3R-1013

Release Report/ General Correspondence

Williams SJ

Date: Jul-Sept 2014

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Form C-141

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.

1220 S. St. Frar	ıcıs Dr., Santa	i Fe, NM 87505	· · · · · · · · · · · · · · · · · · ·	Sa	anta F	e, NM 875	05								
			Rele	ase Notific	catio	n and Co	rrective A	ction	1						
						OPERA?	ГOR		☐ Initi	al Report	\boxtimes	Final Report			
Name of Co	ompany: W	'illiams Four	Corners	LLC		Contact: Jana Franchini									
Address: 18	38 CR 4900), Bloomfiel	d, NM 87	413		Telephone No.: (505) 634-4951									
Facility Na	me: Horse	Canyon CD	Ρ			Facility Type: Central delivery point (CDP)									
Surface Ow	mer: BLM			Mineral C)wner				API No	<u> </u>					
04.744		· · · · · · · · · · · · · · · · · · ·													
Unit Letter	Section	Township	Range	Feet from the		ON OF RELEASE rth/South Line Feet from the East/West Line County									
<u>A</u>	27	30N	9W					<u> </u>		San Juan					
			L	atitude <u>36.787</u>	621° N	Longitud	e <u>-107.761609°</u>	W							
				NAT	URE	OF REL	EASE								
Type of Rele	ase: Natural	gas				Volume of	Release: 58.9 MG	CF	Volume I	Recovered: (MCF	natural gas			
Source of Re	lease: Emer	gency shutdo	wn (ESD)			natural gas	lour of Occurrenc	٠٠٠	Date and	Hour of Dis	coverv				
			(6512)			1	at 02:00 PM MS			14 at 02:10 I					
Was Immedi	ate Notice C		Vec 🗆	No ⊠ Not R	aguirad	If YES, To	Whom? N/A								
By Whom?	NI/A					Date and b	Jour: N/A								
Was a Water	course Reac	hed?				Date and Hour: N/A If YES, Volume Impacting the Watercourse: N/A									
		, -	Yes 🛛	No		OIL CONS. DIV DIST. 3									
If a Waterco	urse was Imp	pacted, Descr	ibe Fully.*						Ol	L CONS. I	A AIC	151. 5			
N/A							r			AUG 1	1 20	14			
Describe Cau	use of Proble	em and Reme	dial Action	1 Taken.*	-										
to atmospher	e. Williams	' personnel fo	ound the pi	ressure adjustmer	nt on the	ESD supply	n of August 2, 20 regulator too low, ESD system was	, possib	ly the resul						
Describe Are	ea Affected	and Cleanup A	Action Tak	en.*											
No clean-u	p required fo	or natural gas	releases.												
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 f liability man health					
Signature:		-/ (U			OIL CONSERVATION DIVISION Approved by Environmental Specialist:									
Printed Nam	e: Jana Fran	chini //	 					,	" Your	M/\/	W,	X			
Title: Enviro	nmental Spe	egialist		Approval Date: 9/8/2014 Expiration Date:											
E-mail Addr	ess: jana.fra	nchini@willia	ams.com_		Conditions of Approval: Attached										

* Attach Additional Sheets If Necessary

Phone: (505) 634-4951

Date: 08/07/2014

nJK1425155424

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rie Brazos Road, Aztec, NM 87410
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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

Form C-141

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Release Notification and Corrective Action

		Keie	ase Nouncau		rrective Actio			-	
Name of Company:	Williams Four	r Corners	HC	OPERA Contact: Jar		Initi	al Report	⊠ F	inal Report
Address: 188 CR 490				 	No.: (505) 634-4951	· · · · · · · · · · · · · · · · · · ·			
Facility Name: Trun		u, 11171 .0	7415		e: Natural gas pipelin				
					gus pipeiii				
Surface Owner: BLM	1		Mineral Owne	<u>r</u>		API No).		
			LOCATION	ON OF REI	LEASE				
Unit Letter Section	Township	Range	Feet from the No	rth/South Line	Feet from the East	/West Line	County		
N . 27	29N	11W					San Juan		
		L	atitude <u>36.691326°</u>						
Type of Release: Natur	al age & matha	nol.	NATUR	E OF REL	EASE Release: 31.4 MCF	Value a I)	4CF	41 0.
Type of Release: Natur	ai gas & mema	11101			& 50 gallons (approx.)		Recovered: 0 M methanol	icr na	iturai gas &
Source of Release: Pipe		injection s	tation	Unknown	lour of Occurrence:	06/26/20	Hour of Disco 14 at 04:00 AM	1	
Was Immediate Notice		Yes 🗌	No Not Require	ed If YES, To	Whom? Mark Kelly (B	LM), Cory S	Smith (NMOCI	D), NR	.C
By Whom? Jana Franc		(Release R	eporting Contractor)		lour: 06/26/2014 at 04:2				
Was a Watercourse Rea		Yes 🗌	No	If YES, Vo	lume Impacting the Water	tercourse: 50	0 gallons metha	anol m	ixed with
If a Watercourse was Ir	npacted, Descr	ibe Fully.*							
A break in the potable container fell over. Ap water rushing from the were no impacts to sur! Describe Cause of Prob Erosion from the break MCF natural gas to atm righted and removed.	proximately 50 water line brea ace or ground value and Remeding the notable value.) gallons of ik and was water. Gro dial Action	methanol leaked out of carried down an un-natundwater is estimated Taken.*	of the container med, dry wash (to be greater that	pefore it was righted and natural erosional feature in 100 feet below the grant personal feature in 100 feet below the grant personal feature in Station on Trunk A Pir	d removed. (2) before poo	The methanol rolling-up and even	nixed vaporat	with the ing. There
Describe Area Affected	and Cleanup A	Action Tak	en.*				JUL 3 0 2	014	
					ol by Method 8260. Th such, no additional clea				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, I or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with a federal, state, or local laws and/or regulations.								ay enda or of lia c, huma	anger ability an health
Signature:					OIL CONSERY	VATION //	DIVISION		7
Printed Name Jana Fra	nchini	- A		Approved by	Environmental Speciali	st:	ne fe	<u></u>	
Title: Environmental Sp	recialist			Approval Dat	e: 9/8/14	Expiration	Date:		
E-mail Address: jana.fr	anchini@willia	ams.com		Conditions of	`Approval:		Attached [_	
Date: 07/24/2014	Ph	none: (505)	634-4951	<u> </u>					
	- Application of the second			#NCS	142513011	11	_		ハーー



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

OrderNo.: 1407309

July 23, 2014

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 486-4071 FAX (505) 324-2022

RE: Williams Field Service Chaco Trunk A

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/8/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

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

Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

140709056

Project Name:

1407309

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	140709056-001 1407309-001A / S-1 Soil	Samp	oling Date oling Time ole Location	7/3/2014 12:46 PM		Time Received action Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 0.9	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	
							<u>-</u>	
Sample Number Client Sample ID Matrix Comments	140709056-002 1407309-002A / S-2 Soil	Samp	oling Date Ding Time Die Location	7/3/2014 12:52 PM		Time Received ction Date	7/9/2014 7/17/2014	12:30 PM
Parameter	·	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 2.5	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	,
Sample Number Client Sample ID Matrix Comments	140709056-003 1407309-003A / S-3 Soil	Samp	oling Date Dling Time Die Location	7/3/2014 1:00 PM		Time Received ction Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 1.9	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	
Sample Number Client Sample ID Matrix Comments	140709056-004 1407309-004A / S-4 Soil	Samp	oling Date oling Time ole Location	1:06 PM		Time Received oction Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 0.9	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	

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

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

Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

140709056

Project Name:

1407309

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	140709056-005 1407309-005A / S-5 Soil	Samı	pling Date pling Time ple Location	7/3/2014 1:12 PM		Time Received action Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 0:6	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	
Sample Number Client Sample ID Matrix Comments	140709056-006 1407309-006A / S-6 Soil	Samp		7/3/2014 1:19 PM		Time Received ction Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 11.2	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	
Sample Number Client Sample ID Matrix Comments	140709056-007 1407309-007A / S-7 Soil	Sam		7/3/2014 1:26 PM		Time Received ction Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture	·	ND 2	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	
Sample Number Client Sample ID Matrix Comments	140709056-008 1407309-008A / S-8 Soil	Sam	oling Date oling Time ole Location	7/3/2014 1:35 PM		Time Received ction Date	7/9/2014 7/17/2014	12:30 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol %moisture		ND 6.4	mg/kg Percent	50	7/21/2014 7/21/2014	KFG KFG	GC/FID %moisture	

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

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

140709056

Project Name:

1407309

Analytical Results Report

Sample Number

140709056-009

Sampling Date

Date/Time Received

7/9/2014 12:30 PM

Client Sample ID

1407309-009A / S-9

7/3/2014 Sampling Time 1:41 PM

Percent

Extraction Date

Matrix

Sample Location

7/17/2014

%moisture

Comments

Parameter Methanol

%moisture

Result Units ND mg/kg

11.3

50 7/21/2014 7/21/2014

Analysis Date

PQL

Analyst **KFG KFG**

Method Qualifier GC/FID

Authorized Signature

MCL

EPA's Maximum Contaminant Level

ND

Not Detected

Practical Quantitation Limit PQL

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

The results reported relate only to the samples indicated.

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

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Client:

HALL ENVIRONMENTAL ANALYSIS LAB

Address:

4901 HAWKINS NE SUITE D

ALBUQUERQUE, NM 87109

Attn:

ANDY FREEMAN

Batch #:

140709056

Project Name:

1407309

Analytical Results Report Quality Control Data

Lab Control Sample				·					
Parameter Methanol	LCS Result 240	Units mg/L	LCS Spike	%Rec 96.0		%Rec -130	Prep 7/17/	Date 2014	Analysis Date 7/21/2014
Matrix Spike									
Sample Number Parameter			iS suit Un	its	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
140709056-002 Methanol			38 mg		250	95.2	50-150	7/17/2014	=
Matrix Spike Duplicate	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·				
Parameter	MSD Result		MSD Spike %	Rec	%RPD	AR %RPD) Pre	D Date	Analysis Date
Methanol	186	mg/kg		4.4	24.5	0-25		7/2014	7/21/2014
Method Blank							,		
Parameter Methanol		Result ND		Jnits ng/kg		PQL 25		rep Date 7/2014	Analysis Date 7/21/2014

ND

Acceptable Range

Not Detected

PQL RPD Practical Quantitation Limit Relative Percentage Difference

Comments:

Certifications held by Analek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87693; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Analek Labs WA: EPA:WA00169; ID:WA00169; WA:C595; MT:Cert0095; FL(NELAP): E871099

Page 1 of 1



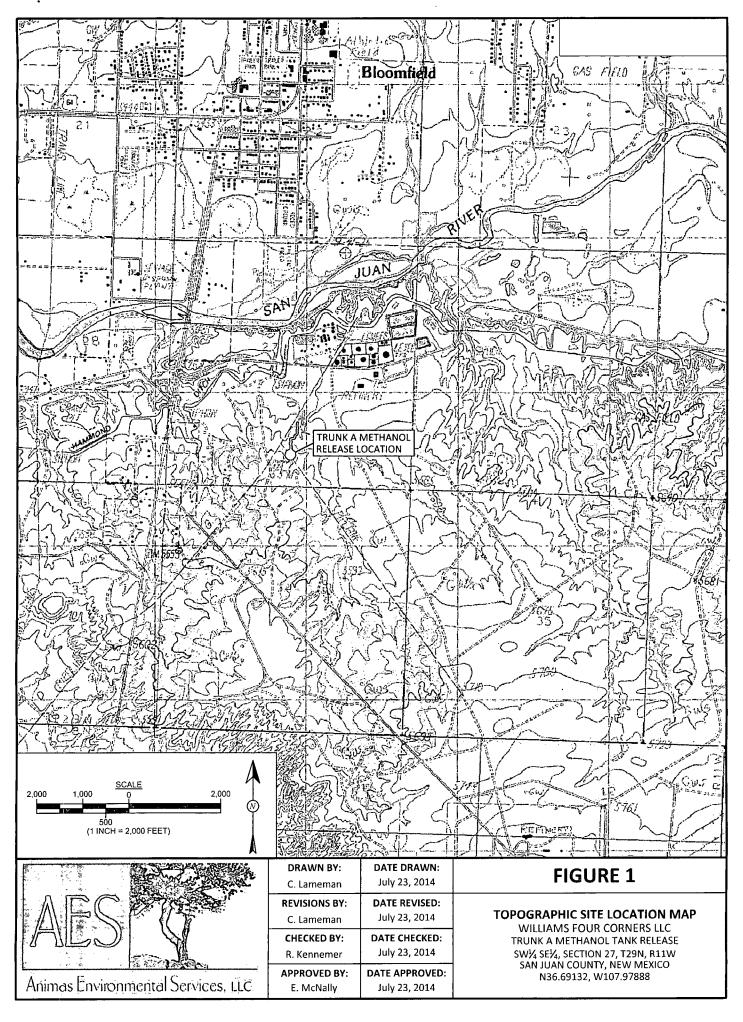
Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

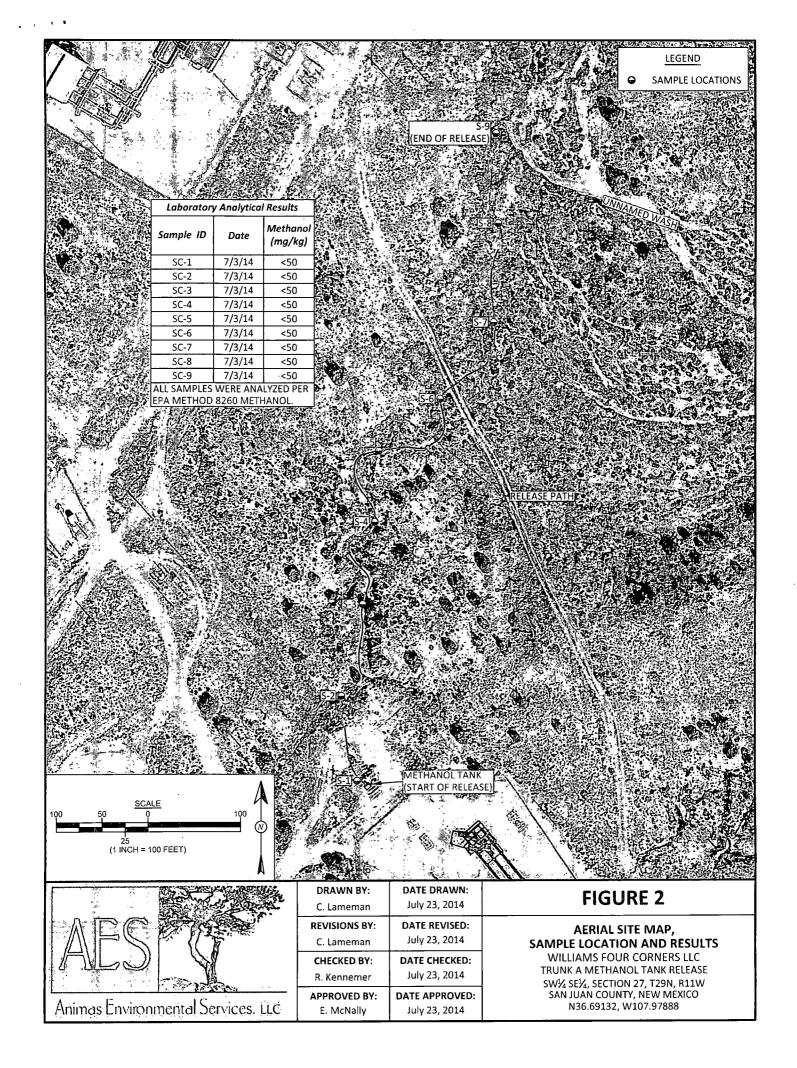
TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number:	1407309		RcptNo:	1
Received by/date: 4008/14				
Logged By: Anne Thorne 7/8/2014 7:55:00 AM		anne Am	_	
Completed By: Anne Thorne 7/8/2014	!	Ame Ham Ame Ham		
Reviewed By: 07/08/14	İ	and from		
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			
<u>Log In</u>	İ			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	na 🗀	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
6. Sample(s) in proper container(s)?	Yes 🔽	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🔲		
9. Was preservative added to bottles?	Yes 🗌	No 🗹	na 🗆	
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
40.5	i. 🙃		bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No ∐	for pH; (<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)	j			
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	٦
Person Notified: Date	ì			
By Whom: Via:] eMail [Phone 🗌 Fax	☐ In Person	
Regarding:	<u> </u>			
Client Instructions:	<u> </u>	· · · · ·		}
17. Additional remarks:	1			
18. Cooler Information	 	المصروبين	ı	
Cooler No Temp °C Condition Seal Intact Seal No 1 2.9 Good Yes	Seal Date	Signed By		
[1 E.0 Guod 165	<u> </u>			

Chain-of-Custody Record									L	A I		= R.	\/T	D.	•	ME	NT	AL		
Client:	An imo	SEN	ironmental	Standard	□ Rush	<u></u>			 										AL ORI	
	Sex	vice !	LL.C.	I'Droject Name	. *	eld Servèce)						 ental.					-
Mailing	Address:	624	LLC E Comanche		Thunk A			490)1 Ha							NM 87	7109			
Farmi.	naton	NM.	87901	Project #:	1. J. W. 1. X			Τe	l. 50	5-345	-397	75	Fax	x 50	5-34	5-410	7			
Phone	#:0 GO	5)56	4-2281					7	् ३ ह			An	alysi	s Re	eque	și 🧗	ari ing		345	3
email o	r Fax#:			Project Mana	ger:		5	<u> </u>	80				$\left \hat{c} \right $	3 .	,					
QA/QC I	Package: dard		☐ Level 4 (Full Validation)			. Chritiansen	TMB's (8021)	TPH (Gas only)	30 / M	}		SIMS)	0	24,0	2		77			
Accredi				Sampler: Lo	aura Lar	re/Ross Kennemer	IMB	핕	Ď/	€		8270	Ş		0 00		Methanol			ĺΞ
O NEL		□ Othe	r	On Ice:	Yes T	□ No. Establish	+	+	38	418	504	o 4	ှူ ငြ	چُ ا چُ	sa /	€	多			ŏ
□ EDD	(Type)_			Sample::remi	perature:		+ MTBE	ITBI) Bi	hod	일	ĕ ₹	ے واق	- 1 i		; ? -	2) se
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALENDOWN 17407309	BTEX + N	BTEX + MTBE +	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	Apiops (F CLNO, NO, PO, SO.)	091 000	8061 Pesticides / 6062 PCB 8	8270 (Semi-VOA)	8260			Air Bubbles (Y or N)
7-3-14	12:46_	-50il	6-1	Terracoria 2-40mL vot 1-402	z-Sodium bishifate cold		Ш	ш						-		1	X			
	12:52	γ	5-2	"	<i>f</i>)	702								-			Х			
	15:60	ſĭ	5-3	11	11	-03											X			
	13.00	11	S-4	1/	.[]	-cu3 -cu4											X			
	13.12	1/	5-5	1/	11	-45				\perp							×	\perp		_
	13:19	1,	5-6	1/	1,	- Zelo											X	\square		\perp
	13:26	4	5-7	11	//	-007											X	oxed	_	<u> </u>
	13:35	1/	5-8	11	1/	-w8 -w9											X			
	13:41	11	5-9	11	//	-009							┸		\perp		시	\square		<u> </u>
		11												\perp					_	_
										_	_	_	_ _				$\perp \perp$		-	<u>.</u>
						Date Time	_	L								<u> </u>			L	Ш_
Date:	Time:	Relinquish Law Relinquish	alane Debruh	Received by: Received by:	y Walty	Date Time 7/7/14 1.49 Date Time 01/08/14	Ken	nark	S: -	Įn.	Solo	و ا	W†	FS						
7/1/14	1740		inter Walter	Ineceived by:	in In	01/08/14 ~ 01/53	+													
		samples sub	mitted to Hall Environmental may be subo	contracted to other a	credited laboratorie		possil	oility.	Any sul	b-contra	acted o	data wil	l be cle	early n	otated	on the a	analytic	al repor	 rt.	





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1220 S. St. Francis Dr., Spate Fo. NM 8755

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.

1220 S. St. Francis I	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505														
(1)	100		Rele	ase Notific	cation	n and Co	rrective A	ction	1	<u> </u>					
				,		OPERAT	ГOR		☐ Initia	al Report	\boxtimes	Final Repor			
Name of Comp	pany: Will	iams Four	Corners	LLC		Contact: Jan				<u> </u>					
Address: 188 C						Telephone N	No.: (505) 634-4	1951							
Facility Name:	: Horse Ca	inyon CDF)			Facility Typ	e: Çentral deliv	ery poi	nt (CDP)						
Surface Owner	r: BLM			Mineral C	Owner	er API No.									
		· · · · · · · · · · · · · · · · · · ·		•		ON OF RELEASE									
Unit Letter S	Section 7	Fownship 30N	Range 9W	Feet from the		/South Line	Feet from the	East/\	West Line	County San Juan					
			L	atitude <u>36.787</u>	621° N	Longitude	e <u>-107.761609°</u>	W							
				NAT	URE	OF RELI	EASE								
Type of Release	: Natural g	as					Release: 79.88 M	4CF	Volume I	Recovered: (MCF	natural gas			
Source of Releas	se: Emerge	07/21/2014	Iour of Occurrenc at 08:30 PM MS			Hour of Dis 14 at 08:30 I									
Was Immediate	Notice Giv		Yes 🗌	No 🛛 Not Re	equired	If YES, To	Whom? N/A								
By Whom? N/A	1					Date and Hour: N/A									
Was a Watercou	ırse Reache	d?	Yes 🛚	No		If YES, Vo	olume Impacting t	the Wate	ercourse: N	I/A					
If a Watercourse	e was Impa	cted, Descri	be Fully.*												
N/A															
Describe Cause	of Problem	and Remed	dial Action	Taken.*											
	gas was ve	nted to atmo	osphere. \	Villiams' personi			artially ESD on th D system, in orde		imize the r	elease. Mai	ntenan	ce to fix the			
									OIL CO	NS. DIV D	IST.	3			
Describe Area A	Affected and	d Cleanup A	Action Tak	en.*		· · · · · · · · · · · · · · · · · · ·									
No clean-up re	equired for	natural gas	releases.						Jl	JL 3 0 20	114				
regulations all o public health or should their ope	notifications and le NMOCD m le contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of	ctive act leport" of reat to gi	ions for rel loes not rel round wate	eases which ieve the ope r, surface wa	may e rator o iter, hu	ndanger f liability ıman health								
/						OIL CONSERVATION DIVISION									
Signature: Printed Name: 13	ana Franch	A L				Approved by	Environmental S	Specialis	t:	med	٠				
Title: Environme					Approval Date: 9/8/14 Expiration Date:										
E-mail Address: jana.franchini@williams.com						Conditions of Approval: Attached									

* Attach Additional Sheets If Necessary

Phone: (505) 634-4951

Date: 07/28/2014

NCS 1425130 899

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. Fres St., Artesia, NM 88210
District III
1000 Lio 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

