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: Tribal C-2 S-1 N	orth Batci	h ID: A4	3531	F	RunNo: 4	3531				
Prep Date:	Analysis D	Date: 6/	15/2017	S	SeqNo: 1	371806	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	61.9	146			
Toluene	0.98	0.050	1.000	0.005060	97.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.56		0.5000		112	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.8	70	130			
Surr: Dibromofluoromethane	0.59		0.5000		118	70	130			
Surr: Toluene-d8	0.57		0.5000		114	70	130			
Sample ID 1706832-001am	sd Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
	orth Batcl	h ID: A4	3531	R	RunNo: 4	3531				
Client ID: Tribal C-2 S-1 N	Analysis F	Date: 6/	15/2017	S	SeqNo: 1	371807	Units: mg/k	(g		
Client ID: Tribal C-2 S-1 N Prep Date:	Allalysis L						1.11 - 1-1.1 14	O/ DDD	DDDI :!	
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date:		PQL 0.025	SPK value 1.000	SPK Ref Val	%REC 105	LowLimit 61.9	HighLimit 146	1.34	20	Qual

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

RL Reporting Detection Limit

Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits Page 6 of 8

P Sample pH Not In Range

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706832

16-Jun-17

Client:

Williams Field Services

Project:

Tribal C-2: S-1 N&W Wall, S-2 S&E Walls

Sample ID 1706832-001amsd SampType: MSD TestCode: EPA Method 8260B: Volatiles Short List Client ID: Tribal C-2 S-1 North Batch ID: A43531 RunNo: 43531 Prep Date: Analysis Date: 6/15/2017 SeqNo: 1371807 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result **PQL** LowLimit 106 70 0 0 Surr: 1,2-Dichloroethane-d4 0.53 0.5000 130 Surr: 4-Bromofluorobenzene 0.53 0.5000 105 70 130 0 0 Surr: Dibromofluoromethane 0.59 0.5000 118 70 130 0 0 70 130 0 0 Surr: Toluene-d8 0.58 0.5000 115

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
- Reporting Detection Limit

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706832

16-Jun-17

Client:

Williams Field Services

Project:

Tribal C-2: S-1 N&W Wall, S-2 S&E Walls

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: R43531

RunNo: 43531

Prep Date:

Surr: BFB

Analysis Date: 6/15/2017 PQL

5.0

SeqNo: 1371142

Units: mg/Kg

RPDLimit Qual

Analyte Gasoline Range Organics (GRO)

ND 470

Result

Result

26

480

500.0

SPK value SPK Ref Val %REC

94.3

130

HighLimit

Sample ID 2.5ug gro Ics

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

LowLimit

70

Client ID:

Batch ID: R43531

PQL

RunNo: 43531

Prep Date:

LCSS

130

130

Analysis Date: 6/15/2017

SeqNo: 1371143 %REC

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val 5.0 25.00

500.0

18.74

374.8

374.8

104 96.6

LowLimit HighLimit 70

%RPD

%RPD

RPDLimit Qual

Surr: BFB

Sample ID 1706832-002ams

SampType: MS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: Prep Date:

Tribal C-2 S-2 South

Batch ID: R43531

3.7

RunNo: 43531

63.2

70

70

Units: mg/Kg

Analyte

PQL Result

Analysis Date: 6/15/2017

SeqNo: 1371680

128

130

20

0

Page 8 of 8

Gasoline Range Organics (GRO)

21 320

Result

330

SPK value SPK Ref Val %REC

LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Qual

Surr: BFB

Sample ID 1706832-002amsd SampType: MSD

105

86.5

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID:

Tribal C-2 S-2 South

Batch ID: R43531

RunNo: 43531

Prep Date:

Analysis Date: 6/15/2017

1.364

SeqNo: 1371681

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Surr: BFB

20 3.7 18.74

PQL

SPK value SPK Ref Val 1.364

%REC LowLimit 102

88.6

HighLimit 63.2

70

128 130

%RPD **RPDLimit** 3.00

0

Oualifiers:

RL

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Reporting Detection Limit

H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit Analyte detected in the associated Method Blank

