3R-1014

Release Report/ General Correspondence

Williams RA

Date: Oct-Dec 2016

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

Release Notificat	ion	and Co	rrective A	ction							
	(OPERAT	ГOR			al Report	□ F	Final Report			
Name of Company Williams Four Corners LLC	_	ontact	Mitch Morris								
Address 1755 Arroyo Drive			No. 505-632-47	08							
Facility Name Trunk R Pipeline	F	acility Typ	e Pipeline								
Surface Owner BLM Mineral Own	er				API No).					
LOCAT	ION	OF REI	LEASE								
Unit Letter Section Township Range 6W Feet from the No.	orth/S	outh Line	Feet from the	East/V	Vest Line	County Rio Arriba					
Latitude 36.51343				V							
Type of Release Natural Gas	KE (Release Estimate	ed at	Volume R	Recovered 0	MCF				
Source of Release Pinhole leak in pipeline	_	4071.9 MC	F our of Occurrence		Date and	Hour of Disco	WATV				
Source of Release Fillifole leak in pipelific			, 9:45 AM MST			16, 9:45 PM M					
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Requi	red	If YES, To Telephone	Whom? Cory Sm	nith via	Telephone,	Whitney Tho	mas vi	a			
By Whom? Mitch Morris											
By Whom? Mitch Morris Date and Hour 10/12/2016 ~2:15 pm If YES, Volume Impacting the Watercourse. Not Applicable OIL CONS. DIV DIST. 3											
If a Watercourse was Impacted, Describe Fully.*					-07 4 8	2016					
Not Applicable					OCT 17	2010					
Describe Cause of Problem and Remedial Action Taken.* A routine leak survey crew identified a leak on the Trunk R pipeline of The pipeline has been excavated and repaired, external corrosion was					ted and de-	pressurized, s	topping	g the leak.			
Describe Area Affected and Cleanup Action Taken.*											
The pipeline has been excavated and repaired. Cleanup efforts are be	ing ev	aluated, as l	nistoric impacts to	soil ha	ve been en	countered.					
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report be should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	se not by the lediate	tifications ar NMOCD ma contamination	nd perform correct arked as "Final Report that pose a three the operator of r	tive acti eport" d eat to greesponsi	ons for rele oes not reli ound water bility for co	eases which noieve the opera c, surface wate compliance with	nay end tor of li er, hum: h any o	anger iability an health			
			OIL CONS	SERV	ATION	DIVISION	1				
Mitch Morris Signature: Printed Name: Mitch Morris	A	pproved by	Environmental Sp	pecialist	(X		<u></u>				
	A	pproval Dat	111712	110	Expiration 1	Dota					
Title: Environmental Specialist E-mail Address: Mitch.Morris@williams.com		onditions of	11/00	1W 1	Expiration						
Date: 10/12/2016 Phone: 505-632-4708	1	Masi	162865	232	0	Attached					

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

* Attach Additional Sheets If Necessary

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		Initia	al Report		Final Report
		illiams Four	Corners	LLC		Contact	Mitch Morris					
Address Facility Nar	1755 Arro						No. 505-632-47 be Pipeline	08				
						racility Typ	e ripeille					
Surface Ow	ner Jicari	lla Apache N	lation	Mineral C)wner				API No).		
				LOCA	ATION	OF RE	LEASE					
Unit Letter M	Section 1	Township 26N	Range 5W	Feet from the	North/S	South Line	Feet from the	East/V	Vest Line	County Rio Arrib	a	
				Latitude 36.50		Longitud		V				
Type of Rele	ase Natura	al Gas			CILL		Release Estimat	ed at	Volume I	Recovered	Estimate	ed at 0 MCF
		ole leak in pip	eline			09/27/2016	lour of Occurrence, 2:30 PM MST		09/27/201	Hour of Dis 16, 2:30 PM		
Was Immedi	ate Notice (Yes	No Not Re	equired	If YES, To	Whom? Vanessa	Fields	via Telepho	one		
By Whom?							lour 10/07/2016 ~					
Was a Water	course Read		Yes 🗵	No		Not Applic	olume Impacting t able	the Wate	ercourse.			
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	k				C	IL CONS	S. DIV DI	ST. 3	
Not Applicat		em and Reme	dial Astio	n Takan *					OCT	1 0 204		
Describe Cat	ise of Probl	em and Keme	diai Actio	ii Takeii.					UCI	1 3 2016)	
A routine lea	k survey cr	ew identified a	a leak on t	he Jicarilla 150 #	1 pipelin	e. The line v	vas immediately i	solated	and de-pres	ssurized, sto	pping th	ne leak.
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*								
The pipeline	has been re	paired. This v	vas expos	ed pipe with no in	npact to s	soil.						
regulations a public health should their or or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The lave failed to a	o report ar acceptant adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 repo investigate and r otance of a C-141	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a three the operator of	etive active eport" de eat to grand responsi	ons for release not release not release to the count water bility for contract to the country for coun	eases which ieve the ope r, surface wo ompliance v	may en rator of ater, hur with any	danger liability nan health
		/					OIL CON	SERV	ATION	DIVISIO	<u>NC</u>	
Mitch Morr Signature:			and o			Approvedby	Environmental S	peoialis				
Title: Enviro					1	Approval Dat	e: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10/	Expiration	Date:		
		Morris@willia	ams.com			Conditions of	11110					
	10/07/2016			hone: 505-632-47			Le322.28	319		Attached		

District I
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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	ctio	n			
						OPERA	ГOR			al Report	П	Final Report
		illiams Four	Corners	LLC		Contact	Mitch Morris					
	1755 Arroy	o Drive a Lateral D-2	2			Telephone I Facility Typ	No. 505-632-47	08				
						racility Typ	e Pipeline					
Surface Ow	ner Jicaril	la Apache N	ation	Mineral C)wner				API No			
				LOCA	TION	OF RE	LEASE					
Unit Letter A	Section 12	Township 26N	Range 5W	Feet from the	North/	South Line	Feet from the	East	West Line	County Rio Arriba		
				Latitude 36.50				<u>V</u>				
Type of Rele	ase Natura	1 Gas		NAI	UKE	Volume of	Release Estimate	ed at	Volume F	Recovered Es	stimated	d at 0 MCF
						923.6 MCI	7					
Source of Re	elease Pinho	le leak in pipe	eline				our of Occurrence, 2:30 PM MST	e		Hour of Disc 6, 2:30 PM		
Was Immedi	ate Notice C		Yes [No Not Re	equired		Whom? Cory Sm	nith via		0, 2.30 I WI	VIST	
By Whom?							lour 10/06/2016 ~					
Was a Water	course Reac		Yes 🛛] No		If YES, Vo	lume Impacting that able	he Wa	tercourse.	. DIV DIS	T. 3	
Not Applicate Describe Cau	ole use of Proble	em and Remedew identified a	dial Action		l D-2 pi	peline. The p	ipeline was isolat	ted and		1 3 2016 zed, stopping	the lea	k.
Describe Are The pipeline		and Cleanup A	Action Tak	cen.*								
I hereby certifications a public health should their corthe environments.	ify that the in all operators or the environment. In a	nformation gi are required to conment. The ave failed to a	report ar acceptance dequately CD accep	is true and compad/or file certain rece of a C-141 report investigate and retained of a C-141	elease no ort by the emediate	otifications are NMOCD m contaminati	nd perform correct arked as "Final Re on that pose a thre	tive ac eport" eat to g	tions for rele does not reli ground water	eases which reve the opera , surface wat	nay end ator of l er, hum	langer iability aan health
		/					OIL CONS	SER	VATION	DIVISIO	N	
Mitch Morr Signature:						Approved by	Environmental Sp	peciati	st:	_		
Title: Enviro						Approval Dat	e: 1/1/1/12/01	6	Expiration 1	Date:		
E-mail Addre	ess: Mitch.N	Morris@willia	ms.com			Conditions of		0 :	5	Attached		
	10/07/2016	ets If Necess		hone: 505-632-47	08	MALI	6322418	181	5			

OIL CONS. DIV DIST. 3

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 SEP **29** 2016 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	ΓOR		🔼 Initia	al Report	\boxtimes	Final Report
Name of Co						Contact	Kijun Hong					
		<u> </u>	loomfiel	d, NM 87413			No. 505-632-44	75				
Facility Nar	ne Latera	al M-4				Facility Typ	e Pipeline	0.10				
Surface Ow	ner Fores	t Service		Mineral C	wner				API No			
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
M	3	30N	4W							Rio Arrib	a	
				Latitude	36.835	Longitude	-107.2484					
				NAT	URE	OF REL						
Type of Rele	ase Natur	al Gas				Volume of 376 MCF	Release natural gas;		Volume I	Recovered 0		
Source of Re	lease Pipel	line Strike					lour of Occurrence	ce		Hour of Disc		
Was Immedia	ate Notice (If YES, To	1:00 PM MST Whom?		9/14/2010	5, 1:00 PM N	151	A -
			Yes	No Not Re	equired							
By Whom? Was a Water	oource Deed	shad?				Date and H	lour olume Impacting t	the Wate	rcourse			
was a water	course Read		Yes 🗵	No		II 1ES, VC	nume impacting t	ine wate	arcourse.			
If a Watercou												
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*								
	o fire, and			oad when they s y response. The								
Describe Are	a Affected	and Cleanup	Action Tal	cen.*								
The damage	d line has l	oeen repaired	l. No impa	acts.								
regulations al public health should their of	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a addition, NMC	o report and acceptant adequately OCD accept	e is true and comp nd/or file certain r ce of a C-141 report investigate and r stance of a C-141	elease nort by the emediate	otifications are e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti eport" d eat to gr	ons for release not release not release ound water	eases which leve the oper r, surface wa	may en ator of ter, hu	danger liability nan health
Ciamatuma			-				OIL CON	SERV	ATION	DIVISIO	N	
Signature:	K	5	H	<u> </u>		Approved by	Environmental S	pecialist		any)	9	7
Printed Name	e: Kijun Ho	ong								\cup		
					Approval Date: 22/6/16 Expiration Date:							
Title: Environmental Specialist E-mail Address: Kijun.Hong@Williams.com						Conditions of	Approval:			Attached		
Date:	09/28/2016		P	hone: 505-632-44	75	200	1014			1		

* Attach Additional Sheets If Necessary

HORNE NCS 1634054 734



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	Release Notification and Corrective Action												
						OPERA'			Initi	al Report		Final Report	
		illiams Four	Corners	LLC		Contact	Mitch Morris No. 505-632-47						
	1755 Arroy me Jicarill	a Lateral D-	2				e Pipeline	08					
		lla Apache N		Mineral C		7 71			API No				
Surface Ow	ner Jicarn	na Apache N	ation						ATTNO				
TT-14 T -44	T C + :	T	D			N OF REI		E/	Vest Line	Country			
Unit Letter H	Section 12	Township 26N	Range 5W	Feet from the	North/	South Line	Feet from the	East	West Line	County Rio Arriba	1		
				Latitude 36.50				V					
Type of Rele	ase Natura	ıl Gas	-	NAI	UKE	OF REL	Release Estimate	ed at	Volume I	Recovered E	stimat	ed at 0 MCF	
						399.39 MC	CF .						
Source of Re	lease Pinho	ole leak in pipe	eline				lour of Occurrence, 3:00 PM MST	ee		Hour of Dise 16, 3:00 PM			
Was Immedi	Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required If YES, To Whom? N/A												
By Whom?													
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t able	the Wat	ercourse.				
If a Watercon	urse was Im	pacted, Descri	ibe Fully.*	k		1				***			
Not Applicat	ole							NI 00	NC DIV	DIST. 3			
		em and Remed	dial Action	n Taken.*			(JIL GO	JINO. DIV	DIO I. O			
An Operation	ns Technicia	an identified a	leak on th	ne Jicarilla Lateral	D-2 pip	eline during	routine operations	s. N	OV 21	2016			
Describe Are	a Affected	and Cleanup A	Action Tak	cen.*									
The pipeline	has been re	paired.											
regulations a public health should their or or the enviro	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	acceptance acceptance adequately CD accep	is true and completed of a C-141 report investigate and retained of a C-141 report investigate and retained of a C-141 retaine	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final Roon that pose a three	tive act eport" of eat to gr	ions for rel loes not rel round water	eases which ieve the oper r, surface wa	may en ator of ter, hu	ndanger f liability man health	
		7					OIL CON	SERV	ATION	DIVISIO	N)		
Mitch Morr Signature:	is Mul	D/M	and of			Approved by	Environmental S	pecialis	t: C	my	1	9	
Printed Name	e: Mitch M	orris											
Title: Enviro	onmental S _I	pecialist				Approval Dat	7		Expiration	Date:			
E-mail Addre	ess: Mitch.l	Morris@willia	ms.com		(Conditions of	Approval: SA	mple	<i>for</i>	Attached		COA it Execution	
	11/17/2016	1037		hone: 505-632-47	08	PH (DRO	GRO-MAC	SL	tex	3 Houl	is	Not used	
* Attach Addi	tional Shee	ets If Necess	ary #1	JCS16342									

Operator/Responsible Party,

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved</u> corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in Aztec on or before 1/7/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us District I
1625 N. French Dr., Hobbs, NM 88240
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* Attach Additional Sheets If Necessary

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Revised August 8, 2011

Form C-141

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

Release Notification and Corrective Action

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

						OPERA	IOK	\bowtie	Initia	al Report	\boxtimes	Final Repo
Name of Co	mpany Wil	liams Fou	r Corne	rs LLC		Contact	Kijun Hong					
Address	1755 Arroyo	Dr., Bloo	mfield, l	NM 87413		Telephone 1	No. 505-632-44	75				
Facility Nar	ne 31-6 CD	P				Facility Typ	e Compressor	r Station				
Surface Ow	ner RI M			Mineral O	wner			Δ	PI No			
Surface Ow	HEI BLIVI			Willicial	WIICI			IA	11110	•		
				LOCA	TIOI	OF RE	LEASE					
Unit Letter	Section	Γownship	Range	Feet from the	North/	South Line	Feet from the	East/West	Line	County		
N	1	30N	6W							Rio Arrib	a	
				Latitude 36	.83592	Longitud	e -107.42001					
				NAT	URE	OF REL	EASE					
Type of Rele	ase Natural	Gas					Release 3,942.9	MCF	Volu	me Recover	ed 0 M	ICF
						Natural G						
Source of Re	lease Station	discharge	pressure	safety valve (PSV)	The second secon	lour of Occurrence	***		and Hour of		
Was Immedia	ate Notice Giv	10m2			7.7	If YES, To	6, 08:30 AM MS	l .	10/1	8/2016, 09:4	5 AM	MST
was ininieur	ate Notice Giv		Yes	No Not Rec	quired	Cory Smit						
	Mike Hanna					Date and H	four 10/18/2016,	4:35 PM				
Was a Water	course Reache		v D	l N		To be desired and the	lume Impacting t	he Watercou				
			Yes 🛚	No		N/A				OIL CON	C	
If a Watercou	ırse was Impa	cted, Descri	be Fully.	k						0014	אום .כ	DIST :
NI/A										OCT	0 -	- LII O
N/A Describe Car	ise of Problem	and Remed	dial Action	n Taken *						001	26 2	016
Describe Cat	isc of Frontein	i and itemet	mai Action	ii Takeii.								
			line cause	d by the El Cedro	o plant	going down,	the pressure saf	ety valve at	31-6 I	ifted releasi	ng 3,94	2.9 MCF of
	to atmospher											
Describe Are	a Affected and	d Cleanup A	Action Tak	cen.*								
No cleanup	required with	gas release	ed to atm	osphere.								
		8										
				is true and comple								
				nd/or file certain re ce of a C-141 repor								
				investigate and re								
or the environ	nment. In add	lition, NMO	CD accep	tance of a C-141 r								
federal, state,	or local laws	and/or regu	lations.									
		1//	1/2				OIL CON:	SERVAT	ION	DIVISIO	N	
	-	19 y	4h1				,		6			
Signature:		0	Ot			Approved by	Environmental S	necialist:	1			
	Lawrence Control					rpproved by	Zii vii dii dii dii di	Tomas.	V'		3	
Printed Name	e: Kijun Hon	g						am				
Title: Enviro	onmental Sp	ecialist				Approval Dat	1219IN	No Expir	ration	Date:		
THE DUTTE	Janear Sp					-pprovin Da	- SI IBC	DAPI				
E-mail Addre	ess: Kijun.Ho	ng@willian	ns.com			Conditions of				Attached		
Date: Octob	er 21 2016		Dho	one: 505-632-4475		NOC	11293	5348	2	/ ttached		