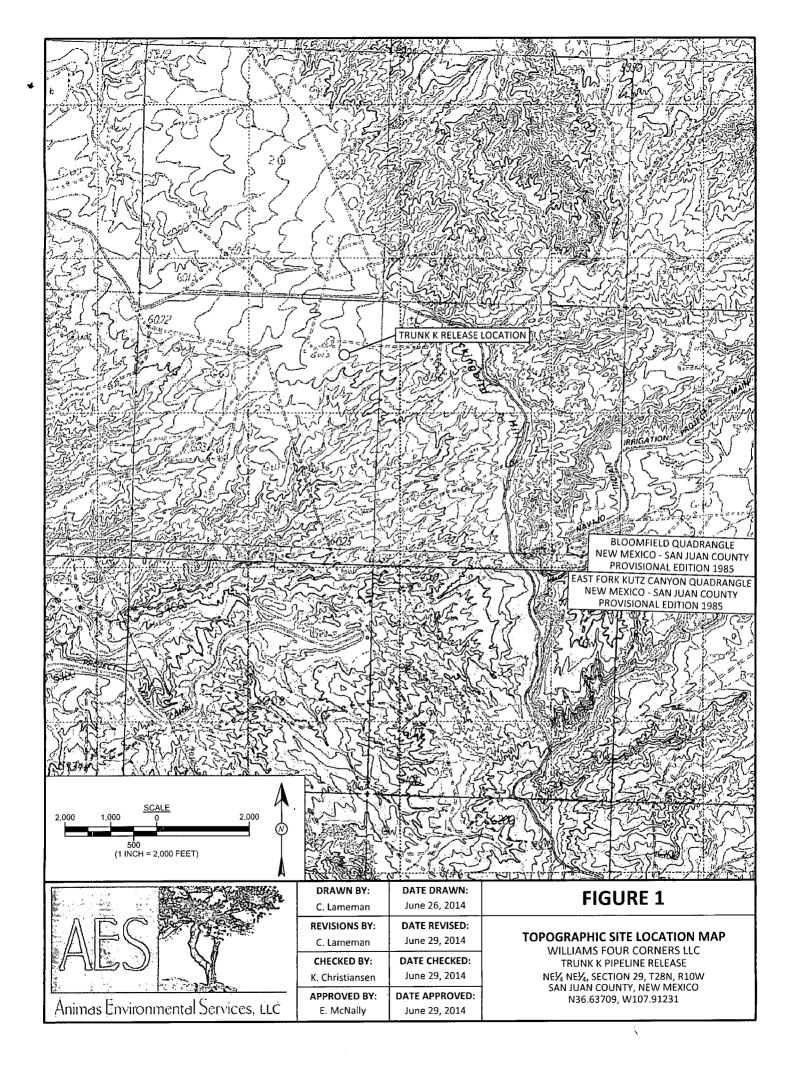
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

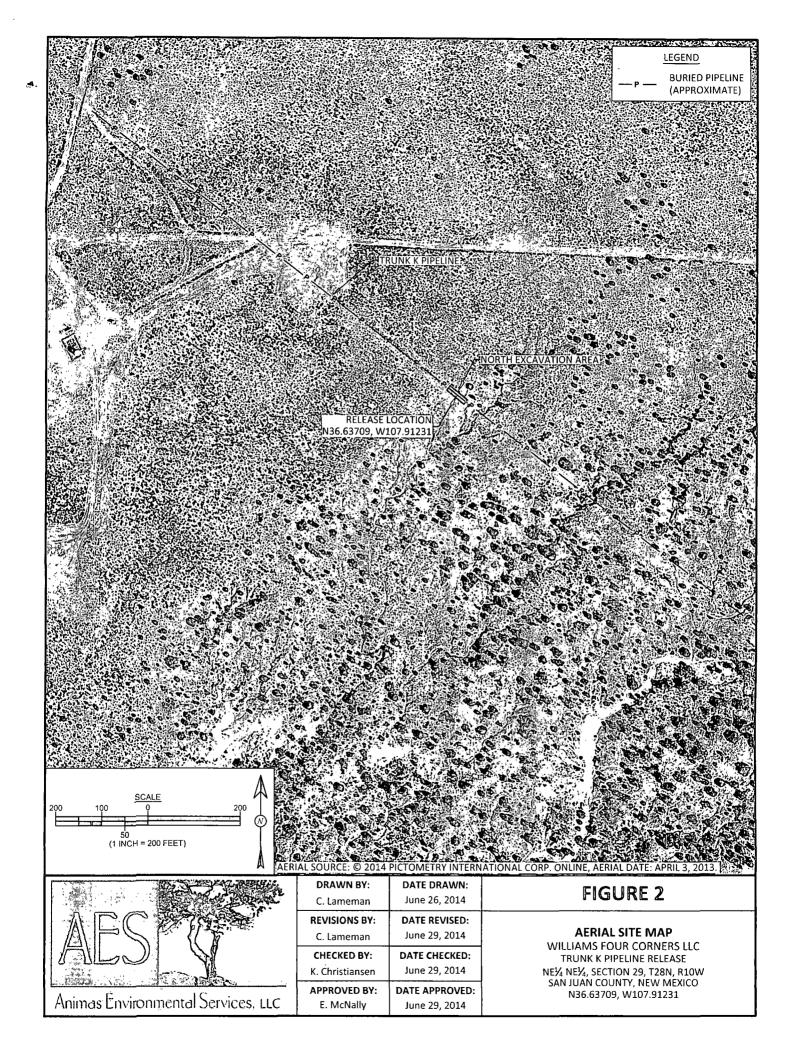
Santa Fe, NM 87505

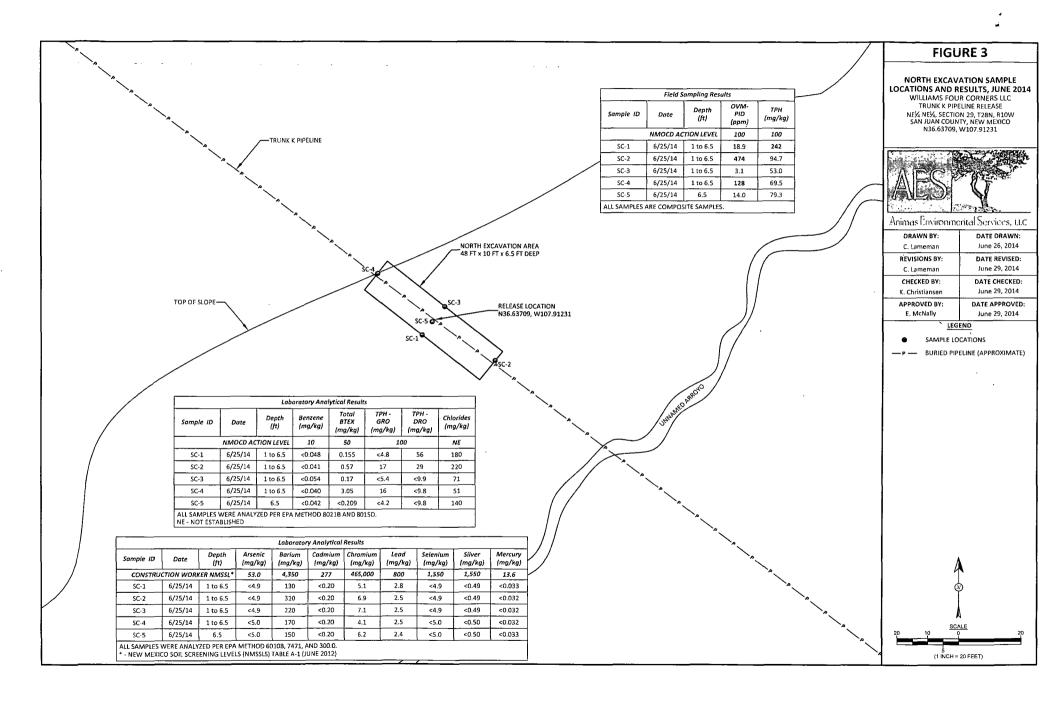
Release Notification and Corrective Action

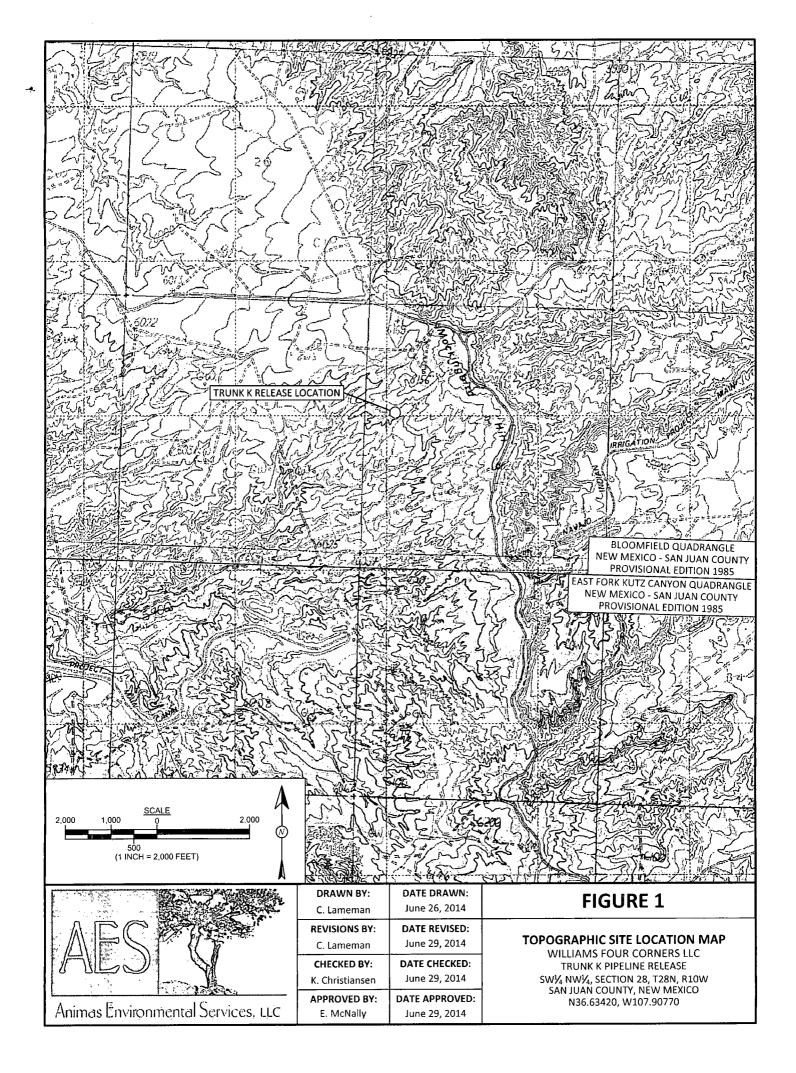
Releas	·	OPERATOR	·						
Name of Company: Williams Four Corners LL		Contact: Jana Franchini	☐ Initial Report ☐ Final Report						
Address: 188 CR 4900, Bloomfield, NM 8741		Telephone No.: (505) 634-4951							
Facility Name: Trunk K		Facility Type: Natural gas pipelin	e						
Surface Our DIM	Mi1 O								
Surface Owner: BLM	Mineral Owner		API No.						
		N OF RELEASE							
	et from the North	n/South Line Feet from the East/	West Line County						
			San Juan 1914						
Lat	itude <u>36.63420° N</u>	Longitude <u>-107.90770° W</u>	oil cons. Div.						
	NATURE	OF RELEASE	PST. 2						
Type of Release: Produced water & natural gas		Volume of Release: 30 BBL	Volume Recovered: 0 BBL produced						
		(approx.) produced water & 210.9 MCF natural gas	water & 0 MCF natural gas						
Source of Release: Pipeline release		Date and Hour of Occurrence:	Date and Hour of Discovery:						
Was Immediate Notice Given?		Unknown If YES, To Whom? Brandon Powe	06/10/2014 at 05:45 PM II (NMOCD) and Mark Kelly (BLM).						
	Not Required		CE following watercourse confirmation.						
By Whom? Monica Sandoval, ES&H contractor, & Environmental	Animas	Date and Hour: 06/10/2014 at 09:5. respectively	5 PM & 09:50 PM, to NMOCD & BLM,						
Was a Watercourse Reached?		If YES, Volume Impacting the Wat	tercourse: 30 BBL produced water						
☐ Yes ☐ No)								
If a Watercourse was Impacted, Describe Fully.*									
Approximately 30 barrels of produced water was releintermittent drainage—an un-named, dry wash (naturelease. There were no impacts to surface or ground	ral erosional feature)	that enters Kutz Wash, which is locate	ed approximately 3.5 miles southwest of the						
Describe Cause of Problem and Remedial Action Ta	ken.*								
The pipeline leaks (and consequential releases of nat 2014. The pipeline was isolated, blown-down, clamp									
Describe Area Affected and Cleanup Action Taken.*									
Impacted soil from the wash and the pipeline, amore for disposal. Confirmation soil samples were collect to the attached figures for more detailed information proceeded to back-fill and compact, as necessary, a	cted on June 25 th and n. Based on the resull excavated areas.	l again on July 17 th , following addition ilts of the confirmation samples (and su The remediation work was completed o	al excavation in the south release. Refer ubsequent approval to back-fill), Williams on August 14, 2014.						
I hereby certify that the information given above is to regulations all operators are required to report and/or public health or the environment. The acceptance of should their operations have failed to adequately inverse or the environment. In addition, NMOCD acceptance federal, state, or local laws and/or regulations.	file certain release r a C-141 report by the estigate and remediate	notifications and perform corrective ac the NMOCD marked as "Final Report" of the contamination that pose a threat to g	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health						
Signature:		OIL CONSERVATION DIVISION							
Printed Name: Jana Franchini		Approved by Environmental Specialis	si tomally kelly						
Title: Environmental Specialist		Approval Date: 9/8/2014	Expiration Date:						
E-mail Address: jana.franchini@williams.com		Conditions of Approval:	Attached						
E-man Address, jana.tranening/wimanis.com		NJK 14 25/5326							

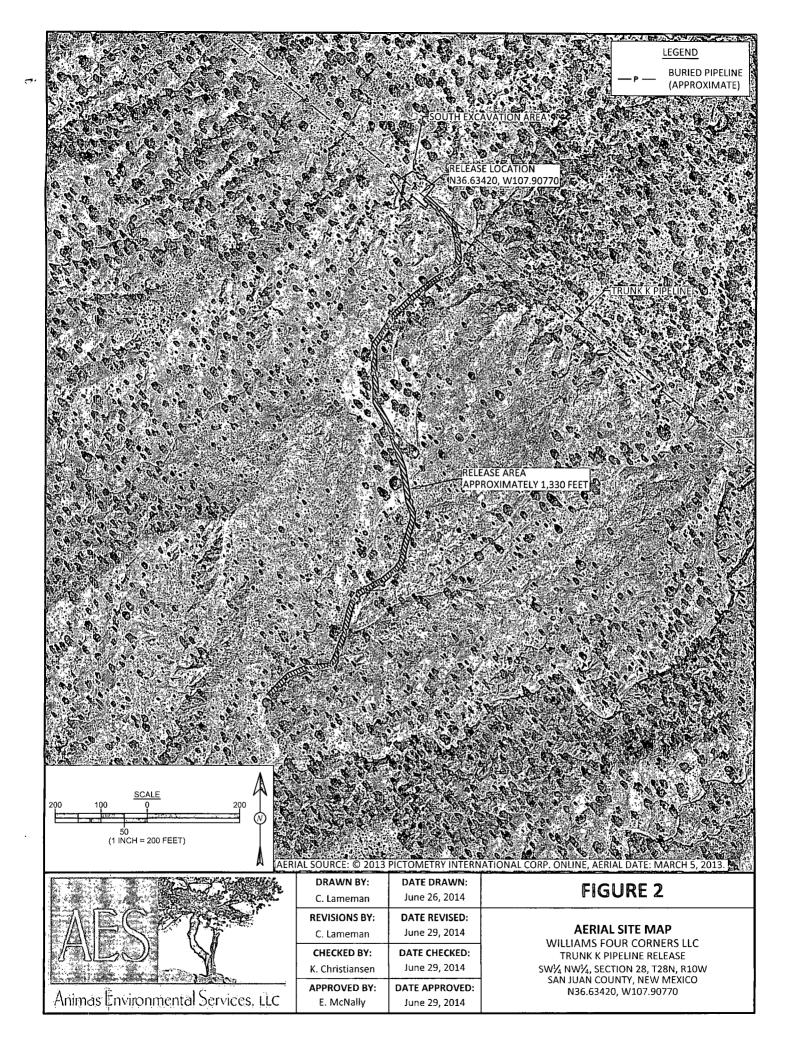
* Attach Additional Sheets If Necessary Phone: (505) 634-4951

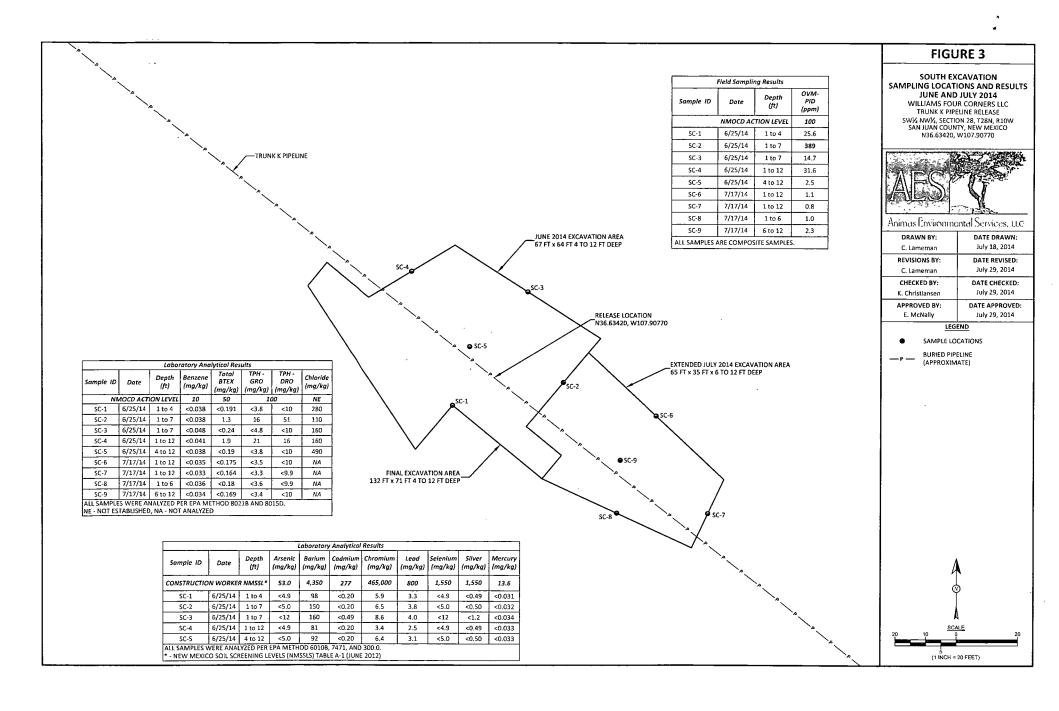














SOUTH EXCAVATION AREA

RELEASE LOCATION N36.63420, W107.90770

NMOCD ACTION LEVEL 100 SC-1 6/25/14 0.5 473 6/25/14 0.5 66.4 SC-3 6/25/14 0.5 6/25/14 0.5 2.4 6/25/14 0.5 8.3 6/25/14 SC-6 0.5 3.1 SC-7 6/25/14 0.5 5-1 6/25/14 567 0.5 6/25/14 5-2 0.5

SC-1 THROUGH SC-7 ARE 5-POINT COMPOSITE SAMPLES COLLECTED AT THE SURFACE EVERY 200 FEET.

			Labor	atory Ana	lytical Res	ults		
Sample	ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
	NΛ	ИОСD ACT	ION LEVEL	10	50	10	00	NE
SC-1		6/25/14	0.5	<0.048	0.23	35	250	240
SC-2		6/25/14	0.5	<0.096	4.4	110	350	160
SC-3		6/25/14	0.5	<0.047	<0.236	<4.7	18	<30
SC-4		6/25/14	0.5	<0.049	<0.246	<4.9	34	130
SC-5		6/25/14	0.5	<0.047	<0.234	<4.7	680	300
5C-6		6/25/14	0.5	<0.048	<0.24	<4.8	46	310
SC-7		6/25/14	0.5	<0.048	<0.24	<4.8	49	170

 5:1
 6/25/14
 0.5
 <0.098</th>
 <0.494</th>
 89
 800

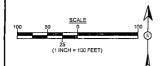
 5:2
 6/25/14
 0.5
 <0.049</td>
 <0.245</td>
 <4.9</td>
 <9.9</td>

 ILL SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015D, AND 300

20 (V) NB					Analytical					
Sample ID	Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Mercury (mg/kg)
CONSTRUCTIO	N WORKE	R NMSSL*	53.0	4,350	277	465,000	800	1,550	1,550	13.6
SC-1	6/25/14	0.5	<2.4	42	<0.098	6.4	2.6	<2.4	<0.24	<0.031
SC-2	6/25/14	0.5	<2.5	62	<0.10	1.9	1.6	<2.5	<0.25	<0.033
SC-3	6/25/14	0.5	<2.5	69	<0.099	3.0	2.2	<2.5	<0.25	<0.034
SC-4	6/25/14	0.5	5.3	47	<0.096	1.8	2.5	<2.4	<0.24	<0.033
SC-5	6/25/14	0.5	<2.4	90	<0.097	2.9	2.1	<2.4	<0.24	<0.034
SC-6	6/25/14	0.5	2.6	66	<0.097	2.9	2.3	<2.4	<0.24	<0.033
SC-7	6/25/14	0.5	<2.5	74	<0.099	2.5	2.4	<2.5	<0.25	<0.033
Background	6/25/14	0.5	4.5	56	<0.10	2.9	2.4	<2.5	<0.25	< 0.031

LL SAMPLES WERE ANALYZED PER EPA METHOD 6010B AND 7471.

- NEW MEXICO SOIL SCREENING LEVELS (NMSSLS) TABLE A-1 (IUNE 2012)

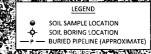




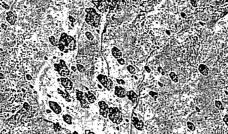
C. Lameman	June 26, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	June 29, 2014
CHECKED BY:	DATE CHECKED:
K. Christiansen	June 29, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	June 29, 2014

WASH RELEASE ASSESSMENT SAMPLING
LOCATIONS AND RESULTS, JUNE 2014
WILLIAMS FOUR CORNERS LLC
TRUNK K PIPELINE RELEASE
SW./, NW//, SECTION 28. T28N, R10W
SAN JUAN COUNTY, NEW MEXICO
N36.63420, W107.90770

FIGURE 4



	1. 10			grand and		11.0	DE CHEST		F. C.			171 March	A 7.7 TO 1	25 / W 100	
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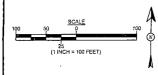


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- 10		.2.2	4.7		. 1 / 2	:%-T-SC	:-151	93	Sec.	75 %	$X : \mathbb{R}^3$		26	4.5	
100	100		AT C	NO 65	4	2.77	1	176	2.40	(<u>ئى</u> %	× 44.	1. 27	15.5	35	

Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)
NΛ	AOCD ACT	ION LEVEL	100	100
SC-8	7/17/14	1 to 5	0.4	NA
SC-9	7/17/14	1 to 5	1.0	NA
SC-10	7/17/14	1 to 5	0.4	NA
SC-11	7/17/14	1 to 5	0.5	NA
SC-12	7/17/14	1 to 5	0.0	NA
SC-13	7/17/14	1 to 5	0.3	NA.
5C-14	7/17/14	1 to 3	0.4	NA
SC-15	7/17/14	1 to 3	0.0	NA
SC-16	7/17/14	1 to 3	0.6	NA
SC-17	7/17/14	1 to 3	0.6	NA
SC-18	7/17/14	1 to 3	0.5	NA.
SB-1	7/17/14	2	0.0	47.2
SB-2	7/17/14	2	0.0	41.8
SB-3	7/17/14	1	0.2	47.2
SB-4	7/17/14	1	0.1	. 45.8
SB-5	7/17/14	5.5	0.1	44.5
SB-6	7/17/14	5.5	0.2	43.1

ANA-STORY	Laboratory Analytical Results												
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)							
NA	AOCD ACT	ION LEVEL	10	50	10	00							
SC-8	7/17/14	1 to 5	<0.033	<0.166	<3.3	<10							
SC-9	7/17/14	1 to 5	<0.033	<0.166	<3.3	<9.9							
SC-10	7/17/14	1 to 5	<0.048	<0.241	<4.8	14							
SC-11	7/17/14	1 to 5	<0.048	<0.240	<4.8	<10							
SC-12	7/17/14	1 to 5	<0.049	<0.244	<4.9	39							
SC-13	7/17/14	1 to 5	<0.049	<0.245	<4.9	19							
SC-14	7/17/14	1 to 3	<0.049	<0.245	<4.9	57							
SC-15	7/17/14	1 to 3	<0.048	<0.239	<4.8	24							
SC-16	7/17/14	1 to 3	<0.048	<0.240	<4.8	16							
SC-17	7/17/14	1 to 3	<0.047	<0.235	<4.7	52							
SC-18	7/17/14	1 to 3	<0.047	<0.234	<4.7	44							
ALL SAMPLE	S WERE A	NALYZED P	ER EPA ME	THOD 802	1B AND 80	15D.							





