

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: pJK1424834050

3RP - 1013

Williams Four Corners, LLC

3R-1013

Release Report/ General Correspondence

Williams SJ

Date: Jul-Sept 2016



State of New Mexico Energy Minerals and Natural Resources

AUG 1 5 2016

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505

]	Release Notific	ation and (orrective A	ction	
		OPER	TOR	☐ Initi	al Report Final Report
Name of Company Williams Four Co		Contact	Monica Sand		
Address 188 CR 4900, Bloomfield, Facility Name 32-9 CDP	, NM 87413		No. 505-632-46 pe Compressor		
			rpe Compressor		
Surface Owner Private Land	Mineral O	wner		API No	0.
		TION OF R			
The state of the s	ange Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
		597° N Longitu URE OF RE	de <u>107.86047° W</u>	<u>/</u>	
Type of Release Natural Gas	MAI		of Release 460 Me	CF Volume	Recovered 0 MCF
Source of Release Pressure Relief Valve			Hour of Occurrence		Hour of Discovery
Was Immediate Notice Given?	es 🗌 No 🛛 Not Re	If YES,	o Whom? NA		
By Whom? NA		Date and	Hour 0		
Was a Watercourse Reached?			/olume Impacting	the Watercourse.	
□ Y	es No				
If a Watercourse was Impacted, Describe	Fully.*		-		
Not Applicable					
Describe Cause of Problem and Remedial	Action Taken.*				
Rupture disc assembly broke off the	suction scrubber Broke	n ninnle caused by	excessive vibratio	n	
Rapture disc assembly bloke off the	suction serubber. Dioke	ii inppie caused by	excessive violatio		
Describe Area Affected and Cleanup Action	on Taken.*		-		
Broken nipple and rupture disc replaced.					
I hereby certify that the information given					
regulations all operators are required to republic health and a series are required to required to require and					
public health or the environment. The acc should their operations have failed to adeq					
or the environment. In addition, NMOCD	acceptance of a C-141 r				
federal, state, or local laws and/or regulation	ons.		OIL CON	SERVATION	DIVISION
			OIL CON	SERVATION	DIVISION
Signature: MynicaSandousal					
Signature:		Approved	y Environmental S	pecialist	
Printed Name: Monica Sandoval			Ca	osse (
Title: Environmental Specialist		Approval I	ate: 8/17/201	Expiration	Date:
E-mail Address: monica.sandoval@willia	ms.com	Conditions	of Approval:		Attached
	none: 505-632-4625				_
Attach Additional Sheets If Necessary		NUFI	6230421	29	

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis Dr.

			Rele	ease Notific	ation	and Co	rrective A	ction			
						OPERA'	ГOR		Initial Re	port 🛚	Final Report
		illiams Four			_	Contact	Michael Hann				
		yo Dr., Bloo					No. 505-632-48				
Facility Nar	ne La Jara	a Compresso	r Station			Facility Typ	e Compressor	Station			
Surface Ow	ner Burea	u of Land M	lanageme	ent Mineral O	wner			AP	I No.		
				LOCA	TIO	OF RE	LEASE				
Unit Letter M	Section 1	Township 30N	Range 9W	Feet from the	North/	South Line	Feet from the	East/West L		unty Juan	
,				Latitude 36.81		_		7			
Type of Rele	neo Mature	1 Con		NAT	UKE	OF REL	Release 103.78	MCE Valu	ma Dagari	ered 0 MCI	e ·
		gency Safety	Device (F	SD)			lour of Occurrence			of Discover	
Source of Ice	icase Ellici	gency salety	Device (L	50)		And the second s	2:15 PM MST			7 PM MST	,
Was Immedia	ate Notice (Yes [No Not Re	quired	If YES, To	Whom?				
By Whom?	ř.			2101		Date and H	lour:				
Was a Water	course Read		Yes 🛛	No		If YES, Vo	dume Impacting t				
If a Watercou	rse was Im	pacted, Descri	ibe Fully.					(OIL COM	IC Du	
Not Applicab	le								- 001	D VIU .o.	IST. 3
									AUG	IS. DIV D	
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*						- 2 2010	,
La Jara statio	n ESD clos	ed, vent valve	opened, r	eleasing 103.78 M	ICF, ES	D closed bec	ause gas detector	went off.			
Describe Are	a Affected	and Cleanup A	Action Tak	ten.*							
No clean-up	equired for	natural gas re	eleases ver	nted to atmosphere	ð.						
I hereby certi	fy that the i	nformation gi	ven above	is true and compl	lete to th	ne best of my	knowledge and u	nderstand that	pursuant t	to NMOCD	rules and
regulations al	1 operators	are required to	o report ar	nd/or file certain re	elease n	otifications a	nd perform correc	tive actions fo	r releases	which may	endanger
				e of a C-141 report investigate and re							
				tance of a C-141 r							
federal, state,				tunee of a C 1411	eport a	oes not renev	e the operator or	esponsionity .	ioi compii	mice with th	ly outer
11							OIL CON	SERVATI	ON DIV	VISION	
111								N	1		
Signature:						A	F		1	11)
Printed Name	: Michael	Hannan			134	Approved by	Environmental S	pecialist:	One	200	5
Title: Engine	er, Sr.					Approval Dat	69618:	NO Expira	tion Date:	-	
E-mail Addre	ss: michae	l.hannan@wil	lliams.con	1		Conditions of	Approval:		Att	tached	
Date: 08/08/1	6		1	Phone: 505-632-48	807	-					
Attach Addit		ets If Necess				NUF	1624	3266	190		

1

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			Rele	ease Notifica	ation	and Co	rrective A	ction				
						OPERA'	ГOR		Initia	al Report	\boxtimes	Final Report
Name of Co					_	Contact	Kijun Hong					
			loomfield	I, NM 87413			No. 505-632-44					
Facility Nar	ne McCla	inahan 15E		1000		racility Typ	e Natural Ga	s Pipeline				
Surface Ow	ner BLM	- NMNM40	621	Mineral Ov	vner			A	PI No			
				LOCA	TION	OF RE	LEASE					
Unit Letter	Section 14	Township 28N	Range 10W			South Line	Feet from the	East/West	Line	County San Juan		
				Latitude 36.	65527	Longitud	e <u>-107.86846</u>			se 2		
				NATU	JRE	OF REL	EASE					
Type of Rele	ase Natur	al Gas and P	roduced V	Vater		Volume of		Vol	lume F	Recovered 0		5
							atural gas; produced water					3 Fe
Source of Re	lease Pipel	ine				Date and F	lour of Occurrence			Hour of Dis		
Was Immedia	nte Notice (Sivan?				4/20/2016, If YES, To	10:30 AM MST	4/2	0/2016	, 10:30 AM	MST	- 7
was innicula	ate Protice C		Yes [No Not Req	uired	Not Applie						
By Whom?						Date and F	Iour		OIL	CONS. DI	V DIS	ST. 3
Was a Water	course Read		V	I No.			olume Impacting	the Watercou	irse.	ALIC 4 0	2010	
		3000	Yes 🗵			Not Applie	cable			AUG 1 2	, 2010)
If a Watercou		pacted, Descr em and Reme										
discovered a remediation Describe Are Excavation v July 25, 2010 on July 27, 2 are attached I hereby certi regulations al	a few feet activities. a Affected a was conducted. The resu 2016 from fy that the ill operators	from the ori and Cleanup A cted until san lts exceeded the excavation information gives are required to	dstone be the TPH a n floor ar	ten.* cen.* cen.* cen.* cen.* cen.* cen. * cen.	ntered. stands este to the	An initial ards. Furthed concentrate best of my	confirmation saler excavation wations below all knowledge and und perform correct	mple was conscious conducted closure standarderstand the	emove llected l and d dards. at purs	d during p I from the confirmatio Laborator Buant to NM cases which	excavat n samp y analy OCD ru may en	tion floor on oles collected ytical results
should their of	perations homent. In a	ave failed to a	dequately CD accep	r investigate and rer otance of a C-141 re	mediate	contaminati	on that pose a thr	eat to ground	d water	, surface wa	iter, hui	man health
Signature:	K	5	H	31	4	Approved by	OIL CON Environmental S		TON	DIVISIO	h	9
Printed Name	: Kijun He	ong										
Title: Enviro	onmental S	Specialist				Approval Da	te: 4/6/16	Expir	ration	Date:	4	
		Hong@Willia				Conditions of	f Approval:			Attached		
Date: Attach Addit	08/09/2016	ets If Nacass	P.	hone: 505-632-447:	5	00-	10-				1	
Audi Audi	donar Sile	VIS 11 1400038	"' <i>#</i>	DCS 164	<i>ide</i>	935	645				10	(1)



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

OrderNo.: 1607C98

July 28, 2016

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

RE: McClanahan 15E Line Leak

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/26/2016 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 1607C98

Date Reported: 7/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: McClanahan # 15 E Bottom Com

Project: McClanahan 15E Line Leak

Collection Date: 7/25/2016 2:40:00 PM

Lab ID: 1607C98-001

Matrix: MEOH (SOIL) Received Date: 7/26/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3				Analyst: TOM
Diesel Range Organics (DRO)	300	10		mg/Kg	1	7/26/2016 9:24:14 AM
Surr: DNOP	88.0	70-130		%Rec	1	7/26/2016 9:24:14 AM
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	2100	510		mg/Kg	100	7/26/2016 2:37:22 PM
Surr: BFB	110	80-120		%Rec	100	7/26/2016 2:37:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	2.1	0.51		mg/Kg	20	7/26/2016 12:59:19 PM
Toluene	54	1.0		mg/Kg	20	7/26/2016 12:59:19 PM
Ethylbenzene	11	1.0		mg/Kg	20	7/26/2016 12:59:19 PM
Xylenes, Total	160	2.0		mg/Kg	20	7/26/2016 12:59:19 PM
Surr: 4-Bromofluorobenzene	129	80-120	S	%Rec	20	7/26/2016 12:59:19 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	290	30		mg/Kg	20	7/26/2016 11:48:48 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 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607C98

28-Jul-16

Client:

Williams Field Services

Project:

McClanahan 15E Line Leak

Sample ID MB-26611

SampType: mblk

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 26611

RunNo: 36016

Prep Date: 7/26/2016

Analysis Date: 7/26/2016

SeqNo: 1115385

Units: mg/Kg

Analyte

PQL Result

1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Chloride

ND

Sample ID LCS-26611

SampType: Ics

Client ID: LCSS Batch ID: 26611

RunNo: 36016

Prep Date: 7/26/2016

SeqNo: 1115387

Analysis Date: 7/26/2016

Units: mg/Kg

Analyte

Result PQL

15.00

HighLimit

%RPD

1.5

RPDLimit

Qual

14

Chloride

SPK value SPK Ref Val %REC LowLimit

95.7

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 RPD outside accepted recovery limits R

% 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

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607C98

28-Jul-16

Client:

Williams Field Services

Project:

McClanahan 15E Line Leak

Sample ID LCS-26602	SampT	SampType: LCS			tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: LCSS	Batch	n ID: 26	602	F	RunNo: 3	5982					
Prep Date: 7/26/2016	Analysis D)ate: 7/	26/2016	SeqNo: 1114066			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	39	10	50.00	0	78.0	62.6	124		3///		
Surr: DNOP	4.3		5.000		85.3	70	130				

Sample ID MB-26602	SampTy	pe: MB	LK	Test	Code: E	PA Method	8015M/D: Di	esel Rang	e Organics	1	
Client ID: PBS	Batch I	ID: 266	02	R	tunNo: 3	5982					
Prep Date: 7/26/2016	Analysis Da	te: 7/2	6/2016	SeqNo: 1114067 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	8.7		10.00		87.5	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- 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
- Analyte detected below quantitation limits
 - Sample pH Not In Range

Page 3 of 5

State of the second

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607C98

28-Jul-16

Client:

Williams Field Services

Project:

McClanahan 15E Line Leak

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

LCSS

Batch ID: R35987

PQL

5.0

RunNo: 35987

Prep Date:

Units: mg/Kg

120

120

Analysis Date: 7/26/2016

SeqNo: 1115529

Analyte Gasoline Range Organics (GRO) Surr: BFB

25 960

Result

%REC SPK value SPK Ref Val 0 102 95.8 LowLimit HighLimit 80 80

%RPD **RPDLimit** Qual

Sample ID 5ML-RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: R35987

Analysis Date: 7/26/2016

RunNo: 35987 SeqNo: 1115530

Units: mg/Kg

HighLimit

%RPD

Page 4 of 5

Analyte

Prep Date:

Result PQL

SPK value SPK Ref Val %REC LowLimit

80

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 820

1000

25.00

1000

81.6

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н 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

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607C98

28-Jul-16

Client:

Williams Field Services

Project:

McClanahan 15E Line Leak

Sample ID 100NG BTEX LC	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: B3	5987	F	RunNo: 3	5987				
Prep Date:	Analysis D	Date: 7/	26/2016	\$	SeqNo: 1	115534	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	75.3	123			
Toluene	1.0	0.050	1.000	0	104	80	124			
Ethylbenzene	0.98	0.050	1.000	0	97.7	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	94.2	83.9	122			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120		-	
Sample ID 5ML-RB	Samp1	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles	THE COLUMN TWO IS NOT	V
Client ID: DDC	Detel	ID. DO								

Sample ID 5ML-RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: B3	5987	F	RunNo: 3	5987				
Prep Date:	Analysis D	ate: 7/	26/2016	8	SeqNo: 1	115537	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								-
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit Sample container temperature is out of limit as specified

Page 5 of 5



riuu Environmeniai 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: 1607C98 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 7/26/2016 7:50:00 AM Completed By: **Lindsay Mangin** 7/26/2016 8:07:57 AM Reviewed By: 09/24/16 Chain of Custody Not Present No 🗌 1. Custody seals intact on sample bottles? Yes No 🗌 Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA 🗌 Yes 🗸 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 No \square Yes V Sample(s) in proper container(s)? No 🗌 Yes V 7. Sufficient sample volume for indicated test(s)? No 🗆 8. Are samples (except VOA and ONG) properly preserved? No V NA 🗆 Yes 9. Was preservative added to bottles? No VOA Vials Yes No 🗌 10. VOA vials have zero headspace? Yes 🗆 No 🗸 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes V 13. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes V 15. Were all holding times able to be met? (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 2.7 Good Yes

			istody Record	Turn-Around	Time:	Someday				ч	A I I	=	NI	/TE	20	NI B	WE	NIT	AL	
ient:	WFS	;		□ Standard	Rush	5-26-16			=										OR'	
	<i>V-1</i>			Project Name):		•				ww.h								-14	•
ailing	Address	: 188	CR4900	MELLON	ahan #	SE L'Neleck		490)1 H:	awkin							109			
Blow	om Fix	HNA	87413	Project #:			1			5-345			Fax							
			6-8457							and the second			ysis		allia I v	and and				
nail o	r Fax#: A	Vi wel a h	bug Dwillians . com	Project Mana	iger:			3	0				4							
	Package:		July Dilling	,	9***		21	0	/ MRO	- 1	1-		S	S,C						
Stan	-	У.	☐ Level 4 (Full Validation)	KijuN	HONG		TMB's (8021)	(Gas only)	0		SIMS		Q ₂	PC						
	tation		E Level 4 (I all Validation)	Complex	1/0/0/	- 41	88	Ŧ	DRO	_ .			ŝ	82						
NEL		□ Othe	er	On Ice	DYAS	oへ □ No	P	TPH	0	8.1	8270		Ž,E	/ 80		2				[Z
	(Type)			Sample Terr	perature.		±	# #	(GRO	4	2 2	als	2	ser		Ó				>
	(1)			PERSONAL PROPERTY AND ASSESSMENT OF THE PERSON OF THE PERS	- To the appropriate services of the services		I ₩	MTBE	5B	\$	ğ Ş	Met	ō	stici	Q.	Ë	4			es (
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + 1	BTEX + 1	H 8015B	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)	Chlonde			Air Bubbles (Y or N)
			# 1 = 1 = 1 = 1 = 1 = 1		101	1001098	В	BT	표	<u> </u>	립	<u> </u>	F	80	82	82	٧		\perp	¥
5/11	2:46	Soil	MC JENDHANT IS E Bottom compsite	1-402	MAN	-001	X		X								X			
					,,,,,,		1													
											+	+	-					\dashv	\dashv	_
								\vdash	\dashv	+	+	+-	+-				\vdash	$\overline{}$	+	+
									_	_	_	╀	_						_	\perp
							_													
												Т	Τ							
							\vdash			\dashv	+	+	1				Н		_	+
		_			-			\vdash	-	-	+	+	\vdash						-	+
	3						-	_		\rightarrow	+	-	-					\vdash	+	-
										_	_	_	\vdash						_	
													*							
ite:	Time:	Relinquish		Received by:		Date Time	Rer	nark	3:				•							
5//C	1530	Muy	Killer	Christia	w. Walte.	7/25/1. 1530														
ite:	Time:	Relinquish	ed by:	Received by:	Name of the second	Date Time	1													
5/16	1852	Vihn.	+ 1 hole		**	or halv ma	1													
	f necessary.	camples sub	mitted to Hall Environmental may be subc	ontracted to other a	condited laboratoric	OHIZONO OTO	e possi	hility	Any eu	h aantra	cted de	to said t		d						



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

Website: www.hallenvironmental.com

August 04, 2016

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

FAX

RE: McClanahan 15 E

OrderNo.: 1607E80

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/28/2016 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1607E80

Date Reported: 8/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: McClanahan 15E North Wall

Project: McClanahan 15 E

Collection Date: 7/27/2016 9:40:00 AM

Lab ID: 1607E80-001

Received Date: 7/28/2016 7:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	64	30	mg/Kg	20	8/2/2016 2:07:56 PM	26746
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst:	KJH
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	8/2/2016 5:52:09 PM	26694
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/2/2016 5:52:09 PM	26694
Surr: DNOP	104	70-130	%Rec	1	8/2/2016 5:52:09 PM	26694
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/29/2016 9:58:15 PM	26668
Surr: BFB	111	49.4-163	%Rec	1	7/29/2016 9:58:15 PM	26668
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.023	mg/Kg	1	7/29/2016 9:58:15 PM	26668
Toluene	ND	0.046	mg/Kg	1	7/29/2016 9:58:15 PM	26668
Ethylbenzene	ND	0.046	mg/Kg	1	7/29/2016 9:58:15 PM	26668
Xylenes, Total	0.23	0.091	mg/Kg	1	7/29/2016 9:58:15 PM	26668
Surr: 4-Bromofluorobenzene	85.8	80-120	%Rec	1	7/29/2016 9:58:15 PM	26668

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
- 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 Page 1 of 9 J
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1607E80

Date Reported: 8/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: McClanahan 15E South Wall

Project: McClanahan 15 E Collection Date: 7/27/2016 9:45:00 AM

Lab ID: 1607E80-002

Matrix: SOIL

Received Date: 7/28/2016 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	180	30	mg/Kg	20	8/2/2016 2:45:11 PM	26746
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/2/2016 6:13:59 PM	26694
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/2/2016 6:13:59 PM	26694
Surr: DNOP	111	70-130	%Rec	1	8/2/2016 6:13:59 PM	26694
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	RAA
Gasoline Range Organics (GRO)	5.9	4.9	mg/Kg	1	7/29/2016 10:21:46 PM	26668
Surr: BFB	103	49.4-163	%Rec	1	7/29/2016 10:21:46 PM	26668
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	7/29/2016 10:21:46 PM	26668
Toluene	0.079	0.049	mg/Kg	1	7/29/2016 10:21:46 PM	26668
Ethylbenzene	ND	0.049	mg/Kg	1	7/29/2016 10:21:46 PM	26668
Xylenes, Total	0.36	0.097	mg/Kg	1	7/29/2016 10:21:46 PM	26668
Surr: 4-Bromofluorobenzene	92.6	80-120	%Rec	1	7/29/2016 10:21:46 PM	26668

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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 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.

CLIENT: Williams Field Services

Client Sample ID: McClanahan 15E West Wall

McClanahan 15 E Project:

Collection Date: 7/27/2016 9:50:00 AM

Lab ID: 1607E80-003

Matrix: SOIL

Received Date: 7/28/2016 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	160	30	mg/Kg	20	8/2/2016 2:57:35 PM	26746
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/2/2016 6:35:42 PM	26694
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/2/2016 6:35:42 PM	26694
Surr: DNOP	113	70-130	%Rec	1	8/2/2016 6:35:42 PM	26694
EPA METHOD 8015D: GASOLINE RAN	NGE				Analyst:	RAA
Gasoline Range Organics (GRO)	5.2	4.7	mg/Kg	1	7/29/2016 11:32:19 PM	26668
Surr: BFB	114	49.4-163	%Rec	1	7/29/2016 11:32:19 PM	26668
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.023	mg/Kg	1	7/29/2016 11:32:19 PM	26668
Toluene	ND	0.047	mg/Kg	1	7/29/2016 11:32:19 PM	26668
Ethylbenzene	ND	0.047	mg/Kg	1	7/29/2016 11:32:19 PM	26668
Xylenes, Total	0.62	0.093	mg/Kg	1	7/29/2016 11:32:19 PM	26668
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	7/29/2016 11:32:19 PM	26668

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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
- Analyte detected below quantitation limits Page 3 of 9 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1607E80

Date Reported: 8/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: McClanahan 15E East Wall

Project: McClanahan 15 E Collection I

Collection Date: 7/27/2016 9:55:00 AM

Lab ID: 1607E80-004

Matrix: SOIL Received Date: 7/28/2016 7:30:00 AM

Analyses	Result	PQL (ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	190	30	mg/Kg	20	8/2/2016 3:10:00 PM	26746
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	8/1/2016 2:50:54 PM	26694
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/1/2016 2:50:54 PM	26694
Surr: DNOP	71.6	70-130	%Rec	1	8/1/2016 2:50:54 PM	26694
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/29/2016 11:55:44 PM	26668
Surr: BFB	104	49.4-163	%Rec	1	7/29/2016 11:55:44 PM	26668
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	7/29/2016 11:55:44 PM	26668
Toluene	ND	0.049	mg/Kg	1	7/29/2016 11:55:44 PM	26668
Ethylbenzene	ND	0.049	mg/Kg	1	7/29/2016 11:55:44 PM	26668
Xylenes, Total	0.15	0.099	mg/Kg	1	7/29/2016 11:55:44 PM	26668
Surr: 4-Bromofluorobenzene	93.5	80-120	%Rec	1	7/29/2016 11:55:44 PM	26668

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 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1607E80

Date Reported: 8/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: McClanahan 15E Bottom Comp

Project: McClanahan 15 E

Collection Date: 7/27/2016 10:00:00 AM

Lab ID: 1607E80-005

Matrix: SOIL

Received Date: 7/28/2016 7:30:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	30	30	mg/Kg	20	8/2/2016 3:22:25 PM	26746
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst:	KJH
Diesel Range Organics (DRO)	19	9.8	mg/Kg	1	8/2/2016 6:57:33 PM	26694
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/2/2016 6:57:33 PM	26694
Surr: DNOP	113	70-130	%Rec	1	8/2/2016 6:57:33 PM	26694
EPA METHOD 8015D: GASOLINE RAN	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/30/2016 12:19:10 AM	26668
Surr: BFB	111	49.4-163	%Rec	1	7/30/2016 12:19:10 AM	26668
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.025	mg/Kg	1	7/30/2016 12:19:10 AM	26668
Toluene	ND	0.050	mg/Kg	1	7/30/2016 12:19:10 AM	26668
Ethylbenzene	ND	0.050	mg/Kg	1	7/30/2016 12:19:10 AM	26668
Xylenes, Total	ND	0.10	mg/Kg	1	7/30/2016 12:19:10 AM	26668
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	7/30/2016 12:19:10 AM	26668

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 5 of 9
- 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#:

1607E80

04-Aug-16

Client:

Williams Field Services

Project:

McClanahan 15 E

Sample ID MB-26746

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PRS

Batch ID: 26746

PQL

RunNo: 36161

Prep Date: 8/2/2016

Analysis Date: 8/2/2016

Result

SeqNo: 1119923

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-26746

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: 26746

RunNo: 36161

Prep Date: 8/2/2016

Client ID: LCSS

Analysis Date: 8/2/2016

SeqNo: 1119924

Units: mg/Kg

110

RPDLimit

Chloride

PQL SPK value SPK Ref Val %REC LowLimit

15.00

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit

90.1

HighLimit

%RPD

Qual

Sample ID MB-26746 Client ID:

Prep Date:

Client ID: LCSS

14

SampType: MBLK Batch ID: 26746

1.5

TestCode: EPA Method 300.0: Anions

HighLimit

RunNo: 36168

Units: mg/Kg

%RPD

Qual

Analyte Chloride

Result PQL ND 1.5

Analysis Date: 8/2/2016

Sample ID LCS-26746

8/2/2016

PBS

SampType: LCS

Result

14

TestCode: EPA Method 300.0: Anions

RunNo: 36168

SeqNo: 1120448

HighLimit

Units: mg/Kg

Analyte

Prep Date: 8/2/2016 Analysis Date: 8/2/2016

Batch ID: 26746

SeqNo: 1120449

Qual

Chloride

1.5

91.6

110

%RPD

RPDLimit

RPDLimit

15.00

PQL

0

SPK value SPK Ref Val %REC

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

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

10.00

WO#:

1607E80

04-Aug-16

Client:

Williams Field Services

Project:

Surr: DNOP

McClanahan 15 E

Sample ID LCS-26694	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 26	694	F	RunNo: 3	6120				
Prep Date: 7/29/2016	Analysis D	ate: 8/	1/2016	8	SeqNo: 1	118973	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	62.6	124			
Surr: DNOP	4.6		5.000		91.4	70	130			
Sample ID MB-26694	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 26	594	F	RunNo: 3	6120				
Prep Date: 7/29/2016	Analysis D	ate: 8/	1/2016	5	SeqNo: 1	118974	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								

81.1

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
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- 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 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607E80

04-Aug-16

Client:

Williams Field Services

Project:

McClanahan 15 E

Sample ID MB-26668

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 26668

RunNo: 36097

Prep Date: 7/28/2016

Analysis Date: 7/29/2016 PQL

5.0

SeqNo: 1118419

Units: mg/Kg

163

HighLimit

Analyte

Result ND SPK value SPK Ref Val %REC

LowLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO)

920

1000

92.3

49.4

%RPD

Surr. BFB

Sample ID LCS-26668

SampType: LCS Batch ID: 26668

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 36097

Prep Date: 7/28/2016

Client ID: LCSS

Analysis Date: 7/29/2016

SeqNo: 1118420

Units: mg/Kg

HighLimit

Qual

Analyte Gasoline Range Organics (GRO) Result PQL

103

120

RPDLimit

SPK value SPK Ref Val %REC LowLimit 26 5.0 0 80 25.00 Surr: BFB 1100 1000 108 49.4 163

Qualifiers:

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- 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 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607E80

04-Aug-16

Client:

Williams Field Services

Project:

McClanahan 15 E

Sample ID MB-26668	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 26	668	F	RunNo: 3	6097				
Prep Date: 7/28/2016	Analysis D	ate: 7/	29/2016	5	SeqNo: 1	118455	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.1	80	120			
Sample ID LCS-26668	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles	,	
Client ID: LCSS	Batch	ID: 26	668	F	RunNo: 3	6097				
Prep Date: 7/28/2016	Analysis D	ate: 7/	29/2016	8	SeqNo: 1	118456	Units: mg/K	(g		
	- "	DO1								2

Client ID: LCSS	Batch	n ID: 26	668	F	tunNo: 3	6097				
Prep Date: 7/28/2016	Analysis D	ate: 7/	29/2016	8	eqNo: 1	118456	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	75.3	123			
Toluene	0.92	0.050	1.000	0	92.4	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.2	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	98.9	83.9	122			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 9 of 9



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

Glient Name: WILLIAMS FIELD SERVI Work	Order Number: 1607E80		RoptNo:	
Received by/date:	. Au			
//	A	Stuller		
	16 7:30:00 AM	000		
10	6 10:34:46 AM	July Milyo		
Reviewed By:	128/10			
Chain of Custody			-	
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier		29	
<u>Log In</u>				
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 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly present	ved? Yes ✓	No 🗆		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes -	No 🗹	# of preserved	
42 0	Yes 🔽	No 🗆	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 💌	NO L		>12 unless noted)
13. Are matrices correctly identified on Chain of Custody	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)				
16, Was client notified of all discrepancies with this order	? Yes 🗆	No 🗆	NA 🗹	
Person Notified:	Date			
By Whom:	. ,	Phone T Fax	☐ In Person	
Regarding:	Via Civida	Filone [] Fax	_ in r closs	
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact	Seal No Seal Date	Signed By		
1 1.7 Good Yes				

	hain	-of-Cı	stody Record	Turn-Around	Time:		l			H	IΑ	LL	Е	NV	TE	20	N	4E	NT	AL	4
Client:	WFS			☑ Standard	□ Rush	·] [- 8	- 10		4	4		\TC		
Acilian	Addrone			Project Name	e: Vahan 1	15 E	•					v.hal		-0.5							
waiiing	Address	188	CR 4906				1	49	01 H	awki	ins N	NE -	Alb	uqu	erqu	e, N	M 87	109			
Bloo	MFie	12 NA	n 87413	Project #:				Te	d. 50	5-34	5-39			Fax 505-345-4107							
			-4475									A	naly	/sis	Req	uest					
		Kiscen-1	HONG @ WILLIAMS . COM	Project Mana	iger:	,a	5	(ylu	/ MRO)					(70	S						
	Package:						FMB's (8021)	as	Σ		Ì	(S)	×	O4,S	CB						
□ Star			□ Level 4 (Full Validation)	KiTKN			8's	9	DRO			SIMS)		2,P(32 P						1 1
Accred ☐ NEL		□ Othe	er	Sampler: No.	y Yes	□ Nova	#	+ TPH (Gas only)	30/1	18.1)	04.1	8270		ON'EC	3 / 806		(A)				Or N
	(Type)			Sample Tem	perature: 2.7	7-1.00==1.7	18	BE.	0	bd 4	9	0 or	stals	Ň,	ides	F	9	3			5
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO /	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)	chlood			Air Bubbles (Y or N)
27/16	9:40	Soil	North Wall	1-402	Cool	-001	X		X									X		\top	
1/5		501	Miccionation 15E South Wall	1-402	1	-007	x		¥									χ		_	
27/16	9:50	500	Mccian Ghan 15£	1-402		-003	X		X									X		\top	
7/16	9:45 9:56 9:55	50:1	MCCIONAHAN ISE	1-402		-004	X		χ									X		\top	
	1000	561	Mcclanated 15E Bottom comp.	1-402	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	-005	X		X									X	\exists	+	+
																				_	
							-												\vdash	-	+
Date:	Time:	Relinquish		Received by:		Date Time	Ren	mark	s:												
21/10	1412	mo	& Leceon	Moth	haeta	7/21/16 1415															
Date:	Time:	Relingui	estrelibeles	Received by:	E OF	Date Time												,			
	If necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited taboratori	ies. This serves as notice of this	s possi	bility.	Any su	ıb-cont	tracted	d data	will be	clear	ly note	ated or	the a	nalytic	al repor	t.	

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			Rele	ase Notific	cation	and Co	orrective A	ction	l					
						OPERATOR Initial Report Initial Repo								
Name of Co					_	Contact: Ma								
		Drive, Bloo	mfield, N	M 87413			No.: (505) 632-4							
Facility Nar	ne: 809 Pi	peline			1	Facility Type: Natural Gas Gathering Pipeline								
Surface Ow	ner; BLM			Mineral C	wner	_			API No),				
				LOCA	TION	OF RE	LEASE			2				
Unit Letter F	Section 28	Township 27N	Range 10W	Feet from the	North/	South Line	Feet from the	East/	West Line	County San Juan				
				Latitude 36.57	656° N	Longitud	e <u>-107.90356° V</u>	V						
				NAT	URE	OF REL	EASE							
Type of Rele						Natural Ga				Recovered: 0		Vatural Gas		
Source of Release: Pipeline						The state of the s	Iour of Occurrence t 11:30 AM MST			Hour of Disc at 11:30 AM				
Was Immedia	ate Notice C		No Not Re	equired	If YES, To Cory Smith Shari Ketch	n, NMOCD								
By Whom? I						Date and F	lour: 06/17/15 at	7:15 AN	MST					
Was a Water	course Reac		Yes 🛛	No		If YES, Volume Impacting the WatercoursOIL CONS. DIV DIST. 3								
If a Watercou	rse was Imp	pacted, Descri	be Fully.*							AUG 1	2016	ô		
Not Applicab	le													
Describe Cau	se of Proble	em and Remed	tial Action	Taken.*										
				the 809 Pipeline y 1,247 MCF of r			he pipeline was is ed.	solated a	and adjacen	t well heads	were sh	ut in while		
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*		-								
							ly 7, 2015 results 015 demonstrated							
regulations al public health should their o	or the envir operations had ment. In a	are required to conment. The ave failed to a ddition, NMO	acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no ort by the emediate	otifications as NMOCD m contaminati	knowledge and u nd perform correct arked as "Final R on that pose a thre e the operator of the	eport" de eat to greespons	ions for rele loes not reli round water ibility for co	eases which is eve the operation, surface wat compliance wat	may end ator of er, hun ith any	danger liability nan health		
							OIL CON	SERV	ATION	DIVISIO	N			
	The	2_	-			0								
Signature:	0				1	Approved by	Environmental S	pecialis	t:)					
Printed Name	: Matt Web	re					Joross	٦	YE)				
Title: EH&S	Supervisor					Approval Dat	10/5/20	gla	Expiration	Date:				
E-mail Address: matt.webre@williams.com					(Conditions of	Approval:			Attached				
Date: 08/08/2	016	Ph	one: (505)	632-4442		NC	SI51738	10 [7					



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

July 14, 2015

Kelsey Christiansen Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: (505) 632-4442

FAX

RE: Hargrove K #1F

OrderNo.: 1507284

Francisco No. 1 of Co. 1995, Science See

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/8/2015 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 1507284

Date Reported: 7/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Hargrove K 1F Side Walls Comp

Project: Hargrove K #1F

Collection Date: 7/7/2015 1:30:00 PM

Lab ID: 1507284-001

Matrix: SOIL

Received Date: 7/8/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	43	30		mg/Kg	20	7/13/2015 1:50:21 PM	20224
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/10/2015 9:40:49 PM	20154
Surr: DNOP	86.2	57.9-140		%REC	1	7/10/2015 9:40:49 PM	20154
EPA METHOD 8015D: GASOLINE R.	ANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/11/2015 6:35:01 AM	20172
Surr: BFB	94.9	75.4-113		%REC	1	7/11/2015 6:35:01 AM	20172
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.050		mg/Kg	1	7/11/2015 6:35:01 AM	20172
Toluene	ND	0.050		mg/Kg	1	7/11/2015 6:35:01 AM	20172
Ethylbenzene	ND	0.050		mg/Kg	1	7/11/2015 6:35:01 AM	20172
Xylenes, Total	ND	0.099		mg/Kg	1	7/11/2015 6:35:01 AM	20172
Surr: 4-Bromofluorobenzene	98.2	80-120		%REC	1	7/11/2015 6:35:01 AM	20172

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1507284

Date Reported: 7/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Hargrove KIF Bottom Comp

Project: Hargrove K #1F

Collection Date: 7/7/2015 1:40:00 PM

Lab ID: 1507284-002

Bearing Date: 7/8/20

Matrix: SOIL

Received Date: 7/8/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	7/13/2015 2:27:34 PM	20224
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s				Analyst	: KJH
Diesel Range Organics (DRO)	38	9.9		mg/Kg	1	7/10/2015 10:08:24 PM	20154
Surr: DNOP	90.5	57.9-140		%REC	1	7/10/2015 10:08:24 PM	20154
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	200	25		mg/Kg	5	7/13/2015 4:04:51 PM	20172
Surr: BFB	169	75.4-113	S	%REC	5	7/13/2015 4:04:51 PM	20172
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.33	0.25		mg/Kg	5	7/13/2015 4:04:51 PM	20172
Toluene	6.2	0.25		mg/Kg	5	7/13/2015 4:04:51 PM	20172
Ethylbenzene	1.5	0.25		mg/Kg	5	7/13/2015 4:04:51 PM	20172
Xylenes, Total	15	0.49		mg/Kg	5	7/13/2015 4:04:51 PM	20172
Surr: 4-Bromofluorobenzene	113	80-120		%REC	5	7/13/2015 4:04:51 PM	20172