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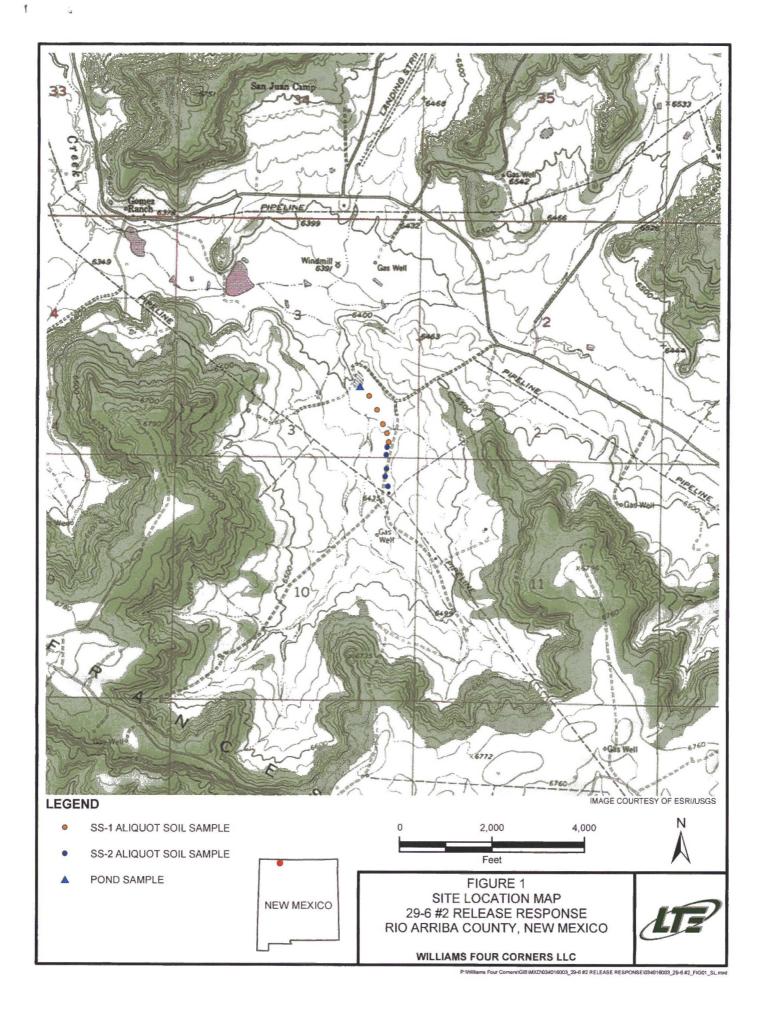
State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 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

						OPERA	ГOR		☐ Initi	al Report	\boxtimes	Final Re	eport
Name of Co	mpany: Wi	lliams Four	Corners	LLC		Contact: Mi	chael Hannan						
Address: 17							No.: (505) 632-4						
Facility Nar	ne: 29-6#2	Central Del	ivery Po	int		Facility Typ	e: Central Deliv	very Po	int				
Surface Ow	ner: Private	:		Mine	ral Owner				API No).			
				1.0	CATIO	N OF RE	FACE						
Unit Letter	Section	Township	Range	Feet from		h/South Line	Feet from the	Fact/V	West Line	County			
A	19	29N	6W	reet nom	ine North	n/South Line	reet nom the	Lasu	vest Line	Rio Arriba	a		
				Latitude 3	6 74497° N	J. Longitud	e <u>-107.44417° V</u>	V					
						OF REL		···					
Type of Relea	ase: Produce	d Water		11	ATUKE		Release: 5 bbls		Volume I	Recovered: (bbls		
Source of Re							lour of Occurrence	e:	Date and	Hour of Dis	covery:	:	
						08/5/2016			08/17/20	16 12:00 P.N	Л.		
Was Immedia	ate Notice Gi			l Nie 🖂 Ni	- t D 1 1	If YES, To				011 001	ic n	W DICT	- 0
			Yes _	No N	ot Required		n via phone call			OIL CO	15. DI	IN DIST	. 0
By Whom? I							lour: 8/17/2016 3				- 1 1	0010	
Was a Water	course Reach		Yes [] No		5 bbls	lume Impacting t	the Wate	ercourse.	00	1 1 2	2016	
was not obser Describe Cau Recent heavy water run-on The water rel- collected from below applica from the exca attached. Describe Are Staining was observed alor indicate conce result. Follow were achieved I hereby certi regulations al public health should their of	grated appropried to have see of Problem rains washe filled the conteased from the livestocable water quavation area is a Affected an observed at a generations are ving completed. If that the in a or the environment. In additional read of the service of the environment. In additional read of the service of the environment. In additional read of the service of the environment. In additional read of the service of the environment. In additional read of the service of	ximately ½ n migrated pass m and Remed dout the bern tainment and he secondary expond locate ality standard surrounding to a few location ath as well a le below remedion of addition formation giver required to comment. The ve failed to a ddition, NMO	mile to a list the lives dial Action m that was defined downders. Soil sathe BGT. Action Takens along the minor amediation according excaviven above to report an acceptance dequately of CD acception.	vestock pond. In Taken.* Is constructed shed out another was a migradient from amples were of A summary of the surface was ount of stain etion levels. A stain of the order of a C-141 investigate a	to control pather portion atture of rain the release collected from the soil are atter flow pather soil. Excanditional eleast wall, a stronglete to ain release pather to the soil report by the and remedia	potential surfate of the berm can water and present depicted on the down-analytical result that toward the avation activities and the was contacted to the best of my notifications and NMOCD mate contamination of the con	ce run-on into a busing the release oduced water tank in Figure 1. Surfiradient flow path is are presented in ivestock pond. Wies were performed to the east wall was pullected on Septem knowledge and und perform correct arked as "Final Roon that pose a three the operator of OIL CON"	elow-gra of water coverflo ace wate area as Table 1 filliams r ed surrou performe aber 16, understan etive acti eport" de eat to gr responsi	ade tank (E r from the sow. A surfa er results in depicted in and the later removed the unding the ed based on 2016 indice and that pursions for rel tooks not rel removed the sown and the constant of the sown and the tooks of the sown and the sown and the sown and the tooks of the sown and	aggr) contains secondary or acce water san dicate that a frigures 1 a boratory and the stained ve BGT. The san the Septementating remed suant to NM eases which ieve the open, surface was compliance v	nment. Tontainm mple (Pall result and 2, as allytical strength of the property	The surface nent area. OND-1) we let swere swell as reports are not debris lytical resultation level ules and indanger fliability man health	was e ults ble
Signature: Printed Name	:: Michael H	annan				Approved by	Environmental S		1		2	-	7
Title: Engine	er, Sr.					Approval Da	e: 12/9/14	H	Expiration	Date:			
E-mail Addre						Conditions o	Approval:	_		Attached			
Date: 09/30/2	016	Pho		632-4807	~ /				-				
Attach Addit	nonai Sneet	s II inecessa	#	NC216	2604	970))				6		2



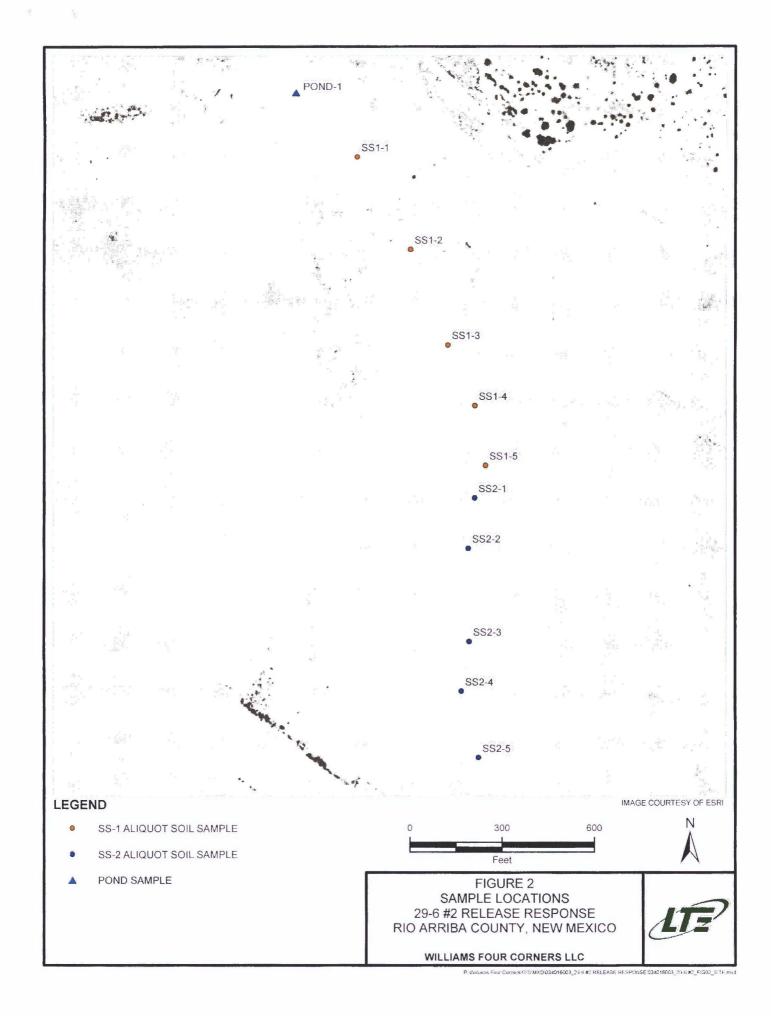


TABLE 1

SOIL ANALYTICAL RESULTS WILLIAMS FOUR CORNERS, LLC 29-6 #2 CDP/Trunk F

Soil Sample ID	Sample Date	Sample Location	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS-1	8/18/2016	Down-gradient (North)	< 0.024	< 0.047	< 0.047	< 0.095	ND	<4.7	<10	ND	NA
SS-2	8/18/2016	Down-gradient (South)	< 0.024	< 0.047	< 0.047	< 0.094	ND	<4.7	<10	ND	NA
TRK-F Pit North Wall	9/7/2016	North Wall	< 0.020	< 0.039	< 0.039	< 0.078	ND	19	40	59	<30
TRK-F Pit South Wall	9/7/2016	South Wall	< 0.021	< 0.043	<0.043	0.69	0.69	53	<9.7	53	<30
TRK-F Pit East Wall	9/7/2016	East Wall	< 0.29	< 0.59	<0.59	22	22	1200	29	1229	<30
TRK-F Pit West Wall	9/7/2016	West Wall	< 0.021	< 0.041	<0.041	< 0.083	ND	<4.1	<9.4	ND	45
TRK-F Pit Bottom	9/7/2016	Floor	< 0.10	< 0.20	<0.20	< 0.40	ND	<20	<9.7	ND	36
TRK-F East Wall	9/16/2016	East Wall	< 0.020	< 0.040	<0.040	< 0.079	ND	<4.0	<9.6	ND	NA
NMOCD Ren	nediation Act	tion Levels	10	NE	NE	NE	50	NE	NE	100	NE

NOTES:

< - indicates result is less than the stated laboratory reporting limit

Bold - indicates value exceeds stated NMOCD standard

mg/kg - milligrams per kilogram

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

GRO - gasoline range organics

DRO - diesel range organics

TPH- total petroleum hydrocarbons

NMOCD - New Mexico Oil Conservation Division

NE - Not Established



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

OrderNo.: 1608B70

August 25, 2016

Brooke Herb Williams Four Corners 188 CR 4900 Bloomfield, NM 87413

TEL: (505) 632-4442

FAX

RE: 29-6 #2 Release Response

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/19/2016 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 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

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1608B70

Date Reported: 8/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: Pond-1

Project: 29-6 #2 Release Response

Collection Date: 8/18/2016 1:30:00 PM

Lab ID: 1608B70-001

Matrix: AQUEOUS Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	BCN
Benzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Toluene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Ethylbenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,3,5-Trimethylbenzene	1.5	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Naphthalene	ND	2.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1-Methylnaphthalene	ND	4.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
2-Methylnaphthalene	ND	4.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Acetone	ND	10	μg/L	1	8/19/2016 7:38:00 PM	R3664
Bromobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Bromodichloromethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Bromoform	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Bromomethane	ND	3.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
2-Butanone	ND	10	μg/L	1	8/19/2016 7:38:00 PM	R3664
Carbon disulfide	ND	10	μg/L	1	8/19/2016 7:38:00 PM	R3664
Carbon Tetrachloride	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Chlorobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Chloroethane	ND	2.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Chloroform	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Chloromethane	ND	3.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
2-Chlorotoluene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
4-Chlorotoluene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
cis-1,2-DCE	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Dibromochloromethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Dibromomethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2-Dichlorobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,3-Dichlorobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,4-Dichlorobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Dichlorodifluoromethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,1-Dichloroethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,1-Dichloroethene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2-Dichloropropane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,3-Dichloropropane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
2,2-Dichloropropane	ND	2.0	μg/L	1	8/19/2016 7:38:00 PM	R3664

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 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Lab Order 1608B70

Date Reported: 8/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: Pond-1

29-6 #2 Release Response Project:

Collection Date: 8/18/2016 1:30:00 PM

1608B70-001 Lab ID:

Matrix: AQUEOUS

Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	BCN
1,1-Dichloropropene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Hexachlorobutadiene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
2-Hexanone	ND	10	μg/L	1	8/19/2016 7:38:00 PM	R3664
Isopropylbenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
4-Isopropyltoluene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
4-Methyl-2-pentanone	ND	10	μg/L	1	8/19/2016 7:38:00 PM	R3664
Methylene Chloride	ND	3.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
n-Butylbenzene	ND	3.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
n-Propylbenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
sec-Butylbenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Styrene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
tert-Butylbenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
trans-1,2-DCE	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,1,1-Trichloroethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,1,2-Trichloroethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Trichloroethene (TCE)	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Trichlorofluoromethane	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
1,2,3-Trichloropropane	ND	2.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Vinyl chloride	ND	1.0	μg/L	1	8/19/2016 7:38:00 PM	R3664
Xylenes, Total	1.7	1.5	μg/L	1	8/19/2016 7:38:00 PM	R3664
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%Rec	1	8/19/2016 7:38:00 PM	R3664
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	8/19/2016 7:38:00 PM	R3664
Surr: Dibromofluoromethane	97.1	70-130	%Rec	1	8/19/2016 7:38:00 PM	R3664
Surr: Toluene-d8	97.5	70-130	%Rec	1	8/19/2016 7:38:00 PM	R3664

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 2 of 12 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1608B70

Date Reported: 8/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: Trip Blank

Project: 29-6 #2 Release Response

Collection Date:

Lab ID: 1608B70-002

Matrix: AQUEOUS

Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	BCN
Benzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Toluene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Ethylbenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	8/19/2016 6:51:00 PM	R366
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Naphthalene	ND	2.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1-Methylnaphthalene	ND	4.0	µg/L	1	8/19/2016 6:51:00 PM	R366
2-Methylnaphthalene	ND	4.0	µg/L	1	8/19/2016 6:51:00 PM	R366
Acetone	ND	10	µg/L	1	8/19/2016 6:51:00 PM	R366
Bromobenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Bromodichloromethane	ND	1.0	µg/L	1	8/19/2016 6:51:00 PM	R366
Bromoform	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Bromomethane	ND	3.0	μg/L	1	8/19/2016 6:51:00 PM	R366
2-Butanone	ND	10	μg/L	1	8/19/2016 6:51:00 PM	R366
Carbon disulfide	ND	10	μg/L	1	8/19/2016 6:51:00 PM	R366
Carbon Tetrachloride	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Chlorobenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Chloroethane	ND	2.0	µg/L	1	8/19/2016 6:51:00 PM	R366
Chloroform	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Chloromethane	ND	3.0	μg/L	1	8/19/2016 6:51:00 PM	R366
2-Chlorotoluene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
4-Chlorotoluene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
cis-1,2-DCE	ND	1.0	µg/L	1	8/19/2016 6:51:00 PM	R366
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	8/19/2016 6:51:00 PM	R366
Dibromochloromethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
Dibromomethane	ND	1.0	µg/L	1	8/19/2016 6:51:00 PM	R366
1,2-Dichlorobenzene	ND	1.0	µg/L	1	8/19/2016 6:51:00 PM	R366
1,3-Dichlorobenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,4-Dichlorobenzene	ND	1.0	µg/L	1	8/19/2016 6:51:00 PM	R366
Dichlorodifluoromethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,1-Dichloroethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,1-Dichloroethene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,2-Dichloropropane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
1,3-Dichloropropane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R366
2,2-Dichloropropane	ND	2.0	µg/L	1	8/19/2016 6:51:00 PM	R366