DRAWN BY: C. Lameman	DATE DRAWN: July 18, 2014
REVISIONS BY:	DATE REVISED: July 29, 2014
CHECKED BY:	DATE CHECKED:
K. Christiansen APPROVED BY:	July 29, 2014 DATE APPROVED:
E. McNally	July 29, 2014

FIGURE 5

WASH EXCAVATION CLEARANCE SAMPLING
LOCATIONS AND RESULTS, JULY 2014
WILLIAMS FOUR CORNERS LLC
TRUNK K PIPELINE RELEASE
SWY, NWY, SECTION 28, T28N, R10W
SAN JUAN COUNTY, NEW MEXICO
N36.63420, W107.90770

Trunk K Pipeline Excavation Clearance & Wash Results (in mg/Kg)

	801	5D			8021B			<u> </u>				6010B				7471
	Diesel-	Gas-				Ethylben	Xylenes,	Chlorides								7471
	Range	Range	Total	Benzene	Toluene	zene	Total		As	Ba	Cd	Cr	Pb	Se	Ag	Hg
North Excava			14 1/8					٠,	5 P 30						V 1/2 1/2 1/2 1/2	y 3
SC-1-N	56	ND	0.155	ND	0.057	ND	0.098	180	ND	130	ND	5.1	2.8	ND	ND	ND
SC-2-N	29	17	0.57	ND	ND	ND	0.57	220	ND	310	ND	6.9	2.5	ND	ND	ND
SC-3-N	ND	ND	0.17	ND	ND	ND	0.17	71	ND	220	ND	7.1	2.5	ND	ND	ND
SC-4-N	ND	16	3.05	ND	0.82	0.23	2	51	ND	170	ND	4.1	2.5	ND	ND	ND
SC-5-N	ND	ND		ND	ND	ND	ND	138	ND	150	ND	6.2	2.4	ND	ND	ND
South Excava	ition (6/25)															
SC-1-S	ND	ND		ND	ND	ND	ND	280	ND	98	ND	5.9	3.3	ND	ND	ND
SC-2-S	51	16	1.29	ND	0.17	0.12	1	107	ND	150	ND	6.5	3.8	ND	ND	ND
SC-3-S	ND	ND	ND	ND	ND	. ND	ND	160	ND	160	ND	8.6	4.0	ND	ND	ND
SC-4-S	16	21	1.92	ND	0.25	0.17	1.5	160	ND	81	ND	3.4	2.5	ND	ND	ND
SC-5-S	ND	ND		ND	ND	ND	ND	493	ND	92	ND	6.4	3.1	ND	ND	ND
Wash (6/25)																
Wash SC-1	250	35	0.23	ND	ND	ND	0.23	240	ND	42	ND	6.4	2.6	ND	ND	ND
Wash SC-2	350	110	4.43	ND	0.81	0.22	3.4	160	ND	62	ND	1.9	1.6	ND	ND	ND
Wash SC-3	18	ND		ND	ND	ND	ND	ND	ND	69	ND	3	2.2	ND	ND	ND
Wash SC-4	34	ND		ND	ND	ND	ND	130	5.3	47	ND	1.8	2.5	ND	ND	ND
Wash SC-5	680	ND		ND	ND	ND	ND	300	ND	90	ND	2.9	2.1	ND	ND	ND
Wash SC-6	46	ND		ND	ND	ND	ND	310	2.6	66	ND	2.9	2.3	ND	ND	ND
Wash SC-7	49	ND		ND	ND	ND	ND	170	ND	74	ND	2.5	2.4	ND	ND	ND
Background	ND	ND		ND	ND	ND	ND	ND	4.5	56	ND	2.9	2.4	ND	ND	ND
Wash S-1 (discrete)	800	89		ND	ND	ND	ND									
Wash S-2 (discrete)	ND	ND		ND	ND	ND	ND									

Trunk K Pipeline Excavation Clearance & Wash Results (in mg/Kg)

	8015D 8021B					6010B						7471				
	Diesel- Range	Gas- Range	Total	Benzene	Toluene	Ethylben zene	Xylenes, Total	Chlorides	As	Ва	Cd	Cr	Pb	Se	Ag	Hg
South Excava	tion (7/17) "整件槽"	rys diving of	· pr. 44.	Charles &	and the entire		i girgin senjet	Marijan da	· Mar Brahas	Employed 187		V CT		N 1987 W. W.	of Gray
SC-6	ND	ND		ND	ND	ND	ND								and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	a Assertion management of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro
SC-7	ND	ND		ND	ND	ND	ND									
SC-8	ND	ND		ND	ND	ND	ND									
SC-9	ND	ND		ND	ND	ND	ND									
Wash (7/17)	A THE MENTS OF		35 198								1, 7,		3			
Wash SC-7	ND	ND		ND	ND	ND	ND									
Wash SC-8	ND	ND		ND	ND	ND	ND									
Wash SC-9	14	ND		ND	ND	ND	ND									
Wash SC-10	ND	ND		ND	ND	ND	ND									
Wash SC-11	39	ND		ND	ND	ND	ND							-		
Wash SC-12	19	ND		ND	ND	ND	ND									
Wash SC-13	57	ND		ND	ND	ND	ND									
Wash SC-14	24	ND		ND	ND	ND	ND									
Wash SC-15	16	ND		ND	ND	ND	ND									
Wash SC-16	52	ND		ND	ND	ND	ND									
Wash SC-17	44	ND		ND.	ND	ND	ND									

-



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

June 30, 2014

Kelsey Christiansen Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Williams Trunk K OrderNo.: 1406B90

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/26/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1406B90

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1-S

Project: Williams Trunk K

Collection Date: 6/25/2014 11:25:00 AM

Lab ID: 1406B90-001 Matrix: MEOH (SOIL) Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/26/2014 11:08:38 AM	13911
Surr: DNOP	79.6	57.9-140	%REC	1	6/26/2014 11:08:38 AM	13911
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/26/2014 11:08:11 AM	R19524
Surr: BFB	92.0	80-120	%REC	1	6/26/2014 11:08:11 AM	R19524
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.038	mg/Kg	1	6/26/2014 11:08:11 AM	R19524
Toluene	ND	0.038	mg/Kg	1	6/26/2014 11:08:11 AM	R19524
Ethylbenzene	ND	0.038	mg/Kg	1	6/26/2014 11:08:11 AM	R19524
Xylenes, Total	ND	0.077	mg/Kg	1	6/26/2014 11:08:11 AM	R19524
Surr: 4-Bromofluorobenzene	99.4	80-120	%REC	1	6/26/2014 11:08:11 AM	R19524
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	280	30	mg/Kg	20	6/26/2014 11:03:59 AM	13914
EPA METHOD 7471: MERCURY		•			Analyst	DBD
Mercury	ND	0.031	mg/Kg	1	6/27/2014 10:52:55 AM	13918
EPA METHOD 6010B: SOIL METALS	3				Analyst	ELS
Arsenic	ND	4.9	mg/Kg	2	6/27/2014 8:42:33 AM	13928
Barium	98	0.20	mg/Kg	2	6/27/2014 8:42:33 AM	13928
Cadmium .	ND	0.20	mg/Kg	2	6/27/2014 8:42:33 AM	13928
Chromium	5.9	0.59	mg/Kg	2	6/27/2014 8:42:33 AM	13928
Lead	3.3	0.49	mg/Kg	2	6/27/2014 8:42:33 AM	13928
Selenium	ND	4.9	mg/Kg	2	6/27/2014 8:42:33 AM	13928
Silver	ND	0.49	mg/Kg	2	6/27/2014 8:42:33 AM	13928

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

Qualifiers:

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

Page 1 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1406B90

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2-S

Project: Williams Trunk K

Collection Date: 6/25/2014 11:30:00 AM

Lab ID: 1406B90-002

Matrix: MEOH (SOIL) Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	51	9.9		mg/Kg	1	6/26/2014 11:30:27 AM	13911
Surr: DNOP	84.7	57.9-140		%REC	1	6/26/2014 11:30:27 AM	13911
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	16	7.7		mg/Kg	2	6/26/2014 11:38:16 AM	R19524
Surr: BFB	142	80-120	S	%REC	2	6/26/2014 11:38:16 AM	R19524
EPA METHOD 8021B: VOLATILES					•	Analyst	NSB
Benzene	ND	0.038		mg/Kg	2	6/26/2014 11:38:16 AM	R19524
Toluene	0.17	0.077		mg/Kg	2	6/26/2014 11:38:16 AM	R19524
Ethylbenzene	0.12	0.077		mg/Kg	2	6/26/2014 11:38:16 AM	R19524
Xylenes, Total	1.0	0.15		mg/Kg	2	6/26/2014 11:38:16 AM	R19524
Surr: 4-Bromofluorobenzene	110	80-120		%REC	2	6/26/2014 11:38:16 AM	R19524
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	110	30		mg/Kg	20	6/26/2014 11:16:23 AM	13914
EPA METHOD 7471: MERCURY						Analyst	DBD
Mercury	ND	0.032		mg/Kg	1	6/27/2014 10:54:41 AM	13918
EPA METHOD 6010B: SOIL METALS						Analyst	ELS
Arsenic	ND	5.0		mg/Kg	2	6/27/2014 8:46:17 AM	13928
Barium	150	0.20		mg/Kg	2	6/27/2014 8:46:17 AM	13928
Cadmium .	ND	0.20		mg/Kg	2	6/27/2014 8:46:17 AM	13928
Chromium	6.5	0.60		mg/Kg	2	6/27/2014 8:46:17 AM	13928
Lead	3.8	0.50		mg/Kg	2	6/27/2014 8:46:17 AM	13928
Selenium	ND	5.0		mg/Kg	2	6/27/2014 8:46:17 AM	13928
Silver	ND	0.50		mg/Kg	2	6/27/2014 8:46:17 AM	13928

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

Qualifiers:

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

Page 2 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1406B90

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3-S

Project: V

Lab ID:

Williams Trunk K

1406B90-003

Collection Date: 6/25/2014 11:35:00 AM **Received Date:** 6/26/2014 8:10:00 AM

Result Analyses **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) ND 6/26/2014 11:52:22 AM 13911 10 mg/Kg 1 Surr: DNOP 72.9 57.9-140 %REC 1 6/26/2014 11:52:22 AM 13911 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 ma/Ka 6/26/2014 12:08:35 PM R19524 1 Surr: BFB 95.6 80-120 %REC 1 6/26/2014 12:08:35 PM R19524 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.048 mg/Kg 1 6/26/2014 12:08:35 PM R19524 Toluene ND 0.048 mg/Kg 1 6/26/2014 12:08:35 PM R19524 Ethylbenzene ND 0.048 6/26/2014 12:08:35 PM R19524 mg/Kg 1 ND 0.096 6/26/2014 12:08:35 PM R19524 Xylenes, Total mg/Kg 1 104 80-120 6/26/2014 12:08:35 PM R19524 Surr: 4-Bromofluorobenzene %REC Analyst: JRR **EPA METHOD 300.0: ANIONS** Chloride 160 30 6/26/2014 11:53:36 AM 13914 mg/Kg 20 **EPA METHOD 7471: MERCURY** Analyst: DBD Mercury ND 0.034 mg/Kg 6/27/2014 10:56:27 AM 13918 **EPA METHOD 6010B: SOIL METALS** Analyst: ELS Arsenic ND 12 mg/Kg 5 6/27/2014 8:36:22 AM 13928 Barium 160 0.49 mg/Kg 5 6/27/2014 8:36:22 AM 13928 13928 ND 0.49 5 6/27/2014 8:36:22 AM Cadmium mg/Kg 5 6/27/2014 8:36:22 AM 13928 Chromium 8.6 1.5 mg/Kg 4.0 1.2 5 6/27/2014 8:36:22 AM 13928 mg/Kg Lead ND 12 mg/Kg 5 6/27/2014 8:36:22 AM 13928 Selenium ND 1.2 6/27/2014 8:36:22 AM 13928 Silver mg/Kg

Matrix: MEOH (SOIL)

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

Qualifiers:

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

Page 3 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2014

CLIENT: Animas Environmental Services

Client Sample ID: SC-4-S

Project: Williams Trunk K

Collection Date: 6/25/2014 11:40:00 AM

Lab ID: 1406B90-004

Matrix: MEOH (SOIL) Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	16	10	mg/Kg	1	6/26/2014 12:14:13 PM	13911
Surr: DNOP	69.8	57.9-140	%REC	1	6/26/2014 12:14:13 PM	13911
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	21	4.1	mg/Kg	1	6/26/2014 12:38:53 PM	R19524
Surr: BFB	106	80-120	%REC	1	6/26/2014 12:38:53 PM	R19524
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.041	mg/Kg	1	6/26/2014 12:38:53 PM	R19524
Toluene	0.25	0.041	mg/Kg	1	6/26/2014 12:38:53 PM	R19524
Ethylbenzene	0.17	0.041	mg/Kg	1	6/26/2014 12:38:53 PM	R19524
Xylenes, Total	1.5	0.082	mg/Kg	1	6/26/2014 12:38:53 PM	R19524
Surr: 4-Bromofluorobenzene	114	80-120	%REC	1	6/26/2014 12:38:53 PM	R19524
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	160	30	mg/Kg	20	6/26/2014 12:06:00 PM	13914
EPA METHOD 7471: MERCURY					Analyst	DBD
Mercury	ND	0.033	mg/Kg	1	6/27/2014 10:58:13 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst	ELS
Arsenic	ND	4.9	mg/Kg	2	6/27/2014 7:44:49 AM	13928
Barium	81	0.20	mg/Kg	2	6/27/2014 7:44:49 AM	13928
Cadmium	ND	0.20	mg/Kg	2	6/27/2014 7:44:49 AM	13928
Chromium	3.4	0.59	mg/Kg	2	6/27/2014 7:44:49 AM	13928
Lead	2.5	0.49	mg/Kg	2	6/27/2014 7:44:49 AM	13928
Selenium	ND	4.9	mg/Kg	2	6/27/2014 7:44:49 AM	13928
Silver	ND	0.49	mg/Kg	2	6/27/2014 7:44:49 AM	13928

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2014

CLIENT: Animas Environmental Services

Client Sample ID: SC-5-S

Project: Williams Trunk K

Collection Date: 6/25/2014 11:50:00 AM

Lab ID: 1406B90-005

Matrix: MEOH (SOIL) Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			, .,,	Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/26/2014 12:36:16 PM	13911
Surr: DNOP	74.4	57.9-140	%REC	1	6/26/2014 12:36:16 PM	13911
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/26/2014 1:09:05 PM	R19524
Surr: BFB	92.7	80-120	%REC	1	6/26/2014 1:09:05 PM	R19524
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.038	mg/Kg	1	6/26/2014 1:09:05 PM	R19524
Toluene	ND	0.038	mg/Kg	1	6/26/2014 1:09:05 PM	R19524
Ethylbenzene	ND	0.038	mg/Kg	1	6/26/2014 1:09:05 PM	R19524
Xylenes, Total	ND	0.076	mg/Kg	1	6/26/2014 1:09:05 PM	R19524
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/26/2014 1:09:05 PM	R19524
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	490	30	mg/Kg	20	6/26/2014 12:18:25 PM	13914
EPA METHOD 7471: MERCURY					Analyst	DBD
Mercury	ND	0.033	mg/Kg	1	6/27/2014 11:00:00 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst	ELS
Arsenic	ND	5.0	mg/Kg	2	6/27/2014 7:46:05 AM	13928
Barium	92	0.20	mg/Kg	2	6/27/2014 7:46:05 AM	13928
Cadmium	ND	0.20	mg/Kg	2	6/27/2014 7:46:05 AM	13928
Chromium	6.4	0.60	mg/Kg	2	6/27/2014 7:46:05 AM	13928
Lead	3.1	0.50	mg/Kg	2	6/27/2014 7:46:05 AM	13928
Selenium	ND	5.0	mg/Kg	2	6/27/2014 7:46:05 AM	13928
Silver	ND	0.50	mg/Kg	2	6/27/2014 7:46:05 AM	13928

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

Qualifiers:

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

Page 5 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13914

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 13914

RunNo: 19547

Prep Date: 6/26/2014 Analysis Date: 6/26/2014

SeqNo: 566119

Units: mg/Kg

Qual

Analyte Chloride

Result ND

PQL 1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Sample ID LCS-13914 Client ID: LCSS

SampType: LCS

RunNo: 19547

Prep Date: 6/26/2014 Batch ID: 13914

SeqNo: 566120

Units: mg/Kg

Analysis Date: 6/26/2014

Analyte

SPK value SPK Ref Val %REC

LowLimit

TestCode: EPA Method 300.0: Anions

HighLimit

%RPD **RPDLimit**

Qual

15.00

0

93.8

14

110

Chloride

1.5

90

S

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range Е

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Sample pH greater than 2. P

Page 6 of 12

.QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90

30-Jun-14

Client:

Animas Environmental Services

Project: Willian	ns Trunk K									
Sample ID MB-13911	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 13911	RunNo: 19522								
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 564983 Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Diesel Range Organics (DRO)	ND 10									
Surr: DNOP	7.1 10.00	70.6 57.9 140								
Sample ID LCS-13911	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 13911	RunNo: 19522								
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 564984 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 89.3 68.6 130								
Surr: DNOP	3.4 5.000	67.1 57.9 140								
Sample ID MB-13913	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PB\$	Batch ID: 13913	RunNo: 19522								
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 565609 Units: %REC								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: DNOP	6.6 10.00	66.4 57.9 140								
Sample ID LCS-13913	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 13913	RunNo: 19522								
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 565610 Units: %REC								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: DNOP	3.1 5.000	61.7 57.9 140								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.
- Reporting Detection Limit

Page 7 of 12

.QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

Client ID:

Prep Date:

PBS

Batch ID: R19524

RunNo: 19524

Analysis Date: 6/26/2014

SeqNo: 565533

Units: mg/Kg

Analyte

Result PQL ND 5.0 SPK value SPK Ref Val

%REC LowLimit HighLimit

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

940

1000

93.6

120

RPDLimit

Qual

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: R19524

RunNo: 19524

Prep Date:

Analysis Date: 6/26/2014

SeqNo: 565534

Units: mg/Kg

%RPD

SPK value SPK Ref Val %REC HighLimit Analyte Result **PQL** LowLimit 26 25.00 104 71.7 134 Gasoline Range Organics (GRO) 5.0 0 Surr: BFB 940 1000 94.2 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.
- Reporting Detection Limit

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.QC'SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90

30-Jun-14

Client:

Animas Environmental Services

ND

1.0

0.10

1.000

Project:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Williams Trunk K

Sample ID 5ML RB	SampType	: MBLK	Tes	tCode: E						
Client ID: PBS	Batch ID	Batch ID: R19524 RunNo: 19524			9524					
Prep Date:	Analysis Date	6/26/2014	\$	SeqNo: 565547			Units: mg/Kg			
Analyte	Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND 0.	.050								
Toluene	ND 0.	.050								
Ethylbenzene	ND 0.	.050								

103

80

120

Sample ID 100NG BTEX LO	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	Batch ID: R19524			RunNo: 19524							
Prep Date:	Analysis [Analysis Date: 6/26/2014			SeqNo: 565548			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.050	1.000	0	110	80	120	<u> </u>				
Toluene	1.1	0.050	1.000	0	109	80	120					
Ethylbenzene	1.1	0.050	1.000	0	108	80	120					
Xylenes, Total	3.3	0.10	3.000	0	110	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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.QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90 30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13918

SampType: MBLK

TestCode: EPA Method 7471: Mercury

TestCode: EPA Method 7471: Mercury

Client ID:

PBS

Batch ID: 13918

RunNo: 19543

Prep Date: 6/26/2014

Units: mg/Kg

Analyte

Analysis Date: 6/27/2014

SeqNo: 565912

Mercury

Result **PQL** ND 0.033 SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Qual

Client ID: LCSS

SampType: LCS Batch ID: 13918

RunNo: 19543

Units: mg/Kg

Prep Date: 6/26/2014

Sample ID LCS-13918

Result

0.17

Analysis Date: 6/27/2014

SeqNo: 565913 %REC LowLimit

HighLimit

RPDLimit %RPD

Analyte Mercury

PQL SPK value SPK Ref Val 0.033

0.1667

101

0

80

120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13928	SampT	уре: М	BLK	Tes	tCode: El	PA Method	6010B: Soil	Metals		
Client ID: PBS	Batch	n ID: 13	928	F	RunNo: 1	9536				
Prep Date: 6/26/2014	Analysis D	ate: 6/	27/2014	5	SeqNo: 5	65682	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Lead	ND	0.25								
Selenium	ND	2.5								
Silver	ND	0.25								

Sample ID LCS-13928	Samp1	Гуре: LC	s	Tes	tCode: El	PA Method	6010B: Soil	Metals		
Client ID: LCSS	Batcl	h ID: 13	928	F	RunNo: 1	9536				
Prep Date: 6/26/2014	Analysis D	Date: 6/	27/2014	5	SeqNo: 5	65683	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	24	2.5	25.00	0	98.0	80	120			
Barium	24	0.10	25.00	0	98.0	80	120			
Cadmium	25	0.10	25.00	. 0	99.1	80	120			
Chromium	25	0.30	25.00	0	99.7	80	120			
_ead	24	0.25	25.00	0	95.2	80	120			
Selenium	23	2.5	25.00	0	93.5	80	120			
Silver	5.1	0.25	5.000	0	103	80	120			

Sample ID 1406B90-001BM	S Samp	Type: MS	3	TestCode: EPA Method			6010B: Soil	Metals		
Client ID: SC-1-S	Batc	h ID: 13	928	F	RunNo: 1	9536				
Prep Date: 6/26/2014	Analysis [Date: 6/	27/2014	\$	SeqNo: 5	65728	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	5.1	25.41	0	88.8	75	125			
Barium	130	0.20	25.41	97.95	124	75	125			
Cadmium	22	0.20	25.41	0	86.1	75	125			
Chromium	29	0.61	25.41	5.878	92.4	75	125			
Lead	22	0.51	25.41	3.345	71.6	75	125			S
Selenium	16	5.1	25.41	0	64.0	75	125			S
Silver	4.5	0.51	5.082	0	87.8	75	125			

Sample ID 1406B90-001BM	I SD SampT	ype: MS	SD	Tes	tCode: E	PA Method	6010B: Soil	Metals		
Client ID: SC-1-S	Batch	ID: 13	928	F	RunNo: 1	9536				
Prep Date: 6/26/2014	Analysis D	ate: 6/	27/2014	S	SeqNo: 5	65729	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	22	5.0	25.19	0	86.9	75	125	3.00	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Page 11 of 12

- Sample pH greater than 2.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B90

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID 1406B90-001BN	ISD SampT	ype: MS	SD	Tes	tCode: El	PA Method	6010B: Soil	Metals		
Client ID: SC-1-S	Batch	ID: 13	928	F	RunNo: 1	9536				
Prep Date: 6/26/2014	Analysis D	ate: 6/	27/2014	8	SeqNo: 5	65729	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	120	0.20	25.19	97.95	76.0	75	125	9.93	20	
Cadmium	22	0.20	25.19	0	86.0	75	125	0.901	20	
Chromium	29	0.60	25.19	5.878	92.7	75	125	0.418	20	
.ead	22	0.50	25.19	3.345	73.2	75	125	1.21	20	S
Selenium	16	5.0	25.19	0	63.0	75	125	2.40	20	S
Silver	4.4	0.50	5.039	0	87.1	75	125	1.70	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Sample Log-In Check List