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1507284

14-Jul-15

Client:

Williams Field Services

Project:

Hargrove K #1F

Sample ID MB-20224

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 20224

PQL

RunNo: 27466

Prep Date: 7/13/2015

Analysis Date: 7/13/2015

Result

SeqNo: 824117

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Chloride

ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS-20224 Client ID: LCSS

Batch ID: 20224

RunNo: 27466

Prep Date: 7/13/2015

Analysis Date: 7/13/2015

SeqNo: 824118

Units: mg/Kg

HighLimit

%RPD

Analyte

15.00

93.9

Chloride

1.5

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit**

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH Not In Range

RL Reporting Detection Limit Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1507284

14-Jul-15

Client:

Williams Field Services

Project:

Hargrove K #1F

rioject. maigio	VC K #11		
Sample ID MB-20154	SampType: MBLK	TestCode: EPA Method 8	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 20154	RunNo: 27405	
Prep Date: 7/8/2015	Analysis Date: 7/10/2015	SeqNo: 823073	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	9.6 10.00	95.9 57.9	140
Sample ID LCS-20154	SampType: LCS	TestCode: EPA Method 8	015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 20154	RunNo: 27405	
Prep Date: 7/8/2015	Analysis Date: 7/10/2015	SeqNo: 823074	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	53 10 50.00	0 106 57.4	139
Surr: DNOP	4.9 5.000	98.8 57.9	140
Sample ID MB-20179	SampType: MBLK	TestCode: EPA Method 8	015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 20179	RunNo: 27449	
Prep Date: 7/9/2015	Analysis Date: 7/13/2015	SeqNo: 823595	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.4 10.00	94.3 57.9	140
Sample ID LCS-20179	SampType: LCS	TestCode: EPA Method 8	015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 20179	RunNo: 27449	
Prep Date: 7/9/2015	Analysis Date: 7/13/2015	SeqNo: 823596	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.5 5.000	90.2 57.9	140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1507284

14-Jul-15

Client:

Williams Field Services

Project: Hargrov	ve K #1F		
Sample ID MB-20172	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline R	ange
Client ID: PBS	Batch ID: 20172	RunNo: 27422	
Prep Date: 7/9/2015	Analysis Date: 7/10/2015	SeqNo: 822756 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RI	PD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	930 1000	92.6 75.4 113	
Sample ID LCS-20172	SampType: LCS	TestCode: EPA Method 8015D: Gasoline R	ange
Client ID: LCSS	Batch ID: 20172	RunNo: 27422	
Prep Date: 7/9/2015	Analysis Date: 7/10/2015	SeqNo: 822757 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RI	PD RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 95.6 64 130	WE
Surr: BFB	990 1000	99.4 75.4 113	
Sample ID MB-20188	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline R	ange
Client ID: PBS	Batch ID: 20188	RunNo: 27446	
Prep Date: 7/9/2015	Analysis Date: 7/13/2015	SeqNo: 823980 Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RI	PD RPDLimit Qual
Surr: BFB	910 1000	90.7 75.4 113	
Sample ID LCS-20188	SampType: LCS	TestCode: EPA Method 8015D: Gasoline R	ange
Client ID: LCSS	Batch ID: 20188	RunNo: 27446	
Prep Date: 7/9/2015	Analysis Date: 7/13/2015	SeqNo: 823981 Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RI	PD RPDLimit Qual
Surr: BFB	970 1000	97.1 75.4 113	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Reporting Detection Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1507284 14-Jul-15

Client:

Williams Field Services

Project: Hargi	ove K #1F												
Sample ID MB-20172	SampType: MBLK TestCode: EPA Method 8021B: Volatiles												
Client ID: PBS	Batch ID: 201	72	F	RunNo: 2									
Prep Date: 7/9/2015	Analysis Date: 71	10/2015	5	22799	Units: mg/Kg								
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND 0.050	150. 70											
Toluene	ND 0.050												
Ethylbenzene	ND 0.050												
Xylenes, Total	ND 0.10												
Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120							
Sample ID LCS-20172	SampType: LC:	S	Tes	tCode: E	PA Method	8021B: Volat	tiles						
Client ID: LCSS	Batch ID: 20172 RunNo: 27422												
Prep Date: 7/9/2015	Analysis Date: 7/	10/2015	8	SeqNo: 8	22800	Units: mg/K	g						
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.99 0.050	1.000	0	98.9	76.6	128							
Toluene	0.95 0.050	1.000	0	95.2	75	124							
Ethylbenzene	1.0 0.050	1.000	0	99.8	79.5	126							
Xylenes, Total	3.0 0.10	3.000	0	99.4	78.8	124							
Surr: 4-Bromofluorobenzene	1.0	1.000		104	80	120							
Sample ID MB-20188	SampType: MB	LK	Tes	tCode: El	PA Method	8021B: Volat	iles		i i i				
Client ID: PBS	Batch ID: 201	88	R	unNo: 2	7446								
Prep Date: 7/9/2015	Analysis Date: 7/1	3/2015	S	eqNo: 8	24010	Units: %RE	С						
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: 4-Bromofluorobenzene	1.0	1.000		99.6	80	120							
Sample ID LCS-20188	SampType: LCS TestCode: EPA Method 8021B: Volatiles												
Client ID: LCSS	Batch ID: 201	88	R	tunNo: 2	7446								
Prep Date: 7/9/2015	Analysis Date: 7/1	3/2015	S	eqNo: 8	24011	Units: %RE	С						
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				

Qualifiers:

Value exceeds Maximum Contaminant Level.

1.1

1.000

E Value above quantitation range

Surr: 4-Bromofluorobenzene

- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

106

120

Page 6 of 6

Sample pH Not In Range

Reporting Detection Limit



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

gged By: Lindsay Mangin 7/8/2015 7:00:00 AM ompleted By: Lindsay Mangin 7/8/2015 8:35:51 AM oviewed By: 1/9//5 wain of Custody Custody seals intact on sample bottles? Is Chain of Custody complete? How was the sample delivered? Og In Was an attempt made to cool the samples?	Yes Yes Cour	ler	No [] Not	Present ☑ Present □	
ompleted By; Lindsay Mangin 7/8/2015 8:35:51 AM eviewed By: 1/9/15 Pain of Custody Custody seals intact on sample bottles? Is Chain of Custody complete? How was the sample delivered?	Yes Cour Yes	ler	No [] Not	Present	
nviewed By: 1/9/15 nain of Custody Custody seals intact on sample bottles? Is Chain of Custody complete? How was the sample delivered?	Yes Cour Yes	ler	No [] Not	Present	
Custody seals intact on sample bottles? Is Chain of Custody complete? How was the sample delivered?	Yes Cour Yes	ler	No [] Not	Present	
Custody seals intact on sample bottles? Is Chain of Custody complete? How was the sample delivered?	Yes Cour Yes	ler	No [] Not	Present	
Is Chain of Custody complete? How was the sample delivered?	Yes Cour Yes	ler	No [] Not	Present	
How was the sample delivered?	Yes	ler	No L			
og In	Yes Yes	V		١	NA 🗆	
	Yes			ı	NA □	
. Was an attempt made to cool the samples?	Yes			١	NA 🗆	
		V	georg			
Were all samples received at a temperature of >0° C to 6.0°C	W		No _		NA 🗆	
. Sample(s) in proper container(s)?	Tes	V	No []		
Sufficient sample volume for indicated test(s)?	Yes	×	No 🗆]		
Are samples (except VOA and ONG) properly preserved?	Yes	V	No .]		
. Was preservative added to bottles?	Yes		No W	1	NA 🗆	
). VOA vials have zero headspace?	Yes		No 🗆	No VC	OA Vials	
. Were any sample containers received broken?	Yes		No M		reserved	
		_	-	bottles	s checked	
Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	~	No L	forpH		r >12 unless noted
Are matrices correctly identified on Chain of Custody?	Yes	V	No 🗆] .	Adjusted?	The same state of
Is it clear what analyses were requested?	Yes	V	No 🗆]		
. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	V	No L] (Checked by:	
ecial Handling (if applicable)						
3. Was client notified of all discrepancies with this order?	Yes		No 🗆]	NA 🗹	
Person Notified: Date				-		ř.
By Whom: Via:	eMa	il 🔲	Phone Fa	x In P	erson	
Regarding:	-					
Client Instructions:				- Wester #43		3 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0
7. Additional remarks:						6
3. Cooler Information						
	eal Da	te	Signed By	1		

Chain-of-Custody Record			Turn-Around Standard Project Name	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com																
Bloomfield Nm 87413				Hargrove K#1F Project #:				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107												
Phone :	# 573	-215-	7433	1									naly	sis	Req	uest				
mail o	r Fax#: / Package:		Christensed ac will es Con □ Level 4 (Full Validation)		iger: Y chris	towsen	TMB'S (8021)	TPH (Gas only)	DRO / MRO)			SIMS)		,PO4,SO4,	2 PCB's					
Accreditation □ NELAP □ Other			Sampler: Morgon Killion On Ice: ZYes □ No Sample Temperature: 3, 2				표	3RO / D	418.1)	504.1)	or 8270	8	NO3,NO2	es / 808;		(AO			Î	
							+											9	0	
Date	(Type)	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MFBE	BTEX + MTBE	TPH 8015B (GRO /	TPH (Method 418.1)	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride		Air Bubbles (Y or N)
17/15	1.30	50:1	Hergrove KIF	1-402	Jec	-001	×		×							21		X		
7/15	1:40	Soil	Bottom comp.	1-402	Ict	-002_	×		×							1		X	+	
																Bernard Commission of the Comm				
		2											The second secon			The calling of the			+	
							+	H	\vdash		_			-		-	-		+	
	-		•				+-									\vdash			+	+
Date: 7/15 Date:	Time: 1327 Time: 1747	Relinquish Relinquish Relinquish	ed by. Grand by Caption Hot Walter	Received by: Received by:	Leib	Pate Time 1/1/15 1/527 Date Time 08 15 0700	Rer	nark	s:									3		



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

August 31, 2015

Kelsey Christiansen Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: (505) 632-4442

FAX

RE: Hargrave K-1F 809 Gathering Line Leak

OrderNo.: 1508B83

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/22/2015 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 qualifers 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1508B83

Date Reported: 8/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Hargrave K1-F 809 Gathering B

Project: Hargrave K-1F 809 Gathering Line Leak

Collection Date: 8/21/2015 1:30:00 PM

Lab ID: 1508B83-001

Matrix: SOIL

Received Date: 8/22/2015 8:30:00 AM

Analyses	Result	RL	Qual L	Inits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	8/27/2015 1:39:35 PM	21013
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/27/2015 1:05:15 PM	20981
Surr: DNOP	74.7	57.9-140	9	%REC	1	8/27/2015 1:05:15 PM	20981
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/26/2015 1:53:09 PM	20969
Surr: BFB	86.4	75.4-113	4	%REC	1	8/26/2015 1:53:09 PM	20969
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.048		mg/Kg	1	8/26/2015 1:53:09 PM	20969
Toluene	0.051	0.048	r	mg/Kg	1	8/26/2015 1:53:09 PM	20969
Ethylbenzene	ND	0.048	r	mg/Kg	1	8/26/2015 1:53:09 PM	20969
Xylenes, Total	0.11	0.096	r	mg/Kg	1	8/26/2015 1:53:09 PM	20969
Surr: 4-Bromofluorobenzene	101	80-120	9	%REC	1	8/26/2015 1:53:09 PM	20969

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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 Page 1 of 5
- Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1508B83

Date Reported: 8/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Hargrave K1-F 809 Gathering Si