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
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 12
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- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Lab Order 1608B70

Date Reported: 8/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: Trip Blank

Project: 29-6 #2 Release Response

Collection Date:

Lab ID: 1608B70-002

Matrix: AQUEOUS

Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	BCN
1,1-Dichloropropene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R36641
Hexachlorobutadiene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R36641
2-Hexanone	ND	10	μg/L	1	8/19/2016 6:51:00 PM	R3664
Isopropylbenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
4-Isopropyltoluene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
4-Methyl-2-pentanone	ND	10	μg/L	1	8/19/2016 6:51:00 PM	R3664
Methylene Chloride	ND	3.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
n-Butylbenzene	ND	3.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
n-Propylbenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
sec-Butylbenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Styrene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
tert-Butylbenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
trans-1,2-DCE	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,1,1-Trichloroethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,1,2-Trichloroethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Trichloroethene (TCE)	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Trichlorofluoromethane	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
1,2,3-Trichloropropane	ND	2.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Vinyl chloride	ND	1.0	μg/L	1	8/19/2016 6:51:00 PM	R3664
Xylenes, Total	ND	1.5	μg/L	1	8/19/2016 6:51:00 PM	R3664
Surr: 1,2-Dichloroethane-d4	94.9	70-130	%Rec	1	8/19/2016 6:51:00 PM	R3664
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	8/19/2016 6:51:00 PM	R3664
Surr: Dibromofluoromethane	98.8	70-130	%Rec	1	8/19/2016 6:51:00 PM	R36641
Surr: Toluene-d8	97.3	70-130	%Rec	1	8/19/2016 6:51:00 PM	R36641

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 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1608B70

Date Reported: 8/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: SS-1

Project: 29-6 #2 Release Response

Collection Date: 8/18/2016 2:30:00 PM

1608B70-003 Lab ID:

Matrix: SOIL

Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	s			Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/23/2016 9:43:06 AM	27095
Motor Oil Range Organics (MRO)	130	50	mg/Kg	1	8/23/2016 9:43:06 AM	27095
Surr: DNOP	93.9	70-130	%Rec	1	8/23/2016 9:43:06 AM	27095
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/24/2016 5:02:02 PM	27081
Surr: BFB	80.4	68.3-144	%Rec	1	8/24/2016 5:02:02 PM	27081
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/23/2016 3:05:18 AM	27081
Toluene	ND	0.047	mg/Kg	1	8/23/2016 3:05:18 AM	27081
Ethylbenzene	ND	0.047	mg/Kg	1	8/23/2016 3:05:18 AM	27081
Xylenes, Total	ND	0.095	mg/Kg	1	8/23/2016 3:05:18 AM	27081
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	8/23/2016 3:05:18 AM	27081

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

Lab Order 1608B70

Date Reported: 8/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: SS-2

Project: 29-6 #2 Release Response Collection Date: 8/18/2016 2:38:00 PM

Lab ID: 1608B70-004 Matrix: SOIL

Received Date: 8/19/2016 7:30:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/23/2016 10:10:50 AM	27095
Motor Oil Range Organics (MRO)	69	50	mg/Kg	, 1	8/23/2016 10:10:50 AM	27095
Surr: DNOP	85.1	70-130	%Red	1	8/23/2016 10:10:50 AM	27095
EPA METHOD 8015D: GASOLINE RANGE	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	, 1	8/24/2016 5:25:28 PM	27081
Surr: BFB	81.1	68.3-144	%Rec	1	8/24/2016 5:25:28 PM	27081
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	, 1	8/23/2016 3:28:41 AM	27081
Toluene	ND	0.047	mg/Kg	, 1	8/23/2016 3:28:41 AM	27081
Ethylbenzene	ND	0.047	mg/Kg	, 1	8/23/2016 3:28:41 AM	27081
Xylenes, Total	ND	0.094	mg/Kg	, 1	8/23/2016 3:28:41 AM	27081
Surr: 4-Bromofluorobenzene	97.4	80-120	%Red	1	8/23/2016 3:28:41 AM	27081

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
- 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 6 of 12 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608B70

25-Aug-16

Client:

Williams Four Corners

Project:

29-6 #2 Release Response

Qual
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Qualifiers:

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

Page 7 of 12

- 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.

920

WO#:

1608B70

25-Aug-16

Client:

Williams Four Corners

Project:

Surr: BFB

29-6 #2 Release Response

Sample ID MB-27081	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch ID: 27081			F	RunNo: 3	6716				
Prep Date: 8/19/2016	Analysis D	ate: 8/	22/2016	SeqNo: 1137915 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		83.8	68.3	144			
Sample ID LCS-27081	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 27	081	F	RunNo: 3	6716				
Prep Date: 8/19/2016	Analysis D	ate: 8/	22/2016	8	SeqNo: 1	137916	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	80	120			

1000

92.1

68.3

144

Qualifiers:

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

Page 8 of 12

- 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#: **1608B70**

25-Aug-16

Client:

Williams Four Corners

Project:

29-6 #2 Release Response

Sample ID MB-27081	SampT	SampType: MBLK TestCode: EPA Method						iles				
Client ID: PBS	Batch	n ID: 27	081	R	RunNo: 3	6716						
Prep Date: 8/19/2016	Analysis D	oate: 8/	22/2016	S	SeqNo: 1	137943	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	0.99		1.000		99.3	80	120					

Sample ID LCS-27081	SampT	ype: LC	CS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch	n ID: 27	081	F	RunNo: 3	6716						
Prep Date: 8/19/2016	Analysis D	ate: 8/	22/2016	SeqNo: 1137944 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	PK Ref Val %REC LowLimit HighLimit %RPD RPD							
Benzene	0.96	0.025	1.000	0	96.2	75.3	123					
Toluene	0.97	0.050	1.000	0	97.1	80	124					
Ethylbenzene	1.0	0.050	1.000	0	103	82.8	121					
Xylenes, Total	3.1	0.10	3.000	0	102	83.9	122					
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

Page 9 of 12

- 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#:

1608B70

25-Aug-16

Client:

Williams Four Corners

Project:

29-6 #2 Release Response

Sample ID 100ng Ics	SampType: LCS TestCode: EPA Method 8260B: VOLATILES										
					RunNo: 3		OZOUD. VOL	TILES			
Client ID: LCSW		n ID: R3					Dailes				
Prep Date:	Analysis D	ate: 8/	19/2016	8	SeqNo: 1	134966	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	97.9	70	130				
Toluene	20	1.0	20.00	0	100	70	130				
Chlorobenzene	20	1.0	20.00	0	102	70	130				
1,1-Dichloroethene	20	1.0	20.00	0	99.3	70	130				
Trichloroethene (TCE)	19	1.0	20.00	0	95.3	70	130				
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130				
Surr: 4-Bromofluorobenzene	9.9		10.00		99.3	70	130				
Surr: Dibromofluoromethane	9.7		10.00		97.1	70	130				
Surr: Toluene-d8	9.8		10.00		97.9	70	130				
Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES			
Client ID: PBW	Batch	n ID: R3	R36641 RunNo: 36641								
Prep Date:	Analysis D	ate: 8/	19/2016	S	SeqNo: 1	134967	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	3.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	3.0									
2-Chlorotoluene	ND	1.0									

- 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 10 of 12

- 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#: **1608B70**

25-Aug-16

Client:

Williams Four Corners

Project:

29-6 #2 Release Response

Sample ID rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: R3	6641	F	RunNo: 3	6641				
Prep Date:	Analysis D			5	SeqNo: 1	134967	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
	0.000									

Qualifiers:

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

Page 11 of 12

- 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#: **1608B70**

25-Aug-16

Client:

Williams Four Corners

Project:

29-6 #2 Release Response

Sample ID rb	SampType: MBLK TestCode: EPA Method 8260B: VOLATILES									
Client ID: PBW	Batch	Batch ID: R36641 RunNo: 36641								
Prep Date:	Analysis D	ate: 8/	19/2016	8	SeqNo: 1	134967	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.5	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.5	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.4	70	130			
Surr: Toluene-d8	9.6		10.00		96.4	70	130			

Qualifiers:

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

Page 12 of 12

- 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 FOUR CORN Work Order Number	r. 1608B70		RcptNo:	1
Received by/date: 16- 88/19/16				
Logged By: Anne Thorne 8/19/2016 7:30:00 AM	1	ame Am	_	
Completed By: Anne Thorne 8/19/2016		an Il-	_	
Reviewed By: 05 08/19/16		Clara yr		
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 🗆	e
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 🗹		
12. Does paperwork match bottle labels?	Yes 🗸	No 🗆	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)	105	110		>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 □ I	Phone Fax	☐ In Person	
Regarding:		none 🗀 i ex	i	
Client Instructions:		A MINE MULTIPLE MANNEY MANAGEMENT VILL	The half data and artists and	
17. Additional remarks:	<u> </u>			
18. Cooler Information				

C	hain	of-Cu	stody Record	Turn-Around	Time:	7					IAI		E	MV	TE	20	DI B	4EI	NT	AI	
lient:	Mite	n Mar	nis	Standard	□ Rush] -		H										TO		
112	Ilia	C 5	ur Corners	Project Name	e:																
ailing	Address	188 6	ounty Road 4900	29-6=	2 Releas	ie Response		49	01 H							tal.co e, Ni	om M 87	109			
3/2	mho	ld a lo	10 Mexico 87413	Project #:		:	7	Te	el. 50	5-34	5-39	75	F	ах	505-	345-	4107	7.			
none:	# 500	5-(02	2-4708	PO -	UP15186	(e	1									uest					
			orrisewilliams.com					only)	0											Т	
	Package:	11-01-11					(8021)	on s	MRO)					SC,	B's						
(Stan	-		☐ Level 4 (Full Validation)	Brooke	Herb		(0)	(Gas	RO/			SIMS)		PO4	PCB'						
	tation			Sampler: Br	ooke Her	V O	TMB	TPH		=	=	70.5		Vo ₂ ,	3082						2
NEL	AP	□ Othe	er	On Ice	Yes	°⊟:No] 🛨	+	(GRO	418.1)	9.	82	"	03,1	8/8		(A)				or N
EDD	(Type)_			Sample Tem	perature		BE	MTBE		bd 4	30	00	stals	Ň,	ide	8					ح
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBI	+	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
· lice	1330	AQ	Pond-1	VOA/	Hel	-701										X			T		П
slive	10.7	BQ	Trio Blank	VOA	HCI	702										X			\top	\top	П
thre		100	THE DIMITE	VUF	WC 1	602										^			+	+	\forall
The	1430	Soil	SS-1	402/2	(00)	703	X		X									\top	+	+	Н
The		Soil	SS-2	402/2	1001	-204	X		X			:							T		\Box
	· .	1												-					\top		
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-:																					
ite:	Time: 1100	Relinquish	6	Received by:	last	Date Time 8/18/14 1700	Rei	P(s: las	e	Co	Py	10	esi	11	5	0:		,		
Ite:	WHU	Retinquish	My MAR a	Received by:	7	08 9 10 0	130)	pe	br	rel	be	11	enist	<i>j. U</i>	Au	Sa	md	De la	8/2	m 2/10
h	f necessary,	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	credited laboratori	es. This serves as notice of the	is poss	ibility.	Any st	ıb-con	tracted	d data	will be	e clear	rly not	ated b	n the a	nalytica			



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

September 09, 2016

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

FAX

RE: Trunk F Pit

OrderNo.: 1609323

Dear Michael Hannan:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/8/2016 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 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1609323

Date Reported: 9/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: TRK-F Pit North Wall

Project: Trunk F Pit

Collection Date: 9/7/2016 1:30:00 PM

Lab ID: 1609323-001

Matrix: MEOH (SOIL) Received Date: 9/8/2016 6:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	ND	30		mg/Kg	20	9/8/2016 10:34:38 AM	27403
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	3				Analys	t: TOM
Diesel Range Organics (DRO)	40	10		mg/Kg	1	9/8/2016 10:49:30 AM	27392
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/8/2016 10:49:30 AM	27392
Surr: DNOP	108	70-130		%Rec	1	9/8/2016 10:49:30 AM	27392
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	t: RAA
Gasoline Range Organics (GRO)	19	3.9		mg/Kg	1	9/8/2016 11:20:11 AM	27376
Surr: BFB	386	68.3-144	S	%Rec	1	9/8/2016 11:20:11 AM	27376
EPA METHOD 8021B: VOLATILES						Analys	t: RAA
Benzene	ND	0.020		mg/Kg	1	9/8/2016 11:20:11 AM	27376
Toluene	ND	0.039		mg/Kg	1	9/8/2016 11:20:11 AM	27376
Ethylbenzene	ND	0.039		mg/Kg	1	9/8/2016 11:20:11 AM	27376
Xylenes, Total	ND	0.078		mg/Kg	1	9/8/2016 11:20:11 AM	27376
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	1	9/8/2016 11:20:11 AM	27376

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

Lab Order 1609323

Date Reported: 9/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Trunk F Pit South Wall

Project: Trunk F Pit Collection Date: 9

Collection Date: 9/7/2016 1:35:00 PM

Lab ID: 1609323-002 Matrix: MEOH (SOIL) Received Date: 9/8/2016 6:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	LGT
Chloride	ND	30		mg/Kg	20	9/8/2016 10:47:02 AM	27403
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/8/2016 11:11:21 AM	27392
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2016 11:11:21 AM	27392
Surr: DNOP	112	70-130		%Rec	1	9/8/2016 11:11:21 AM	27392
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA
Gasoline Range Organics (GRO)	53	4.3		mg/Kg	1	9/8/2016 11:43:37 AM	27376
Surr: BFB	338	68.3-144	S	%Rec	1	9/8/2016 11:43:37 AM	27376
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.021		mg/Kg	1	9/8/2016 11:43:37 AM	27376
Toluene	ND	0.043		mg/Kg	1	9/8/2016 11:43:37 AM	27376
Ethylbenzene	ND	0.043		mg/Kg	1	9/8/2016 11:43:37 AM	27376
Xylenes, Total	0.69	0.085		mg/Kg	1	9/8/2016 11:43:37 AM	27376
Surr: 4-Bromofluorobenzene	120	80-120		%Rec	1	9/8/2016 11:43:37 AM	27376

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
- W Sample container temperature is out of limit as specified

Date Reported: 9/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: TRK F Pit East Wall

Project: Trunk F Pit

Collection Date: 9/7/2016 1:40:00 PM

Lab ID: 1609323-003

Matrix: MEOH (SOIL) Received Date: 9/8/2016 6:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	9/8/2016 10:59:26 AM	27403
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	TOM
Diesel Range Organics (DRO)	29	10		mg/Kg	1	9/8/2016 11:32:59 AM	27392
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/8/2016 11:32:59 AM	27392
Surr: DNOP	113	70-130		%Rec	1	9/8/2016 11:32:59 AM	27392
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	RAA
Gasoline Range Organics (GRO)	1200	59		mg/Kg	20	9/8/2016 12:07:08 PM	27376
Surr: BFB	521	68.3-144	S	%Rec	20	9/8/2016 12:07:08 PM	27376
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.29		mg/Kg	20	9/8/2016 12:07:08 PM	27376
Toluene	ND	0.59		mg/Kg	20	9/8/2016 12:07:08 PM	27376
Ethylbenzene	ND	0.59		mg/Kg	20	9/8/2016 12:07:08 PM	27376
Xylenes, Total	22	1.2		mg/Kg	20	9/8/2016 12:07:08 PM	27376
Surr: 4-Bromofluorobenzene	135	80-120	S	%Rec	20	9/8/2016 12:07:08 PM	27376

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

Lab Order 1609323

Date Reported: 9/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: TRK F Pit West Wall

Project: Trunk F Pit

Collection Date: 9/7/2016 1:45:00 PM

Lab ID: 1609323-004

Matrix: MEOH (SOIL) Received Date: 9/8/2016 6:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	45	30	mg/Kg	20	9/8/2016 11:11:50 AM	27403
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/8/2016 11:54:48 AM	27392
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/8/2016 11:54:48 AM	27392
Surr: DNOP	103	70-130	%Rec	1	9/8/2016 11:54:48 AM	27392
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/8/2016 12:54:18 PM	27376
Surr: BFB	91.4	68.3-144	%Rec	1	9/8/2016 12:54:18 PM	27376
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.021	mg/Kg	1	9/8/2016 12:54:18 PM	27376
Toluene	ND	0.041	mg/Kg	1	9/8/2016 12:54:18 PM	27376
Ethylbenzene	ND	0.041	mg/Kg	1	9/8/2016 12:54:18 PM	27376
Xylenes, Total	ND	0.083	mg/Kg	1	9/8/2016 12:54:18 PM	27376
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	9/8/2016 12:54:18 PM	27376

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 1609323

Date Reported: 9/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: TRK 5 Pit Bottom

Project: Trunk F Pit

Collection Date: 9/7/2016 1:50:00 PM

Lab ID: 1609323-005

Matrix: MEOH (SOIL) Received Date: 9/8/2016 6:30:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	36	30	mg/Kg	20	9/8/2016 11:24:15 AM	27403
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/8/2016 12:16:34 PM	27392
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/8/2016 12:16:34 PM	27392
Surr: DNOP	103	70-130	%Rec	1	9/8/2016 12:16:34 PM	27392
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	9/8/2016 1:17:46 PM	27376
Surr: BFB	94.7	68.3-144	%Rec	5	9/8/2016 1:17:46 PM	27376
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.10	mg/Kg	5	9/8/2016 1:17:46 PM	27376
Toluene	ND	0.20	mg/Kg	5	9/8/2016 1:17:46 PM	27376
Ethylbenzene	ND	0.20	mg/Kg	5	9/8/2016 1:17:46 PM	27376
Xylenes, Total	ND	0.40	mg/Kg	5	9/8/2016 1:17:46 PM	27376
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	5	9/8/2016 1:17:46 PM	27376

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#:

1609323

09-Sep-16

Client:

Williams Field Services

Project:

Trunk F Pit

Sample ID MB-27403

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 27403

RunNo: 37065

Prep Date:

Sample ID LCS-27403

Prep Date: 9/8/2016

Client ID: LCSS

SeqNo: 1149778

Units: mg/Kg

HighLimit

Analyte

9/8/2016

Analysis Date: 9/8/2016

%RPD **RPDLimit**

Qual

Chloride

Result ND

SampType: LCS

Batch ID: 27403

PQL

Analysis Date: 9/8/2016

PQL

1.5

TestCode: EPA Method 300.0: Anions

LowLimit

RunNo: 37065

SeqNo: 1149779

Units: mg/Kg

HighLimit

Qual

Page 6 of 9

Result

1.5

15.00

%RPD **RPDLimit**

SPK value SPK Ref Val %REC

Analyte Chloride

14

0

SPK value SPK Ref Val %REC LowLimit

93.3

90

110

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 B

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.