Client Name: Animas Environmental Work Order Nun	nber: 1406B90		RcptNo: 1	
Received by/date:	14			
Logged By: Ashley Gallegos 6/26/2014 8:10:00	. 1 DAM	AZ		
Completed By: Ashley Gallegos 6/26/2014 8:13(07	_	4		
Reviewed By 1	Scalul	547		
UU	76/14			
Chain of Custody	Yes	A 1_	Alat Dannat is a	
1. Custody seals intact on sample bottles?	·	No	Not Present ✓ Not Present	
2. Is Chain of Custody complete?	Yes ✔:	No	Not Present	
3. How was the sample delivered?	<u>Courier</u>			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 💆	No i	NA	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No i.	NA 🗒	
6. Sample(s) in proper container(s)?	Yes 🗸	No :		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No :		
ⁱ 8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No :		
9. Was preservative added to bottles?	Yes	No 🗸	NA	
10.VOA vials have zero headspace?	Yes	No	No VOA Vials ✔	
11. Were any sample containers received broken?	Yes	No 🗸		
• .			# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 😾	No i j	for pH: (<2 or >1)	2 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)				
6. Was client notified of all discrepancies with this order?	Yes	No 🏥	NA :✔.	
Person Notified: Dat	te:		:	
By Whom: Via	: ∮eMail ⊟ Pl	none Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No. 1 1.7 Good Yes	Seal Date	Signed By		

Phone #: Email or Fa	Animas dress: ax#: kage:	Enviro	nmental Services Comanche St gton, NM 87401 4-2281 Level 4 (Full Validation)		k K ger: en	TPHIBTEN CI		- EPA 120.1, H	- SM 25400	A lawk	www ins N 45-39	AL v.hal NE - 975	YS lenv Alb	IS ironr uque ax is R	ment erqu 505-	AB al.co	OF om M 87 -410	RA 109 7	ГО	RY	
Accreditation NELAP Date		□ Other	Sample Request ID		CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	ING IFEAL NOTE THE ALCORUM	Arsenic - EPA 200.8	Specific Conductance	TSS - SM 2540D, TDS	Sulfide A4500-SD	Salinity	Radioactivity - Alpha/Beta -	Dissolved Gases - RS	Chlorides - EPA300.0	Major Cations - EPA 200.7	Alkalinity - SM 2320B	BTEX - 8021B	TPH - EPA 8015B	Ammonia SM 4500 NH3	RCRA 8 Metals - USI	
6/25/14	1125	Soil	SC-1-S	4oz jar	4° C	-001								Х			X	X		X	
6/25/14	1130	Soil	SC-2-S	4oz jar	4° C	-002								х			Х	Х		Х	
6/25/14	1135	Soil	SC-3-S	4oz jar	4° C	-003								X			Х	Х		х	
6/25/14	1140	Soil	SC-4-S	4oz jar	4° C	-004								х			Х	Х		х	
6/25/14	1150	Soil	SC-5-S	4oz jar	4° C	-005								X			X	X		X	
Date: 125 14	Time: UZI Time: 110	Relinquish Relinquish	share Alga-	Received by: Received by: Received by: Contracted to other and	a to laborator	125/14 1421 Date Time 14 OU 24 14 14000008	preli kchr arilir	mina istiar ng@a	ery re nsen anim	esults @an asen	oill to s AS/ imas viror	AP to envi	ronm tal.c	enta om.	1.cor	n &					



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

June 30, 2014

Kelsey Christiansen Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Williams Trunk K OrderNo.: 1406B94

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/26/2014 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 1406B94

Received Date: 6/26/2014 8:10:00 AM

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/30/2014

CLIENT: Animas Environmental Services Client Sample ID: SC-1-N

Williams Trunk K Collection Date: 6/25/2014 9:25:00 AM Lab ID: 1406B94-001 Matrix: MEOH (SOIL)

DF Date Analyzed **Analyses** Result RLQual Units Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) 6/26/2014 12:32:15 PM 13911 56 9.9 mg/Kg Surr: DNOP 66.4 %REC 57.9-140 6/26/2014 12:32:15 PM 13911 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 6/26/2014 10:56:38 AM R19523 4.8 mg/Kg Surr: BFB 106 80-120 %REC 6/26/2014 10:56:38 AM R19523 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.048 mg/Kg 6/26/2014 10:56:38 AM R19523 Toluene 0.057 0.048 mg/Kg 6/26/2014 10:56:38 AM R19523 Ethylbenzene ND 0.048 mg/Kg 6/26/2014 10:56:38 AM R19523 Xylenes, Total 0.098 0.095 mg/Kg 6/26/2014 10:56:38 AM R19523 1 Surr: 4-Bromofluorobenzene 108 80-120 %REC 6/26/2014 10:56:38 AM R19523 **EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 180 30 6/26/2014 1:08:03 PM 13914 mg/Kg **EPA METHOD 7471: MERCURY** Analyst: **DBD** Mercury ND 0.033 6/27/2014 11:01:47 AM 13918 mg/Kg **EPA METHOD 6010B: SOIL METALS** Analyst: ELS Arsenic ND 4.9 mg/Kg 2 6/27/2014 7:47:22 AM 13928 Barium 130 0.20 mg/Kg 2 6/27/2014 7:47:22 AM 13928 6/27/2014 7:47:22 AM Cadmium ND 0.20 mg/Kg 2 13928 Chromium 5.1 0.59 mg/Kg 2 6/27/2014 7:47:22 AM 13928 Lead 0.49 2.8 mg/Kg 2 6/27/2014 7:47:22 AM 13928 Selenium ND 4.9 2 mg/Kg 6/27/2014 7:47:22 AM 13928 Silver ND 0.49 mg/Kg 6/27/2014 7:47:22 AM 13928

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Page 1 of 11

Lab Order 1406B94

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2-N

Project:

Williams Trunk K

Collection Date: 6/25/2014 9:30:00 AM

Lab ID:

1406B94-002

Matrix: MEOH (SOIL)

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	29	10		mg/Kg	1	6/26/2014 1:02:45 PM	13911
Surr: DNOP	67.9	57.9-140		%REC	1	6/26/2014 1:02:45 PM	13911
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	17	8.1		mg/Kg	2	6/26/2014 11:25:13 AM	R19523
Surr: BFB	153	80-120	S	%REC	2	6/26/2014 11:25:13 AM	R19523
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.041		mg/Kg	2	6/26/2014 11:25:13 AM	R19523
Toluene	ND	0.081		mg/Kg	2	6/26/2014 11:25:13 AM	R19523
Ethylbenzene	ND	0.081		mg/Kg	2	6/26/2014 11:25:13 AM	R19523
Xylenes, Total	0.57	0.16		mg/Kg	2	6/26/2014 11:25:13 AM	R19523
Surr: 4-Bromofluorobenzene	113	80-120		%REC	2	6/26/2014 11:25:13 AM	R19523
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	220	30		mg/Kg	20	6/26/2014 1:20:28 PM	13914
EPA METHOD 7471: MERCURY						Analyst	DBD
Mercury	ND	0.032		mg/Kg	1	6/27/2014 11:03:35 AM	13918
EPA METHOD 6010B: SOIL METALS						Analyst	ELS
Arsenic	ND	4.9		mg/Kg	2	6/27/2014 8:21:39 AM	13928
Barium	310	0.20		mg/Kg	2	6/27/2014 8:21:39 AM	13928
Cadmium	ND	0.20		mg/Kg	2	6/27/2014 8:21:39 AM	13928
Chromium	6.9	0.59		mg/Kg	2	6/27/2014 8:21:39 AM	13928
Lead	2.5	0.49		mg/Kg	2	6/27/2014 8:21:39 AM	13928
Selenium	ND	4.9		mg/Kg	2	6/27/2014 8:21:39 AM	13928
Silver	ND	0.49		mg/Kg	2	6/27/2014 8:21:39 AM	13928

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

Qualifiers:

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

Page 2 of 11

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B94

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3-N

Project: Williams Trunk K

Collection Date: 6/25/2014 9:35:00 AM

Lab ID: 1406B94-003 Matrix: MEOH (SOIL) Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst:	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/26/2014 2:03:57 PM	13911
Surr: DNOP	58.0	57.9-140	%REC	1	6/26/2014 2:03:57 PM	13911
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.4	mg/Kg	1	6/26/2014 11:53:59 AM	R19523
Surr: BFB	120	80-120	%REC	1	6/26/2014 11:53:59 AM	R19523
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.054	mg/Kg	1	6/26/2014 11:53:59 AM	R19523
Toluene	ND	0.054	mg/Kg	1	6/26/2014 11:53:59 AM	R19523
Ethylbenzene	ND	0.054	mg/Kg	1	6/26/2014 11:53:59 AM	R19523
Xylenes, Total	0.17	0.11	mg/Kg	1	6/26/2014 11:53:59 AM	R19523
Surr: 4-Bromofluorobenzene	111	80-120	%REC	1	6/26/2014 11:53:59 AM	R19523
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	71	30	mg/Kg	20	6/26/2014 1:32:52 PM	13914
EPA METHOD 7471: MERCURY					Analyst:	DBD
Mercury	ND	0.032	mg/Kg	1	6/27/2014 11:05:23 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst:	ELS
Arsenic	ND	4.9	mg/Kg	2	6/27/2014 8:22:57 AM	13928
Barium	220	0.20	mg/Kg	2	6/27/2014 8:22:57 AM	13928
Cadmium	ND	0.20	mg/Kg	2.	6/27/2014 8:22:57 AM	13928
Chromium	7.1	0.59	mg/Kg	2	6/27/2014 8:22:57 AM	13928
Lead	2.5	0.49	mg/Kg	2	6/27/2014 8:22:57 AM	13928
Selenium	ND	4.9	mg/Kg	2	6/27/2014 8:22:57 AM	13928
Silver	ND	0.49	mg/Kg	. 2	6/27/2014 8:22:57 AM	13928

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 3 of 11

- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2014

CLIENT: Animas Environmental Services

Client Sample ID: SC-4-N

Project: Williams Trunk K

Collection Date: 6/25/2014 9:40:00 AM

Lab ID: 1406B94-004 Matrix: MEOH (SOIL)

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2014 12:58:19 PM	13911
Surr: DNOP	69.7	57.9-140		%REC	1	6/26/2014 12:58:19 PM	13911
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	16	4.0		mg/Kg	1	6/26/2014 12:22:40 PM	R19523
Surr: BFB	152	80-120	S	%REC	1	6/26/2014 12:22:40 PM	R19523
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.040		mg/Kg	1	6/26/2014 12:22:40 PM	R19523
Toluene	0.82	0.040		mg/Kg	1	6/26/2014 12:22:40 PM	R19523
Ethylbenzene	0.23	0.040		mg/Kg	1	6/26/2014 12:22:40 PM	R19523
Xylenes, Total	2.0	0.081		mg/Kg	1	6/26/2014 12:22:40 PM	R19523
Surr: 4-Bromofluorobenzene	118	80-120		%REC	1	6/26/2014 12:22:40 PM	R19523
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	51	30		mg/Kg	20	6/26/2014 1:45:16 PM	13914
EPA METHOD 7471: MERCURY						Analyst	DBD
Mercury	ND	0.032		mg/Kg	1	6/27/2014 11:10:55 AM	13918
EPA METHOD 6010B: SOIL METALS						Analyst	ELS
Arsenic	ND	5.0		mg/Kg	2	6/27/2014 8:26:26 AM	13928
Barium	170	0.20		mg/Kg	2	6/27/2014 8:26:26 AM	13928
Cadmium .	ND	0.20		mg/Kg	2	6/27/2014 8:26:26 AM	13928
Chromium	4.1	0.60		mg/Kg	2	6/27/2014 8:26:26 AM	13928
Lead	2.5	0.50		mg/Kg	2	6/27/2014 8:26:26 AM	13928
Selenium	ND	5.0		mg/Kg	2	6/27/2014 8:26:26 AM	13928
Silver	ND	0.50		mg/Kg	2	6/27/2014 8:26:26 AM	13928

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B94

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2014

CLIENT: Animas Environmental Services Client Sample ID: SC-5-N

 Project:
 Williams Trunk K
 Collection Date: 6/25/2014 9:45:00 AM

 Lab ID:
 1406B94-005
 Matrix: MEOH (SOIL)
 Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS	_			Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/26/2014 1:20:16 PM	13911
Surr: DNOP	82.0	57.9-140	%REC	1	6/26/2014 1:20:16 PM	13911
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	6/26/2014 12:51:21 PM	R19523
Surr: BFB	108	80-120	%REC	1	6/26/2014 12:51:21 PM	R19523
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.042	mg/Kg	1	6/26/2014 12:51:21 PM	R19523
Toluene	ND	0.042	mg/Kg	1	6/26/2014 12:51:21 PM	R19523
Ethylbenzene	ND	0.042	mg/Kg	1	6/26/2014 12:51:21 PM	R19523
Xylenes, Total	ND	0.083	mg/Kg	1	6/26/2014 12:51:21 PM	R19523
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/26/2014 12:51:21 PM	R19523
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	140	30	mg/Kg	20	6/26/2014 2:22:30 PM	13914
EPA METHOD 7471: MERCURY					Analyst	: DBD
Mercury	ND	0.033	mg/Kg	1	6/27/2014 11:12:45 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst	ELS
Arsenic	ND	5.0	mg/Kg	2	6/27/2014 8:27:40 AM	13928
Barium	150	0.20	mg/Kg	2	6/27/2014 8:27:40 AM	13928
Cadmium .	ND	0.20	mg/Kg	2	6/27/2014 8:27:40 AM	13928
Chromium	6.2	0.60	mg/Kg	2	6/27/2014 8:27:40 AM	13928
Lead	2.4	0.50	mg/Kg	2	6/27/2014 8:27:40 AM	13928
Selenium	ND	5.0	mg/Kg	2	6/27/2014 8:27:40 AM	13928
Silver	ND	0.50	mg/Kg	2	6/27/2014 8:27:40 AM	13928

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

Qualifiers:

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

Page 5 of 11

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B94

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13914

SampType: MBLK

TestCode: EPA Method 300.0: Anions

PBS

Batch ID: 13914

PQL

RunNo: 19547

Prep Date: 6/26/2014

Analysis Date: 6/26/2014

SeqNo: 566119

Units: mg/Kg

Analyte

Client ID:

SPK value SPK Ref Val %REC LowLimit HighLimit

RPDLimit

Qual

Chloride

ND 1.5

Sample ID LCS-13914

SampType: LCS

TestCode: EPA Method 300.0: Anions

SeqNo: 566120

Client ID: LCSS Prep Date: 6/26/2014

Batch ID: 13914 Analysis Date: 6/26/2014 RunNo: 19547

Units: mg/Kg

%RPD

RPDLimit Qual

Analyte

Result

SPK value SPK Ref Val

%REC

90

LowLimit

HighLimit

%RPD

15.00

110

0 93.8 Chloride 14 1.5

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2. P
- Reporting Detection Limit

Page 6 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B94

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

rroject: willian	IIS ITUIK K		
Sample ID MB-13911	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13911	RunNo: 19522	
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 564983	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	7.1 10.00	70.6 57.9	140
Sample ID LCS-13911	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13911	RunNo: 19522	
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 564984	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 89.3 68.6	130
Surr: DNOP	3.4 5.000	67.1 57.9	140
Sample ID MB-13913	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13913	RunNo: 19522	
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 565609	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	6.6 10.00	66.4 57.9	140
Sample ID LCS-13913	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13913	RunNo: 19522	
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 565610	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.1 5.000	61.7 57.9	140

Qualifiers:

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

Page 7 of 11

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B94

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13887 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R19523

RunNo: 19523

Prep Date:

Analysis Date: 6/26/2014

SeqNo: 565478

Units: mg/Kg

Analyte

Result PQL 5.0 SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO)

LCSS

ND 960

1000

95.6

80 120

Surr: BFB

TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-13887 MK

SampType: LCS

Batch ID: R19523

RunNo: 19523

LowLimit

Client ID: Prep Date:

Analysis Date: 6/26/2014

SeqNo: 565479

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result **PQL**

SPK value SPK Ref Val 25.00

%REC 115

LowLimit

HighLimit

Qual

1000

105

80

%RPD **RPDLimit**

Surr: BFB

29 5.0 1100

120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2. Reporting Detection Limit
- - Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B94

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13887 MK	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PB\$	Batc	ի ID: R1	9523	F	RunNo: 1	9523				
Prep Date:	Analysis [Date: 6 /	26/2014	8	SeqNo: 5	65515	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050				•				
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			
Sample ID LCS-13887 MK	Samp	Туре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: R1	9523	F	RunNo: 1	9523				
Prep Date:	Analysis [Date: 6/	26/2014	5	SeqNo: 5	65516	Units: mg/H	(q		

· .	Junp.	Samp rype: LCS restCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	Batch ID: R19523 RunNo: 19523								
Prep Date:	Analysis D	oate: 6/	26/2014	8	SeqNo: 5	65516	Units: mg/K	ξg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B94

30-Jun-14

Client:

Animas Environmental Services

Project:

Client ID:

Williams Trunk K

Sample ID MB-13918 SampType: MBLK

Batch ID: 13918

TestCode: EPA Method 7471: Mercury

RunNo: 19543

Prep Date: 6/26/2014

PBS

Analysis Date: 6/27/2014

PQL

SeqNo: 565912

Units: mg/Kg

HighLimit %RPD **RPDLimit** Qual

Analyte Mercury

ND 0.033

Sample ID LCS-13918

6/26/2014

SampType: LCS

TestCode: EPA Method 7471: Mercury

Client ID: **LCSS** Batch ID: 13918

Result

0.17

Result

RunNo: 19543

SPK value SPK Ref Val %REC LowLimit

SeqNo: 565913

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte

PQL

Analysis Date: 6/27/2014

SPK value SPK Ref Val %REC LowLimit 0.1667

101

80

120

Mercury

Prep Date:

0.033

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit

RPD outside accepted recovery limits R Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

Sample pH greater than 2.

Reporting Detection Limit

Page 10 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B94

30-Jun-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13928	SampT	SampType: MBLK			estCode: EPA Method 6010B: Soil Metals					
Client ID: PBS	Batch	Batch ID: 13928 RunNo: 1			19536					
Prep Date: 6/26/2014	Analysis Date: 6/27/2014			SeqNo: 565682			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Lead	ND	0.25								
Selenium	ND	2.5								
Silver	ND	0.25								

Sample ID LCS-13928	SampT	ype: LC	s	Tes	tCode: El	PA Method	6010B: Soil	Metals				
Client ID: LCSS	Batch	n ID: 13	928	F	RunNo: 1	9536	36					
Prep Date: 6/26/2014	Analysis D	Analysis Date: 6/27/2014			SeqNo: 565683 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Arsenic	24	2.5	25.00	0	98.0	80	120					
Barium	24	0.10	25.00	0	98.0	80	120					
Cadmium	25	0.10	25.00	0	99.1	80	120					
Chromium	25	0.30	25.00	0	99.7	80	120					
Lead	24	0.25	25.00	0	95.2	80	120					
Selenium	23	2.5	25.00	0	93.5	80	120					
Silver	5.1	0.25	5.000	0	103	80	120					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1406B94 RcptNo: 1 Received by/date Ashley Gallego's Logged By: 6/26/2014 8:10:00 AM 6/26/2014 8:28:34 AM Completed By: Reviewed By Chain of Custody 1. Custody seals intact on sample bottles? Yes No Not Present ✔ Yes 🗸 2. Is Chain of Custody complete? No Not Present 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? No ! NA : Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C NA . No 6. Sample(s) in proper container(s)? Yes 🗸 No 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? No 🗸 NA I 9. Was preservative added to bottles? Yes 10.VOA vials have zero headspace? No : No VOA Vials Yes 11. Were any sample containers received broken? Yes # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? No Yes (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? No Checked by: 15. Were all holding times able to be met? Yes 🗸 No (If no, notify customer for authorization.) Special Handling (if applicable) Yes !. 16 Was client notified of all discrepancies with this order? No NA N Person Notified: ·Date: By Whom: Via: Phone In Person | eMail Fax Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Good Yes Page 1 of 1

HALL ENVIRONMENTAL Client: Animas Environmental Services X Rush same day **ANALYSIS LABORATORY** □ Standard Project Name: www.hallenvironmental.com Mailing Address: 624 E Comanche St 4901 Hawkins NE - Albuquerque, NM 87109 Williams Trunk K Project #: Farmington, NM 87401 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request 505-564-2281 Phone #: 2540 120.1 Email or Fax#: Project Manager: 6010 Radioactivity - Alpha/Beta - EPA 900.0 QA/QC Package: K. Christiansen SS Dissolved Gases - RSK175 - USEPA X Standard □ Level 4 (Full Validation) Ammonia SM 4500 NH3 TSS - SM 2540D, TDS - EPA300.0 Sampler: S. Lynn Accreditation: Specific Conductance Alkalinity - SM 2320B Major Cations - EPA 200.7 Onlice 4 Mayes 4 1 No 4044 □ NELAP □ Other **TPH - EPA 8015B** Sulfide A4500-SD 8 Metals Sample Temperature: 1.7 ☐ EDD (Type) BTEX - 8021B Chlorides Container Preservative HEALING Arsenic Sample Request ID Date Time Matrix RCRA (Salinity Type and # Type ISC-1-N 6/25/14 0925 Soil 4oz jar 4° C 1406B94001 Х X Х X. SC-2-N 0930 4° C 6/25/14 Soil 4oz iar Χ Χ Х X. -002 6/25/14 SC-3-N 0935 Soil 4° C 4oz jar Х Х Х Х -003 SC-4-N 6/25/14 0940 Soil 4° C Х Х 4oz jar Х X. 0945 SC-5-N 4° C 6/25/14 Soil Х 4oz jar -005 Х Х Х Date: Time: Relinguished by: Received by: Date Time Remarks: Direct bill to Williams Field Services. Please email preliminary results ASAP to 1621 kchristiansen@animasenvironmental.com & ariling@animasenvironmental.com. Received by Date Time: If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

July 01, 2014

Kelsey Christiansen Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Williams Trunk K OrderNo.: 1406B97

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/26/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

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4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1406B97-001

Client Sample ID: Wash SC-1

Collection Date: 6/25/2014 12:10:00 PM Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS		·			Analyst	BCN
Diesel Range Organics (DRO)	250	10		mg/Kg	1	6/26/2014 10:08:08 PM	13913
Surr: DNOP	87.5	57.9-140		%REC	1	6/26/2014 10:08:08 PM	13913
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	35	4.8		mg/Kg	1	6/27/2014 1:39:43 PM	13921
Surr: BFB	281	80-120	S	%REC	1	6/27/2014 1:39:43 PM	13921
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.048		mg/Kg	1	6/27/2014 1:39:43 PM	13921
Toluene	ND	0.048		mg/Kg	1	6/27/2014 1:39:43 PM	13921
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2014 1:39:43 PM	13921
Xylenes, Total	0.23	0.097		mg/Kg	1	6/27/2014 1:39:43 PM	13921
Surr: 4-Bromofluorobenzene	112	80-120		%REC	1	6/27/2014 1:39:43 PM	13921
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	240	30		mg/Kg	20	6/27/2014 12:09:10 PM	13936
EPA METHOD 7471: MERCURY						Analyst	DBD
Mercury	ND	0.031		mg/Kg	1	6/27/2014 11:14:35 AM	13918
EPA METHOD 6010B: SOIL METALS						Analyst	ELS
Arsenic	ND	2.4		mg/Kg	1	6/27/2014 9:33:19 AM	13928
Barium	42	0.098		mg/Kg	1	6/27/2014 9:33:19 AM	13928
Cadmium .	ND	0.098		mg/Kg	1	6/27/2014 9:33:19 AM	13928
Chromium	6.4	0.29		mg/Kg	1	6/27/2014 9:33:19 AM	13928
Lead	2.6	0.24		mg/Kg	1	6/27/2014 9:33:19 AM	13928
Selenium	ND	2.4		mg/Kg	1	6/27/2014 9:33:19 AM	13928
Silver	ND	0.24		mg/Kg	1	6/27/2014 9:33:19 AM	13928

Matrix: SOIL

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

ronmental Services Client Sample ID: Wash SC-2

Project: Williams Trunk K

Lab ID:

1406B97-002

Matrix: SOIL

Collection Date: 6/25/2014 12:20:00 PM **Received Date:** 6/26/2014 8:10:00 AM

Analyses	Result	RL •	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	350	9.8		mg/Kg	1	6/26/2014 10:38:13 PM	13913
Surr: DNOP	92.4	57.9-140		%REC	1	6/26/2014 10:38:13 PM	13913
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	110	9.6		mg/Kg	2	6/27/2014 3:05:41 PM	13921
Surr: BFB	250	80-120	S	%REC	2	6/27/2014 3:05:41 PM	13921
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.096		mg/Kg	2	6/27/2014 3:05:41 PM	13921
Toluene	0.81	0.096		mg/Kg	2	6/27/2014 3:05:41 PM	13921
Ethylbenzene	0.22	0.096		mg/Kg	2	6/27/2014 3:05:41 PM	13921
Xylenes, Total	3.4	0.19		mg/Kg	2	6/27/2014 3:05:41 PM	13921
Surr: 4-Bromofluorobenzene	123	80-120	S	%REC	2	6/27/2014 3:05:41 PM	13921
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	160	30		mg/Kg	20	6/27/2014 12:21:35 PM	13936
EPA METHOD 7471: MERCURY						Analyst	DBD
Mercury	ND	0.033		mg/Kg	1	6/27/2014 11:16:25 AM	13918
EPA METHOD 6010B: SOIL METALS						Analyst	ELS
Arsenic	ND	2.5		mg/Kg	1	6/27/2014 9:34:34 AM	13928
Barium	62	0.10		mg/Kg	1	6/27/2014 9:34:34 AM	13928
Cadmium	. ND	0.10		mg/Kg	1	6/27/2014 9:34:34 AM	13928
Chromium	1.9	0.30		mg/Kg	1	6/27/2014 9:34:34 AM	13928
Lead	1.6	0.25		mg/Kg	· 1	6/27/2014 9:34:34 AM	13928
Selenium	ND	2.5		mg/Kg	1	6/27/2014 9:34:34 AM	13928
Silver	ND	0.25		mg/Kg	1	6/27/2014 9:34:34 AM	13928

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1406B97-003

Client Sample ID: Wash SC-3

Collection Date: 6/25/2014 12:25:00 PM

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	18	9.8	mg/Kg	1	6/26/2014 11:08:32 PM	13913
Surr: DNOP	81.4	57.9-140	%REC	1	6/26/2014 11:08:32 PM	13913
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/27/2014 4:31:39 PM	13921
Surr: BFB	112	80-120	%REC	1	6/27/2014 4:31:39 PM	13921
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.047	mg/Kg	1	6/27/2014 4:31:39 PM	13921
Toluene	ND	0.047	mg/Kg	1	6/27/2014 4:31:39 PM	13921
Ethylbenzene	ND	0.047	mg/Kg	1	6/27/2014 4:31:39 PM	13921
Xylenes, Total	ND	0.095	mg/Kg	1	6/27/2014 4:31:39 PM	13921
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	6/27/2014 4:31:39 PM	13921
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	6/27/2014 12:34:00 PM	13936
EPA METHOD 7471: MERCURY					Analyst	DBD
Mercury	ND	0.034	mg/Kg	1	6/27/2014 11:18:17 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst:	ELS
Arsenic	ND	2.5	mg/Kg	1	6/27/2014 9:39:39 AM	13928
Barium	69	0.099	mg/Kg	1	6/27/2014 9:39:39 AM	13928
Cadmium	ND	. 0.099	mg/Kg	1	6/27/2014 9:39:39 AM	13928
Chromium	3.0	0.30	mg/Kg	1	6/27/2014 9:39:39 AM	13928
Lead	2.2	0.25	mg/Kg	1	6/27/2014 9:39:39 AM	13928
Selenium	ND	2.5	mg/Kg	1	6/27/2014 9:39:39 AM	13928
Silver	ND	0.25	mg/Kg	1	6/27/2014 9:39:39 AM	13928

Matrix: SOIL

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1406B97-004

Client Sample ID: Wash SC-4

Collection Date: 6/25/2014 12:30:00 PM

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	34	10	mg/Kg	1	6/26/2014 11:38:33 PM	13913
Surr: DNOP	81.9	57.9-140	%REC	1	6/26/2014 11:38:33 PM	13913
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/27/2014 5:00:23 PM	13921
Surr: BFB	101	80-120	%REC	1	6/27/2014 5:00:23 PM	13921
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	6/27/2014 5:00:23 PM	13921
Toluene	ND	0.049	mg/Kg	1	6/27/2014 5:00:23 PM	13921
Ethylbenzene	ND	0.049	mg/Kg	1	6/27/2014 5:00:23 PM	13921
Xylenes, Total	ND	0.099	mg/Kg	1	6/27/2014 5:00:23 PM	13921
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/27/2014 5:00:23 PM	13921
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	130	30	mg/Kg	20	6/27/2014 1:11:13 PM	13936
EPA METHOD 7471: MERCURY					Analyst	DBD
Mercury	ND	0.033	mg/Kg	1	6/27/2014 11:20:09 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst	ELS
Arsenic	5.3	2.4	mg/Kg	1	6/27/2014 9:40:58 AM	13928
Barium	47	0.096	mg/Kg	1	6/27/2014 9:40:58 AM	13928
Cadmium	ND	0.096	mg/Kg	1	6/27/2014 9:40:58 AM	13928
Chromium	1.8	0.29	mg/Kg	1	6/27/2014 9:40:58 AM	13928
Lead	2.5	0.24	mg/Kg	1	6/27/2014 9:40:58 AM	13928
Selenium	ND	2.4	mg/Kg	1	6/27/2014 9:40:58 AM	13928
Silver	ND	0.24	mg/Kg	1	6/27/2014 9:40:58 AM	13928

Matrix: SOIL

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1406B97-005

Matrix: SOIL

Collection Date: 6/25/2014 12:40:00 PM Received Date: 6/26/2014 8:10:00 AM

Client Sample ID: Wash SC-5

Result **RL Qual Units DF** Date Analyzed Analyses Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) 680 mg/Kg 6/27/2014 12:08:48 AM 13913 10 1 Surr: DNOP 103 57.9-140 %REC 6/27/2014 12:08:48 AM 13913 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 6/27/2014 5:29:03 PM 13921 4.7 ma/Ka 1 Surr: BFB 100 80-120 %REC 1 6/27/2014 5:29:03 PM 13921 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Renzene ND 0.047 mg/Kg 6/27/2014 5:29:03 PM 13921 1 Toluene ND 0.047 mg/Kg 6/27/2014 5:29:03 PM 13921 1 ND Ethylbenzene 0.047 mg/Kg 1 6/27/2014 5:29:03 PM 13921 Xylenes, Total ND 0.093 mg/Kg 6/27/2014 5:29:03 PM 13921 Surr: 4-Bromofluorobenzene 103 80-120 %REC 1 6/27/2014 5:29:03 PM 13921 **EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 300 30 6/27/2014 1:23:38 PM mg/Kg 13936 **EPA METHOD 7471: MERCURY** Analyst: DBD 0.034 ND 6/27/2014 11:21:53 AM 13918 Mercury mg/Kg **EPA METHOD 6010B: SOIL METALS** Analyst: ELS Arsenic ND 6/27/2014 9:42:13 AM 2.4 mg/Kg 13928 1 Barium 90 0.097 mg/Kg 6/27/2014 9:42:13 AM 1 Cadmium ND 0.097 6/27/2014 9:42:13 AM 13928 mg/Kg 1 Chromium 2.9 0.29 mg/Kg 6/27/2014 9:42:13 AM 13928 Lead 2.1 0.24 mg/Kg 1 6/27/2014 9:42:13 AM 13928 Selenium ND 2.4 mg/Kg 1 6/27/2014 9:42:13 AM 13928 Silver ND 0.24 mq/Kq 6/27/2014 9:42:13 AM 13928

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/1/2014

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1406B97-006 Client Sample ID: Wash SC-6

Collection Date: 6/25/2014 12:50:00 PM

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			·	Analyst	BCN
Diesel Range Organics (DRO)	46	10	mg/Kg	1	6/27/2014 12:39:19 AM	13913
Surr: DNOP	88.9	57.9-140	%REC	1	6/27/2014 12:39:19 AM	13913
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/27/2014 9:18:09 PM	13921
Surr: BFB	96.9	80-120	%REC	1	6/27/2014 9:18:09 PM	13921
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	6/27/2014 9:18:09 PM	13921
Toluene	ND	0.048	mg/Kg	1	6/27/2014 9:18:09 PM	13921
Ethylbenzene	ND	0.048	mg/Kg	1	6/27/2014 9:18:09 PM	13921
Xylenes, Total	ND	0.096	mg/Kg	1	6/27/2014 9:18:09 PM	13921
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/27/2014 9:18:09 PM	13921
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	310	30	mg/Kg	20	6/27/2014 1:36:03 PM	13936
EPA METHOD 7471: MERCURY					Analyst	DBD
Mercury	ND	0.033	mg/Kg	1	6/27/2014 11:23:37 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst	ELS
Arsenic	2.6	2.4	mg/Kg	1	6/27/2014 9:43:28 AM	13928
Barium	66	0.097	mg/Kg	1	6/27/2014 9:43:28 AM	13928
Cadmium .	ND	0.097	mg/Kg	1	6/27/2014 9:43:28 AM	13928
Chromium	2.9	0.29	mg/Kg	1	6/27/2014 9:43:28 AM	13928
Lead	2.3	0.24	mg/Kg	1	6/27/2014 9:43:28 AM	13928
Selenium	ND	2.4	mg/Kg	1	6/27/2014 9:43:28 AM	13928
Silver	ND	0.24	mg/Kg	1	6/27/2014 9:43:28 AM	13928

Matrix: SOIL

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

Qualifiers:

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

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- Sample pH greater than 2.
- Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1406B97-007

Matrix: SOIL

Collection Date: 6/25/2014 1:00:00 PM

Received Date: 6/26/2014 8:10:00 AM

Client Sample ID: Wash SC-7

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) 49 10 mg/Kg 6/27/2014 1:09:47 AM 13913 Surr: DNOP 89.1 %REC 57.9-140 1 6/27/2014 1:09:47 AM 13913 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 6/27/2014 9:46:47 PM 13921 1 Surr: BFB 95.2 %REC 6/27/2014 9:46:47 PM 80-120 13921 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.048 6/27/2014 9:46:47 PM mg/Kg 1 13921 Toluene ND 0.048 mg/Kg 1 6/27/2014 9:46:47 PM 13921 Ethylbenzene ND mg/Kg 0.048 6/27/2014 9:46:47 PM 13921 1 Xylenes, Total ND 0.096 6/27/2014 9:46:47 PM mg/Kg 13921 Surr: 4-Bromofluorobenzene 104 80-120 %REC 6/27/2014 9:46:47 PM 13921 1 **EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 170 6/27/2014 1:48:28 PM 30 mg/Kg 13936 **EPA METHOD 7471: MERCURY** Analyst: DBD Mercury ND 0.033 6/27/2014 11:25:22 AM 13918 mg/Kg **EPA METHOD 6010B: SOIL METALS** Analyst: ELS Arsenic ND mg/Kg 6/27/2014 9:44:43 AM 13928 2.5 1 Barium 74 0.099 6/27/2014 9:44:43 AM mg/Kg Cadmium ND 0.099 mg/Kg 6/27/2014 9:44:43 AM 13928 1 Chromium 2.5 0.30 mg/Kg 6/27/2014 9:44:43 AM 13928 Lead 0.25 13928 24 mg/Kg 1 6/27/2014 9:44:43 AM Selenium ND 2.5 mg/Kg 1 6/27/2014 9:44:43 AM 13928 Silver ND 0.25 mg/Kg 6/27/2014 9:44:43 AM 13928

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID:

1406B97-008 Matrix: SOIL

Client Sample ID: Background

Collection Date: 6/25/2014 8:15:00 AM **Received Date:** 6/26/2014 8:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/27/2014 1:40:13 AM	13913
Surr: DNOP	74.2	57.9-140	%REC	1	6/27/2014 1:40:13 AM	13913
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/27/2014 10:15:27 PM	13921
Surr: BFB	96.3	80-120	%REC	1	6/27/2014 10:15:27 PM	13921
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.050	mg/Kg	1	6/27/2014 10:15:27 PM	13921
Toluene	ND	0.050	mg/Kg	1	6/27/2014 10:15:27 PM	13921
Ethylbenzene	ND	0.050	mg/Kg	1	6/27/2014 10:15:27 PM	13921
Xylenes, Total	ND	0.099	mg/Kg	1	6/27/2014 10:15:27 PM	13921
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/27/2014 10:15:27 PM	13921
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	6/27/2014 2:50:32 PM	13936
EPA METHOD 7471: MERCURY					Analyst	DBD
Mercury	ND	0.031	mg/Kg	1	6/27/2014 11:27:09 AM	13918
EPA METHOD 6010B: SOIL METALS					Analyst	ELS
Arsenic	4.5	2.5	mg/Kg	1	6/27/2014 9:45:57 AM	13928
Barium	56	0.10	mg/Kg	1	6/27/2014 9:45:57 AM	13928
Cadmium	. ND	0.10	mg/Kg	1	6/27/2014 9:45:57 AM	13928
Chromium	2.9	0.30	mg/Kg	1	6/27/2014 9:45:57 AM	13928
Lead	2.4	0.25	mg/Kg	1	6/27/2014 9:45:57 AM	13928
Selenium	ND	2.5	mg/Kg	1	6/27/2014 9:45:57 AM	13928
Silver	ND	0.25	mg/Kg	1	6/27/2014 9:45:57 AM	13928

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID:

1406B97-009

Matrix: SOIL

Client Sample ID: Wash S-1

Collection Date: 6/25/2014 1:05:00 PM **Received Date:** 6/26/2014 8:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS			<u>-</u> :		Analys	BCN
Diesel Range Organics (DRO)	800	9.8		mg/Kg	1	6/27/2014 2:10:40 AM	13913
Surr: DNOP	94.6	57.9-140		%REC	1	6/27/2014 2:10:40 AM	13913
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	89	9.8		mg/Kg	2	6/27/2014 10:44:04 PM	1 13921
Surr: BFB	471	80-120	S	%REC	2	6/27/2014 10:44:04 PM	13921
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.098		mg/Kg	2	6/27/2014 10:44:04 PM	1 13921
Toluene	ND	0.098		mg/Kg	2	6/27/2014 10:44:04 PM	I 13921
Ethylbenzene	ND	0.098		mg/Kg	2	6/27/2014 10:44:04 PM	13921
Xylenes, Total	ND	0.20		mg/Kg	2	6/27/2014 10:44:04 PM	13921
Surr: 4-Bromofluorobenzene	124	80-120	S	%REC	2	6/27/2014 10:44:04 PM	13921

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

Qualifiers:

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

Page 9 of 16

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406B97

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Wash S-2

Project: Williams Trunk K

Collection Date: 6/25/2014 1:10:00 PM

Lab ID: 1406B97-010

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS		•	-	Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/27/2014 2:40:45 AM	13913
Surr: DNOP	86.0	57.9-140	%REC	1	6/27/2014 2:40:45 AM	13913
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/27/2014 11:12:39 PM	1 13921
Surr: BFB	113	80-120	%REC	1	6/27/2014 11:12:39 PM	/ 13921
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/27/2014 11:12:39 PM	1 13921
Toluene	ND	0.049	mg/Kg	1	6/27/2014 11:12:39 PM	1 13921
Ethylbenzene	ND	0.049	mg/Kg	1	6/27/2014 11:12:39 PM	1 13921
Xylenes, Total	ND	0.098	mg/Kg	1	6/27/2014 11:12:39 PM	1 13921
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	6/27/2014 11:12:39 PM	1 13921

Matrix: SOIL

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B97

01-Jul-14

Client:

Animas Environmental Services

Project:

Prep Date:

Client ID:

Williams Trunk K

Sample ID MB-13936

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: **PBS**

6/27/2014

Batch ID: 13936 Analysis Date: 6/27/2014

PQL

RunNo: 19582

%REC

SPK value SPK Ref Val

SPK value SPK Ref Val

SeqNo: 567620

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Chloride

ND 1.5

Sample ID LCS-13936

SampType: LCS Batch ID: 13936 TestCode: EPA Method 300.0: Anions RunNo: 19582

6/27/2014 Prep Date:

LCSS

Analysis Date: 6/27/2014

SeqNo: 567621

Units: mg/Kg HighLimit

%RPD

%RPD

Qual

Analyte

15.00

0

110

RPDLimit

Result

%REC 92.6

Chloride

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

RSD is greater than RSDImit 0

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Sample pH greater than 2.

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B97

01-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

l	Sample I	D I	MB-13911
i	Cample 1	•	MD-13311

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: **PBS**

Batch ID: 13911

RunNo: 19522

Prep Date: 6/26/2014 Analysis Date: 6/26/2014

SeqNo: 564983

70.6

Units: %REC

Analyte

Result POL

SPK value SPK Ref Val %REC

RPDLimit Qual

Surr: DNOP

7.1

Result

Result

Result

Result

Result

4.2

46

3.1

ND

6.6

LowLimit 57.9

%RPD HighLimit 140

Sample ID LCS-13911

SampType: LCS

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Prep Date:

Batch ID: 13911

PQL

RunNo: 19522

SeqNo: 564984

RunNo: 19522

Units: %REC

Analyte Surr: DNOP 6/26/2014

Analysis Date: 6/26/2014

SPK value SPK Ref Val

%REC

LowLimit HighLimit

TestCode: EPA Method 8015D: Diesel Range Organics

%RPD **RPDLimit**

Qual

3.4

5.000

10.00

67.1

57.9

LowLimit

140

Sample ID MB-13913

Analyte

Surr: DNOP

PBS

Client ID:

Prep Date:

6/26/2014

Analysis Date: 6/26/2014

SampType: MBLK

Batch ID: 13913

PQL

10

SPK value SPK Ref Val

SPK value SPK Ref Val

SPK value SPK Ref Val

5.000

%REC

SeqNo: 565609

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-13913

Diesel Range Organics (DRO)

Client ID: LCSS

SampType: LCS

10.00

50.00

5.000

TestCode: EPA Method 8015D: Diesel Range Organics RunNo: 19522

66.4

%RPD

Analyte

Prep Date: 6/26/2014

Batch ID: 13913

Analysis Date: 6/26/2014

SeqNo: 565610 %REC

92.5

RunNo: 19537

74.1

68.6

57.9

LowLimit

57.9

LowLimit

57.9

Units: mg/Kg

130

140

RPDLimit Qual

Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-13931

SampType: MBLK

Batch ID: 13931

Analysis Date: 6/27/2014

PQL

PQL

10

0

61.7 57.9

140

TestCode: EPA Method 8015D: Diesel Range Organics

HighLimit

HighLimit

Client ID:

Prep Date:

PRS

6/27/2014

7.4

10.00

SPK value SPK Ref Val %REC

SeqNo: 565685 LowLimit

Units: %REC

%RPD

%RPD

RPDLimit

Qual

Surr: DNOP

Sample ID LCS-13931

Batch ID: 13931

Analysis Date: 6/27/2014

PQL

SampType: LCS

TestCode: EPA Method 8015D: Diesel Range Organics RunNo: 19537

SeqNo: 565790

%REC

83.6

140

Units: %REC

HighLimit

140

RPDLimit Qual

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Analyte

Surr: DNOP

Client ID: LCSS

Prep Date: 6/27/2014

Qualifiers:

E Value above quantitation range

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

P Sample pH greater than 2.

Not Detected at the Reporting Limit

Reporting Detection Limit

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limits RSD is greater than RSDlimit O

RPD outside accepted recovery limits R

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B97

01-Jul-14

Client:

Animas Environmental Services

Project.

Williams Trunk K

Sample ID MB-13921 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range														
Prep Date: 6/26/2014		TestCode: EPA Method 8015D: Gasoline Range							уре: МЕ	Samp	MB-13921	Sample ID		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) ND 5.0 Surr. BFB 930 1000 93.5 80 120 Sample ID LCS-13921 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566588 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 29 5.0 25.00 0 117 71.7 134 Surr. BFB 1000 1000 1000 101 80 120 Sample ID 1406B97-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566594 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr. BFB 3200 969.0 TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Surr. BFB 3200 969.0 TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Surr. BFB 3200 969.0 TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range		RunNo: 19545							ID: 13	Batcl	PBS	Client ID:		
Sample ID LCS-13921 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range			g	Units: mg/K	6587	eqNo: 5	S	Prep Date: 6/26/2014 Analysis Date: 6/27/2014			Prep Date:			
Surr: BFB 930 1000 93.5 80 120	Qual	RPDLimit	%RPD	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	PQL_	Result		Analyte		
Sample ID LCS-13921 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566588 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 29 5.0 25.00 0 117 71.7 134 Surr: BFB 1000 1000 101 80 120 Sample ID 1406B97-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 <t< td=""><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.0</td><td>ND</td><td>ge Organics (GRO)</td><td>Gasoline Rang</td></t<>	,								5.0	ND	ge Organics (GRO)	Gasoline Rang		
Client ID: LCSS Batch ID: 13921 RunNo: 19545				120	80	93.5		1000		930		Surr: BFB		
Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566588 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 29 5.0 25.00 0 117 71.7 134 Surr: BFB 1000 1000 1011 80 120 Sample ID 1406B97-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566594 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0		е	line Rang	8015D: Gaso	A Method	Code: El	Test	s	Sample ID LCS-13921 SampType: LCS					
Analyte					545	tunNo: 1	R	921	ID: 13	Batcl	LCSS	Client ID:		
Gasoline Range Organics (GRO) 29 5.0 25.00 0 117 71.7 134			g	Units: mg/K	6588	SeqNo: 5	S	27/2014	ate: 6/	Analysis [6/26/2014	Prep Date:		
Surr: BFB 1000 1000 101 80 120 Sample ID 1406B97-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analyse SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0 TestCode: EPA Method 8015D: Gasoline Range Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual	RPDLimit	%RPD	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	PQL.	Result		Analyte		
Sample ID 1406B97-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566594 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0 327 80 120 SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit				134	71.7	117	0	25.00	5.0	29	ge Organics (GRO)	Gasoline Rang		
Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566594 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0 327 80 120 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit				120	80	101		1000		1000		Surr: BFB		
Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566594 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0 327 80 120 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit		TestCode: EPA Method 8015D: Gasoline Range							уре: МS	VIS Samp	1406B97-001AN	Sample ID		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0 327 80 120 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit					545	tunNo: 1	R	921	ID: 13	Batc	Wash SC-1	Client ID:		
Gasoline Range Organics (GRO) 86 4.8 24.22 35.49 208 71.8 132 Surr: BFB 3200 969.0 327 80 120 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit			g	Units: mg/K	6594	SeqNo: 5	S	27/2014	ate: 6/	Analysis [6/26/2014	Prep Date:		
Surr: BFB 3200 969.0 327 80 120 Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual	RPDLimit	%RPD	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	PQL	Result		Analyte		
Sample ID 1406B97-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	S			132	71.8	208	35.49	24.22	4.8	86	ge Organics (GRO)	Gasoline Rang		
Client ID: Wash SC-1 Batch ID: 13921 RunNo: 19545 Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	S	_		120	80	327		969.0		3200		Surr: BFB		
Prep Date: 6/26/2014 Analysis Date: 6/27/2014 SeqNo: 566595 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	-	е	line Rang	8015D: Gaso	A Method	tCode: El	Tes	SD	уре: М	VISD Samp	1406B97-001AN	Sample ID		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit					545	tunNo: 1	R	921	ID: 13	Batc	Wash SC-1	Client ID:		
			g	Units: mg/K	6595	SeqNo: 5	S	27/2014	ate: 6/	Analysis [6/26/2014	Prep Date:		
	Qual	RPDLimit	%RPD	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	PQL	Result		Analyte		
Gasoline Range Organics (GRO) 73 4.8 24.25 35.49 154 71.8 132 16.5 20	S	20	16.5	132	71.8	154	35.49	24.25	4.8	73	ge Organics (GRO)	Gasoline Rang		
Surr BFR 3300 969.9 336 80 120 0 0	S	0	0	120	80	336		969.9		3300		Surr: BFB		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Sample pH greater than 2.