Project: Hargrave K-1F 809 Gathering Line Leak

Collection Date: 8/21/2015 1:40:00 PM

Lab ID: 1508B83-002 Matrix: SOIL Received Date: 8/22/2015 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analysi	LGT
Chloride	ND	30		mg/Kg	20	8/27/2015 1:51:59 PM	21013
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	s				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/27/2015 2:09:26 PM	20981
Surr: DNOP	77.3	57.9-140		%REC	1	8/27/2015 2:09:26 PM	20981
EPA METHOD 8015D: GASOLINE R	RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	54	9.8		mg/Kg	2	8/26/2015 3:07:44 PM	20969
Surr: BFB	130	75.4-113	S	%REC	2	8/26/2015 3:07:44 PM	20969
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.098		mg/Kg	2	8/26/2015 3:07:44 PM	20969
Toluene	0.30	0.098		mg/Kg	2	8/26/2015 3:07:44 PM	20969
Ethylbenzene	0.17	0.098		mg/Kg	2	8/26/2015 3:07:44 PM	20969
Xylenes, Total	1.7	0.20		mg/Kg	2	8/26/2015 3:07:44 PM	20969
Surr: 4-Bromofluorobenzene	112	80-120		%REC	2	8/26/2015 3:07:44 PM	20969

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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
- Analyte detected below quantitation limits Page 2 of 5
- Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B83

31-Aug-15

Client:

Williams Field Services

Project:	Hargrave I	K-1F 809	Gather	ing Line Le	eak						
Sample ID	1508B83-001AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Hargrave K1-F 809	Batch	ID: 20	981	F	RunNo: 2	8499				
Prep Date:	8/26/2015	Analysis D	ate: 8/	27/2015	5	SeqNo: 8	61888	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	41	10	50.71	0	81.6	42.3	146			
Surr: DNOP		3.5		5.071		68.8	57.9	140			
Sample ID	1508B83-001AMSD	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Hargrave K1-F 809	Batch	ID: 20	981	F	RunNo: 2	8499				
Prep Date:	8/26/2015	Analysis D	ate: 8/	27/2015	8	SeqNo: 8	61889	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	44	9.8	49.02	0	89.9	42.3	146	6.39	28.9	
Surr: DNOP		3.5		4.902		71.8	57.9	140	0	0	
Sample ID	MB-20981	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 20	981	F	RunNo: 2	8501				
Prep Date:	8/26/2015	Analysis D	ate: 8/	27/2015	8	SeqNo: 8	62004	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
The second second	Organics (DRO)	ND	10								
Surr: DNOP		9.9		10.00		98.7	57.9	140			
Sample ID	LCS-20981	SampTy	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	Organics	
Client ID:	LCSS	Batch	ID: 20	981	F	RunNo: 2	8501				
Prep Date:	8/26/2015	Analysis Da	ate: 8/	27/2015	8	SeqNo: 8	62005	Units: mg/k	(g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	46	10	50.00	0	92.7	57.4	139			
Surr: DNOP		4.7		5.000		94.1	57.9	140			

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
- 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
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1508B83

31-Aug-15

Client:

Williams Field Services

Project:

Sample ID LCS-20969

Hargrave K-1F 809 Gathering Line Leak

SampType: LCS

Sample ID MB-20969	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 20	969	F	RunNo: 2	8483				
Prep Date: 8/25/2015	Analysis D	ate: 8/	26/2015	8	SeqNo: 8	60952	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	800		1000		79.9	75.4	113			

Client ID: LCSS	Batch	ID: 20	969	F	RunNo: 2	8483				
Prep Date: 8/25/2015	Analysis D	ate: 8/	26/2015	8	SeqNo: 8	60953	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	79.6	122			
Surr: BFB	920		1000		92.2	75.4	113			

TestCode: EPA Method 8015D: Gasoline Range

Sample ID 1508B83-001AM	Samp 1	ype: M	5	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: Hargrave K1-F 8	09 Batch	ID: 20	969	F	RunNo: 2	8483				
Prep Date: 8/25/2015	Analysis Da	ate: 8/	/26/2015	8	SeqNo: 8	60955	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	24.88	1.449	119	62.5	151			
Surr: BFB	950		995.0		95.3	75.4	113			

Sample ID	1508B83-001AMS	SampTy	pe: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Hargrave K1-F 809	Batch	ID: 20	969	F	RunNo: 2	8483				
Prep Date:	8/25/2015	Analysis Da	te: 8	/26/2015	8	SeqNo: 8	60956	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	31	4.8	23.99	1.449	122	62.5	151	1.43	22.1	
Surr: BFB		900		959.7		93.9	75.4	113	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1508B83

31-Aug-15

Client:

Williams Field Services

Project:

Hargrave K-1F 809 Gathering Line Leak

Sample ID MB-20969	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 20	969	F	RunNo: 2	8483				
Prep Date: 8/25/2015	Analysis D	ate: 8/	26/2015	8	SeqNo: 8	61082	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	80	120			

Sample ID LCS-20969	W 25.00	ype: LC					8021B: Vola	tiles		
Client ID: LCSS Prep Date: 8/25/2015	Analysis D	h ID: 20 9 Date: 8 /	969 26/2015		RunNo: 2 SeqNo: 8		Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.1	76.6	128			7.
Toluene	0.95	0.050	1.000	0	95.1	75	124			
Ethylbenzene	1.0	0.050	1.000	0	99.6	79.5	126			
Xylenes, Total	2.9	0.10	3.000	0	96.1	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Albuquerque, NM 87109 Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number	r: 1508B83		RcptNo:	1
Received by/date: A. 68/82/15		40	-	
Logged By: Ashley Gallegos 8/22/2015 8:30:00 AM	1	SAS		
Completed By: Ashley Gallegos 8/24/2015 5:50:12 PN	1	A		
Reviewed By: CS 08 25 15				
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
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 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
		No. 🗆	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14, is it clear what analyses were requested?	Yes 🔽	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹	
Person Notified: Date]
By Whom: Via:	eMail	Phone Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 1.9 Good Yes				

C	hain	-of-Cu	stody Record	Turn-Around	Time:			HALL ENVIRONMENTAL														
Client:	WFS			Standard	□ Rush																ORY	
				Project Name Havgran L: Ne Project #:	: /	2-0/	11 5															•
Mailing	Address			Hargrai	ic K-IF	8096	ctheng						.hall									
			CR 4900	Live	heal				490	01 H	awki	ns N	E -	Albu	uque	rque	e, NN	И 87	109			
Bloc	OMFR	19 1	vm 87413	Project #:					Τe	1. 50	5-34	5-39	75	F	ax 5	505-3	345-	4107	7			
Phone	#: 505	- 21ª	5-7433										Ar	naly	sis F	Requ	uest					
email o	r Fax#:	LISEY.	Christiansed @willias.	Project Mana	ger:			_	(yl	8					3							
	Package:							021	S OI	₹			<u>@</u>	1	N, S	PCB's						
□ Stan	dard		☐ Level 4 (Full Validation)	Kelser o	christian	ISCN		TMB's (8021)	(Ga	8			SIMS)		8	3	İ					
Accred	itation			Sampler:///6	ran Ki	11:00		₹	Ŧ	0	=	=	õ		Ş	8082				- 1		
□ NEL	AP	☐ Othe	er	Sampler:///d	X Yes	■ No		+	+	8	18.	8	82		3,	-		<u>₹</u>	_2			2
	(Type)	III. 12 - III.		Sample Tem	perature //.	9 - 30		HE HE	BE	9	4 b	90	ò	tals	ž	ide	2	9	6			ح
					2	100000		₹	ΤM	15B	etho	etp	331	Me	O.	stic	9	emi	ch borde		-	ses
Date	Time	Matrix	Sample Request ID	- Contraction of the Contraction	Preservative	HEAL	No.	+ ×	+ ×	80	Š	3	S (¥ 8	ns (Pe	9	S)	4		ł	da
				Type and #	Type	15088	Secretarily and	BTEX + M TBE	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	8260B (VOA)	8270 (Semi-VOA)	n		3	Air Bubbles (Y or N)
12/10	1336	Soil	Hargrave K-IF 809 gcthering Bottom Horgrove K-1-F 809, gcthering Side Well.	1-402	Cool		ומכ	X	ш	X		<u></u>	-	ш	4	8	- W	8	X	-	\top	+
bile	1336 1340		Horgeve K-1-F 209,	- 10.0x			02	X				\dashv	_	_						十		+
91/15	1340	56.	gothering side well	1-402	Con	- U	02	A		X	\rightarrow		\dashv	1			\dashv	\dashv	 	\dashv	+	+
											_	_	4	-		_			\rightarrow	_	_	+
		14																				
																\neg						_
											\dashv	_	_	\dashv		-	_		\dashv	+	+	+
								-			\dashv	-		+	\dashv			\dashv	\rightarrow		-	+
												_	_	_		\Box			_	_		1
														\neg								T
											\neg	_	7	7		\neg		\neg	\neg	$\neg +$	\top	+
Date:	Time:	Relinguish	ed by:	Received by:	L	Date	Time	Ren	nark	<u>, </u>												
2/15	MY	mi	Vineia	Varit	Ihak	8/21/1	1748	1														
Date:	Time:	Relinquish	ed by:	Received by:	Luce	Date	Time	ł														
1 1		140	1 1 1 2 1	1200	.111 -	0/22/-	0834															
11/18	1824	r /Vu	stulication	you. Or	Mary 0	0/24/15	00 10	L										-				
1	necessar/,	samples subr	mitted to Hall Environmental may be sub-	contracted to other a	credited laboratorie	es. This serves as	notice of this	possit	oility.	Any su	b-contr	acted	data w	od Ifiv	clearly	notat	ted on	the ar	nalytica	repor	t.	

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.

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

Release Notification and Corrective Action

Form C-141 Revised August 8, 2011

	OPERATOR	☐ Initial Report ☐ Final Report							
Name of Company: Williams Four Corners LLC	Contact: Matt Webre								
Address: 1755 Arroyo Drive, Bloomfield, NM 87413	Telephone No.: (505) 632-46								
Facility Name: Breech D 240 E Pipeline	Facility Type: Natural Gas G	athering Pipeline							
Surface Owner: Bureau of Land Management Mineral Owner	wner	API No.							
LOCA	TION OF RELEASE								
	North/South Line Feet from the	East/West Line County							
F 15 26N 6W		San Juan							
Latitude <u>36.490</u>	327°N Longitude <u>-107.457583°W</u>	L							
	URE OF RELEASE								
Type of Release: Natural Gas	Volume of Release: Approximately 62 MCF Natur Gas	Volume Recovered: 0 MCF							
Source of Release: Pinhole on the pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 11/25/15 at 02:30 PM MST							
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Req	If YES, To Whom?								
By Whom?	Date and Hour:								
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the	OIL CONS. DIV DIST. 3							
If a Watercourse was Impacted, Describe Fully.*									
Not Applicable		AUG 1 1 2016							
Describe Cause of Problem and Remedial Action Taken.*									
On November 25, 2015 Williams leak survey crew discovered a sus approximately 62 MCF natural gas. Repairs were safely made to the		40 E Pipeline which caused the release of							
Describe Area Affected and Cleanup Action Taken.*									
Confirmation soil samples were collected on January 18, 2016 and I concentrations above the closure standard (west sidewall). Addition demonstrated concentrations were below all closure standards.									
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain relepublic health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and renor the environment. In addition, NMOCD acceptance of a C-141 refederal, state, or local laws and/or regulations.	ease notifications and perform corrective by the NMOCD marked as "Final Representation that pose a threat port does not relieve the operator of research."	ve actions for releases which may endanger ort" does not relieve the operator of liability it to ground water, surface water, human health sponsibility for compliance with any other							
	OIL CONSI	ERVATION DIVISION							
76 2									
Signature	Approved by Environmental Specialist:								
Signature: Printed Name: Matt Webre									
Title: EH&S Supervisor	Approval Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Expiration Date:							
E-mail Address: matt.webre@williams.com	Conditions of Approval:	Attached							
Date; 8/8/2016 Phone: (505) 632-4442	NVF 1535738238								
Attach Additional Sheets If Necessary	101410001	20000							



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

January 26, 2016

Kelsey Christiansen Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: (505) 632-4442

FAX

RE: Breech D #240 E

OrderNo.: 1601619

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/19/2016 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 1601619