100

4.8

9.4

47.13

4.713

40.14

133

102

33.9

70

141

130

19.1

0

20

0

WO#: **1609323**

09-Sep-16

Client:

Williams Field Services

Project:	Trunk F	Pit									
Sample ID	LCS-27392	SampTyp	oe: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch ID: 27392			RunNo: 37059						
Prep Date:	9/8/2016	Analysis Date: 9/8/2016			SeqNo: 1148917			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	45	10	50.00	0	90.6	62.6	124			
Surr: DNOP		5.0		5.000		99.1	70	130			
Sample ID MB-27392 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID:	PBS	Batch I	D: 27	392	F	RunNo: 3	7059				
Prep Date:	9/8/2016	Analysis Dat	te: 9/	8/2016	SeqNo: 1148918			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		109	70	130			
Sample ID	1609323-001AMS	SampTyp	e: MS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	TRK-F Pit North V	Val Batch I	D: 27	392	RunNo: 37059						
Prep Date:	9/8/2016	Analysis Dat	te: 9/	8/2016	8	SeqNo: 1	148989	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	85	9.4	47.04	40.14	95.2	33.9	141			
Surr: DNOP		4.9		4.704		103	70	130			
Sample ID 1609323-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID:	TRK-F Pit North V	Val Batch I	D: 27	392	F	RunNo: 3	7059				
Prep Date:	9/8/2016	Analysis Dat	ate: 9/8/2016 SeqNo: 1148990 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Diesel Range Organics (DRO)

Surr: DNOP

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 7 of 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.

09-Sep-16

1609323

WO#:

Client:

Williams Field Services

Project:

Trunk F Pit

Sample ID LCS-27376	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 27376	RunNo: 37063		
Prep Date: 9/7/2016	Analysis Date: 9/8/2016	SeqNo: 1149497	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 97.1 80	120	
Surr: BFB	950 1000	95.4 68.3	144	
Sample ID MB-27376	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 27376	RunNo: 37063		
Prep Date: 9/7/2016	Analysis Date: 9/8/2016	SeqNo: 1149498	Units: mg/Kg	

SPK value SPK Ref Val %REC LowLimit

Analyte Gasoline Range Organics (GRO) Result ND

PQL 5.0

68.3

%RPD

RPDLimit

Qual

Surr: BFB

880

1000

87.6

HighLimit

144

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

В 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 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1609323

09-Sep-16

Client:

Williams Field Services

Project:

Trunk F Pit

Sample ID LCS-27376	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles						
Client ID: LCSS	Batc	h ID: 27	376	F	RunNo: 3	7063								
Prep Date: 9/7/2016	Analysis [Date: 9/	8/2016	8	SeqNo: 1	149514	Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.77	0.025	1.000	0	77.3	75.3	123							
Toluene	0.92	0.050	1.000	0	92.1	80	124							
Ethylbenzene	1.0	0.050	1.000	0	101	82.8	121							
Xylenes, Total	3.0	0.10	3.000	0	102	83.9	122							
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120							
Sample ID MB-27376 SampType: MBLK TestCode: EPA Method 8021B: Volatiles														
Client ID: PBS	Batcl	h ID: 27:	376	F	unNo: 3	7063								
D D / A TIME /														

Sample ID MB-27376	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 27	376	R	RunNo: 3	7063				
Prep Date: 9/7/2016	Analysis Da	ate: 9/	8/2016	S	SeqNo: 1	149515	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		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
- W Sample container temperature is out of limit as specified

Page 9 of 9



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

Website; www.hallenvironmental.com

Sample Log-In Check List

WILLIAMS FIELD SERVI Work Order Number: 1609323 RcptNo: 1 Client Name: Received by/date: **Ashley Gallegos** Logged By: **Ashley Gallegos** Completed By: 9/8/2016 7:02:47 AM AT 09/08/16 Reviewed By: Chain of Custody No [] Not Present 1 Custody seals intact on sample bottles? No [] Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In NA 🔲 No [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 No [No [6. Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? No [] 8. Are samples (except VOA and ONG) properly preserved? NA [] No M 9. Was preservative added to bottles? No 🗔 No VOA Vials 10.VOA vials have zero headspace? No M 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 🗌 13. Are matrices correctly identified on Chain of Custody? No [] 14. Is it clear what analyses were requested? Checked by: No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) No 🗌 NA Yes [] 16. Was client notified of all discrepancies with this order? 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

C	hain	-of-Cu	stody Record	Turn-Around	Time:	Same Day				ш	AL		: 813	/TE	20	NIB	A E F	NTA	A #	
ent:	WFS			□ Standard Project Name		Same Day 9-8-2016				A	NA		SI	S L	AE	30		TOI		
illing	Address	: 188	CR4900	TRUNK	F FOOD	o.¥		490	01 H			- A					109			
			NA 87413	Project #:	F FOR		1				5-397			505-	-					
			-7274				H	Έ.				Ana	lysis	Req	uest					
			. HENNON @ willikes. Ca	Project Mana	ager:		_	ly)	9				04)							
	Package: idard		☐ Level 4 (Full Validation)	michael	1 Hanna	N	+ 7M B's (8021)	(Gas only)	DRO / MRO)			SIMS)	PO ₄ ,S(PCB's						
cred NEL	itation AP	□ Othe	er	Sampler: Me On Ice:	Mycan Ki	N //iom = No	+ FIMB	+ TPH	(GRO/DF	18.1)	04.1)	8270	03,NO ₂	s / 8082		(A)			2 Z	1.5
EDD	(Type)		1	Sample Tem	perature: 😞		Ⅱ	띮	<u>©</u>	od 4		0 or	Ž,	side	8	\ <u>1</u>	3		>	-
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method	PAH's (8310 or RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chlas		Air Bubbles (Y or N)	בובבבבוב
16	10	50:1	North wall	1-402	Cool	-001	×		×								~			
1/6	1:33	101	TRUNK F Pit	1-402	1	-002	X		X								X			
116	1:40	5011	TOK-F Pit East wall	1-402		-003	X		X								X			
116	1:45	Soil	TBK-F Bit	1-402		-004	X		X								X			
114	1:50	5011	TAK-5-Pit	1-402	<i>V</i>	-005	X		X			-	-				X	+		_
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te:	Time:	Relinquish	etu hlaeb	Received by:	D O	Date Time	3C))		ĸ										
7/16	f necessary	, samples sub	mitted to Hall Environmental may be sub	contracted to other a		7.70	s possi	bility.	Any su	b-cont	racted o	data will	be clea	rly not	ated or	n the a	nalytical	report.		



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109

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

September 20, 2016

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

FAX

RE: Trunk-F

OrderNo.: 1609953

Dear Michael Hannan:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/17/2016 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 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1609953

Date Reported: 9/20/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: TRK-F East Wall

Project: Trunk-F

Collection Date: 9/16/2016 11:30:00 AM

Lab ID: 1609953-001

Matrix: MEOH (SOIL) Received Date: 9/17/2016 8:00:00 AM

Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/19/2016 10:03:03 AM	27559
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/19/2016 10:03:03 AM	27559
Surr: DNOP	96.9	70-130	%Rec	1	9/19/2016 10:03:03 AM	27559
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/19/2016 11:04:37 AM	G37293
Surr: BFB	80.6	68.3-144	%Rec	1	9/19/2016 11:04:37 AM	G37293
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.020	mg/Kg	1	9/19/2016 11:04:37 AM	B37293
Toluene	ND	0.040	mg/Kg	1	9/19/2016 11:04:37 AM	B37293
Ethylbenzene	ND	0.040	mg/Kg	1	9/19/2016 11:04:37 AM	B37293
Xylenes, Total	ND	0.079	mg/Kg	1	9/19/2016 11:04:37 AM	B37293
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	9/19/2016 11:04:37 AM	B37293

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 4
- 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#:

1609953

20-Sep-16

Client:

Williams Field Services

Project:	Trunk-F										
Sample ID	LCS-27559	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 27	559	F	RunNo: 3	7287				
Prep Date:	9/19/2016	Analysis Da	nte: 9/	19/2016	8	SeqNo: 1	157753	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	44	10	50.00	0	88.0	62.6	124			
Surr: DNOP		4.8		5.000		95.9	70	130			
Sample ID	MB-27559	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 27	559	F	RunNo: 3	7287				
Prep Date:	9/19/2016	Analysis Da	ite: 9/	19/2016	8	SeqNo: 1	157754	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.9		10.00		99.0	70	130			
Sample ID	1609953-001AMS	SampTy	pe: MS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	TRK-F East Wall	Batch	ID: 27	559	F	RunNo: 3	7287				
Prep Date:	9/19/2016	Analysis Da	ite: 9/	19/2016	8	SeqNo: 1	157794	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	43	9.3	46.73	0	91.5	33.9	141			
Surr: DNOP		4.6		4.673		98.9	70	130			
Sample ID	1609953-001AMSE	SampTy	ре: МS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	TRK-F East Wall	Batch	ID: 27	559	R	RunNo: 3	7287				
Prep Date:	9/19/2016	Analysis Da	te: 9/	19/2016	S	SeqNo: 1	157795	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C Surr: DNOP	Organics (DRO)	45	10	49.95	0	91.1	33.9	141	6.16	20	
		4.8		4.995		96.5	70	130	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
- Sample container temperature is out of limit as specified

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1609953

20-Sep-16

Client:

Williams Field Services

Project:

Trunk-F

Sample ID RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: G37293 RunNo: 37293 Prep Date: Analysis Date: 9/19/2016 SeqNo: 1158400 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 870 1000 87.0 68.3 144

Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: **LCSS** Batch ID: G37293 RunNo: 37293 Prep Date: Analysis Date: 9/19/2016 SeqNo: 1158401 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.1 74.6 123 Surr: BFB 910 1000 91.0 68.3 144

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 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1609953

20-Sep-16

Client:

Williams Field Services

Project:

Trunk-F

Sample ID RB	SampT	уре: МЕ	BLK	Test	Code: El	PA Method	8021B: Volat	iles		
Client ID: PBS					lunNo: 3	7293				
Prep Date:	Analysis D	ate: 9/	19/2016	S	SeqNo: 1	158418	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID 100NG BTEX LC	S Samp	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: B3	7293	F	RunNo: 3	7293				
Prep Date:	Analysis D	Date: 9/	19/2016	8	SeqNo: 1	158419	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	75.3	123			
Toluene	1.0	0.050	1.000	0	103	80	124			
Ethylbenzene	1.000	0	101	82.8	121					
Xylenes, Total	3.000	0	101	83.9	122					
Surr: 4-Bromofluorobenzene	1.000		113	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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins Nr.

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-1107

Website; www.kallerviroumental.com

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Wo	ork Order Number:	1609963		RcptNo	: 1
	1	, 814		•	;
Received by/date:	17/16				
Logged By: Lindsay Mangin 9/17/	2016 8:00:00 AM		Juney Houge		
Completed By: Lindsay Mangin 9/17/	2018 8:44:18 AM		Juney Hongs		
Reviewed By:	9/17/14				<u>.</u>
Chain of Custody				· · · · · ·	
1. Custody seals intact on sample bottles?		Yes []	No [Not Present	T _e . *
2. Is Chain of Custody complete?		Yes	No [Not Present	
3. How was the sample delivered?		Courier			
Log In			X .		
		Yes M	No []	NA [
Was an attempt made to cool the samples?		168 (1	. NO.L.J	NO L.	
5. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes 🧖	No [_]	NA [_]	
		130 877			
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 pre-	served?	Yes 🕷	No [
9. Was preservative added to bottles?		Yes [No 🕍	NA L	
10.VOA vials have zero headspace?		Yes []	No [No VOA Vials	
11, Were any sample containers received broken?		Yes	No 🖃	# of preserved	
40		. ize		bottles checked for pH:	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	i i jeri i	Yes 🧖	No L		or >12 unless noted)
13. Are matrices correctly identified on Chain of Custo	ody?	Yes	No [_]	Adjusted?	
14. is it clear what analyses were requested?		Yes 🙀	No []		
15. Were all holding times able to be met?		Yes	No .	Checked by	
(If no, notify customer for authorization.)			: 1		
Special Handling (if applicable)					
Special Handling (if applicable)					:
16. Was client notified of all discrepancies with this or	der?	Yes I	No L.	NA 🐙	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone [] =ax	in Person	
Regarding:		Administrative description of the second		79,000 p. 19,12 - 1911 A. Blinds - 1911 B. C. C. P	
Client Instructions:					
17. Additional remarks:				κ.	
18. <u>Cooler Information</u>				·.	
Cooler No Temp °C Condition Seal Int	act Seel No S	Seal Date	Signed By	1	
1 4.7 Good Yes		في خدروه		1 1	

C	hain	-of-Cu	istody Record	Turn-Around	i ime:	Same	Day	١.							NI N	TE	20	D.I.D.	4 151	AIT	AL	
ient:	WFS			☐ Standard	Rush	Same 9-19.	76			H.											R	
				Project Name	e:												tal.co		127		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ailing	Address	: 188	CR 4900	TOUNK	7 - F				40	n4 LJ									100			
		,,,,	CK 4110	TRUNK Project #:	,		3.											M 87				
	w. ~~ (- / 2)	- 1/007	1					16	91. 50	5-34	15-3					uest	-4107				
			- 4807 Hannan @ williams. W	- Project Mana	agor:				\$	<u> </u>						Req	uest					
	Package:	71 CAGEI +	HANNGN D WILLIAMS . CO	a Project Maria	iger.			21)	TPH (Gas only)	DRO / MRO)					207	3,8						
	dard		☐ Level 4 (Full Validation)	a le la	el Hea	JAIC AL		(80	Gas	70			SIMS)		Š,	PCE						
	itation			Sampler: Ma	el Han loggen Ki A Yes	11:00		TMB's (8021)	Ĭ,	R		_	_		02,6	382						
NEL	AP	□ Othe	er	On Ice:	A Yes	□ No	And the second s	#	#	õ	18.1	4.7	8270		N,E	/ 8(8				N N
EDD	(Type)			Sample Tem	perature. 4	Projection.		#	BE.	9	4 b	d 5	oc	tals	N,	ides	7	9			1	ک
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
1/6	1/30	50:1	TRK-F EGS+ Wall	1-402	Cool	-/	71	~		Ż					_	- W		<u> </u>	\top	\top	+	+
110	17.50	30/1	EGS+ Wall	1-400	0001												\vdash	\vdash	\dashv	+	+	+
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ite:	Time:	Relinquish	ed by: Killion	Received by:	Valt	Date 9/14/10	Time /400	Ren	nark	s:												
ite:	Time:	Relinguish	ed by:	Received by:	X c	9171	Time	7														
		samples sub	mitted to Hall Environmental may be subd	contracted to other a	credited laboratorie	es. This serves	as notice of this	s possi	bility.	Any su	ib-conf	tracted	d data	will be	clear	ly nota	ited on	the ar	nalytica'	report		