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Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B97

01-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13921 SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PB\$	Client ID: PBS Batch ID: 13921			RunNo: 19545						
Prep Date: 6/26/2014	Prep Date: 6/26/2014 Analysis Date: 6/27/2014		27/2014	SeqNo: 566622			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID LCS-13921	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Sample ID LCS-13921 Client ID: LCSS	•	ype: LC			tCode: ER		8021B: Volat	tiles		
·	•	n ID: 13	921	F		9545	8021B: Volat			- 10 or 100 or
Client ID: LCSS	Batcl	n ID: 13	921 27/2014	F	RunNo: 1	9545			RPDLimit	Qual
Client ID: LCSS Prep Date: 6/26/2014 Analyte	Batcl Analysis D	n ID: 13 Pate: 6/	921 27/2014	F	RunNo: 19	9545 66623	Units: mg/K	(g	RPDLimit	Qual
Client ID: LCSS Prep Date: 6/26/2014 Analyte Benzene	Batcl Analysis D Result	n ID: 13 Pate: 6 /	921 27/2014 SPK value	SPK Ref Val	RunNo: 1 9 SeqNo: 5 0 %REC	9545 66623 LowLimit	Units: mg/K	(g	RPDLimit	Qual
Client ID: LCSS Prep Date: 6/26/2014 Analyte Benzene Toluene	Batcl Analysis E Result 1.1	PQL 0.050	921 27/2014 SPK value 1.000	SPK Ref Val	RunNo: 19 SeqNo: 50 %REC 105	9545 66623 LowLimit 80	Units: mg/K HighLimit 120	(g	RPDLimit	Qual
Client ID: LCSS Prep Date: 6/26/2014	Batcl Analysis D Result 1.1	PQL 0.050 0.050	921 27/2014 SPK value 1.000 1.000	SPK Ref Val 0 0	RunNo: 19 SeqNo: 56 %REC 105 101	9545 66623 LowLimit 80 80	Units: mg/K HighLimit 120 120	(g	RPDLimit	Qual

Sample ID 1406B97-002AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles							
Client ID: Wash SC-2	Batch ID: 13921			F	RunNo: 1						
Prep Date: 6/26/2014	Analysis D	ate: 6/	27/2014	S	SeqNo: 5	66635	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit_	Qual	
Benzene	1.1	0.097	0.9662	0.04723	113	77.4	142			_	
Toluene	1.5	0.097	0.9662	0.8122	76.2	77	132			S	
Ethylbenzene	1.2	0.097	0.9662	0.2230	106	77.6	134				
Xylenes, Total	5.1	0.19	2.899	3.371	59.6	77.4	132			S	
Surr: 4-Bromofluorobenzene	2.3		1.932		120	80	120				

Sample ID 1406B97-002AMSD SampType: MSD				TestCode: EPA Method 8021B: Volatiles						
Client ID: Wash SC-2	Batch	Batch ID: 13921			RunNo: 1					
Prep Date: 6/26/2014	Analysis D	ate: 6/	27/2014	S	SeqNo: 5	66636	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.097	0.9699	0.04723	110	77.4	142	1.91	20	
Toluene	1.4	0.097	0.9699	0.8122	62.4	77	132	8.80	20	S
Ethylbenzene	1.3	0.097	0.9699	0.2230	110	77.6	134	3.20	20	
Xylenes, Total	5.2	0.19	2.910	3.371	62.8	77.4	132	1.96	20	S
Surr: 4-Bromofluorobenzene	2.3		1.940		121	80	120	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 14 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B97

01-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13918

SampType: MBLK

TestCode: EPA Method 7471: Mercury

Client ID:

PBS

Batch ID: 13918

RunNo: 19543

SPK value SPK Ref Val %REC LowLimit

Prep Date: 6/26/2014 Analysis Date: 6/27/2014

SeqNo: 565912

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Analyte Mercury

Result PQL

ND 0.033

SampType: LCS

TestCode: EPA Method 7471: Mercury

Client ID: LCSS

Sample ID LCS-13918

Batch ID: 13918

RunNo: 19543

Prep Date: 6/26/2014 Analysis Date: 6/27/2014

SeqNo: 565913

Units: mg/Kg

SPK value SPK Ref Val

%REC LowLimit

%RPD **RPDLimit**

Qual

PQL

HighLimit

Analyte

Result

0.17

Mercury

101

80

120

0.033 0.1667 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range E

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Sample pH greater than 2.

Page 15 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B97

01-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-13928	Samp1	SampType: MBLK			TestCode: EPA Method 6010B: Soil Metals						
Client ID: PBS	Batch ID: 13928			RunNo: 19536							
Prep Date: 6/26/2014	Analysis [Date: 6 /	27/2014	8	SeqNo: 5 6	65682	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	2.5									
Barium	ND	0.10									
Cadmium	ND	0.10									
Chromium	ND	0.30									
.ead	ND	0.25									
Selenium	ND	2.5									
Silver	ND	0.25									

Sample ID LCS-13928	SampT	ype: LC	S	TestCode: EPA Method 6010B: Soil Metals							
Client ID: LCSS	Batch	n ID: 13	928	F	RunNo: 1						
Prep Date: 6/26/2014	Analysis Date: 6/27/2014			5	SeqNo: 565683 Units: n			g/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	24	2.5	25.00	0	98.0	80	120				
Barium	24	0.10	25.00	0	98.0	80	120				
Cadmium	25	0.10	25.00	0	99.1	80	120				
Chromium	25	0.30	25.00	0	99.7	80	120				
Lead	24	0.25	25.00	0	95.2	80	120				
Selenium	23	2.5	25.00	0	93.5	80	120				
Silver	5.1	0.25	5.000	0	103	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 16 of 16

- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Client Name: Animas Environmen	tal Work Order Number:	1406B97		RcptNo:	1
Received by/date:	00/2014				
Logged By: Lindsay/Mangin	6/26/2014 8:10:00 AM		Analy Houge		
Completed By: Lindsay Mangin	6/26/2014 8:59:21 AM		Street Henry		
Reviewed By:	MARIAIU		000		
Chain of Custody	- Oyaq14				
1. Custody seals intact on sample bo	ttles?	Yes 🗌	No 🗀	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Was an attempt made to cool the	samples?	Yes 🗹	No 🗌	na 🗆	
5. Were all samples received at a ter	nperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample volume for indica	ated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ON	G) 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 rece	ived broken?	Yes	No 🗹	# of preserved	
				bottles checked	
12. Does paperwork match bottle labe (Note discrepancies on chain of cu		Yes 🗹	No L	for pH: (<2 c	r >12 unless noted)
13. Are matrices correctly identified or		Yes 🗸	No 🗆	Adjusted?	
14. Is it clear what analyses were requ		Yes 🗹	No 🗆		
15. Were all holding times able to be r	met?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authoriza	ation.)		l		
Special Handling (if applicable	e)				
16. Was client notified of all discrepan		Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date:				7
By Whom:	Via:	eMail [Phone Fax	☐ In Person	
Regarding:	an and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			_	
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17. Additional remarks:					_
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Client:	Animas	Enviro	nmental Services	X Standard	□ Rus	h	_ _ [_											R)	
*				Project Name	•									ironr						•	
Mailing Add	dress:	624 E (Comanche St	 Williams Trun	kK			490	1 H									7109			
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X Standar	d		☐ Level 4 (Full Validation)					- EPA	- SM			- EPA 900.0	(17)	1					<u>8</u>		
Accreditation	on:	□ Other		Sampler: S. On lee:	lynn		9.8	auce mce	TDS			eta - E	-RSF	- EPA300.0	7.00	2320B			4500 NH3	USEPA	
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	JEAL NO	Arsenic - EPA	Specific Conductance	TSS - SM 2540D	Sulfide A4500-SD	Salinity	Radioactivity - Alp	Dissolved Gases - RSK175	Chlorides - E	Major Cations - E	Alkalinity - SM	BTEX - 8021B	TPH - EPA 80	Ammonia SM	RCRA 8 Metals	
6/25/14	1210	Soil	Wash SC-1	1-4oz jar	4° C	-001								Х			Х	х		Х	
6/25/14	1220	Soil	Wash SC-2	1-4oz jar	4° C	-002								Х			Х	x		Х	
6/25/14	1225	Soil	Wash SC-3	1-4oz jar	4° C	-003								х			Х	×		×	
6/25/14	1230	Soil	Wash SC-4	1-4oz jar	4° C	-024								Х			Х	х		х	
6/25/14	1240	Soil	Wash SC-5	1-4oz jar	4° C	-005			Ì					Х			Х	Х		Х	
6/25/14	1250	Soil	Wash SC-6	1-4oz jar	4° C	-00c								х			Х	Х		Х	
6/25/14	1300	Soil	Wash SC-7	1-4oz jar	4° C	-007								×			Х	х		х	
6/25/14	0815	Soil	Background	1-4oz jar	4° C	-00%								X			Χ	X		Х	L
6/25/14	1305	Soil	Wash S-1	1-4oz jar	4° C	-00g											Х	X			_
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Date:	Time:	Relinquish Relinquish	linie Algu	Received by:	1	Date Time (//25/14 1U21 Date Time	prel kchr	narks: iminai istian ng@a	ry re sen	sults @an	AS/ imas	AP to envi	o ronm	nenta			s. Ple	∍ase	ema	il	
125/14	necessary, d	amples submi	tted to Hall Environmental may be sub-	contracted to other a		(a/Z(a/L/L/O/S)/l) ies. This serves as notice of	this po	ossibility	/. An	y sub-	contra	cted d	ata wi	ll be cl	early r	otated	d on th	ne ana	lytical	report	



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

July 21, 2014

Kelsey Christiansen Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Williams Trunk K OrderNo.: 1407844

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/18/2014 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1407844

Date Reported: 7/21/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID:

1407844-001

Client Sample ID: Wash SC-7

Collection Date: 7/17/2014 9:10:00 AM **Received Date:** 7/18/2014 7:35:00 AM

DF Date Analyzed Analyses Result **RL Qual Units** Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) ND 7/18/2014 11:12:29 AM 14297 10 mg/Kg 1 Surr: DNOP 88.88 57.9-140 %REC 7/18/2014 11:12:29 AM 14297 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 7/18/2014 11:27:50 AM R19984 Gasoline Range Organics (GRO) ND 3.3 mg/Kg Surr: BFB 109 80-120 %REC 7/18/2014 11:27:50 AM R19984 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.033 mg/Kg 7/18/2014 11:27:50 AM R19984 Toluene ND 0.033 mg/Kg 7/18/2014 11:27:50 AM R19984 Ethylbenzene ND 0.033 mg/Kg 7/18/2014 11:27:50 AM R19984 Xylenes, Total ND 0.067 7/18/2014 11:27:50 AM R19984 mg/Kg Surr: 4-Bromofluorobenzene 113 80-120 %REC 7/18/2014 11:27:50 AM R19984

Matrix: MEOH (SOIL)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 1 of 10
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407844

Date Reported: 7/21/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Wash SC-8

Project:

Williams Trunk K

Collection Date: 7/17/2014 9:20:00 AM

Lab ID: 1407844-002

Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/18/2014 11:34:07 AM	14297
Surr: DNOP	84.3	57.9-140	%REC	1	7/18/2014 11:34:07 AM	14297
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	7/18/2014 11:56:30 AM	R19984
Surr: BFB	90.6	80-120	%REC	1	7/18/2014 11:56:30 AM	R19984
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.033	mg/Kg	1	7/18/2014 11:56:30 AM	R19984
Toluene	ND	0.033	mg/Kg	1	7/18/2014 11:56:30 AM	R19984
Ethylbenzene	ND	0.033	mg/Kg	1	7/18/2014 11:56:30 AM	R19984
Xylenes, Total	ND	0.067	mg/Kg	1	7/18/2014 11:56:30 AM	R19984
Surr: 4-Bromofluorobenzene	99.2	80-120	%REC	1	7/18/2014 11:56:30 AM	R19984

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- magged QC data and preservation information.
- H Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

Page 2 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407844

Date Reported: 7/21/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: South Excavation SC-6

Project: Williams Trunk K

Collection Date: 7/17/2014 8:45:00 AM

Lab ID: 1407844-003 Matrix: MEOH (SOIL) Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/18/2014 11:55:44 AM	14297
Surr: DNOP	78.6	57.9-140	%REC	1	7/18/2014 11:55:44 AM	14297
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	7/18/2014 12:25:12 PM	R19984
Surr: BFB	89.2	80-120	%REC	1	7/18/2014 12:25:12 PM	R19984
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.035	mg/Kg	1	7/18/2014 12:25:12 PM	R19984
Toluene	ND	0.035	mg/Kg	1	7/18/2014 12:25:12 PM	R19984
Ethylbenzene	ND	0.035	mg/Kg	1	7/18/2014 12:25:12 PM	R19984
Xylenes, Total	ND	0.070	mg/Kg	1	7/18/2014 12:25:12 PM	R19984
Surr: 4-Bromofluorobenzene	98.0	80-120	%REC	1	7/18/2014 12:25:12 PM	R19984

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

Qualifiers:

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

Page 3 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407844

Date Reported: 7/21/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: South Excavation SC-7

Project: Williams Trunk K

Collection Date: 7/17/2014 8:50:00 AM

Lab ID: 1407844-004 Matrix: MEOH (SOIL) Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/18/2014 12:17:19 PM	14297
Surr: DNOP	83.4	57.9-140	%REC	1	7/18/2014 12:17:19 PM	14297
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	7/18/2014 12:53:49 PM	R19984
Surr: BFB	92.8	80-120	%REC	1	7/18/2014 12:53:49 PM	R19984
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.033	mg/Kg	1	7/18/2014 12:53:49 PM	R19984
Toluene	ND	0.033	mg/Kg	1	7/18/2014 12:53:49 PM	R19984
Ethylbenzene	ND	0.033	mg/Kg	1	7/18/2014 12:53:49 PM	R19984
Xylenes, Total	ND	0.065	mg/Kg	1	7/18/2014 12:53:49 PM	R19984
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	7/18/2014 12:53:49 PM	R19984

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

Qualifiers:

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

Page 4 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407844

Received Date: 7/18/2014 7:35:00 AM

Date Reported: 7/21/2014

Hall Environmental Analysis Laboratory, Inc.

1407844-005

Lab ID:

CLIENT: Animas Environmental Services Client Sample ID: South Excavation SC-8

Project: Williams Trunk K Collection Date: 7/17/2014 8:55:00 AM Matrix: MEOH (SOIL)

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) 9.9 mg/Kg 7/18/2014 12:38:50 PM 14297 Surr: DNOP %REC 83.6 57.9-140 7/18/2014 12:38:50 PM 14297 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.6 mg/Kg 7/18/2014 1:22:26 PM R19984 Surr: BFB %REC 7/18/2014 1:22:26 PM 90.6 80-120 R19984 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 0.036 7/18/2014 1:22:26 PM Benzene ND mg/Kg R19984 Toluene ND 0.036 mg/Kg 7/18/2014 1:22:26 PM R19984 Ethylbenzene 0.036 ND mg/Kg 7/18/2014 1:22:26 PM R19984 Xylenes, Total ND 0.072 mg/Kg 7/18/2014 1:22:26 PM R19984 %REC Surr: 4-Bromofluorobenzene 101 80-120 7/18/2014 1:22:26 PM R19984

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.

Page 5 of 10

Reporting Detection Limit RL

Lab Order 1407844

Date Reported: 7/21/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: South Excavation SC-9

Project: Williams Trunk K

Collection Date: 7/17/2014 9:00:00 AM

Lab ID: 1407844-006

Matrix: MEOH (SOIL) Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/18/2014 1:00:34 PM	14297
Surr: DNOP	85.2	57.9-140	%REC	1	7/18/2014 1:00:34 PM	14297
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	7/18/2014 1:51:10 PM	R19984
Surr: BFB	90.8	80-120	%REC	1	7/18/2014 1:51:10 PM	R19984
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.034	mg/Kg	1	7/18/2014 1:51:10 PM	R19984
Toluene	ND	0.034	mg/Kg	1	7/18/2014 1:51:10 PM	R19984
Ethylbenzene	ND	0.034	mg/Kg	1	7/18/2014 1:51:10 PM	R19984
Xylenes, Total	ND	0.067	mg/Kg	1	7/18/2014 1:51:10 PM	R19984
Surr: 4-Bromofluorobenzene	98.1	80-120	%REC	1	7/18/2014 1:51:10 PM	R19984

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

Qualifiers:

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

Page 6 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

. QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407844

21-Jul-14

Client:

Animas Environmental Services

	ns Trunk K	
Sample ID MB-14297	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 14297	RunNo: 19942
Prep Date: 7/18/2014	Analysis Date: 7/18/2014	SeqNo: 580565 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 10 8.9 10.00	89.2 57.9 140
Sample ID LCS-14297	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 14297	RunNo: 19942
Prep Date: 7/18/2014	Analysis Date: 7/18/2014	SeqNo: 580566 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	65 10 50.00	0 130 68.6 130 S
Surr: DNOP	4.7 5.000	94.3 57.9 140
Sample ID MB-14220	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 14220	RunNo: 19942
Prep Date: 7/15/2014	Analysis Date: 7/18/2014	SeqNo: 580642 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.2 57.9 140
Sample ID LCS-14220	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 14220	RunNo: 19942
Prep Date: 7/15/2014	Analysis Date: 7/18/2014	SeqNo: 580643 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.0 5.000	80.7 57.9 140
Sample ID MB-14301	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 14301	RunNo: 19974
Prep Date: 7/18/2014	Analysis Date: 7/18/2014	SeqNo: 581081 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	7.4 10.00	73.9 57.9 140
Sample ID LCS-14301	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 14301	RunNo: 19974
Prep Date: 7/18/2014	Analysis Date: 7/18/2014	SeqNo: 581082 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Surr: DNOP

* Value exceeds Maximum Contaminant Level.

4.0

5.000

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

57.9

140

Page 7 of 10

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

79.6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

9

. QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407844

21-Jul-14

Client:

Animas Environmental Services

Project:	Williams	Trunk K		•						
Sample ID	MB-14300	SampType	MBLK	Test	Code: El	PA Method	8015D: Diese	el Range (Organics	
Client ID:	PBS	Batch ID:	14300	R	unNo: 1	9999				
Prep Date:	7/18/2014	Analysis Date:	7/19/2014	S	eqNo: 5	81178	Units: %RE	С		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.2	10.00		82.4	57.9	140			
Sample ID	MB-14315	SampType	: MBLK	Test	Code: El	PA Method	8015D: Diese	el Range (Organics	
Client ID:	PBS	Batch ID:	14315	R	unNo: 1	9999				
Prep Date:	7/19/2014	Analysis Date:	7/19/2014	S	eqNo: 5	81179	Units: %RE	С		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		7.4	10.00		74.1	57.9	140			
Sample ID	LCS-14300	SampType	: LCS	Test	Code: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	LCSS	Batch ID:	14300	R	unNo: 1	9999				
Prep Date:	7/18/2014	Analysis Date:	7/19/2014	S	eqNo: 5	81180	Units: %RE	С		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3	5.000		85.7	57.9	140			
Sample ID	LCS-14315	SampType	: LCS	Test	Code: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	LCSS	Batch ID:	14315	R	unNo: 1	9999				
Prep Date:	7/19/2014	Analysis Date:	7/19/2014	S	eqNo: 5	81181	Units: %RE	С		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.9	5.000		77.3	57.9	140			

Qualifiers:

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

Page 8 of 10

P Sample pH greater than 2. RL Reporting Detection Limit

. QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 7/18/2014

3.3

Result

16

740

WO#: 21-Jul-14

1407844

Client: Animas Environmental Services

Project: Williams Trunk K

Sample ID 5ML RB	SampT	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch	n ID: R1	9984	R	RunNo: 1 9	9984					
Prep Date:	Analysis D	ate: 7/	18/2014	S	SeqNo: 58	81093	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	940		1000		93.7	80	120				
Sample ID 2.5UG GRO LCSB SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R19984 RunNo: 19984											
Prep Date:	Analysis D	ate: 7/	18/2014	S	SeqNo: 58	31094	Units: mg/K	(q			
				J	, oq. 10. 0 1		Office. High	•			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	Result 26	PQL 5.0					J	%RPD	RPDLimit	Qual	
Analyte Gasoline Range Organics (GRO) Surr: BFB			SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26 980		SPK value 25.00 1000	SPK Ref Val	%REC 104 97.7	LowLimit 71.7 80	HighLimit			Qual	

Sample ID 1407844-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range											
Client ID:	Wash SC-7	Batch II	D: R1	19984	F	RunNo: 1	9984				
Prep Date:		Analysis Dat	e: 7 /	/18/2014	S	SeqNo: 5	81097	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	19	3.3	16.72	0	112	71.8	132	18.2	20	
Surr: BFB		760		668.9		114	80	120	0	0	

0

SPK value SPK Ref Val

16.72

668.9

SeqNo: 581096

LowLimit

71.8

80

%REC

93.4

111

Units: mg/Kg

132

120

%RPD

RPDLimit

Qual

HighLimit

Qualifiers:

Prep Date:

Surr: BFB

Gasoline Range Organics (GRO)

Analyte

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- Reporting Detection Limit

Page 9 of 10

. QC'SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407844

21-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID 5ML RB	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	Batch ID: R19984		RunNo: 19984							
Prep Date:	Analysis Date: 7/18/2014			SeqNo: 581128			Units: mg/h	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120				

Sample ID 100NG BTEX LO	CS Samp	Type: LC	s	Tes						
Client ID: LCSS	Bato	h ID: R1	9984	F	RunNo: 1					
Prep Date:	S	SeqNo: 581129 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuguerque, NM 87109

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

Sample Log-In Check List

Work Order Number: 1407844 RcptNo: 1 Client Name: Animas Environmental Received by/date: 7/18/2014 7:35:00 AM Logged By: Lindsay Mangin Completed By: Lindsay Mangin 7/18/2014 7:48:12 AM Reviewed By: <u>Chain</u> of Custody No 📑 Not Present ✔ Yes [1 Custody seals intact on sample bottles? No : Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No Yes 🗸 NA: 4. Was an attempt made to cool the samples? NA . No . 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No i... 6. Sample(s) in proper container(s)? Yes 📝 7. Sufficient sample volume for indicated test(s)? No : Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? Yes 🗍 No 🗸 NA 9. Was preservative added to bottles? Yes [] No 🗌 No VOA Vials 🗸 10.VOA vials have zero headspace? Yes No 🗹 11. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 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? 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) Yes No : 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: eMail Phone Fax Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No **Seal Date** Good Yes Page 1 of 1

	hain-	of-Cu	istody	Record	Turn-Around	Time:					_	ı			ne s	/TE	20	AI A	1EN	TÁ	
Client:	Anim	u Envi	ron ment	t Services	□ Standard Project Name	l ₩ Rush e:	same day	\	Z-A-N-V		A	N	AL	.YS	SIS	§ L		30	RAT		
Mailing	Address	624	E. Coma	nche	Willian	ns Trunk	K		490	01 H								м 87 [.]	109		
			m, MM		Project #:			1			5-34							4107			
Phone			4-2281							y i die we i e	1		° *A	naly	/sis	Req	ueŝt	7.			18 m
email o	~				Project Mana	ager:		=	<u>Ş</u>	1					O ₄)	ا پر ا					
QA/QC I	Package: dard		□ Level 4	(Full Validation)	K. Ch	ristiansen		TMB (8021)	(Gas o	8015B (GROXDRO) WKG)			SIMS)	,	,PO4,S	2 PCB's					ŀ
Accredi		□ Othe	er		Sampler: 5. On Ice:	lynn Wesir	: □ No	###	+ TPH	80 80 80 80 80 80 80 80 80 80 80 80 80 8	118.1)	504.1)	r 8270	vo l	O ₃ ,NO ₂	s / 8082		(A)			(N
	(Type)_		T		Sample Tem	perature: 2		類	盟	9	90 Z	pol (0 01	etal	Z,	cide	€	-i			≥
Date	Time	Matrix	Sample	Request ID	Container Type and #)	HEAL NO	BTEX + ₩	BTEX + M	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)			Air Bubble
7-17-14	9:10	Soil	Wash	SC-7	MEDH KIT	Meon	-001	X		X								-			
7 <u>-17-14</u>		Soil	Wash	SC-8	1402		-00Z	X		X										1 1	
7-17-14		SOI		cevatron SC-6			-003	X		X											
7-17-14		SOI	South Ex	cavation SC-7			-004	X		X											
<u> 7-17-14</u>	\$155	SOI	South Ex	rewation SC-9			-005	X		X											
7-17-14	9:00	soi)	South Ex	cavation SC-9	<u> </u>	1	-000	X		Х											
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Date:	Time:	Relinquish Relinquish	Thomas X	lezm (Received by: Musture Received by:	Walte	Date Time 7/11/14 1610 Date Time	Ren	narks	;; <i>C</i>	'all	i-f	3m	estro	~					<u></u>	
417114	necessary,	amples sub	mitted to Hall Env	VUUI/ vironmental may be subcr	ontracted to other a	ccredited laboratori	18 X 0-135 es. This serves as notice of this	possit	oility. A	Any su	b-contr	acted	data	will be	clearl	y notat	ted on	the ana	ılytical re	port.	