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/26/2016

CLIENT: Williams Field Services

Client Sample ID: Breech D 240 E Bottom Comp Si

Project: Breech D #240 E

Collection Date: 1/18/2016 2:15:00 PM

Lab ID: 1601619-001

Matrix: SOIL Received Date: 1/19/2016 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	1/20/2016 11:26:14 AM	23303
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	s				Analyst	TOM
Diesel Range Organics (DRO)	16	10		mg/Kg	1	1/20/2016 12:32:49 PM	23288
Surr: DNOP	128	70-130		%REC	1	1/20/2016 12:32:49 PM	23288
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	42	4.9		mg/Kg	1	1/21/2016 8:16:10 PM	23284
Surr: BFB	212	66.2-112	S	%REC	1	1/21/2016 8:16:10 PM	23284
EPA METHOD 8021B; VOLATILES						Analyst:	NSB
Benzene	0.053	0.049		mg/Kg	1	1/21/2016 8:16:10 PM	23284
Toluene	0.92	0.049		mg/Kg	1	1/21/2016 8:16:10 PM	23284
Ethylbenzene	0.25	0.049		mg/Kg	1	1/21/2016 8:16:10 PM	23284
Xylenes, Total	3.0	0.098		mg/Kg	1	1/21/2016 8:16:10 PM	23284
Surr: 4-Bromofluorobenzene	124	80-120	S	%REC	1	1/21/2016 8:16:10 PM	23284

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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Sample pH Not In Range P
- RL Reporting Detection Limit

Analytical Report Lab Order 1601619

Date Reported: 1/26/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech D 240 E North Wall

Project: Breech D#240 E

Collection Date: 1/18/2016 2:20:00 PM

Lab ID: 1601619-002

Received Date: 1/19/2016 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	1/20/2016 12:03:28 PM	23303
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S				Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/25/2016 9:26:29 AM	23288
Surr: DNOP	101	70-130		%REC	1	1/25/2016 9:26:29 AM	23288
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/20/2016 4:05:05 PM	23284
Surr: BFB	96.8	66.2-112		%REC	1	1/20/2016 4:05:05 PM	23284
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.047		mg/Kg	1	1/20/2016 4:05:05 PM	23284
Toluene	ND	0.047		mg/Kg	1	1/20/2016 4:05:05 PM	23284
Ethylbenzene	ND	0.047		mg/Kg	1	1/20/2016 4:05:05 PM	23284
Xylenes, Total	ND	0.094		mg/Kg	1	1/20/2016 4:05:05 PM	23284
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	1/20/2016 4:05:05 PM	23284

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
- 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 9
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1601619

Date Reported: 1/26/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech D 240 E South

Project: Breech D#240 E

Collection Date: 1/18/2016 2:25:00 PM

Lab ID: 1601619-003

Matrix: SOIL

Received Date: 1/19/2016 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	1/20/2016 12:15:53 PM	23303
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	s				Analyst:	TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2016 1:28:49 PM	23288
Surr: DNOP	138	70-130	S	%REC	1	1/20/2016 1:28:49 PM	23288
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/20/2016 4:28:41 PM	23284
Surr: BFB	99.5	66.2-112		%REC	1	1/20/2016 4:28:41 PM	23284
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.048		mg/Kg	1	1/20/2016 4:28:41 PM	23284
Toluene	ND	0.048		mg/Kg	1	1/20/2016 4:28:41 PM	23284
Ethylbenzene	ND	0.048		mg/Kg	1	1/20/2016 4:28:41 PM	23284
Xylenes, Total	ND	0.096		mg/Kg	1	1/20/2016 4:28:41 PM	23284
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	1/20/2016 4:28:41 PM	23284

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
- 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 E
- Analyte detected below quantitation limits Page 3 of 9
- Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1601619

Date Reported: 1/26/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech D 240 E East

Project: Breech D #240 E

Collection Date: 1/18/2016 2:30:00 PM

Lab ID: 1601619-004

Matrix: SOIL I

Received Date: 1/19/2016 7:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	1/20/2016 12:28:17 PM	23303
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/25/2016 9:54:20 AM	23288
Surr: DNOP	97.8	70-130	%REC	1	1/25/2016 9:54:20 AM	23288
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/21/2016 9:49:49 PM	23284
Surr: BFB	89.0	66.2-112	%REC	1	1/21/2016 9:49:49 PM	23284
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	1/21/2016 9:49:49 PM	23284
Toluene	ND	0.047	mg/Kg	1	1/21/2016 9:49:49 PM	23284
Ethylbenzene	ND	0.047	mg/Kg	1	1/21/2016 9:49:49 PM	23284
Xylenes, Total	ND	0.093	mg/Kg	1	1/21/2016 9:49:49 PM	23284
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	1/21/2016 9:49:49 PM	23284

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 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1601619

Date Reported: 1/26/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech D 240 E West

Project: Breech D #240 E

Collection Date: 1/18/2016 2:35:00 PM

1601619-005 Lab ID:

Matrix: SOIL

Received Date: 1/19/2016 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	ND	30		mg/Kg	20	1/20/2016 1:05:30 PM	23303
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	s				Analyst	TOM
Diesel Range Organics (DRO)	140	10		mg/Kg	1	1/20/2016 2:25:55 PM	23288
Surr: DNOP	71.6	70-130		%REC	1	1/20/2016 2:25:55 PM	23288
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	1/20/2016 9:11:10 PM	23284
Surr: BFB	610	66.2-112	S	%REC	5	1/20/2016 9:11:10 PM	23284
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.71	0.24		mg/Kg	5	1/20/2016 9:11:10 PM	23284
Toluene	25	2.4		mg/Kg	50	1/21/2016 10:13:07 PM	23284
Ethylbenzene	6.8	0.24		mg/Kg	5	1/20/2016 9:11:10 PM	23284
Xylenes, Total	59	4.8		mg/Kg	50	1/21/2016 10:13:07 PM	23284
Surr: 4-Bromofluorobenzene	158	80-120	S	%REC	5	1/20/2016 9:11:10 PM	23284

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
- % 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 5 of 9

- Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601619

26-Jan-16

Client:

Williams Field Services

Project:

Breech D #240 E

Sample ID MB-23303

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23303

RunNo: 31577

Prep Date: 1/20/2016

SeqNo: 966547

Analysis Date: 1/20/2016

Units: mg/Kg

Qual

Analyte Chloride

Result PQL ND 1.5 SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Sample ID LCS-23303

SampType: LCS

Client ID: LCSS Batch ID: 23303

RunNo: 31577

Prep Date: 1/20/2016

SegNo: 966548

Units: mg/Kg

Analyte

Analysis Date: 1/20/2016

%RPD **RPDLimit**

Qual

Chloride

PQL 14 1.5

15.00

94.2

TestCode: EPA Method 300.0: Anions

HighLimit 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

 \mathbf{B} Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 6 of 9

Sample pH Not In Range

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601619

26-Jan-16

Client:

Williams Field Services

Project:

Breech D #240 E

Sample ID MB-23288		Type: ME					8015M/D: Di	esel Rang	e Organics	
Client ID: PBS Prep Date: 1/19/2016	Analysis D	h ID: 23 Date: 1/	20/2016		RunNo: 3 SeqNo: 9		Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						10.0		
Surr: DNOP	12		10.00		123	70	130	-		
Sample ID LCS-23288	SampT	Гуре: LC	s	Tes	Code: El	PA Method	8015M/D: Di	esel Rang	e Organics	* 1,
Client ID: LCSS	Batch	h ID: 23:	288	R	unNo: 3	1544				

Campie ID LOG-20200	Gampi	ype. Le		100	toode. L	r A INIGUIOU	OUTSWIND. DI	esel Kally	e Organics		
Client ID: LCSS	Batch	ID: 23	288	F	RunNo: 3	1544					
Prep Date: 1/19/2016	Analysis D	ate: 1/	20/2016	5	SeqNo: 9	65700	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	,
Diesel Range Organics (DRO)	54	10	50.00	0	109	65.8	136				Т
Surr: DNOP	5.7		5.000		114	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
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601619 26-Jan-16

Client:

Williams Field Services

Project:

Breech D #240 E

		D#240 E									
Sample ID	MB-23284	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	je	
Client ID:	PBS	Batch	ID: 23	284	F	RunNo: 3	1539				
Prep Date:	1/19/2016	Analysis D	ate: 1/	20/2016	5	SeqNo: 9	66347	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		91.0	66.2	112			
Sample ID	LCS-23284	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	je	
Client ID:	LCSS	Batch	ID: 23	284	F	RunNo: 3	1539				
Prep Date:	1/19/2016	Analysis D	ate: 1/	20/2016	8	SeqNo: 9	66348	Units: mg/h	⟨ g		
Analyte		Result	PQL	TOTAL STATE OF THE PARTY.	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	5.0	25.00	0	101	79.6	122			
Surr: BFB		1000		1000		99.5	66.2	112			
Sample ID	MB-23316	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 23	316	F	RunNo: 3	1590				
Prep Date:	1/20/2016	Analysis D	ate: 1/	21/2016	8	SeqNo: 9	67276	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		910		1000		90.5	66.2	112			
Sample ID	LCS-23316	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batch	ID: 23	316	F	RunNo: 31	1590				
Prep Date:	1/20/2016	Analysis Da	ate: 1/	21/2016	S	SeqNo: 96	67277	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		101	66.2	112			
Sample ID	1601619-001AMS	SampTy	/pe: MS	1	Test	tCode: EF	A Method	8015D: Gaso	line Rang	е	
Client ID:	Breech D 240 E B	Bott Batch	ID: 232	284	R	RunNo: 31	1590				
	414010040	Analysis D		21/2016			27007	Units: mg/K	a		
Prep Date:	1/19/2016	Analysis Da	ate: 1/2	21/2010	0	SeqNo: 96	0/20/	Orino. High	3		
Prep Date: Analyte	1/19/2016	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	1/19/2016 e Organics (GRO)				-			-	-	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	-	RPDLimit	Qual
Analyte Gasoline Range Surr: BFB		Result 63 2100	PQL 4.9	SPK value 24.44 977.5	SPK Ref Val 42.36	%REC 84.5 219	LowLimit 59.3 66.2	HighLimit 143	%RPD		
Analyte Gasoline Range Surr: BFB Sample ID	e Organics (GRO)	Result 63 2100 D SampTy	PQL 4.9	SPK value 24.44 977.5	SPK Ref Val 42.36	%REC 84.5 219	LowLimit 59.3 66.2 PA Method	HighLimit 143 112	%RPD		
Analyte Gasoline Range Surr: BFB Sample ID Client ID:	e Organics (GRO) 1601619-001AMS Breech D 240 E B	Result 63 2100 D SampTy	PQL 4.9 /pe: MS	24.44 977.5 D	SPK Ref Val 42.36 Test	%REC 84.5 219 Code: EF	59.3 66.2 PA Method	HighLimit 143 112	%RPD		
Analyte Gasoline Range Surr: BFB Sample ID	e Organics (GRO) 1601619-001AMS Breech D 240 E B	Result 63 2100 D SampTy Bott Batch	PQL 4.9 vpe: MS ID: 232 ate: 1/2	SPK value 24.44 977.5 D 284 21/2016	SPK Ref Val 42.36 Test	%REC 84.5 219 Code: EF tunNo: 31 seqNo: 96	59.3 66.2 PA Method	HighLimit 143 112 8015D: Gaso	%RPD		
Analyte Gasoline Range Surr: BFB Sample ID Client ID: Prep Date: Analyte	e Organics (GRO) 1601619-001AMS Breech D 240 E B	Result 63 2100 D SampTy sott Batch Analysis Da	PQL 4.9 vpe: MS ID: 232 ate: 1/2	SPK value 24.44 977.5 D 284 21/2016	SPK Ref Val 42.36 Test R	%REC 84.5 219 Code: EF tunNo: 31 seqNo: 96	59.3 66.2 PA Method 1590	HighLimit 143 112 8015D: Gaso Units: mg/K	%RPD	0	S

- * 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 8 of 9

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

1.2

WO#:

Page 9 of 9

1601619

26-Jan-16

Client:

Williams Field Services

Project:

Breech D #240 E

Sample ID MB-23284	SampType:	MBLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch ID:	23284	F	RunNo: 3	1539				
Prep Date: 1/19/2016	Analysis Date:	1/20/2016		SeqNo: 9	66364	Units: mg/h	C g		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.05	0							
Toluene	ND 0.05	0							
Ethylbenzene	ND 0.05	0							
Xylenes, Total	ND 0.1	0							
Surr: 4-Bromofluorobenzene	1.1	1.000		107	80	120			
Sample ID LCS-23284	SampType: I	.cs	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID:	23284	F	RunNo: 3	1539				
Prep Date: 1/19/2016	Analysis Date:	1/20/2016	8	SeqNo: 9	66365	Units: mg/F	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99 0.05	0 1.000	0	99.1	80	120			
Toluene	1.0 0.05	0 1.000	0	102	80	120			
Ethylbenzene	1.1 0.05	0 1.000	0	105	80	120			
(ylenes, Total	3.2 0.1	3.000	0	107	80	120			

Sample ID MB-23316	SampType: MBLK	TestC	ode: EPA Method	8021B: Volatiles	3	
Client ID: PBS	Batch ID: 23316	Rui	No: 31590			
Prep Date: 1/20/2016	Analysis Date: 1/21/20	016 Se	No: 967296	Units: %REC		
Analyte	Result PQL SPI	Value SPK Ref Val	REC LowLimit	HighLimit %	RPD RPDLim	it Qual
Surr: 4-Bromofluorobenzene	1.1	1.000	107 80	120		10.00

Sample ID LCS-23316	SampType: LCS	TestCode:	EPA Method 8021B:	Volatiles		
Client ID: LCSS	Batch ID: 23316	RunNo:	31590			
Prep Date: 1/20/2016	Analysis Date: 1/21/2016	SeqNo:	967298 Units:	%REC		
Analyte	Result PQL SPK va	lue SPK Ref Val %REC	C LowLimit HighL	imit %RPD	RPDLimit	Qual
Curr A Bromoflyprohonnon	4.4 4	00 444	90	100		

Surr: 4-Bromofluorobenzene 1.1 1.000 111 80 120

1.000

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

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

ample pH Not In Pance

120

P Sample pH Not In Range

RL Reporting Detection Limit



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	: 1601619		RcptNo:	1
Received by/date: 01 19 16				
Logged By: Lindsay Mangin 1/19/2016 7:45:00 AM	1	of yelligo		
Completed By: Lindsay Mangin 1/19/2016 8:59:45 AM		A HALLO		
Reviewed By:		000		
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
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 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	6,	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆	_	
9. Was preservative added to bottles?	Yes	No 🗸	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Viais	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
		w. 🗆	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH:(<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🔲	Adjusted?	-
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)				
	Yes	No 🗆	NA 🗹	
16. Was client notified of all discrepancies with this order?	res 🗆	NO 🗆	NA E	1.
Person Notified: Date				
By Whom: Via:	eMail	Phone Fax	☐ In Person	
Regarding: Client Instructions:		-		
17. Additional remarks:				J
				×
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 2.3 Good Yes	Seal Date	Signed By		

			stody Record	Turn-Around	l ime:								=	M	TE	20	NI IN	A E	NIT	AL	
ient:	NFS	S		Standard	□ Rush		-	232												RY	
				Project Name	10#	240 F				===		v.hal			2	5 500	355				
ailing	Address	188	CR 4900	prese				490	01 H			VE -						109			
31	oom	Fiel	12 NM 874/3	Project #:			1			5-34						345-					
none :	#: 50.	5-215	7-7433									and the same of the same of				uest	-				
			- Christiansca @will,	Project Mana	ger:		=	nly)	\$					(†0				\neg		\top	
VQC I Stan	Package: dard		Level 4 (Full Validation)	Kelsey	chris	stiansen	's (8021)	(Gas only)	DRO / MRG			SIMS)		PO4,S	2 PCB's						
	tation			Sampler: M	organ K	Cillion	J ∰	TPH	-	=	7	270		NO	808						Î
NEL		□ Othe	r	On Ice:	X Yes	E No ≕	Ţ	+	(GRO	418	504	or 8,	SIS	S	es/		(A)	2			٥
Date	(Type) _	Matrix	Sample Request ID		Preservative Type	3 HEALING:	BTEX + MTBE	BTEX + MTBE	TPH 8015B (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	8260B (VOA)	8270 (Semi-VOA)	Chlorida	H		Air Bubbles (Y or N)
8/16	1415	5011	Breech D240 F.	1-402	TCC	-601	X		X									X			T
116		1	Breach P240 E	1-402	11	-002	X		X									X			
7/16	1.10		Breech P 248 E	1-402	1	-003	X		X									X			
2/16	1430	5011	Bresch D240 E	1-402		-004	X		X									X			
8/16	1435	Soil	Brech #240E	1-402	1/	-005	X		X				-					X	\dashv	-	+
																				\mp	+
														_		F				\perp	+
							+-	+						\vdash	-	\vdash			\neg	+	+
							+					1		\vdash	1					\top	\top
ate: 8//6 ate:	Time: 1720 Time:	Relinquish	y Lellion	Received by: Date Time 18 L 172 G Received by: Date Time			Rei	mark	s:			J									
1/4 1943 Christ Week				Dat. apr 0/19/16 0745																	
	r necessary,	samples sub	mitted to Hall Environmental may be subo	contracted to other a	ccredited laborator	les. This serves as notice of th	is poss	ibility.	Any s	ub-cor	itracte	ed data	will b	e clea	rly not	ated o	n the a	nalytic	al repo	rt.	



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

OrderNo.: 1602033

to be said by the statements.

February 04, 2016

Kelsey Christiansen
Williams Field Services
188 Co. Rd 4900
Bloomfield, New Mexico 87413
TEL:
FAX

RE: Breech D240E West Wall 002

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/2/2016 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

As a second to the second

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1602033

Date Reported: 2/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Breech D240 E West Wall 002

Project: Breech D240E West Wall 002

Collection Date: 2/1/2016 10:20:00 AM

Lab ID: 1602033-001

Matrix: SOIL R

Received Date: 2/2/2016 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	2/3/2016 8:21:18 PM	23569
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	s				Analyst	KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/3/2016 11:27:25 AM	23511
Surr: DNOP	106	70-130		%Rec	1	2/3/2016 11:27:25 AM	23511
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	21	4.8		mg/Kg	1	2/3/2016 12:30:47 PM	23523
Surr: BFB	142	66.2-112	S	%Rec	1	2/3/2016 12:30:47 PM	23523
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.048		mg/Kg	1	2/3/2016 12:30:47 PM	23523
Toluene	0.054	0.048		mg/Kg	1	2/3/2016 12:30:47 PM	23523
Ethylbenzene	0.092	0.048		mg/Kg	1	2/3/2016 12:30:47 PM	23523
Xylenes, Total	0.76	0.097		mg/Kg	1	2/3/2016 12:30:47 PM	23523
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	2/3/2016 12:30:47 PM	23523

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 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602033

04-Feb-16

Client:

Williams Field Services

Project:

Breech D240E West Wall 002

Sample ID MB-23569

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 23569

RunNo: 31901

Prep Date: 2/3/2016

Analysis Date: 2/3/2016

SeqNo: 976133

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit Qual

Chloride

ND

PQL 1.5

TestCode: EPA Method 300.0: Anions

Sample ID LCS-23569

Client ID: LCSS

SampType: LCS Batch ID: 23569

RunNo: 31901

Units: mg/Kg

Prep Date: 2/3/2016

Analysis Date: 2/3/2016

SeqNo: 976134

Analyte

HighLimit

RPDLimit Qual

Chloride

%RPD 110

PQL SPK value SPK Ref Val %REC LowLimit 93.7 1.5 15.00 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

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

J Analyte detected below quantitation limits Page 2 of 5

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

RPDLimit

RPDLimit

1602033

04-Feb-16

Qual

Qual

Qual

Qual

Client:

Williams Field Services

Project:

Breech D240E West Wall 002

Sample ID	MB-23551
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 31874

Prep Date: 2/3/2016

Analysis Date: 2/3/2016

Batch ID: 23551

SegNo: 975374

Units: %Rec

HighLimit

Analyte Sur: DNOP

PQL Result SPK value SPK Ref Val %REC 9.8

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

LowLimit

Client ID: LCSS

Sample ID LCS-23551

SampType: LCS Batch ID: 23551

RunNo: 31874

Prep Date: 2/3/2016

Analysis Date: 2/3/2016

SeqNo: 975375

Units: %Rec

Analyte SPK value SPK Ref Val %REC HighLimit %RPD Surr: DNOP 4.8 5.000 95.3 130

10.00

Sample ID MB-23511 Client ID: PBS

SampType: MBLK

RunNo: 31874

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

%RPD

Batch ID: 23511 Analysis Date: 2/3/2016

SeqNo: 975961

Units: mg/Kg

Prep Date: 2/1/2016 SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit**

Diesel Range Organics (DRO) ND 10 Surr: DNOP 10

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

130

%RPD

Sample ID LCS-23511 Client ID: LCSS

SampType: LCS Batch ID: 23511

RunNo: 31874

70

Prep Date: 2/1/2016

Analysis Date: 2/3/2016

SegNo: 975962

Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit Diesel Range Organics (DRO) 57 10 50.00 136 Surr: DNOP 6.0 5.000 120 70 130

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Page 3 of 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602033

04-Feb-16

Client:

Williams Field Services

Project:

Breech D240E West Wall 002

Result

Result

25

990

ND

890

Sample ID MB-23523

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Surr: BFB

Batch ID: 23523

RunNo: 31884

Prep Date: 2/2/2016

Analysis Date: 2/3/2016

SeqNo: 975769

Units: mg/Kg

%RPD

%RPD

%RPD

%RPD

31.8

0

Analyte Gasoline Range Organics (GRO)

PQL SPK value SPK Ref Val %REC 5.0

1000

1000

23.67

947.0

23.28

931.1

LowLimit

66.2

HighLimit

RPDLimit

Qual

SampType: LCS

89.4 TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-23523 Client ID: LCSS

RunNo: 31884

Batch ID: 23523

Analyte

Prep Date: 2/2/2016

Analysis Date: 2/3/2016

SeqNo: 975770

Units: mg/Kg

112

Gasoline Range Organics (GRO)

PQL 5.0

SPK value SPK Ref Val 25.00 0

%REC LowLimit 98.4 99 5

79.6 66.2

HighLimit 122

112

RPDLimit

Qual

Surr: BFB

Sample ID 1602033-001AMS2

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Breech D240 E Wes

Batch ID: 23523

PQL

RunNo: 31884

LowLimit

59.3

66.2

Prep Date: Analyte

2/2/2016

Gasoline Range Organics (GRO)

Gasoline Range Organics (GRO)

Analysis Date: 2/3/2016

4.7

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

21.21

21.21

SeqNo: 975775

80.5

155

Units: mg/Kg HighLimit

143

112

RPDLimit Qual

S

Surr: BFB

Sample ID 1602033-001AMSD2 SampType: MSD Breech D240 E Wes

Batch ID: 23523

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 31884

LowLimit

59.3

66.2

Client ID: Prep Date: 2/2/2016

Result

55

1700

Result

40

1500

147

184

Analyte

Sur: BFB

Analysis Date: 2/3/2016

PQL

4.7

SegNo: 975776

Units: mg/Kg **HighLimit**

143

112

RPDLimit Qual

20 RS 0 S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Ē Value above quantitation range
- Analyte detected below quantitation limits J
- Page 4 of 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602033

04-Feb-16

Client:

Williams Field Services

Project:

Sample ID LCS-23523

Breech D240E West Wall 002

SampType: LCS

Sample ID MB-23523	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	ID: 23	523	F	RunNo: 3	1884				
Prep Date: 2/2/2016	Analysis D	ate: 2/	3/2016	8	SeqNo: 9	75781	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

TestCode: EPA Method 8021B: Volatiles

The second secon													
Client ID: LCSS	Batcl	h ID: 23	523	F									
Prep Date: 2/2/2016	Analysis D)ate: 2/	3/2016	8	SeqNo: 9	75782	Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.0	0.050	1.000	0	102	80	120						
Toluene	1.0	0.050	1.000	0	105	80	120						
Ethylbenzene	1.1	0.050	1.000	0	106	80	120						
Kylenes, Total	3.2	0.10	3.000	0	108	80	120						
Surr: 4-Bromofluorobenzene	1.2		1.000		120	80	120						