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

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

Release Notification	on and Corrective Action											
	OPERATOR Initial Re	eport										
Name of Company Williams Four Corners LLC	Contact Kijun Hong											
Address 1755 Arroyo Dr., Bloomfield, NM 87413	Telephone No. 505-632-4475											
Facility Name 31-6 CDP	Facility Type Compressor Station											
Surface Owner BLM Mineral Owne	API No.											
LOCATIO	ON OF RELEASE											
Unit Letter Section Township Range 6W Feet from the Nor		ounty o Arriba										
	92 Longitude -107.42001											
	E OF RELEASE											
Type of Release Natural Gas	Volume of Release Volume F	Recovered 0 MCF										
Source of Release Facility inlet flange.		Hour of Discovery 6, 11:00 AM MST										
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Require	If YES, To Whom? d Cory Smith was notified via telephone											
By Whom? Kijun Hong Date and Hour 12/7/2016, 2:56 PM												
Was a Watercourse Reached? Date and Hour 12/7/2016, 2:56 PM If YES, Volume Impacting the Watercourse.												
was a watercourse Reached? ☐ Yes ☒ No N/A												
If a Watercourse was Impacted, Describe Fully.*												
N/A	OIL COL	NS. DIV DIST. 3										
Describe Cause of Problem and Remedial Action Taken.*		VS. DIV DIST O										
Flange gasket froze and failed causing a leak.	DEC	15 20										
Describe Area Affected and Cleanup Action Taken.*		2016										
No cleanup required as gas was released to atmosphere.												
I hereby certify that the information given above is true and complete to	the best of my knowledge and understand that pursuant	to NMOCD rules and										
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by	the NMOCD marked as "Final Report" does not relieve t	the operator of liability										
should their operations have failed to adequately investigate and remed	ate contamination that pose a threat to ground water, sur	face water, human health										
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	does not relieve the operator of responsibility for compl	liance with any other										
21,00	OIL CONSERVATION DIV	VISION										
Signature:	Approved by Environmental Specialist:											
Printed Name: Kijun Hong	Approved by Environmental Specialist.											
Title: Environmental Specialist	Approval Date: Land Expiration Date:											
E-mail Address: Kijun.Hong@williams.com	Conditions of Approval:	ttached										
E-mail Address: Kijun.Hong@williams.com Conditions of Approval: Date: 12/12/0216 Phone: 505-632-4475 Conditions of Approval: Attached □												

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA	ГOR	\boxtimes	Initia	l Report	\boxtimes	Final Report		
Name of Co	mpany W	illiams Fou	r Corne	rs LLC	Contact Kijun Hong Telephone No. 505-632-4475									
Address 1	755 Arro	yo Dr., Bloo	mfield, l	NM 87413	Т	Telephone N	No. 505-632-44	75						
Facility Nan	ne 31-6 C	DP			F	Facility Typ	e Compressor	Station						
Surface Own	ner BLM			Mineral O	wner			AI	PI No					
				LOCA	TION	OF REI	EASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West I	Line	County				
N	1	30N	6W							Rio Arrib	a			
				Latitude 36	.83592	Longitude	-107.42001							
				NAT	URE (OF RELI	EASE							
Type of Relea	se Natura	al Gas				Volume of	Release		Volu	me Recover	ed 0 N	ACF		
							F Natural Gas							
Source of Rel	ease Facili	ity Pressure S	Safety Va	lve (PSV)	Î		our of Occurrence	I		and Hour of 9/2016, 12:5				
Was Immedia	te Notice C	Given?				If YES, To	, 03:00 AM MST Whom?		11/25	9/2010, 12:5	o PIVI	WIST		
was minicula	ito riotico C		Yes	No Not Re	quired	Cory Smit								
By Whom?						Date and H	our 11/29/2016,	3:35 PM						
Was a Watercourse Reached? ☐ Yes ☒ No ☐ Date and Hour 11/29/2016, 3:35 PM If YES, Volume Impacting the Watercourse N/A OIL CONS. DIV DIST. 3												ST. 3		
If a Watercou	rse was Imp	pacted, Descri	ibe Fully.	k										
										DEC 15	2016			
N/A Describe Cau	C D 1-1	I D	J: 1 A -4:	. T-1 *										
Downstream	facility wa	s shut in cau	sing pres	sure buildup alon soil impacted.	g the pi	peline. This	caused the PSV	to activate a	as desi	igned, relea	sing n	atural gas to		
Describe Area	Affected a	and Cleanup A	Action Tak	ten.*										
No soil was in	mpacted.													
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.										ndanger Tliability man health				
	-	1/2/	12				OIL CONS	SERVAT)	ION	DIVISIO	N			
Signature:		70 1	01		A	Approved by	Environmental Sp	pecialist:		4				
Printed Name	: Kijun H	ong)Oc	SAL	1			
Title: Enviro	onmental S	Specialist			A	Approval Dat	e: 11 (120)	Expira	ation I	Date:				
E-mail Addre	ss: Kijun.F	Hong@willian	ns.com			Conditions of	Approval:			Attached				
Date: 12/1	12/2016		Phor	ne: 505-632-4475		NVF	1700639	ma						

^{*} Attach Additional Sheets If Necessary

District I
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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							
		illiams Four	Corners	LLC		Contact Mitch Morris							
	1755 Arroy					Telephone No. 505-632-4708							
Facility Na	me Trunk	S Pipeline				Facility Type Pipeline							
Surface Ow	ner Jicari	la Apache N	lation	Mineral C)wner				API No				
				LOCA	TIO	N OF REI	EASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	West Line	County			
В	19	26N	3W							Rio Arriba	a		
Latitude 36.477777° N Longitude -107.1833333° W													
NATURE OF RELEASE													
Type of Rele	ase Natura	l Gas/Produce	ed Water	_		A ADMINISTRATION	Release 42461.82	2	Volume F	Recovered (MCF/	200 gallons	
Source of Re	Source of Release Pipeline break						gallons lour of Occurrenc	e e	Date and	Hour of Dis	coverv		
						09/14/2016	, 9:15 AM MST		09/14/201	6, 9:15 AM			
Was Immedi	ate Notice (Vac 🗆	No Not Re	anirad	If YES, To	Whom? Cory Sn	nith via	Telephone	voicemail			
D W/l 0	Mark Mari		ies L	NO LI NOI KE	equired	D. t III	00/14/2016	1.12					
By Whom? Was a Water						If YES, Vo	lour 09/14/2016 2	the Wate	ercourse				
			Yes 🛛	No		N/A	lume Impacting t	0	LCONS	DIV DIS	T. 3		
If a Waterco	urse was Im	pacted, Descri	ibe Fully.*						007	1 0 2010			
27/4	OCT 1 3 2016												
N/A Describe Car	ise of Proble	em and Remed	dial Action	Taken *									
Describe Are Repair of the facility. Ren	d repairs are a Affected a pipeline is nediation co 1 Update, 1	e planned for (and Cleanup A scheduled for nfirmation san	09/21/2010 Action Tak 09/21/201 nples were		er impa	cted soil has be sent to a lab	een excavated an	d will be	e disposed	of at an app	roved N	NMOCD	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								ndanger `liability man health					
							OIL CON	SERV	ATION	DIVISIO	<u>N</u>		
Mitch Morris Appro Signature: Printed Name: Mitch Morris						Approved by Environmental Specialist:							
					1								
Title: Environmental Specialist A					Approval Date: Expiration Date:								
E-mail Addre	ess: Mitch.l	Morris@willia	ms.com			Conditions of	Approval:			Attached			
Date:	10/07/2016		Pl	none: 505-632-470	08	MIFI	626539	7602	8		_		
	Attach Additional Sheets If Necessary												



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

September 23, 2016

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

FAX

RE: Trunk Line S Line Leak

OrderNo.: 1609B50

Dear Mitch Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/21/2016 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 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1609B50

Date Reported: 9/23/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Trunk S Line Sidewall

Project: Trunk Line S Line Leak

Collection Date: 9/20/2016 1:40:00 PM

Lab ID: 1609B50-001

Matrix: MEOH (SOIL) Received Date: 9/21/2016 7:45:00 AM

Analyses	Result	PQL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	9/21/2016 12:00:00 PM	27625
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	9/21/2016 10:53:48 AM	27630
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/21/2016 11:56:00 AM	M37365
Surr: BFB	101	70-130	%Rec	1	9/21/2016 11:56:00 AM	M37365
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/21/2016 9:59:48 AM	27624
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/21/2016 9:59:48 AM	27624
Surr: DNOP	97.0	70-130	%Rec	1	9/21/2016 9:59:48 AM	27624
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst:	AG
Benzene	ND	0.020	mg/Kg	1	9/21/2016 11:56:00 AM	S37365
Toluene	ND	0.040	mg/Kg	1	9/21/2016 11:56:00 AM	S37365
Ethylbenzene	ND	0.040	mg/Kg	1	9/21/2016 11:56:00 AM	S37365
Xylenes, Total	ND	0.079	mg/Kg	1	9/21/2016 11:56:00 AM	S37365
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%Rec	1	9/21/2016 11:56:00 AM	S37365
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	9/21/2016 11:56:00 AM	S37365
Surr: Dibromofluoromethane	107	70-130	%Rec	1	9/21/2016 11:56:00 AM	S37365
Surr: Toluene-d8	94.9	70-130	%Rec	1	9/21/2016 11:56:00 AM	S37365

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609B50

Date Reported: 9/23/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Trunk S Line Bottom Comp

CLIENT: Williams Field Services 1609B50-002

Collection Date: 9/20/2016 1:45:00 PM

Trunk Line S Line Leak Project:

Lab ID:

Matrix: MEOH (SOIL) Received Date: 9/21/2016 7:45:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	MAB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	9/21/2016 12:00:00 PM	27625
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	9/21/2016 11:06:13 AM	27630
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst:	AG
Gasoline Range Organics (GRO)	5.8	3.4	mg/Kg	1	9/21/2016 12:24:53 PM	M37365
Surr: BFB	104	70-130	%Rec	1	9/21/2016 12:24:53 PM	M37365
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/21/2016 10:21:32 AM	27624
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/21/2016 10:21:32 AM	27624
Surr: DNOP	96.8	70-130	%Rec	1	9/21/2016 10:21:32 AM	27624
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst:	AG
Benzene	0.022	0.017	mg/Kg	1	9/21/2016 12:24:53 PM	S37365
Toluene	0.13	0.034	mg/Kg	1	9/21/2016 12:24:53 PM	S37365
Ethylbenzene	ND	0.034	mg/Kg	1	9/21/2016 12:24:53 PM	S37365
Xylenes, Total	0.36	0.068	mg/Kg	1	9/21/2016 12:24:53 PM	S37365
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	9/21/2016 12:24:53 PM	S37365
Surr: 4-Bromofluorobenzene	87.8	70-130	%Rec	1	9/21/2016 12:24:53 PM	S37365
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/21/2016 12:24:53 PM	S37365
Surr: Toluene-d8	94.4	70-130	%Rec	1	9/21/2016 12:24:53 PM	S37365

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 Page 2 of 7 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1609B50

23-Sep-16

Client:

Williams Field Services

Project:

Trunk Line S Line Leak

Sample ID MB-27630

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

9/21/2016

9/21/2016

Batch ID: 27630 Analysis Date: 9/21/2016

1.5

RunNo: 37376 SeqNo: 1161518

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result PQL ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

%RPD

Sample ID LCS-27630

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 27630

RunNo: 37376

Units: mg/Kg

Page 3 of 7

Analyte

Analysis Date: 9/21/2016

SeqNo: 1161520

HighLimit

RPDLimit

Qual

Chloride

Prep Date:

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

15.00

95.1

110

14

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

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

E Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609B50

23-Sep-16

Client:

Williams Field Services

Project:

Trunk Line S Line Leak

Sample ID MB-27625

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

PBS

Batch ID: 27625

RunNo: 37367

Prep Date: 9/21/2016

Analysis Date: 9/21/2016

SeqNo: 1160961

Units: mg/Kg

Analyte Petroleum Hydrocarbons, TR Result ND SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Sample ID LCS-27625

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

9/21/2016

Batch ID: 27625

RunNo: 37367

SeqNo: 1160962

80.7

Units: mg/Kg

Analyte Petroleum Hydrocarbons, TR Result 110

Analysis Date: 9/21/2016 PQL

20

SPK value SPK Ref Val %REC

LowLimit

HighLimit 121 %RPD **RPDLimit** Qual

Prep Date:

SampType: LCSD

100.0

TestCode: EPA Method 418.1: TPH

109

Client ID: LCSS02 Prep Date: 9/21/2016

Sample ID LCSD-27625

Batch ID: 27625 Analysis Date: 9/21/2016

PQL

20

RunNo: 37367 SeqNo: 1160963

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Petroleum Hydrocarbons, TR 110

SPK value SPK Ref Val %REC

100.0

LowLimit

%RPD 1.26

Oualifiers:

R

Value exceeds Maximum Contaminant Level.

RPD outside accepted recovery limits

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

S % 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 4 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1609B50 23-Sep-16

Client:

Williams Field Services

Project: Trunk L	ine S Line Leak		
Sample ID LCS-27624	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 27624	RunNo: 37357	
Prep Date: 9/21/2016	Analysis Date: 9/21/2016	SeqNo: 1160681 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	47 10 50.00	0 94.0 62.6 124	
Surr: DNOP	4.7 5.000	93.9 70 130	
Sample ID MB-27624	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 27624	RunNo: 37357	
Prep Date: 9/21/2016	Analysis Date: 9/21/2016	SeqNo: 1160682 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	9.8 10.00	98.0 70 130	
Sample ID LCS-27605	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 27605	RunNo: 37357	
Prep Date: 9/20/2016	Analysis Date: 9/21/2016	SeqNo: 1161362 Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	4.3 5.000	86.9 70 130	
Sample ID MB-27605	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 27605	RunNo: 37357	
Prep Date: 9/20/2016	Analysis Date: 9/21/2016	SeqNo: 1161363 Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	9.5 10.00	94.9 70 130	

Qualifiers:

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 B Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

0.50

0.49

0.50

0.49

0.5000

0.5000

0.5000

0.5000

WO#:

1609B50

23-Sep-16

Client:

Williams Field Services

Project:

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Trunk Line S Line Leak

Sample ID 100ng Ics	ID 100ng Ics SampType: LCS				TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: LCSS	Batcl	n ID: S3	7365	F	RunNo: 37365					
Prep Date:	Analysis D	ate: 9/	21/2016	8	SeqNo: 1	160917	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	0.93	0.050	1.000	0	92.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.7	70	130			
Surr: Toluene-d8	0.49		0.5000		98.0	70	130			
Sample ID rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: S3	7365	F	RunNo: 3	7365				
Prep Date:	Analysis D	ate: 9/	21/2016	8	SeqNo: 1	160918	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								

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

70

70

70

70

130

130

130

130

100

98.1

99.6

97.5

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1609B50

23-Sep-16

Client:

Williams Field Services

Project:

Trunk Line S Line Leak

Sample ID 2.5ug gro lcs

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID:

LCSS

Batch ID: M37365

5.0

RunNo: 37365

%REC

95.2

100

HighLimit

Prep Date:

Analysis Date: 9/21/2016

0

SeqNo: 1160923

LowLimit

LowLimit

70

62.9

70

Analyte Gasoline Range Organics (GRO) Result PQL 24 500

SPK value SPK Ref Val

25.00

500.0

500.0

Units: mg/Kg

123 130 %RPD **RPDLimit**

Qual

Surr: BFB

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

%RPD

Sample ID rb Client ID: PBS

Batch ID: M37365

RunNo: 37365

Prep Date:

Surr: BFB

Analysis Date: 9/21/2016

SeqNo: 1160924

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Gasoline Range Organics (GRO) Result PQL ND 5.0 490

SPK value SPK Ref Val %REC

97.3

130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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