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

July 23, 2014

Kelsey Christiansen Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Williams Trunk K OrderNo.: 1407845

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/18/2014 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.hallenyironmental.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

Lab Order 1407845

7/21/2014 2:45:30 PM

14303

14303

14303

14303

14303

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1407845-001

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Client Sample ID: Wash SC-9

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%REC

Collection Date: 7/17/2014 9:30:00 AM Received Date: 7/18/2014 7:35:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 14 9.9 7/19/2014 5:02:53 PM 14300 mg/Kg Surr: DNOP 87.5 57.9-140 %REC 7/19/2014 5:02:53 PM 14300 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 7/21/2014 2:45:30 PM 14303 mg/Kg Surr: BFB 85.0 80-120 %REC 7/21/2014 2:45:30 PM 14303 **EPA METHOD 8021B: VOLATILES** Analyst: NSB

0.048

0.048

0.048

0.097

80-120

Matrix: SOIL

ND

ND

ND

ND

94.5

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

Qualifiers:

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

Page 1 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1407845-002

Matrix: SOIL

Client Sample 1D: Wash SC-10
Collection Date: 7/17/2014 9:40:00 AM

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/19/2014 6:37:39 PM	14300
Surr: DNOP	85.7	57.9-140	%REC	1	7/19/2014 6:37:39 PM	14300
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/21/2014 11:16:46 PI	M 14303
Surr: BFB	81.4	80-120	%REC	1	7/21/2014 11:16:46 PI	M 14303
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.048	mg/Kg	1	7/21/2014 11:16:46 PI	M 14303
Toluene	ND	0.048	mg/Kg	1	7/21/2014 11:16:46 PI	M 14303
Ethylbenzene	ND	0.048	mg/Kg	1	7/21/2014 11:16:46 P	M 14303
Xylenes, Total	ND	0.096	mg/Kg	1	7/21/2014 11:16:46 P	M 14303
Surr: 4-Bromofluorobenzene	91.7	80-120	%REC	1	7/21/2014 11:16:46 P	M 14303

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

Qualifiers:

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

Page 2 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit .

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1407845-003

Matrix: SOIL

Collection Date: 7/17/2014 9:50:00 AM

Client Sample ID: Wash SC-11

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	39	9.9	mg/Kg	1	7/19/2014 7:09:12 PM	14300
Surr: DNOP	89.2	57.9-140	%REC	1	7/19/2014 7:09:12 PM	14300
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/21/2014 11:46:46 P	M 14303
Surr: BFB	85.8	80-120	%REC	1	7/21/2014 11:46:46 P	M 14303
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.049	mg/Kg	1	7/21/2014 11:46:46 P	M 14303
Toluene	ND	0.049	mg/Kg	1	7/21/2014 11:46:46 P	M 14303
Ethylbenzene	ND	0.049	mg/Kg	1	7/21/2014 11:46:46 P	M 14303
Xylenes, Total	ND	0.097	mg/Kg	1	7/21/2014 11:46:46 P	M 14303
Surr: 4-Bromofluorobenzene	96.0	80-120	%REC	1	7/21/2014 11:46:46 P	M 14303

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

Qualifiers:

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

Page 3 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1407845-004 Client Sample ID: Wash SC-12

Collection Date: 7/17/2014 10:00:00 AM

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	19	10	mg/Kg	1	7/19/2014 7:40:28 PM	14300
Surr: DNOP	84.1	57.9-140	%REC	1	7/19/2014 7:40:28 PM	14300
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/22/2014 12:18:46 A	M 14303
Surr: BFB	81.7	80-120	%REC	1	7/22/2014 12:18:46 A	M 14303
EPA METHOD 8021B: VOLATILES		,			Analys	st: NSB
Benzene	ND	0.049	mg/Kg	1	7/22/2014 12:18:46 A	M 14303
Toluene	ND	0.049	mg/Kg	1	7/22/2014 12:18:46 A	M 14303
Ethylbenzene	ND	0.049	mg/Kg	1	7/22/2014 12:18:46 A	M 14303
Xylenes, Total	ND	0.098	mg/Kg	1	7/22/2014 12:18:46 A	M 14303
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	7/22/2014 12:18:46 A	M 14303

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Н Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

Page 4 of 12

- P Sample pl-I greater than 2.
- Reporting Detection Limit RL

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Williams Trunk K

Lab ID: 1407845-005

Project:

Client Sample ID: Wash SC-13

Collection Date: 7/17/2014 10:10:00 AM

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	57	10	mg/Kg	1	7/19/2014 8:11:44 PM	14300
Surr: DNOP	90.9	57.9-140	%REC	1	7/19/2014 8:11:44 PM	14300
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/22/2014 12:48:53 AI	M 14303
Surr: BFB	83.5	80-120	%REC	1	7/22/2014 12:48:53 AI	M 14303
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	7/22/2014 12:48:53 Al	vi 14303
Toluene	ND	0.049	mg/Kg	1	7/22/2014 12:48:53 AI	M 14303
Ethylbenzene	ND	0.049	mg/Kg	1	7/22/2014 12:48:53 Al	M 14303
Xylenes, Total	ND	0.098	mg/Kg	1	7/22/2014 12:48:53 Af	M 14303
Surr: 4-Bromofluorobenzene	94.7	80-120	%REC	1	7/22/2014 12:48:53 Al	vi 14303

Matrix: SOIL

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

Qualifiers:

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

Page 5 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Williams Trunk K

Lab ID: 1407845-006

Project:

Client Sample ID: Wash SC-14

Collection Date: 7/17/2014 10:20:00 AM

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	24	10		mg/Kg	1	7/19/2014 8:43:12 PM	14300
Surr: DNOP	92.2	57.9-140		%REC	1	7/19/2014 8:43:12 PM	14300
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2014 1:19:04 AM	14303
Surr: BFB	79.6	80-120	s	%REC	1	7/22/2014 1:19:04 AM	14303
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.048		mg/Kg	1	7/22/2014 1:19:04 AM	14303
Toluene	ND	0.048		mg/Kg	1	7/22/2014 1:19:04 AM	14303
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2014 1:19:04 AM	14303
Xylenes, Total	ND	0.095		mg/Kg	1	7/22/2014 1:19:04 AM	14303
Surr: 4-Bromofluorobenzene	89.0	80-120		%REC	1	7/22/2014 1:19:04 AM	14303

Matrix: SOIL

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

Qualifiers:

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

Page 6 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Williams Trunk K

Lab ID: 1407845-007

Matrix: SOIL

Collection Date: 7/17/2014 10:30:00 AM **Received Date:** 7/18/2014 7:35:00 AM

Client Sample ID: Wash SC-15

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	16	9.8	mg/Kg	1	7/19/2014 9:14:29 PM	14300
Surr: DNOP	89.7	57.9-140	%REC	1	7/19/2014 9:14:29 PM	14300
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/22/2014 1:49:11 AM	14303
Surr: BFB	86.6	80-120	%REC	1	7/22/2014 1:49:11 AM	14303
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	7/22/2014 1:49:11 AM	14303
Toluene	ND	0.048	mg/Kg	1	7/22/2014 1:49:11 AM	14303
Ethylbenzene	ND	0.048	mg/Kg	1	7/22/2014 1:49:11 AM	14303
Xylenes, Total	ND	0.096	mg/Kg	1	7/22/2014 1:49:11 AM	14303
Surr: 4-Bromofluorobenzene	99.1	80-120	%REC	1	7/22/2014 1:49:11 AM	14303

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

Qualifiers:

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

Page 7 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407845

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/23/2014

Matrix: SOIL

CLIENT: Animas Environmental Services

Client Sample ID: Wash SC-16

Project: Williams Trunk K

Collection Date: 7/17/2014 10:40:00 AM

Lab ID: 1407845-008

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analysi	t: JME
Diesel Range Organics (DRO)	52	9.9	mg/Kg	1	7/19/2014 9:45:28 PM	14300
Surr: DNOP	81.1	57.9-140	%REC	1	7/19/2014 9:45:28 PM	14300
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2014 2:19:13 AM	14303
Surr: BFB	79.3	80-120	S %REC	1	7/22/2014 2:19:13 AM	14303
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.047	mg/Kg	1	7/22/2014 2:19:13 AM	14303
Toluene	ND	0.047	mg/Kg	1	7/22/2014 2:19:13 AM	14303
Ethylbenzene	ND	0.047	mg/Kg	1	7/22/2014 2:19:13 AM	14303
Xylenes, Total	ND	0.094	mg/Kg	1	7/22/2014 2:19:13 AM	14303
Surr: 4-Bromofluorobenzene	89.4	80-120	%REC	1	7/22/2014 2:19:13 AM	14303

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

Qualifiers:

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

Page 8 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1407845

Date Reported: 7/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Williams Trunk K

Lab ID: 1407845-009

Project:

Client Sample ID: Wash SC-17

Collection Date: 7/17/2014 10:50:00 AM **Received Date:** 7/18/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	BCN
Diesel Range Organics (DRO)	44	9.9	mg/Kg	1	7/20/2014 7:44:19 PM	14300
Surr: DNOP	84.3	57.9-140	%REC	1	7/20/2014 7:44:19 PM	14300
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2014 2:49:17 AM	14303
Surr: BFB	88.0	80-120	%REC	1	7/22/2014 2:49:17 AM	14303
EPA METHOD 8021B: VOLATILES					Analys	:: NSB
Benzene	ND	0.047	mg/Kg	1	7/22/2014 2:49:17 AM	14303
Toluene	ND	0.047	mg/Kg	1	7/22/2014 2:49:17 AM	14303
Ethylbenzene	ND	0.047	mg/Kg	1	7/22/2014 2:49:17 AM	14303
Xylenes, Total	ND	0.093	mg/Kg	1	7/22/2014 2:49:17 AM	14303
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	7/22/2014 2:49:17 AM	14303

Matrix: SOIL

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

Qualifiers:

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

Page 9 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407845

23-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-14300 SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 14300

RunNo: 19999

Prep Date: Analyte

7/18/2014

Analysis Date: 7/19/2014 PQL

10

SeqNo: 581178 %REC

Units: mg/Kg

Qual

%RPD

Diesel Range Organics (DRO)

ND

SPK value SPK Ref Val

82.4

HighLimit 140 **RPDLimit**

Surr: DNOP

8.2

Result

10.00

57.9

Sample ID LCS-14300 Client ID:

LCSS

SampType: LCS Batch ID: 14300 TestCode: EPA Method 8015D: Diesel Range Organics

RunNo: 19999

LowLimit

130

140

Prep Date:

7/18/2014

Analysis Date: 7/19/2014

Result

PQL

SeqNo: 581180

Units: mg/Kg HighLimit

Analyte

Diesel Range Organics (DRO) Surr: DNOP

51 10 4.3

SPK value SPK Ref Val %REC n 50.00 5.000

LowLimit 102 68.6 85.7 57.9 %RPD

RPDLimit Qual

Sample ID 1407845-001AMS

SampType: MS

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

Wash SC-9

Batch ID: 14300

RunNo: 20000

Units: mg/Kg

Prep Date:

7/18/2014

Analysis Date: 7/19/2014

SeqNo: 581410

%RPD

Qual

Analyte Diesel Range Organics (DRO)

54 3.7

Result

52

3.6

Result

PQL 9.9 49.65

SPK value SPK Ref Val %REC 13.75 81.9

LowLimit 40.1 HighLimit 152

140

RPDLimit

Surr: DNOP

Sample ID 1407845-001AMSD Wash SC-9

SampType: MSD Batch ID: 14300

PQL

10

TestCode: EPA Method 8015D: Diesel Range Organics RunNo: 20000

73.8

LowLimit

40.1

57.9

57.9

152

140

Analyte

Surr: DNOP

Client ID:

Prep Date: 7/18/2014

Diesel Range Organics (DRO)

Analysis Date: 7/19/2014

50.10

5.010

SPK value SPK Ref Val

13.75

4.965

%REC

75.5

71.7

SeqNo: 581411

Units: mg/Kg HighLimit

%RPD

RPDLimit

Qual 32.1 5.37 0 0

Oualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

R RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH greater than 2. P

Reporting Detection Limit

Page 10 of 12

.. QC'SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407845

23-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-14303	Samp ⁻	Гуре: М Е	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batc	h ID: 14	303	F	RunNo: 2	0023					
Prep Date: 7/18/2014	ep Date: 7/18/2014 Analysis Date: 7/21/2014				SeqNo: 582173			(g			
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	80	120				
Sample ID LCS-14303	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е		
Client ID: LCSS	Batc	h ID: 14	303	F	RunNo: 2	0023					
Prep Date: 7/18/2014	Analysis [Date: 7/	/21/2014	S	SeqNo: 5	82174	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.6	71.7	134				
Surr: BFB	880		1000		88.4	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 11 of 12

... QC'SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407845

23-Jul-14

Client:

Animas Environmental Services

Project:

Williams Trunk K

Sample ID MB-14303	Samp	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch ID: 14303			F						
Prep Date: 7/18/2014	Analysis [Date: 7/	21/2014 SeqNo: 582206 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			
Sample ID LCS-14303	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Volat	tiles		
-u				_						

Sample ID LCS-14303	Samp	ype: LC	5	res	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 14 :	303	F	RunNo: 2	0023				
Prep Date: 7/18/2014	Analysis [Date: 7/	21/2014	5	SeqNo: 5	82207	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.9	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID 1407845-001AM	D1AMS SampType: MS			Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: Wash SC-9	Batch ID: 14303			F	RunNo: 2	0023				
Prep Date: 7/18/2014	Analysis D	ate: 7/	21/2014	9	SeqNo: 5	82216	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.048	0.9653	0	90.4	77.4	142			
Toluene	0.88	0.048	0.9653	0	91.1	77	132			
Ethylbenzene	0.90	0.048	0.9653	0	93.7	77.6	134			
Xylenes, Total	2.9	0.097	2.896	0.03262	98.4	77.4	132			
Surr: 4-Bromofluorobenzene	0.98		0.9653		101	80	120			

Sample ID 1407845-001AM	TestCode: EPA Method 8021B: Volatiles										
Client ID: Wash SC-9	Batch	ID: 14	303	F	RunNo: 2	0023					
Prep Date: 7/18/2014	Analysis D	ate: 7/	21/2014	8	SeqNo: 5	82217	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.048	0.9643	0	93.2	77.4	142	2.93	20		
Toluene	0.89	0.048	0.9643	0	92.6	77	132	1.53	20		
Ethylbenzene	0.92	0.048	0.9643	0	95.9	77.6	134	2.21	20		
Xylenes, Total	2.9	0.096	2.893	0.03262	99.6	77.4	132	1.12	20		
Surr: 4-Bromofluorobenzene	1.0		0.9643		106	80	120	. 0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Page 12 of 12

P Sample pH greater than 2.

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE

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

Website: White white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white white whi

Sample Log-In Check List

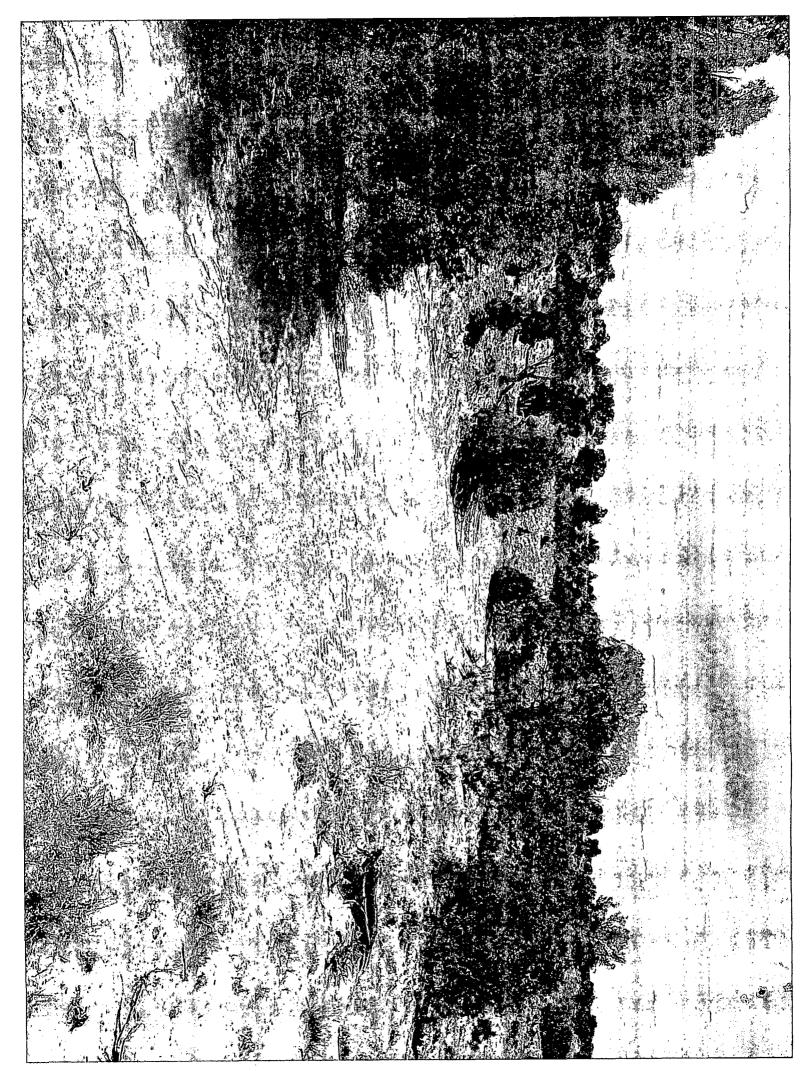
Client Name:	Animas Environmental	Work Order Number:	1407845		RcptNo:	
Received by/da	te:	OIL SIL				٠
Logged By:	Lindsay Mangin	7/18/2014 7:35:00 AM		Smaky Hlosop		
Completed By:	Lindsay Mangin	7/18/2014 8:11:54 AM		Junky Albert		
Reviewed By:	De ma	07/2/2				
: Chain of Cus	stody	o move.	•			
:	als intact on sample bottles?		Yes 🔛	No ::	Not Present ✓	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗀	Not Present	
3. How was th	e sample delivered?		Courier	1		
Log In						
	empt made to cool the sampl	es?	Yes 😾	No 1.1	NA	
5. Were all sa	mples received at a temperat	ture of >0° C to 6.0°C	Yes 🗸	No 🗀	NA :	
6. Sample(s)	in proper container(s)?		Yes 🗭	No 🔝		
7. Sufficient s	ample volume for indicated te	st(s)?	Yes 🗷	No 🔛		
8. Are sample	s (except VOA and ONG) pro	perly preserved?	Yes 🔽	No 🗀		
9. Was preser	vative added to bottles?		Yes [.]	No 🗸	NA ·	
10.VOA vials h	nave zero headspace?		Yes 🗔	No 🔛	No VOA Vials 🗸	
11. Were any s	sample containers received b	roken?	Yes	No 🗸	# of preserved	
:	rwork match bottle labels? epancies on chain of custody)	1	Yes 🗸	No .i	bottles checked for pH: (<2 or	>12 unless noted)
1	es correctly identified on Chair		Yes 🗹	No 🗀	Adjusted?	
	hat analyses were requested		Yes 🗸	No 🗒		
	olding times able to be met? y customer for authorization.)		Yes 🔽	No	Checked by:	
: Special Hand	dling (if applicable)					
	notified of all discrepancies w	rith this order?	Yes 🔝	No !	NA 🗸	
Perso	on Notified:	Date:		THE RESIDENCE TO SERVED THE SERVED TO SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED SERVED		
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Rega	rding:			norma a monta a marca, a mana labora a mona letta a de la del del la labola de la del del labola de la del del	TATAL C. A. C.	
Clien	t Instructions:					
17. Additional	remarks:				·	
18. Cooler Inf	ormation					
Cooler		 	Seal Date	Signed By		
1	2.1 Good	Yes		er er er fin sette et som et before er som et de som til et de sette er er er er		
Page 1	of 1		55	***************************************		