Sample ID 1602033-001AMS	Samp Type:	MS	les	tCode: E	PA Method	8021B: Vola	illes		
Client ID: Breech D240 E W	es Batch ID:	23523	F	RunNo: 3	1884				
Prep Date: 2/2/2016	Analysis Date:	2/3/2016	8	SeqNo: 9	75784	Units: mg/K	g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2 0.0	0.9970	0.02254	116	71.5	122			
Toluene	1.3 0.0	0.9970	0.05400	123	71.2	123			
Ethylbenzene	1.3 0.0	0.9970	0.09217	123	75.2	130			
Xylenes, Total	4.5 0	.10 2.991	0.7550	126	72.4	131			
Surr: 4-Bromofluorobenzene	1.3	0.9970		129	80	120			S

Sample ID 1602033-001AM	SD Samp1	ype: MS	SD	Tes						
Client ID: Breech D240 E	Wes Batch	n ID: 23	523	F						
Prep Date: 2/2/2016	Analysis D)ate: 2/	3/2016	8	SeqNo: 9	75785	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9843	0.02254	104	71.5	122	11.8	20	
Toluene	1.1	0.049	0.9843	0.05400	102	71.2	123	18.5	20	
Ethylbenzene	1.1	0.049	0.9843	0.09217	103	75.2	130	18.1	20	
Xylenes, Total	3.6	0.098	2.953	0.7550	98.0	72.4	131	21.2	20	R
Surr: 4-Bromofluorobenzene	1.1		0.9843		116	80	120	0	0	

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 5

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	WILLIAMS FIELD SERVI	Work Order Number	1602	033			RcptNo:	1
Received by/da	te:							
Logged By:	Anne Thorne	2/2/2016 7:10:00 AM			an	AL	_	
Completed By:	Anne Thorne	2/2/2016 \			an	1	_	
Reviewed By:	1	morlin			,		_	
Chain of Cus	stody	024.23						
1. Custody sea	als intact on sample bottles?		Yes		No		Not Present	
2. Is Chain of C	Custody complete?		Yes	4	No		Not Present	
3. How was the	e sample delivered?		Cou	rier				
Log In								
4. Was an atte	empt made to cool the sample	s?	Yes	V	No		NA 🗔	
5. Were all san	mples received at a temperatu	re of >0° C to 6.0°C	Yes	V	No		NA 🗆	
6. Sample(s) in	n proper container(s)?		Yes	V	No			
7. Sufficient sa	mple volume for indicated tes	it(s)?	Yes	V	No			
8. Are samples	(except VOA and ONG) prop	erly preserved?	Yes	V	No			
Was preserv	vative added to bottles?		Yes		No	V	NA 🗆	
10. VOA vials ha	ave zero headspace?		Yes		No		No VOA Vials	
11. Were any sa	ample containers received bro	oken?	Yes		No	V	# of preserved	
12. Does papery	vork match bottle labels?		Yes	V	No		bottles checked for pH:	
	pancies on chain of custody)							or >12 unless noted)
13. Are matrices	correctly identified on Chain	of Custody?	Yes	V	No		Adjusted?	
11, 3101	at analyses were requested?		Yes	V	No		:	
and the second s	ding times able to be met? customer for authorization.)		Yes	V	No		Checked by:	
Special Hand	ling (if applicable)							
	otified of all discrepancies with	h this order?	Yes		No		NA 🗹	
	Notified:	Date	227070					1
By Who		Via:	eMa	ii 🗆	Phone	Fay	In Person	
Regard		VIQ.	_ CIVIC		r none	I UA		
	nstructions:					11700		!
17. Additional re	emarks:							-
18. Cooler Infor	rmation							
Cooler No		Seal Intact Seal No S	eal Da	ite	Signed E	Ву		
1	1.0 Good Y	es						
			_ 107 - 2					

C	Chain-of-Custody Record			Turn-Around	Time:	LOS V.							=					A E	NT	- 4 1	
ient:	WFS	5		Standard	Rush	per war.	0:	10/4											ATC		
		-		Project Name		= 1	\sim							ironr							250
ailing	Address	: /88	CR 4900	west	10240 B	00/31		490)1 H									7109			
Blo	omi	Field	NM 87413	Project #:	00-11		١.			5-34				ax							
			5-7433	1				Analysis Request													
			. Christiansen ovillians	Project Mana	ger:		0	(ylu	·Q					04)							
	Package:		(0,				021	SOI	₹		-	6		4,8(B's						
Stan	dard		☐ Level 4 (Full Validation)	Kelso	- Chris	stianson	8) 8,	(Ga	8			NIS		PO,	2 PC						
	tation			Sampler: Ma	rgan Kil	11:00	TMB's (8021)	PH	0	=	=	70		NO2	808			,			2
NEL		□ Othe	er	On Ice:	Yes	□ No	+	Ŧ	8	418	504	r 82	S	o	18		(A)	1			5
EDD	(Type)			Sample Tem	perature:	1.6-	開	18	3 (G	po	po	100	eta	N,	cide	3	-i	1,6			2
Date				Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride			Air Bubbles (Y or N)
116	10.20	501	Breech Dage E West Wall ood	1-402				<u>B</u>	7	,_	ш	OL.	IL.	- A	- 00	80	- 80	-	-	+	4
16	1000	30/1	West Wall out	1-402		-601		-				-				_			\vdash	-	+
							-		_			_		_			_		\vdash	-	\dashv
														_			_			-	+
							\vdash							_		_				_	
																				_	
							_									L					
								<u></u>													
/16	Time: [240]	Relinquish	ed by:	Received by:	Lall	2/1/6 1240	Rei	mark	s:												
ate: Time: Relinquished by:				Received by:	m It	Date Time 02/02/16 07/0			*												
7	f nananana	complete sub	mitted to Hall Environmental may be sub	contracted to other	condited laboratori	es. This serves as notice of th	ie noce	ibilibe	Amue	uh con	tracta	d data	sadiff to	a alaa	the not	atad a			anl san	- m	

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 Initial Report Final Report											
						OPERAT			☐ Initia	al Report	\boxtimes	Final Report
Name of Co		illiams Four				Contact	Michael Hann					
Address 1 Facility Nan				M 8/413			lo. 505-632-48 e Compressor			7.3		
				ent Mineral O		, , , , , , , , , , , , , , , , , , ,			API No			
Surface Ow	ner Burea	u of Land M	ianageme						APINO			
Y Y	0	m 1:	l n			OF REI		F	V T	G		
Unit Letter M	Section 1	Township 30N	Range 9W	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	San Juan	S. DI	DIST. 3
				7,000		Longitude	107.49144° W	<u></u>		00	112	2016
Type of Relea	ase Natura	ıl Gas		NAI	UKE		Release 1,640 M	1CF	Volume F	Recovered 0		
Source of Rel			Vent			Date and H	our of Occurrence		Date and	Hour of Disc	covery	
Was Immedia	te Notice (Given?				09/26/16, 1 If YES, To	0:26 PM MDT Whom?		09/26/16,	08:30 AM N	ADT_	
			Yes [No Not Re	quired	Cory Smith Katherina I	(NMOCD) Diemer (BLM)					
By Whom? M	fichael Har	nan					our: NMOCD 09 e mail & email)	/27/16 3	3:56 PM M	DT; BLM 09	0/27/16	4:03 PM
Was a Watero	course Read		Yes 🛛	No			lume Impacting t	he Wate	ercourse.			
If a Watercou	ree was Im											
Not Applicab	le		•									
Describe Cau				n Taken.* r pressure regulate	e vant v	one observed	to be venting. The	a cuatio	n comphor	loval control	volvo v	was stuck in
				let pressure to be								
3 phase separa	ator vessel.	The venting	was stoppe	ed at 8:30 AM.			-					
				open position when								
				se as designed, al					anieu. Once	the fiquid is	over wa	s property
				163 MSCFH = 1.								
adjusting the				scovery of the eve	nt, thus	minimizing ti	ne duration. Oper	ations p	ersonnel in	nmediately re	espond	ed by
Describe Area										Wes		
No clean-up r	required for	natural gas re	eleases ver	nted to atmosphere								
I hereby certif	fy that the i	information gi	iven above	is true and compl	ete to th	e best of my	knowledge and u	nderstar	nd that purs	uant to NMC	OCD ru	les and
regulations al	l operators	are required to	o report ar	nd/or file certain re	elease no	otifications ar	d perform correc	tive acti	ons for rele	eases which	may en	danger
				e of a C-141 repo investigate and re								
or the environ	ment. In a	ddition, NMC	OCD accep	tance of a C-141								
federal, state,	or local lav	ws and/or regu	ılations.				OH COM	CEDI	ATTON	DIMIGIO	NT.	
111							OIL CON	SEKV	ATION	DIVISIO	1 PA	
Signature:									1	1		
Printed Name	: Michael	Hannan		2	Approved by Environmental Specialist:							
Title: Engine	er, Sr.				1	Approval Dat	:10 26 2c	NO 1	Expiration l	Date:		
E-mail Addre	ss: michae	l.hannan@wi	lliams.con	1	(Conditions of				Attached		
Date: 10/3/16			P	hone: 505-632-486	07	MAFI	63003	339	O			

* Attach Additional Sheets If Necessary



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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

		OPERA	ГOR	\boxtimes	Initial	Report	\boxtimes	Final R	teport	
Name of Company: Williams Four Corners		Contact: Mi	A CONTRACTOR OF THE PARTY OF TH							
Address: Arroyo 1755 Arroyo Drive, Bloom	field, NM 87413		No.: (505) 632-47							
Facility Name: Chaco Compressor Station		Facility Typ	e: Compressor S	tation			0	40		
Surface Owner: BLM	Mineral Owner			A	PI No.					
	LOCATIO	NOFDE	FACE							
Unit Letter Section Township Range		h/South Line	Feet from the	East/West	Line	County		-		
N 27 29N 11W	Teet nom the	iii oouiii ziiio	1 cot nom the	Lubb II est		San Juan				
L	atitude <u>36.690708° 1</u>	Longitud	e -107.978413° V	V						
		OF RELI								
Type of Release: Produced Water/Natural Gas		Volume of	Release: 29 BBL vater/6.37 MCF na	tural gas		e Recovered ed water	1: 28 B	BL of		
Source of Release: Separator sight glass			our of Occurrence			nd Hour of I	Discov	ery:		
		Estimated MST	09/30/2016 at 8:45			ted 09/30/20			1	
Was Immediate Notice Given? ☐ Yes ☐	No Not Required	If YES, To	Whom? Vanessa							
By Whom? Mike Hannan		Date and H	our: 09/30/2016 ~	12:51 pm N	AST			2 2 2	2007	
Was a Watercourse Reached? ☐ Yes ☑	N-		lume Impacting th	e Watercou	irse.					
	No	Not Applic	able							
If a Watercourse was Impacted, Describe Fully.*				(OIL CO	ONS. DIV	DIS	1. 3		
Not Applicable						OCT 1 3 2016				
A release from a separator sight glass o-ring was immediately upon discovery. It's estimated that a hours, 45 minutes. The produced water release was a separator sight glass o-ring was immediately upon discovery.	approximately 29 barrel	ls of produced	water and 6.37 MC	CF of natura	al gas wa				f3	
Describe Area Affected and Cleanup Action Take	en.*									
An estimated 28 barrels of produced water was re	covered/removed by a	water hauling	company.							
I hereby certify that the information given above regulations all operators are required to report and public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accept federal, state, or local laws and/or regulations.	d/or file certain release of a C-141 report by the contract of a C-141 report by the contract of a contract of the contract o	notifications ar he NMOCD m te contaminati	nd perform correcti arked as "Final Re on that pose a threa e the operator of re	ive actions to port" does not to ground esponsibility	for relea not relie I water, y for con	ases which reve the opera surface wat mpliance w	may en ator of ter, hur ith any	danger liability man healt	th	
			OIL CONS	ERVAT	ION I	DIVISIO	N			
Signature: Model Mone		Approved by	Environme ntal Sp	ecialist:						
Printed Name: Mitch Morris		-	10m	7	-	_				
Title: Environmental Specialist		Approval Dat	e: 10 26 201	Expiration Date:						
E-mail Address: Mitch.Morris@Williams.com Date: 10/07/2016 Phone: (505)	632-4708	Conditions of	Approval:	4993)	Attached			T.	
Attach Additional Sheets If Necessary										