E Value above quantitation range

T Analyte detected below quantitation limits

R RPD outside accepted recovery limits

P Sample pH Not In Range

% Recovery outside of range due to dilution or matrix



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 SERVI	Work Order Number:	1706832		RcptNo:	1
Received By:	Anne Thorne	6/15/2017 9:00:00 AM		aone Am	_	
Completed By:	Anne Thorne	6/15/2017 9:16:49 AM		Aone Ham Aone Ham		
Reviewed By:	07	6115/17		Clone Stran		
Reviewed by.		011011/				
Chain of Cu	stody					
1. Custody se	eals intact on sample bottles?		Yes	No 🗆	Not Present ✓	
	Custody complete?		Yes 🗸	No 🗆	Not Present	
	ne sample delivered?		Courier			
<u>Log In</u>						
4. Was an at	tempt made to cool the samp	les?	Yes 🗹	No 🗌	NA 🗆	
5. Were all sa	imples received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient s	ample volume for indicated to	est(s)?	Yes 🗹	No 🗆		
	es (except VOA and ONG) pro		Yes 🗸	No 🗆		
	rvative added to bottles?	, ,	Yes	No 🗹	NA 🗆	
				_		
10.VOA vials h	nave zero headspace?		Yes	No 🗆	No VOA Vials	
11. Were any	sample containers received b	roken?	Yes 🗆	No 🗸	# of preserved	
10 -				🖂	bottles checked	
	work match bottle labels?		Yes 🗹	No 🗀	for pH: (<2 or	>12 unless noted)
	s correctly identified on Chair		Yes 🗸	No 🗌	Adjusted?	
	hat analyses were requested		Yes 🗸	No 🗆		
	lding times able to be met?		Yes 🗹	No 🗔	Checked by:	
(If no, notify	customer for authorization.)					
Special Hand	dling (if applicable)					
	notified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
Perso	on Notified:	Date	***************************************	***************************************		
By W	hom:	Via:	eMail 🔲	Phone Fax	In Person	
Rega	rding:			·		
Client	Instructions:	Talaun Almandan at 1853)	**************************************	iii ia ia ia ia ia ia a mana anna anna a	* CONTRACTOR AND A COMMENTAL CONTRACTOR CONT	
17. Additional	remarks:					
18. Cooler Inf	ormation					
Cooler N			Seal Date	Signed By		
1	2.3 Good	Yes		l		
D		·		=		

C	hain	-ot-Cu	istody Record	Turn-Around	rime:	SCM Eday								184	/T I	10			BIT		
Client:	WFS			□ Standard	☑ Rush	5-2 SOUTA & Erstably + Wall														AL OR	
				Project Name	e: - 2	5-2 South										tal.co					
Mailing	Address	:188	CR 4900	5-1 NOS	-thawes	+ 4411		49	01 H	awki	ns N	IE -	Alb	uque	erque	e, Ni	M 87	109			
			87413	Project #:				T€	el. 50	5-34	5-39	975	F	ax	505-	345-	4107	7			
Phone a	#: 50	-632	-4708									Α	naly	sis	Req	uest				X.	
email o	r Fax#: /	witch. Me	mis@ williams.com	Project Mana	ger:		=	(ylu	RO)					04)	-						
	Package:						TMB's (8021)	TPH (Gas only)	/ W			(S)		S,4C	PCB's						
□ Stan			☐ Level 4 (Full Validation)	mitch	Morris		92	9	RO			SIMS)		2,PC	2 P						
Accredi		C 045-	_	Sampler: Mo	Yes Xi	lion	1	I T) / D	F	=	8270		8	808						2
□ NEL		U Otne	r	On ice:	Yes C	□ No	+	+	3RC	418	504		S	Ş	/ 86		OA)	19			ō
	(Type)	T .		- ALABAMAN AND ALABAMAN AND AND AND AND AND AND AND AND AND A	perature: 2.3	<u> </u>	#	TB	B ((por	poc	10	leta	5	icid	(A)	-jc	6.			S (7
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	BTEX + MABE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	A 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	hlorida			Air Bubbles (Y or N)
				Type and # MeoHkt	Туре	1706832	BTE)	BTE)	TPH	ТРН	EDB	PAH'	RCRA	Anior	8081	8260	8270	14			Air Bı
6/14/17	11:30	50:1	TribalC2 5=1 Northawest	1-402	Cool	-201	X	_	X									X	\top	\top	+
2/14/17	100	5011	5-2 South & East	1-402		212	X		X									X			
	11:40	soil	Tribal C-2 5rd South & East Tribal C-2 Bottom	1-402	1	703	X		X									X			
									,												
							_												\dashv	\perp	_
							-				_								_	+	
							-										\vdash	\vdash	\dashv	+	+
							-						_		,		\vdash	-	\dashv	+	+
														-			\vdash			+	+
		H 1, 23																		\top	\top
Date: //4//7	Time: 1825	Relinquish	ed by: Lillion	Received by:	Work	Date Time	Ren	mark	s:												
Date:	Time: 1910	Relineuish	ed by:	Received by:	,00	Date Time 06/15/17 0900															
1 1	fnecessary	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratori	es. This serves as notice of this	s poss	ibility.	Any s	ub-con	tracted	d data	will be	e clear	ly nota	ated or	n the a	nalytic	al repor	rt.	