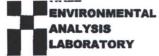
Value above quantitation range

I 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 7



4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI V	Vork Order Number:	1609B50	7.4.	RcptNo:	1
Received by/date:	1/21/16				
Logged By: Lindsay Mangin 9/2	1/2016 7:45:00 AM		July Hage		
	1/2016 8:30:42 AM		Annie Hages	•	
Reviewed By:	0/2/1/	e	000		
Chain of Custody					
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			
Log In					
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 pr	eserved?	Yes 🗸	No \square		
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 bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No L	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain of Cus	tody?	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:	
(in the first of decision of decisions)					
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 II	ntact Seal No S	Seal Date	Signed By	1	
1 1.8 Good Yes					

Chain-of-Custody Record Turn-A					Time:	5 ancday	100		10					NIV	TE	20	NIP	AE	NT	ΑI	
Client:	W	=5		□ Standard Project Name	Rush	sancday g=21-16 chcak				P	N	AL	YS	SIS	S L	AE	30			RY	•
/lailing	Address	: 185	3 CR4900	TRUNK	V & 151	le 1 - 2 K		100	71 LI			v.hal √=					om M 87	7100			
BI	oom	Fic.	1 Nm 87413	Project #:	C 3. pa/o	Cherk									-		-4107				
			32-4708				48	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
mail o	r Fax#: //	nitch.	Marris Quillions G	Project Mana	iger:	-		(yl	ĝ) ₄)					T		
)A/QC	Package:						TMB's (8021)	38 01	M.			3		,S(PCB's						
☐ Standard ☐ Level 4 (Full Validation)			☐ Level 4 (Full Validation)	1111911111					DRO / MRO)			SIMS)		2,PC							
	NELAP Other			Sampler: Mog No Kill, GN				ם	3/0	418.1)	4.1)	8270		8	808						Ê
	(Type)		-	Sample Tem	perature:		点	3E +	(GR	d 41	d 50	ō	als	Ŋ,	des ,		VOA	B			√
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE+	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO /	TPH (Method	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chlorida			Air Bubbles (Y or N)
10/16	1.40	soil	TRUNK 5 LINE	1-402	Cool	-001	7		X	$\dot{\lambda}$	_				- 50		- C	×	\top	\top	+
0/16		50,1	TRUNK 5 LINE SIDEWALL TRUNKS LINE BOHOM CONF.	1-462	Cool	-207	Z		X	X								X	\top	-	\top
415					600																\top
																					\top
																			\top	+	1
-																			\top	\top	
															2						
				~																	
ate: 20/16	Time: 16/5	Relinquish	ed by:	Received by:	Last	Date Time 9/21/14 1615	Rer	narks	3:												×
ate:	Time: 2014/	Relinquis	ed by:	Received by:	* A	Date Time	5	-		*	8										
!	f necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratori	es. This serves as notice of this	s possi	bility.	Any sı	ub-con	tracte	d data	will be	e clear	ly nota	ated or	the a	nalytica	l report		

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

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

						,				THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			
Release Notification and Corrective Action													
						OPERA	ГOR		Initi	al Report	\bowtie	Final Repor	
Name of Co	ompany W	Villiams Fou	r Corners	LLC		Contact	Michael Hann	nan, PE					
		yo Dr., Bloo				Telephone No. 505-632-4807							
							e Compressor		1				
Surface Ow	ner BLM			Mineral (Owner				API No),			
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the	Feet from the North/South Line			East/\	West Line	County			
K	32	30N	9W							San Juan			
	Latitude 36.767392 N Longitude -107.804754 W												
NATURE OF RELEASE													
Type of Rele	ase Conde	ensate					Release 10 bbls		Volume I	Recovered	0 bbls		
Source of Re	elease Stora	ige vessel				Date and I	Hour of Occurrence	e	Date and	Hour of Dis	covery	r	
						Estimated	4/6/2016 4:30 PM	1 MT	Estimated	14/6/2016 5	:00 PM	1 MT	
Was Immedi	ate Notice (If YES, To Whom?							
☐ Yes ☐ No ☒ Not Required													
By Whom? Date and Hour													
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.													
			Yes 🛛	No									
If a Watercon	urse was Im	pacted, Descr	ibe Fully	*					OIL C	ONS. DIV	1		
If a watereon	uise was iii	pacted, Desci	ioe i uny.							ONO. DIV	DIS	T. 3	
Not applicab	le												
									N	OV 1 0 2	2016		
		em and Reme											
On 4/6/16 in	the morning	g, Williams' e	mployees	were pigging thre	ee 10" l	lines that feed	Blanco Compress	or Statio	on. By 4:00	pm all of th	e pigg	ing was	
							nks was overflowi						
							n tank 4246 to 424 elp prevent a futur			irom overno	owing.	A root cause	
alialysis was	conducted	and several re	suiting act	ion items have be	en nnp	definement to he	op prevent a futui	e 1e-0cc	differee.				
Describe Are	a Affected	and Cleanup	Action Tal	cen.*									
					area ar	ound the tanks	. During excavation	on of im	pacted soil	, evidence o	f histor	rical	
contaminatio	n was obser	rved. It was de	etermined	that a larger proje	ect wou	ld ensue for w	hich detailed plan	ning wo	ould be requ	aired. This e	ventua	lly included	
	contamination was observed. It was determined that a larger project would ensue for which detailed planning would be required. This eventually included moving one condensate tank out of the primary secondary containment and into a new temporary secondary containment. Renewed excavation work began												
on Friday October 21, 2016, and continued through Friday October 28, 2016, upon which time samples were collected and sent for laboratory analyses.													
The laboratory results were received on Monday October 31, 2016, and are attached. The remediation site's risk ranking is 10, based on the NMOCD's Guidelines for Remediation of Leaks, Spills and Releases (dated August 13, 1993). See attached for the siting criteria and documentation of the risk													
Guidelines fo	or Remediat	ion of Leaks,	Spills and	Releases (dated a	August	13, 1993). See	attached for the	siting cr	iteria and d	locumentatio	on of th	ie risk	
				the remediation a			knowledge and u	n donatos	nd that muse	went to NIM	OCD #	nulas and	
							nd perform correct						
							arked as "Final R						
	should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other												

* Attach Additional Sheets If Necessary

federal, state, or local laws and/or regulations.



SITING CRITERIA SUMMARY INFORMATION SHEET 19.15.17.10 NMAC



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Site Name:

Blanco Compressor Station

Pit Identifier:

Operator:

Williams Four Corners LLC

Date

4/27/2015

Prepared by: LT Environmental, Inc.

GENERAL SITE LOCATION INFORMATION

BGT 1

Geologic Formation: Nacimiento

SEC:

32

TWN: T30N

RNG: R6W

Soil Type:

Haplargids-Blackston-Torriorthents cc Latitude: 36.766607

Longitude: -107.804546

Annual Precipitation: Bloomfield 8.71"

GENERAL SITING CRITERIA

Is groundwater less than 25 feet below the bottom of below grade tank? - No

See Figure 3 and attached iWaters Data

BELOW GRADE TANK SITING CRITERIA

Within 100 feet of a continuously flowing watercourse? - No

See Figure 1

The San Juan River is 1.52 miles to the south

Within 100 feet of a significant watercourse? - No

See Figure 1 and Figure 3

A first order tributary of the San Juan River is 732 feet to the southwest

Within 100 feet of a lakebed, playa lake, or sinkhole? - No

N/A

See Figure 2

Within 200 horizontal feet of a spring or a freshwater well used for

public or livestock consumption? - No

See Figure 3 and attached iWaters data

The closest water well (SJ 03118) is located approximately 3,381 feet southeast of the below-grade tank. Water well SJ 03490 is located 4,472 feet southeast of the below-grade tank.

ATTACHED DOCUMENTS:

Hydrogeologic Report

Figure 1: Topographic Map

Figure 2: Aerial Photograph

Figure 3: Water Well and Surface Water Features

iWaters Data

ADDITIONAL (COMMENTS	:
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2243 Main Avenue, Suite 3 Durango, Colorado 81301 T 970.385.1096 / F 970.385.1873

Blanco Compressor Station Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The below-grade tank is located in Mansfield Canyon, northeast of Blanco, New Mexico. The Nacimiento Formation of Tertiary age is exposed, along with Quaternary alluvial and aeolian sands within dry washes and arroyos.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits, serve as the primary aquifers in the San Juan Basin. In most of the area, the Nacimiento Formation lies at the surface. Thickness of the Nacimiento ranges from 418 feet to 2,232 feet, aquifers within the coarser and continuous sandstone bodies are between 0 feet and 1,000 feet deep in this section of the San Juan Basin (Stone et al., 1983). Groundwater within these aquifers flows toward the nearby San Juan River and its tributaries.

The prominent soil type at the below-ground grade tank are entisols, which are defined as soils that do not show any profile development. Soils are basically unaltered from their parent rock. Miles of arroyos, washes, and intermittent streams exist as part of the drainage network toward the San Juan River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes soils that cover the area.

Dry and arid weather further prohibit active recharge. The climate of the region is arid, averaging just over 8.71 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu). The predominant vegetation are sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site-Specific Hydrogeology

Depth to groundwater is estimated to be greater than 100 feet beneath the bottom of the below-grade tank. This estimation is based on data from Stone et al. (1983), the United States Geological Survey (USGS) *Groundwater Atlas of the United States*. Additionally, local



topography and proximity to surface hydrologic features are taken into consideration. When available, permitted water well logs and cathodic protection well logs are referenced to infer depth to groundwater near the site.

Local aquifers include sandstones within the Nacimiento Formation, which range from 0 feet to 1,000 feet below ground surface in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1,000-foot depth range for Nacimiento aquifers covers an area greater than 20 miles wide in the central San Juan Basin and depth decreases toward the margins of the San Juan Basin.

The below-grade tank is located next to Manfield Canyon where it empties into the San Juan River. Regional topography is composed of mesas dissected by narrow canyons and arroyos. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries composed of alluvium are evident on the attached aerial image. The below-grade tank is located on a sandstone mesa at an elevation of approximately 5,766 feet and 1.42 miles north of the San Juan River.

Groundwater data available from the New Mexico State Engineer's iWaters database for wells near the below-grade tank are attached. Groundwater data are sparse in this region; the nearest iWaters data point is well number SJ 03490 located within Mansfield Canyon and greater than 0.75 miles to the southeast. Depth to groundwater in the permitted water well is 20 feet below ground surface. An elevation difference between the well and the below-ground tank of approximately 115 feet and the elevation difference between the below-grade tank and the San Juan River of approximately 200 feet suggests that depth to groundwater is greater than 100 feet below the bottom of the below-grade tank.

References

Dane, C.H. and G. O.Bachman, 1965, *Geologic Map of New Mexico*: U.S. Geological Survey, 1 sheet, scale 1:500,000.

Dick-Peddie, W.A., 1993, *New Mexico Vegetation – Past, Present and Future*: Albuquerque, New Mexico, University of New Mexico Press, 244 p.

Stone, W.J., F.P. Lyford, P.F. Frenzel, N.H. Mizell, and E.T. Padgett, 1983, *Hydrogeology and Water Resources of the San Juan Basin, New Mexico*: HR-6 New Mexico Bureau of Geology and Mineral Resources Hydrology Report 6.

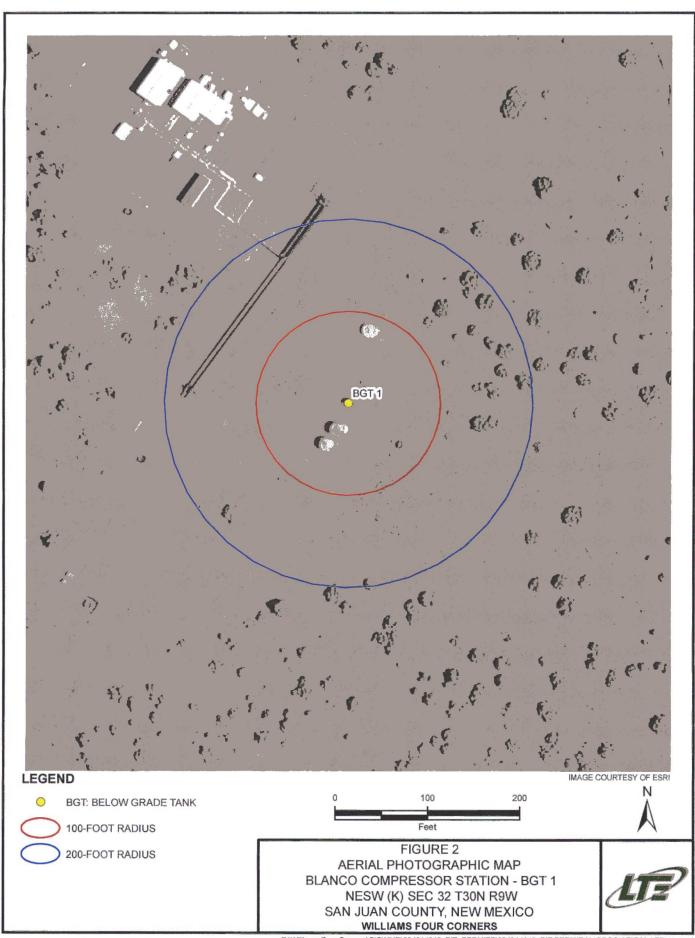


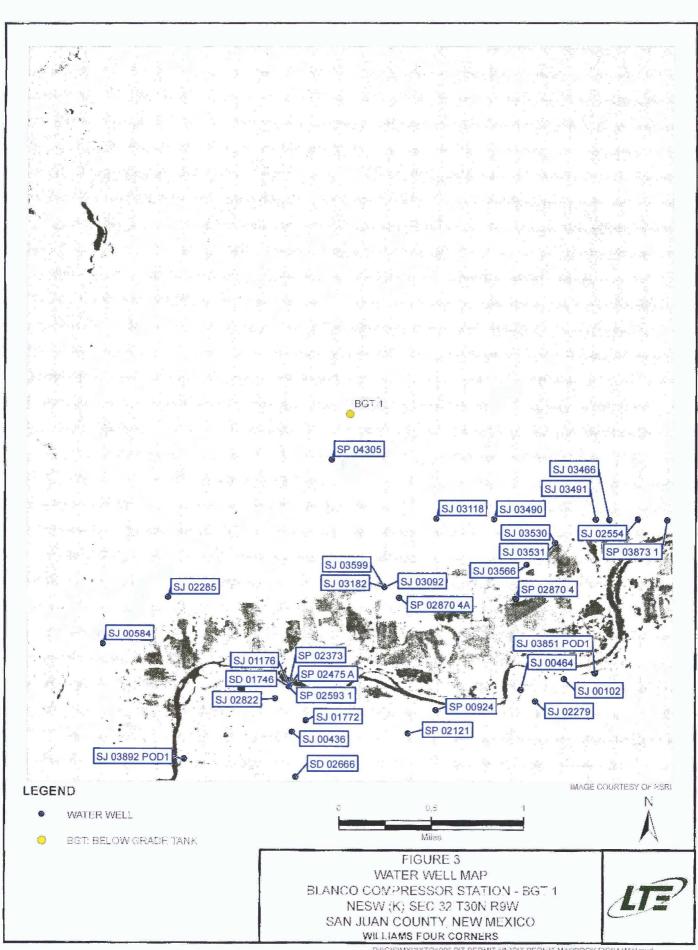
USGS, <u>Groundwater Atlas of the United States</u>: Arizona, Colorado, New Mexico, Utah, HA 730-C: (http://www.pubs.usgs.gov).

Western Region Climate Center, 2008, New Mexico climate summaries: Desert Research Institute at http://www.wrcc.dri.edu/summary/climsmnm.html.

New Mexico Energy, Minerals and Natural Resources Department, www.emnrd.state.nm.us.









New Mexico Office of the State Engineer **Wells with Well Log Information**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right

file.)

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

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

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

(in feet)

	0.0000)	(4) ((/
	POD	q q q		Log File Depth	Depth License
POD Number	Code Subbasin County	Source 6416 4 Sec Tws Rng	X Y Start D	ate Finish Date Date Well	Water Driller Number
SJ 02554	SJ	Shallow 4 1 2 04 29N 09W	251664 4071674* 6 10/10/1	976 10/12/1976 03/24/1995 13	5 SELF
SJ 03092	SJ	Shallow 1 1 4 05 29N 09W	249875 4071132* 07/03/2	001 07/03/2001 07/19/2001 40	16 HARGIS, BILL 1508
SJ 03182	SJ	Shallow 1 1 4 05 29N 09W	249875 4071132* 09/21/2	002 09/23/2002 09/29/2002 42	18 717
SJ 03466	SJ	Shallow 3 1 2 04 29N 09W	251464 4071674* 05/28/2	004 05/31/2004 06/07/2004 40	799
SJ 03490	SJ	Shallow 3 1 1 04 29N 09W	250658 4071702* 02/10/2	005 02/10/2005 02/18/2005 42	20 1479
SJ 03491	SJ	Shallow 3 1 2 04 29N 09W	251370 4071680	02/19/2010 54	CHIVERS
SJ 03599	SJ	Shallow 1 1 4 05 29N 09W	249875 4071132* 04/22/2	005 04/22/2005 05/02/2005 42	20 GILES, DEE III 1479

Record Count: 7

PLSS Search:

Section(s): 4, 5

Township: 29N

Range: 09W

*UTM location was derived from PLSS - see Help

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

Ranking Score Determination	
Site Name Blano CS	
Legal (Unit, Sec, Twn, Rng)	T30N R6W
GPS Coordinates 36.766607	-107.804546

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

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

Notes: LTE report >100 feet

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

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

Notes: LTE report no sources with 1,000 ft

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

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

Notes: LTE report 732 feet to lot order tributury

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

Remediation Action Levels

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

Ranking Completed by (print and sign) Matt Webre

Date 10(31/16

Sources:

GPS Conversion Tool

<u>New Mexico Water Rights Reporting System</u> – Water Column/Average Depth to Water Report <u>New Mexico Oil and Gas Map</u>



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

October 31, 2016

Mike Hannan Williams Field Services 188 Co. Rd 4900 Bloomfield, NM 87413 TEL: FAX

RE: Blanco Tanks

OrderNo.: 1610E03

Dear Mike Hannan:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/28/2016 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 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

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: Bottom Comp

Project:

Blanco Tanks

Collection Date: 10/27/2016 2:00:00 PM

Lab ID: 1610E03-001

Matrix: SOIL

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 10:32:01 A	M 28354
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	18	9.2	mg/Kg	1	10/28/2016 9:57:26 AM	A 28348
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/28/2016 9:57:26 AM	A 28348
Surr: DNOP	90.8	70-130	%Rec	1	10/28/2016 9:57:26 AM	A 28348
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	260	38	mg/Kg	10	10/28/2016 12:38:49 F	M 28328
Surr: BFB	115	68.3-144	%Rec	10	10/28/2016 12:38:49 F	M 28328
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	0.19	0.19	mg/Kg	10	10/28/2016 12:38:49 F	M 28328
Toluene	2.8	0.38	mg/Kg	10	10/28/2016 12:38:49 F	M 28328
Ethylbenzene	0.62	0.38	mg/Kg	10	10/28/2016 12:38:49 F	M 28328
Xylenes, Total	7.8	0.75	mg/Kg	10	10/28/2016 12:38:49 F	M 28328
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	10	10/28/2016 12:38:49 P	M 28328

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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 15 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: South Wall E- End

Project: Blanco Tanks Collection Date: 10/27/2016 2:05:00 PM

Lab ID: 1610E03-002 Matrix: SOIL

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 10:44:26	AM 28354
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/28/2016 10:19:13	AM 28348
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	10/28/2016 10:19:13	AM 28348
Surr: DNOP	93.9	70-130	%Rec	1	10/28/2016 10:19:13	AM 28348
EPA METHOD 8015D: GASOLINE RAN	GE				Analy	st: NSB
Gasoline Range Organics (GRO)	16	4.0	mg/Kg	1	10/28/2016 11:51:30	AM 28328
Surr: BFB	135	68.3-144	%Rec	1	10/28/2016 11:51:30	AM 28328
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.020	mg/Kg	1	10/28/2016 11:51:30	AM 28328
Toluene	ND	0.040	mg/Kg	1	10/28/2016 11:51:30	AM 28328
Ethylbenzene	ND	0.040	mg/Kg	1	10/28/2016 11:51:30	AM 28328
Xylenes, Total	0.59	0.080	mg/Kg	1	10/28/2016 11:51:30	AM 28328
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	10/28/2016 11:51:30	AM 28328

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 2 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: South Wall W - End

Project: Blanco Tanks

Collection Date: 10/27/2016 2:10:00 PM

1610E03-003 Lab ID:

Matrix: SOIL

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Ana	lyst: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 10:56:5	1 AM 28354
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	S			Ana	lyst: TOM
Diesel Range Organics (DRO)	12	9.6	mg/Kg	1	10/28/2016 10:40:5	2 AM 28348
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/28/2016 10:40:5	2 AM 28348
Surr: DNOP	94.4	70-130	%Rec	1	10/28/2016 10:40:5	2 AM 28348
EPA METHOD 8015D: GASOLINE RA	NGE				Ana	lyst: NSB
Gasoline Range Organics (GRO)	8.3	4.0	mg/Kg	1	10/28/2016 12:15:1:	2 PM 28328
Surr: BFB	136	68.3-144	%Rec	1	10/28/2016 12:15:1:	2 PM 28328
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.020	mg/Kg	1	10/28/2016 12:15:1:	2 PM 28328
Toluene	ND	0.040	mg/Kg	1	10/28/2016 12:15:1:	2 PM 28328
Ethylbenzene	ND	0.040	mg/Kg	1	10/28/2016 12:15:1:	2 PM 28328
Xylenes, Total	ND	0.079	mg/Kg	1	10/28/2016 12:15:1:	2 PM 28328
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	10/28/2016 12:15:13	2 PM 28328

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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: East Wall N - End

Project: Blanco Tanks

Collection Date: 10/27/2016 2:15:00 PM

Lab ID: 161

1610E03-004

Matrix: SOIL

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 11:09:16	AM 28354
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/28/2016 11:02:44	AM 28348
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/28/2016 11:02:44	AM 28348
Surr: DNOP	93.9	70-130	%Rec	1	10/28/2016 11:02:44	AM 28348
EPA METHOD 8015D: GASOLINE RAN	GE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	10/28/2016 10:22:27	AM SG38309
Surr: BFB	86.7	68.3-144	%Rec	1	10/28/2016 10:22:27	AM SG38309
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.023	mg/Kg	1	10/28/2016 10:22:27	AM SB38309
Toluene	ND	0.045	mg/Kg	1	10/28/2016 10:22:27	AM SB38309
Ethylbenzene	ND	0.045	mg/Kg	1	10/28/2016 10:22:27	AM SB38309
Xylenes, Total	ND	0.090	mg/Kg	1	10/28/2016 10:22:27	AM SB38309
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	10/28/2016 10:22:27	AM SB38309

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 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Client Sample ID: East Wall S - End

Project: Blanco Tanks Collection Date: 10/27/2016 2:20:00 PM

Lab ID: 1610E03-005

Matrix: SOIL Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 11:21:40	AM 28354
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/28/2016 11:24:25	AM 28348
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/28/2016 11:24:25	AM 28348
Surr: DNOP	94.0	70-130	%Rec	1	10/28/2016 11:24:25	AM 28348
EPA METHOD 8015D: GASOLINE RAN	GE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/28/2016 11:13:44	AM SG3830
Surr: BFB	86.8	68.3-144	%Rec	1	10/28/2016 11:13:44	AM SG3830
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.023	mg/Kg	1	10/28/2016 11:13:44	AM SB38309
Toluene	ND	0.046	mg/Kg	1	10/28/2016 11:13:44	AM SB38309
Ethylbenzene	ND	0.046	mg/Kg	1	10/28/2016 11:13:44	AM SB38309
Xylenes, Total	ND	0.091	mg/Kg	1	10/28/2016 11:13:44	AM SB38309
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	10/28/2016 11:13:44	AM SB38309

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

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Blanco Tanks

Lab ID: 1610E03-006

Project:

Client Sample ID: West Wall N - End

Collection Date: 10/27/2016 2:25:00 PM

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 11:34:05	5 AM 28354
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/28/2016 11:46:20	AM 28348
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/28/2016 11:46:20	AM 28348
Surr: DNOP	93.7	70-130	%Rec	1	10/28/2016 11:46:20	AM 28348
EPA METHOD 8015D: GASOLINE RA	NGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	10/28/2016 11:38:11	AM SG3830
Surr: BFB	83.2	68.3-144	%Rec	1	10/28/2016 11:38:11	AM SG3830
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.022	mg/Kg	1	10/28/2016 11:38:11	AM SB3830
Toluene	ND	0.044	mg/Kg	1	10/28/2016 11:38:11	AM SB3830
Ethylbenzene	ND	0.044	mg/Kg	1	10/28/2016 11:38:11	AM SB3830
Xylenes, Total	ND	0.088	mg/Kg	1	10/28/2016 11:38:11	AM SB3830
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	10/28/2016 11:38:11	AM SB3830

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 6 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: Blanco Tanks

1610E03-007 Lab ID:

Client Sample ID: West Wall S - End

Collection Date: 10/27/2016 2:30:00 PM

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 11:46:30	AM 28354
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	23	9.6	mg/Kg	1	10/28/2016 12:34:08	B PM 28348
Motor Oil Range Organics (MRO)	59	48	mg/Kg	1	10/28/2016 12:34:08	3 PM 28348
Surr: DNOP	92.3	70-130	%Rec	1	10/28/2016 12:34:08	3 PM 28348
EPA METHOD 8015D: GASOLINE RA	NGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	10/28/2016 12:02:32	2 PM SG3830
Surr: BFB	103	68.3-144	%Rec	1	10/28/2016 12:02:32	PM SG3830
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.018	mg/Kg	1	10/28/2016 12:02:32	PM SB38309
Toluene	ND	0.036	mg/Kg	1	10/28/2016 12:02:32	PM SB38309
Ethylbenzene	ND	0.036	mg/Kg	1	10/28/2016 12:02:32	PM SB38309
Xylenes, Total	ND	0.073	mg/Kg	1	10/28/2016 12:02:32	PM SB38309
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	10/28/2016 12:02:32	PM SB38309

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
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: Blanco Tanks

Lab ID: 1610E03-008 Client Sample ID: North Wall E - End

Collection Date: 10/27/2016 2:35:00 PM

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 11:58:55	AM 28354
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	16	9.6	mg/Kg	1	10/28/2016 12:10:56	PM 28348
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/28/2016 12:10:56	PM 28348
Surr: DNOP	90.6	70-130	%Rec	1	10/28/2016 12:10:56	PM 28348
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	10/28/2016 11:27:52	AM 28328
Surr: BFB	96.7	68.3-144	%Rec	5	10/28/2016 11:27:52	AM 28328
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.11	mg/Kg	5	10/28/2016 11:27:52	AM 28328
Toluene	0.42	0.23	mg/Kg	5	10/28/2016 11:27:52	AM 28328
Ethylbenzene	ND	0.23	mg/Kg	5	10/28/2016 11:27:52	AM 28328
Xylenes, Total	0.97	0.45	mg/Kg	5	10/28/2016 11:27:52	AM 28328
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	5	10/28/2016 11:27:52	AM 28328

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
- % 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 8 of 15 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1610E03

Date Reported: 10/31/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services

Project: Blanco Tanks

Lab ID: 1610E03-009

Client Sample ID: North Wall W - End

Collection Date: 10/27/2016 2:40:00 PM

Received Date: 10/28/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: LGT
Chloride	ND	30	mg/Kg	20	10/28/2016 12:36:09	PM 28354
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	13	9.5	mg/Kg	1	10/28/2016 11:47:52	AM 28348
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/28/2016 11:47:52	AM 28348
Surr: DNOP	92.9	70-130	%Rec	1	10/28/2016 11:47:52	AM 28348
EPA METHOD 8015D: GASOLINE RAM	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	10/28/2016 12:26:50	PM SG3830
Surr: BFB	88.7	68.3-144	%Rec	1	10/28/2016 12:26:50	PM SG3830
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.021	mg/Kg	1	10/28/2016 12:26:50	PM SB3830
Toluene	ND	0.042	mg/Kg	1	10/28/2016 12:26:50	PM SB3830
Ethylbenzene	ND	0.042	mg/Kg	1	10/28/2016 12:26:50	PM SB3830
Xylenes, Total	ND	0.084	mg/Kg	1	10/28/2016 12:26:50	PM SB3830
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	10/28/2016 12:26:50	PM SB3830

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 9 of 15
- 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#:

1610E03 31-Oct-16

Client:

Williams Field Services

Project:

Blanco Tanks

Sample ID MB-28354

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 28354

RunNo: 38328

Prep Date: 10/28/2016 Analysis Date: 10/28/2016

PQL

SeqNo: 1196275

Units: mg/Kg

HighLimit

%RPD

RPDLimit Qual

Analyte Chloride

Client ID:

Prep Date:

ND 1.5

Sample ID LCS-28354

LCSS

10/28/2016

SampType: LCS Batch ID: 28354 TestCode: EPA Method 300.0: Anions RunNo: 38328

Analysis Date: 10/28/2016

SeqNo: 1196276

Units: mg/Kg HighLimit

%RPD

RPDLimit

Qual

Analyte

15.00

SPK value SPK Ref Val

%REC 94.2

90

Chloride

14

Result

1.5

0

SPK value SPK Ref Val %REC LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range

Analyte detected below quantitation limits

Page 10 of 15

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

4.1

4.617

WO#:

1610E03

31-Oct-16

Client:

Williams Field Services

Project: Blanco T	anks									
Sample ID LCS-28348	SampType: Lo	cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: LCSS	Batch ID: 28	3348	F	RunNo: 3	8296					
Prep Date: 10/28/2016	Analysis Date: 1	0/28/2016	5	SeqNo: 1	195205	Units: mg/k	K g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49 10	50.00	0	98.2	62.6	124				
Surr: DNOP	4.5	5.000		89.2	70	130				
Sample ID MB-28348	SampType: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: PBS	Batch ID: 28	3348	F	RunNo: 3	8296					
Prep Date: 10/28/2016	Analysis Date: 1	0/28/2016	5	SeqNo: 1	195206	Units: mg/k	(g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND 10									
Motor Oil Range Organics (MRO)	ND 50									
Surr: DNOP	9.0	10.00		89.7	70	130				
Sample ID 1610E03-001AMS	SampType: M	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: Bottom Comp	Batch ID: 28	3348	F	RunNo: 3	8296					
Prep Date: 10/28/2016	Analysis Date: 1	0/28/2016	\$	SeqNo: 1	195588	Units: mg/K	(g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	54 9.8	48.97	18.22	74.0	33.9	141				
Surr: DNOP	4.6	4.897		93.9	70	130				
Sample ID 1610E03-001AMS	D SampType: M	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: Bottom Comp	Batch ID: 28	3348	F	RunNo: 3	8296					
Prep Date: 10/28/2016	Analysis Date: 1	0/28/2016	5	SeqNo: 1	195589	Units: mg/K	(g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45 9.2	46.17	18.22	57.8	33.9	141	19.3	20		

Qualifiers:

Surr: DNOP

- * 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

89.3

130

- J Analyte detected below quantitation limits
- Page 11 of 15

- 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#:

1610E03

31-Oct-16

Client:

Williams Field Services

Duciante

Blanco Tanke

Project: Blanco	Γanks									
Sample ID MB-28328	SampTyp	oe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch II	D: 28	328	F	RunNo: 3	8308				
Prep Date: 10/27/2016	Analysis Dat	ie: 10	0/28/2016	S	SeqNo: 1	195979	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.1	68.3	144			
Sample ID LCS-28328	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch II	D: 28 3	328	F	RunNo: 3	8308				
Prep Date: 10/27/2016	Analysis Dat	e: 10	0/28/2016	S	SeqNo: 1	195980	Units: mg/k	(g		
Analyte		PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	74.6	123			
Surr: BFB	950		1000		95.1	68.3	144			
Sample ID 5ML RB	SampTyp	oe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch II	D: SG	38309	F	RunNo: 3	8309				
Prep Date:	Analysis Dat	e: 10	0/28/2016	S	SeqNo: 1	196004	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	1000		07.4	00.0	444			
Surr: BFB	870		1000		87.4	68.3	144			
Sample ID 2.5UG GRO LCS	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch II	D: SG	38309	F	RunNo: 38309					
Bron Doto:										
Prep Date:	Analysis Dat	e: 10	0/28/2016	S	SeqNo: 1	196005	Units: mg/K	(g		
Analyte		te: 10		SPK Ref Val	SeqNo: 1	196005 LowLimit	Units: mg/K	%RPD	RPDLimit	Qual
Analyte Gasoline Range Organics (GRO)	Result 28		SPK value 25.00		%REC	LowLimit 74.6	HighLimit 123	-	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	-	RPDLimit	Qual
Analyte Gasoline Range Organics (GRO)	Result 28 930	PQL 5.0	SPK value 25.00 1000	SPK Ref Val	%REC 112 92.7	74.6 68.3	HighLimit 123	%RPD		Qual
Analyte Gasoline Range Organics (GRO) Surr: BFB	Result 28 930 SampTyp	PQL 5.0 De: MS	SPK value 25.00 1000	SPK Ref Val 0	%REC 112 92.7	LowLimit 74.6 68.3 PA Method	HighLimit 123 144	%RPD		Qual
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1610E03-004AMS	Result 28 930 SampTyp	PQL 5.0 De: MS	25.00 1000	SPK Ref Val 0	%REC 112 92.7 tCode: EI	74.6 68.3 PA Method 8309	HighLimit 123 144	%RPD		Qual
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1610E03-004AMS Client ID: East Wall N - End	Result 28 930 S SampTyp d Batch II Analysis Dat	PQL 5.0 De: MS D: SG de: 10	SPK value 25.00 1000 6 6 638309 0/28/2016 SPK value	SPK Ref Val 0 Tes: F S SPK Ref Val	%REC 112 92.7 Code: El RunNo: 3: SeqNo: 1: %REC	74.6 68.3 PA Method 8309 196006 LowLimit	HighLimit 123 144 8015D: Gasc Units: mg/k	%RPD		Qual
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1610E03-004AMS Client ID: East Wall N - End Prep Date: Analyte Gasoline Range Organics (GRO)	Result 28 930 S SampTyp d Batch II Analysis Dat Result 29	PQL 5.0 De: MS De: SG de: 10	SPK value 25.00 1000 6 638309 0/28/2016 SPK value 25.00	SPK Ref Val 0	%REC 112 92.7 Code: El RunNo: 3 SeqNo: 1 %REC 115	74.6 68.3 PA Method 8309 196006 LowLimit 61.3	HighLimit 123 144 8015D: Gasc Units: mg/k HighLimit 150	%RPD	е	
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1610E03-004AMS Client ID: East Wall N - End Prep Date: Analyte	Result 28 930 S SampTyp d Batch II Analysis Dat	PQL 5.0 De: MS D: SG de: 10	SPK value 25.00 1000 6 6 638309 0/28/2016 SPK value	SPK Ref Val 0 Tes: F S SPK Ref Val	%REC 112 92.7 Code: El RunNo: 3: SeqNo: 1: %REC	74.6 68.3 PA Method 8309 196006 LowLimit	HighLimit 123 144 8015D: Gasc Units: mg/k	%RPD	е	
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1610E03-004AMS Client ID: East Wall N - End Prep Date: Analyte Gasoline Range Organics (GRO)	Result 28 930 S SampTyp d Batch II Analysis Dat Result 29 960	PQL 5.0 DE SG te: 10 PQL 5.0	SPK value 25.00 1000 6 638309 0/28/2016 SPK value 25.00 1000	SPK Ref Val 0 Tesi R S SPK Ref Val 0	%REC 112 92.7 Code: El RunNo: 3 SeqNo: 1 %REC 115 95.6	PA Method 8309 196006 LowLimit 61.3 68.3	HighLimit 123 144 8015D: Gasc Units: mg/k HighLimit 150	%RPD oline Rang (g %RPD	e RPDLimit	
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1610E03-004AMS Client ID: East Wall N - End Prep Date: Analyte Gasoline Range Organics (GRO) Surr: BFB	Result 28 930 SampTyp d Batch II Analysis Dat Result 29 960 SampTyp	PQL 5.0 DE: MS DE: SG DE: 10 PQL 5.0 DE: MS	25.00 1000 3838309 0/28/2016 SPK value 25.00 1000	SPK Ref Val 0 Tesi S SPK Ref Val 0	%REC 112 92.7 Code: El RunNo: 3 SeqNo: 1 %REC 115 95.6	LowLimit 74.6 68.3 PA Method 8309 196006 LowLimit 61.3 68.3	HighLimit 123 144 8015D: Gasc Units: mg/k HighLimit 150 144	%RPD oline Rang (g %RPD	e RPDLimit	

Qualifiers:

Analyte

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H

Result

- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

HighLimit

- Value above quantitation range
- J Analyte detected below quantitation limits

Page 12 of 15

RPDLimit

%RPD

Qual

P Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1610E03

31-Oct-16

Client:

Williams Field Services

Project:

Blanco Tanks

Sample ID	1610E03-004AMSD
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SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range

Client ID: East Wall N - End

Batch ID: SG38309

RunNo: 38309

Prep Date:

Analysis Date: 10/28/2016

SeqNo: 1196007

Units: mg/Kg

,,							-		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
28	5.0	25.00	0	111	61.3	150	3.90	20	
950		1000		94.7	68.3	144	0	0	
	28	28 5.0	28 5.0 25.00	28 5.0 25.00 0	28 5.0 25.00 0 111	28 5.0 25.00 0 111 61.3	28 5.0 25.00 0 111 61.3 150	28 5.0 25.00 0 111 61.3 150 3.90	28 5.0 25.00 0 111 61.3 150 3.90 20

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 13 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#:

Page 14 of 15

1610E03

31-Oct-16

Client:

Williams Field Services

Project.

Rlanco Tanks

Project:	Blanco T	um s														
Sample ID	MB-28328	MB-28328 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBS	Batcl	n ID: 28	328	RunNo: 38308											
Prep Date:	10/27/2016	Analysis D)ate: 10	0/28/2016	SeqNo:		195993	Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		ND	0.025													
Toluene		ND	0.050													
Ethylbenzene		ND	0.050													
Xylenes, Total		ND	0.10													
Surr: 4-Bron	nofluorobenzene	1.0		1.000		103	80	120								
Sample ID LCS-28328 SampType: LCS TestCode: EPA Method 8021B: Volatiles																
Client ID:	LCSS	Batch	n ID: 28	328	F	RunNo: 3	8308									
Prep Date:	10/27/2016	Analysis D	ate: 10	0/28/2016	S	SeqNo: 1	195994	Units: mg/K	(g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		0.96	0.025	1.000	0	96.4	75.2	115								
Toluene		0.98	0.050	1.000	0	97.9	80.7	112								
Ethylbenzene		0.98	0.050	1.000	0	97.5	78.9	117								
Xylenes, Total		2.9	0.10	3.000	0	96.8	79.2	115								
Surr: 4-Bron	nofluorobenzene	1.1		1.000		111	80	120								
		L RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles														
Sample ID	5ML RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles							
Sample ID Client ID:	5ML RB PBS		ype: ME			tCode: E		8021B: Volat	tiles							
			ID: SE	38309	R		8309	8021B: Volat								
Client ID:		Batch	ID: SE	38309 0/28/2016	R	RunNo: 3 SeqNo: 1	8309			RPDLimit	Qual					
Client ID: Prep Date:		Batch Analysis D	n ID: SB	38309 0/28/2016	F	RunNo: 3 SeqNo: 1	8309 196019	Units: mg/K	(g	RPDLimit	Qual					
Client ID: Prep Date: Analyte		Batch Analysis D Result	n ID: SB Pate: 10	38309 0/28/2016	F	RunNo: 3 SeqNo: 1	8309 196019	Units: mg/K	(g	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene		Batch Analysis D Result ND	PQL 0.025	38309 0/28/2016	F	RunNo: 3 SeqNo: 1	8309 196019	Units: mg/K	(g	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene		Batch Analysis D Result ND ND	PQL 0.025 0.050	38309 0/28/2016	F	RunNo: 3 SeqNo: 1	8309 196019	Units: mg/K	(g	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Batch Analysis D Result ND ND ND	PQL 0.025 0.050	38309 0/28/2016	F	RunNo: 3 SeqNo: 1	8309 196019	Units: mg/K	(g	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	PBS	Batch Analysis D Result ND ND ND ND ND 1.0	PQL 0.025 0.050	38309 0/28/2016 SPK value	SPK Ref Val	RunNo: 3 SeqNo: 1 %REC	8309 196019 LowLimit	Units: mg/K HighLimit	%RPD	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND ND SampT	PQL 0.025 0.050 0.050 0.10	38309 0/28/2016 SPK value	SPK Ref Val	RunNo: 3 SeqNo: 1 %REC	8309 196019 LowLimit 80	Units: mg/K HighLimit	%RPD	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND ND SampT	PQL 0.025 0.050 0.10 0.10 0.10 0.10 SB	1.000 138309	SPK Ref Val Test	RunNo: 3 SeqNo: 1 %REC 102	8309 196019 LowLimit 80 PA Method 8309	Units: mg/K HighLimit	%RPD	RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND ND SampT Batch	PQL 0.025 0.050 0.10 0.10 0.10 0.10 SB	1.000 138309	SPK Ref Val Test	RunNo: 3 SeqNo: 1 %REC 102 Code: El	8309 196019 LowLimit 80 PA Method 8309	Units: mg/K HighLimit 120 8021B: Volat	%RPD	RPDLimit RPDLimit	Qual					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date:	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND SampT Batch Analysis D	PQL 0.025 0.050 0.10 0.10 0.10 0.10 0.10 0.10 0.	1.000 S 838309 0/28/2016	SPK Ref Val Test	RunNo: 3 SeqNo: 1 %REC 102 tCode: El RunNo: 3 SeqNo: 1	8309 196019 LowLimit 80 PA Method 8309 196020	Units: mg/K HighLimit 120 8021B: Volate Units: mg/K	%RPD							
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND SampT Batch Analysis D Result	PQL 0.025 0.050 0.050 0.10 ppg LC ppg	1.000 S 38309 1.000 S 38309 0/28/2016 SPK value	Test R SPK Ref Val	RunNo: 3 SeqNo: 1 %REC 102 CCode: El RunNo: 3 SeqNo: 1 %REC	8309 196019 LowLimit 80 PA Method 8309 196020 LowLimit	Units: mg/K HighLimit 120 8021B: Volate Units: mg/K HighLimit	%RPD							
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND 1.0 SampT Batch Analysis D Result 0.88	PQL 0.025 0.050 0.10 0.10 Type: LC 1 Type: LC 1 Type: LC 1 PQL 0.025	1.000 SPK value 1.000 SS 338309 0/28/2016 SPK value 1.000	Test R SPK Ref Val SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 102 Code: El RunNo: 3 SeqNo: 1 %REC 87.6	8309 196019 LowLimit 80 PA Method 8309 196020 LowLimit 75.2	Units: mg/K HighLimit 120 8021B: Volat Units: mg/K HighLimit 115	%RPD							
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene	nofluorobenzene 100NG BTEX LCS	Batch Analysis D Result ND ND ND ND 1.0 SampT Batch Analysis D Result 0.88 0.86	PQL 0.025 0.050 0.10 SB Date: 10 PQL 0.025 0.050 0.10 PQL 0.025 0.050	1.000 SPK value 1.000 SS 338309 0/28/2016 SPK value 1.000 1.000	Test R SPK Ref Val O 0	102 tCode: El RunNo: 3 ReqNo: 1 %REC 87.6 86.0	8309 196019 LowLimit 80 PA Method 8309 196020 LowLimit 75.2 80.7	Units: mg/K HighLimit 120 8021B: Volat Units: mg/K HighLimit 115 112	%RPD							

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

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

RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1610E03

31-Oct-16

Client:

Williams Field Services

Project:

Blanco Tanks

Sample ID 1610E03-005AMS	Samp1	Гуре: М\$	3	TestCode: EPA Method 8021B: Volatiles										
Client ID: East Wall S - En	d Batcl	h ID: SE	38309	F										
Prep Date:	Analysis Date: 10/28/2016			8	SeqNo: 1	196021	Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit %RPD		RPDLimit	Qual				
Benzene	0.92	0.025	1.000	0	92.3	71.5	122							
Toluene	0.89	0.050	1.000	0	89.0	71.2	123							
Ethylbenzene	0.91	0.050	1.000	0.008783	89.9	75.2	130							
Xylenes, Total	2.8	0.10	3.000	0.02479	92.6	72.4	131							
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120							

Sample ID 1610E03-005AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: East Wall S - End Batch ID: SB38309 RunNo: 38309 Prep Date: Analysis Date: 10/28/2016 SeqNo: 1196022 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Result Qual Benzene 0.91 0.025 1.000 0 91.3 71.5 122 1.08 20 Toluene 0.87 0.050 1.000 0 20 87.1 71.2 123 2.13 Ethylbenzene 0.90 0.050 1.000 0.008783 88.7 75.2 130 1.33 20 Xylenes, Total 2.8 0.10 3.000 0.02479 91.8 72.4 131 0.935 20 Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120 0 0

Qualifiers:

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

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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: 161	0E03		RcptNo:	1
Received by/date: AT /428/16	,				
Logged By: Anne Thorne	10/28/2016 7:55:00 AM		anne Am		
Completed By: Anne Thorne	10/28/2016		an Im		
Reviewed By:	0/28/110				
Chain of Custody	7 71				
1. Custody seals intact on sample bottles?	Yes	s 🗆	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes	s 🔽	No 🗌	Not Present	
3. How was the sample delivered?	Con	<u>urler</u>			
<u>Log In</u>					
4. Was an attempt made to cool the samples?	Ye	s 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of	of >0° C to 6.0°C Yes	✓	No 🗆	NA 🗀	,
6. Sample(s) in proper container(s)?	Ye	s 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)	? Yes	₹	No 🗌		
8. Are samples (except VOA and ONG) properly	preserved? Yes	Y	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	? Ye	s \square	No 🗹	# of preserved	
				bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	V	No ∐	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain of C	Custody? Yes	· 🗸	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes	•	No 🗆		
15. Were all holding times able to be met?	Yes	₹	No 🗆	Checked by:	
(If no, notify customer for authorization.)					
Special Handling (if applicable)					
16. Was client notified of all discrepancies with the	is order? Yes		No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via: ☐ eN	Mail 🔲	Phone Fax	In Person	
Regarding:	de Service				
Client Instructions:	The state of the s				
17. Additional remarks:					
18. Cooler Information					
Cooler No Temp °C Condition Sea	al Intact Seal No Seal I	Date	Signed By		
1 1.6 Good Yes					

Chain-of-Custody Record			Turn-Around Time: Sene der 4								LA	e i	E	NV	TE	20	NI N	ЛE	NT	'AI			
lient: WFS			□ Standard □ Rush 10-28-16 Project Name:				-		_										ATC				
							www.hallenvironmental.com																
ailing	Address	: 188	CR4900	Blanco Tanks Project #:				4901 Hawkins NE - Albuquerque, NM 87109															
Bloom Fielda un 87413			Project #:					Те	l. 50	5-34	5-39	975	, F	ax :	505-	345-	410	7				_	
hone #: 505-632-4807							Analysis Request																
mail or Fax#: Micheel- HENNEN Quillian - Com			Project Mana	ger:			(8021)	only)	/ MRO)					(70	တ								
A/QC Package: I Standard			michael Hannen					9	DRO / M			SIMS)		,PO4,S	2 PCB								
ccreditation			Sampler: M	organ	Killior		A L	TPH	-	-	=			NO	/ 8082							2	
I NEL	AP (Type)	□ Othe	er	en lee:				+	+	(GRO	418	504	or 82	8	S S	es/		(AO					ō
Date	Time	Matrix	Sample Request ID	2 1028/10	Preservat Type	tive HEAL	No.	BTEX + M TB I	BTEX + MTBE	TPH 8015B (TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
7/16	2:00	56:1	Bottom conf-	1-402 Cool			-001	X		X									X				
7/16	2:00	Soil	Southwell E-End	1-402	1		202	X		X									X				
7/16	2:16	561	southwell w- ENd	1-402			703	X		X									X				
1/16	2:16	561	Eastwell N-ENd	1-402			7004	X		X									X		\top		
	2:20	401	Eastwall 5-ENd	1-462			7005	X		X									X				
27/16	2:25	501	WESTWOLL N- ENd	1-402			-00b	X		X									X				
2/27/16	2:36		WESTWALL 5-END	1-402			007	X		X									X				
127/16	2:36	50.1	Northwell EGEND	1-402			008	X		X									X				
	2:46		Northwell W- ENd	1-402	1		-009	χ	R	χ·								1	X		\perp	\Box	
							•					-								\dashv	\dashv	\dashv	-
																_					+	+	
ate:	Time: 16 00	Relinquish	ed by:	Received by: Date Time				Remarks:															
ate:	Time: Relinquis/fed by:			Received by: Date Time 10/28/16 1755																			
	If necessary	samples sub	mitted to Hall Environmental may be subc	contracted to other a	ccredited labor	ratories. This serves a	s notice of this	s possi	bility.	Any su	ib-con	tracted	data	will be	e clear	ly nota	ated on	the a	nalytic	al repor	t.		