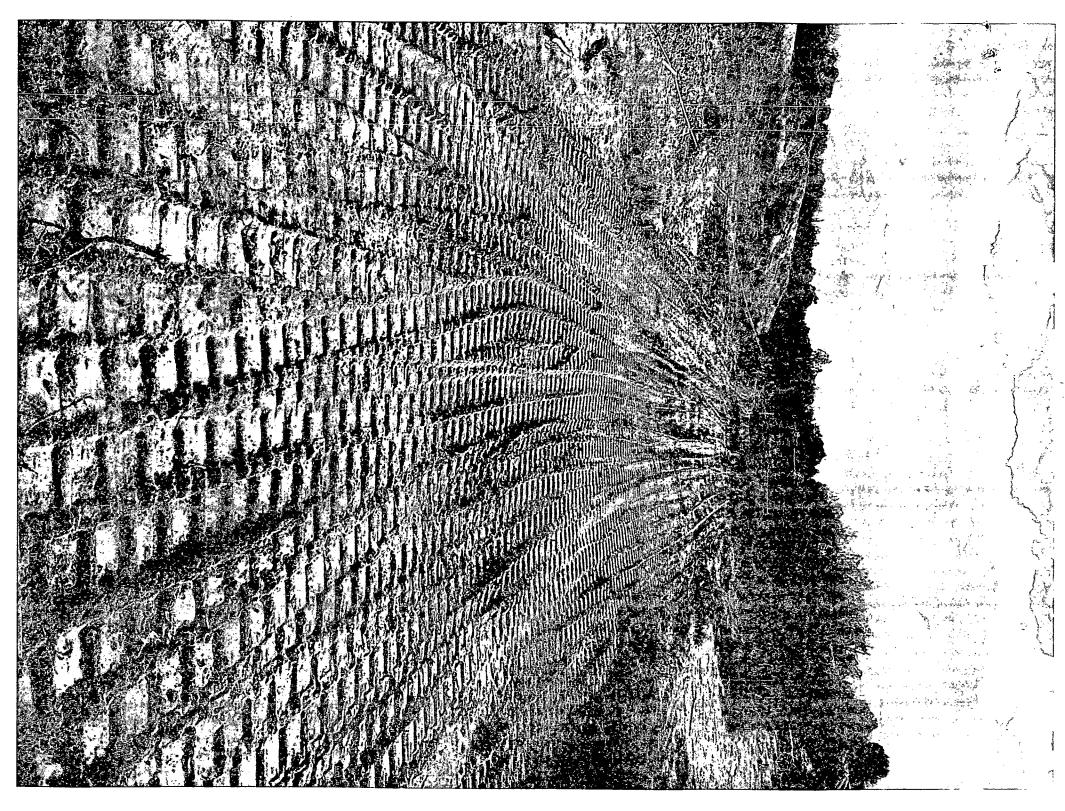
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			NM 8740		Projec	xt #:						el. 50					-			-4 10				
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email or					Projec	t Mana	ger:			۱)	nly)	<u>@</u>					O₄)							
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ccredit		- O#					lym	Seattles :	Annuary 1.5 The division in party	HAB.	TPH		<u>-</u>	=	8270		NO	808						î
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⊒ EDD	(Type)_				чанир	ic ichil	rei atul 6		· 自然是生物的一种。	MTBE	MTB) gg	P P	thod	310	Meta	[C	sticid	(OA)	mi-V				es (
Date	Time	Matrix	Sample	Request ID			Preservative Type		HADTS	BTEX + 1	STEX + N	трн 8015B (С RO)(DRO)/ ми во)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y
-17-14	9:30	501	Wash	SC-9	1-402		Cold		-001	メ		X						~	~			\top	\top	\top
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	9:50	soil	Wash	5(-1)					-003	X		X												
	10:00	Soll	Wash	SC-12		:			-004	X		×												
-17-14	İ	Soil	Wash	SC-13					-005	X		Х												
¹ -17>14	10:20	Soil	Wash	50-14					-006	*		×												
	10:30	Soil	Wash	SC-15					-007	メ		×												
	10140	SOLL	Wash	SC-16	r				-008	*		Х												
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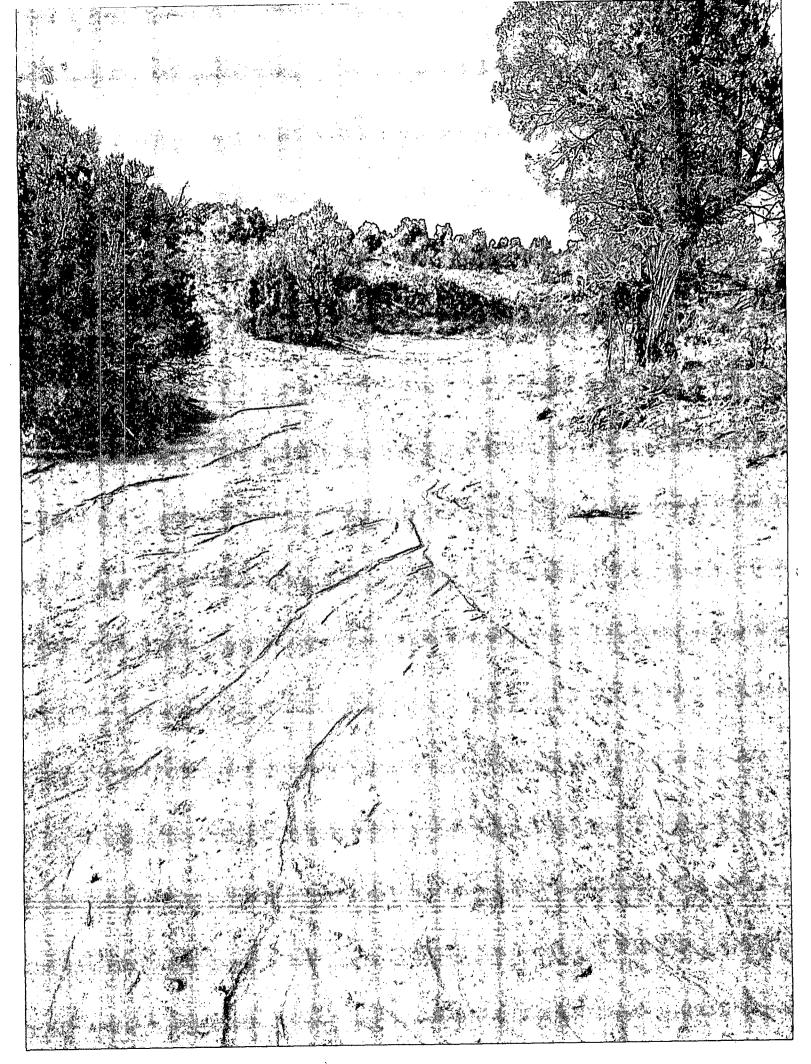


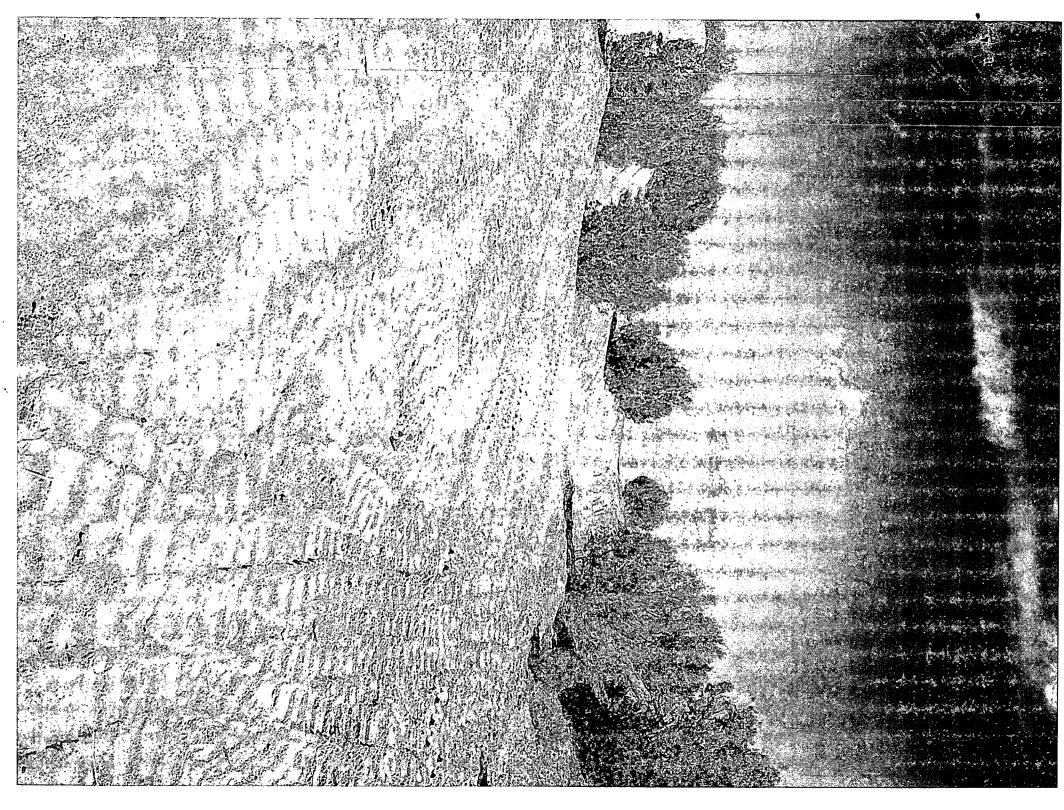












District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

	OPERATOR	
	Contact: Jana Franchini	
	Telephone No.: (505) 634-4951	
	Facility Type: Natural gas pipeline	
Surface Owner: BLM Mineral Owner		API No.
LOCATIO	N OF RELEASE	
Unit Letter Section Township Range Feet from the North N 27 29N 11W	/South Line Feet from the East/V	West Line County San Juan
Latitude <u>36.691326° N</u>	Longitude <u>-107.978910° W</u>	OIL CONS. DIV DIST. 3
NATURE	OF RELEASE	1 A 201A
Type of Release: Natural gas & methanol	Volume of Release: 31.4 MCF natural gas & 50 gallons (approx.) methanol	Volume Recovered: 0 MCF natural gas & 0 gallons methanol
Source of Release: Pipeline methanol injection station	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 06/26/2014 at 04:00 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom? Mark Kelly (BL	M), Cory Smith (NMOCD), NRC
By Whom? Jana Franchini & ES&H (Release Reporting Contractor)	Date and Hour: 06/26/2014 at 04:20	PM MST
Was a Watercourse Reached? ☐ Yes ☐ No		ercourse: 50 gallons methanol mixed with
If a Watercourse was Impacted, Describe Fully.*		
A break in the potable water line running to Kutz Plant eroded enough so container fell over. Approximately 50 gallons of methanol leaked out of twater rushing from the water line break and was carried down an un-name were no impacts to surface or ground water. Groundwater is estimated to Describe Cause of Problem and Remedial Action Taken.* Erosion from the break in the potable water line eventually toppled a methanor methanor ighted and removed.	the container before it was righted and sed, dry wash (natural erosional feature) be greater than 100 feet below the groundanol injection station on Trunk A Pipe	removed. The methanol mixed with the before pooling-up and evaporating. There und surface.
Describe Area Affected and Cleanup Action Taken.*		
The area of the release was sampled on July 3, 2014 and the results are padditional clean-up activities will be performed, if warranted, to ensure page 100 meters and 100 meters are page 100 meters and 100 meters are page 100 meters are page 100 meters and 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters and 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are page 100 meters are		Following receipt of the results,
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report defederal, state, or local laws and/or regulations.	otifications and perform corrective acti e NMOCD marked as "Final Report" do e contamination that pose a threat to gr	ons for releases which may endanger oes not relieve the operator of liability ound water, surface water, human health
Signature: Printed Name: Jana Franchini	OIL CONSERV Approved by Environmental Specialist	ATION DIVISION Augustian
	Approval Date: 11/4 14	Expiration Date:
	Conditions of Approval:	<u> </u>
Date: 07/10/2014 Phone: (505) 634-4951		Attached 🔲
4	70014300839284	

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State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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 Corrective Ac	tion				
	OPERATOR	☐ Initial Report				
Name of Company: Williams Four Corners LLC	Contact: Jana Franchini	5.51				
Address: 188 CR 4900, Bloomfield, NM 87413 Facility Name: Trunk E	Telephone No.: (505) 634-49 Facility Type: Natural gas pi					
Surface Owner: State of New Mexico Mineral Owner	er	API No.				
	ION OF RELEASE					
Unit Letter Section Township Range Feet from the No.	orth/South Line Feet from the	East/West Line County San Juan				
Latitude <u>36.838188</u>	<u>8° N</u> Longitude <u>-107.94811° W</u>	<u>/</u> -				
NATUR	RE OF RELEASE	·				
Type of Release: Natural gas	Volume of Release: 360 MCF natural gas	Volume Recovered: 0 MCF natural gas				
Source of Release: Bullet-hole in pipeline	Date and Hour of Occurrence:	: Date and Hour of Discovery:				
	07/06/2014 at 01:00 PM MST	07/07/2014 at 02:30 PM MST				
Was Immediate Notice Given?	(approximate) If YES, To Whom? Cory Smi	th (NMOCD)				
☐ Yes ☐ No ☐ Not Requir						
By Whom? Jana Franchini, Williams Was a Watercourse Reached?	Date and Hour: 07/07/2014 at If YES, Volume Impacting the					
☐ Yes ☐ No	11 123, Volume impacting the	OIL CONS. DIV DIST. 3				
If a Watercourse was Impacted, Describe Fully.*						
N/A		JUL 1 4 2014				
Describe Cause of Problem and Remedial Action Taken.*						
Williams' personnel discovered a gas leak at the NYE-11E (a 45 degree caused by a gunshot. The pipeline was isolated and the associated well released to atmosphere between the time of occurrence and isolation.						
Describe Area Affected and Cleanup Action Taken.*						
No clean-up required for natural gas releases.						
I hereby certify that the information given above is true and complete 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 should their operations have failed to adequately investigate and remove or the environment. In addition, NMOCD acceptance of a C-141 reported federal, state, or local laws and/or regulations.	se notifications and perform correcti y the NMOCD marked as "Final Rep diate contamination that pose a threa ort does not relieve the operator of re	ve actions for releases which may endanger port" does not relieve the operator of liability at to ground water, surface water, human health sponsibility for compliance with any other				
()	OIL CONS	ERVATION DIVISION				
Signature:	Approved by Environmental Spe	ecialist:				
Printed Name: Japa Franchini	1 1	- Cy M				
Title: Environmental Specialist	Approval Date: 11/4/14	Expiration Date:				
E-mail Address: jana.franchini@williams.com	Conditions of Approval:	Attached				
Date: 07/10/2014 Phone: (505) 634-4951						

* Attach Additional Sheets If Necessary

#NCS1430839627

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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

						OPERA	ΓΩD			-1 D		Pi., 1.9
Nama of Co	ompany: Wi	illiams Four	Corners	LLC		Contact: Jan			Initia	al Report	\boxtimes	Final Rep
		, Bloomfield					No.: (505) 634-4	 1951				
Facility Na		, 2.001111010	-, . 1111 0				e: Compressor					
Surface Ow				Mineral C					API No			
Surface Ow	mer. BLIVI											
* * * * * * * * * * * * * * * * * * * *	T & . T	<u></u>	-			OF REI		L 15 7		RCVD SEP	24	<u> </u>
Unit Letter M	Section 18	Township 31N	Range 12W	Feet from the	North	/South Line	Feet from the	East/	West Line	County San Juan		
	<u> </u>		ī	atitude 36.895	426° N	Longitude	-108 142639°	W		DIL CONS	S. DIL	J.
			_			OF RELI				DIST.	3	
vne of Rele	ase: Natural	gas		NAI	UKE		Release: 280 MC	`F	Volume F	Recovered: 0	MCF 3	Vatural gas
	Ause. I vararar	Pm2				Natural gas			V Granie i			- Tataran gas
Source of Re	elease: Separa	ator dump va	lve				our of Occurrence			Hour of Dis	covery:	
Was Immedi	ate Notice G	iven?					4:30 PM (approx Whom? N/A	x.)	9/4/2014	at 8:30 AM		
· us millicul	are motice O		Yes [No 🛛 Not Ro	equired	11 123, 10	THOM: IVA					
By Whom?						Date and H						
Was a Water	course Reach					If YES, Vo	lume Impacting	he Wat	ercourse.	N/A		
			Yes 🛚	No								
f a Watercor	urse was Imp	acted, Descri	be Fully.*									
V/A												
V/A												
Describe Cau	ise of Proble	m and Remed	dial Action	Taken.*								
A C 14												
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				ed in the release o						t Williams' I	Reid Co	mpressor
				ed in the release owas returned to o						t Williams' I	Reid Co	ompressor
Station. The	actuator was		d the unit	was returned to o						t Williams' I	Reid Co	ompressor
Station. The Describe Are	actuator was	nd Cleanup A	d the unit	was returned to o						t Williams' I	Reid Co	ompressor
Station. The Describe Are	actuator was	replaced and	d the unit	was returned to o						t Williams' I	Reid Co	ompressor
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Describe Are No clean-up hereby certicegulations a	actuator was a Affected a p required fo ify that the ir Il operators a	s replaced and Cleanup A r natural gas aformation gives required to	Action Tak release. ven above	was returned to o en.* is true and comp	peration	by Exterran, ne best of my otifications ar	knowledge and u	and opera	ntor. Ind that pursions for reli	suant to NM ⁰ eases which	OCD ru may en	iles and
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Form C-141 Revised August 8, 2011

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Volume of Release: Natural Gas and Natural gas liquids Volume of Release: 2 MCF; Estimated 2-3 BBLs released Date and Hour of Discovery: Structure of Release: Accidental discharge from a valve on the meter tube. Date and Hour of Docurrence: \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45 p.m. \$172/014 @ 12:45			L	_atitude			_ •		550		ROVD SEP	2:14
Estimated 2-3 BBLs released Date and Hour of Discovery: sh12/2014 @12:21 p.m. Date and Hour of Occurrence: 5/12/2014 @12:25 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12:45 p.m. Sh12/2014 @12						URE						
Mas Immediate Notice Given? May Yes No Not	Type of Rele	ease: Natu	ral Gas and T	Natural gas	sliquids					Volume R	ecovered: U	nknown
Was Immediate Notice Given? Required Yes	meter tube.			arge from a	a valve on th	е			ence:			
By Whom? Thomas Long Date and Hour 5/12/2014 @ 6:12 p.m. by phone and email Was a Watercourse Reached? Yes No If YES, Volume impacting the Watercourse. Ta Watercourse was Impacted, Describe Fully. Describe Cause of Problem and Remedial Action Taken: A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities were completed on July 2, 2014. The final excavation dimension measured approximately one-hundred-fifteen (115) feet long by thirty-six (36) feet wide by 0.33 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility. Describe Area Affected and Cleanup Action Taken.* A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities were completed on July 2, 2014. The final excavation dimension measured approximately one-hundred-fifteen (115) feet long by thirty-six (36) feet wide by 0.33 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil was excavated and transported a NMOCD approved land farm facility. A third party environmental contractor corrective action report is included with this "final" c-141.	Was Immed	ate Notice		✓ V Γ		1.4	If YES, To	Whom? JAEP	O – Ho			
If a Watercourse Reached? ☐ Yes ☐ No ☐ If YES, Volume Impacting the Watercourse. ☐ If a Watercourse was Impacted, Describe Fully. ☐ Describe Cause of Problem and Remedial Action Taken: A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities were completed on July 2, 2014. The final excavation dimension measured approximately one-hundred-fifteen (115) feet long by thirty-six (36) feet wide by 0.33 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility. ☐ Describe Area Affected and Cleanup Action Taken.* A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities were completed on July 2, 2014. The final excavation dimension measured approximately one-hundred-fifteen (115) feet long by thirty-six (36) feet wide by 0.33 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil was excavated and transported a NMOCD approved land farm facility. A third party environmental contractor corrective action report is included with this "final" c-141. ☐ 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. ☐ Conditions of Approval: ☐ Condition	Required		<u></u>	∆ires ∟ ·	_ NO	ioi	Hammond	1				3
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the well remained in service. Remediation activities were completed on July 2, 2014. The final excavation dimension measured approximately one-hundred-fifteen (115) feet long by thirty-six (36) feet wide by 0.33 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility. Describe Area Affected and Cleanup Action Taken.* A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities were completed on July 2, 2014. The final excavation dimension measured approximately one-hundred-fifteen (115) feet long by thirty-six (36) feet wide by 0.33 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil was excavated and transported a NMOCD approved land farm facility. A third party environmental contractor corrective action report is included with this "final" c-141. 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. Signature: Title: Sr. Director, Environmental Approval Date: Machine Machi	If a Waterco	urse was Ir	npacted, Des	cribe Fully.			l					
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Printed Name: Ivan W. Zirbes Approved by Environmental Specialist: Title: Sr. Director, Environmental E-mail Address: snolan@eprod.com Conditions of Approval: Attached Phone: (713) 381-6595	operator of r	esponsibili	ty for compila	nce with ar	ny otner rede	rai, stat	e, or local la				DIVISION	Ω
Title: Sr. Director, Environmental E-mail Address: snolan@eprod.com Date: 8-25-2014 Phone: (713) 381-6595 Expiration Date: Attached	Signature:							OIL OOK	<u>OLIX</u>	<u> </u>	7	<i>}</i> / ()
Title: Sr. Director, Environmental E-mail Address: snolan@eprod.com Conditions of Approval: Attached Phone: (713) 381-6595	Printed Nam	ie: Ivan W.	Zirbes			1,	Approved by	/ Environmenta	l Specia	alist:	- James	
E-mail Address: snolan@eprod.com Conditions of Approval: Attached Date: 8-25-2014 Phone: (713) 381-6595	Title Sr Dire	ector Envir	onmental								ate:	
Date: 8-25-201∜ Phone: (713) 381-6595			-	7.00				7 7/2	7			
Date: 8-25-2014 Phone: (713) 381-6595 Attach Additional Sheets If Necessary Altach Additional Sheets If Necessary Altach Additional Sheets If Necessary	E-mail Addre	ess: snolar	n@eproa.com	I		1	conaitions (n Approvai:			Attached	
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$\frac{1}{2}$	Attach Addi	tional She	ets If Neces	sary	1. 10/ 001 00		100cs 14	323929	143			



CORRECTIVE ACTION REPORT

Property:

Jicarilla L #11 Meter Run Valve Release NE 1/4, S3 T24N R5W Rio Arriba County, New Mexico

> August 11, 2014 Apex Project No. 7030414G009

> > Prepared for:

Enterprise Field Services LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Heather M. Woods, P.G. Senior Project Manager

Elizabeth Scaggs, P.G. Senior Program Manager

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CORRECTIVE ACTION REPORT

Jicarilla L #11 Meter Run Valve Release NE 1/4, S3 T24N R5W Rio Arriba County, New Mexico

Apex Project No. 7030414G009

1.0 INTRODUCTION

1.1 Site Description & Background

The Jicarilla L #11 meter run valve release originated from the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 3 in Township 24 North, Range 5 West in rural Rio Arriba County, New Mexico (36.34485N, 107.3455W), referred to hereinafter as the "Site" or "subject Site". The Site is located adjacent to the Jicarilla L #11 well pad, on land owned by the Jicarilla Apache Nation. The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline and meter run.

On May 11, 2014, a meter run valve release was discovered by a third party, and the valve was immediately closed. The partially open valve, suspected to have been opened by a loose antenna cable blown by heavy winds or by rubbing of livestock, resulted in a release of natural gas and a fine mist of pipeline liquids onto a limited area immediately adjacent to the meter run and well pad. On May 21, 2014, Enterprise initiated corrective action activities at the Site, which included removal of impacted vegetation and surface soils.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) Remediation Action Levels using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.

2.0 SITE RANKING

The Site is under the jurisdiction of the Jicarilla Apache Nation Environmental Protection Office (JANEPO). In the absence of published JANEPO regulatory guidance, Apex TITAN Inc. (Apex) referenced the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*. Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



Rankin	g Criteria		Ranking Score
	<50 feet	20	
Depth to Groundwater	50 to 99 feet	10	0*
	>100 feet	0 "	
Wellhead Protection Area • <1,000 feet from a water	Yes	20	0
source, or; <200 feet from private domestic water source.	No	0	
	<200 feet	20	
Distance to Surface Water Body	200 to 1,000 feet	10	10
	>1,000 feet	0	
Total Ran	king Score		10

^{*}Based on anticipated groundwater depth of >100 feet below grade surface (bgs).

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of "10". This ranking is based on the following:

- The Site is approximately 275 feet southeast and 440 feet northeast of two un-named ephemeral washes which drain to the Larga Cañada southwest of the Site. These washes appear to only convey water during significant rain events, but might be considered surface water bodies by some entities.
- No water wells or water sources were identified on the Office of the State Engineer website database within 1,000 feet of the Site.

3.0 RESPONSE ACTIONS

3.1 Soil and Vegetation Removal Activities

On May 21, 2014, Enterprise initiated corrective action activities at the Site, which included removal of impacted surface soils and vegetation. During the corrective action activities, West States Energy Contractors, Inc., provided heavy equipment and labor support, and Aaron Bryant, an Apex environmental professional, provided environmental support.

Minor surface soil staining was visible at the Site in a limited area immediately adjacent to the meter run. Affected surface soils were scraped utilizing a backhoe and hand tools and loaded into a tandem-axle dump truck for transportation to a disposal/treatment facility.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty-sands.

The total depth of the final soil removal area ranged from 1 inch bgs to approximately 4 inches bgs in the misted area footprint. The surface expression of the soil removal area measured approximately 115 feet long with a maximum width of approximately 36 feet wide.

A total of approximately 20 cubic yards of hydrocarbon affected soils were transported to the TNT landfarm near Lindrith, New Mexico for disposal/remediation. The executed C-138 form is provided in Appendix B.

Figure 3 is a site map that indicates the approximate location of the soil removal area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.



3.2 Soil Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate volatile organic compound (VOC) concentrations in the field.

Apex's soil sampling program included the collection of three (3) initial confirmation samples (C-1 through C-3) from the soil removal area for laboratory analysis. Laboratory analysis of sample C-2, partially located on the gravel surface of the well pad, showed possible historical/residual impact not associated with the meter run valve release, and was resampled as final confirmation sample S-2. Figure 3 depicts the approximate extents of the soil removal area and shows the final confirmation sample locations in relation to the overall footprint of soil removal (Appendix A).

The confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is under the jurisdiction of the JANEPO. In the absence of published JANEPO regulatory guidance, Apex referenced New Mexico OCD *Guideline for Remediation of Leaks, Spills, and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation.* These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Although the site ranking for the Site is a "10" with respect to the OCD ranking system, JANEPO prefers to assign each location an initial ranking of "20". Therefore, Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation samples collected from the area of soil removal to the OCD *Remediation Action Levels* for sites having a total ranking score of "20".

- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate benzene concentrations above laboratory RLs, which are below the OCD Remediation Action Level.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above laboratory RLs, which are below the OCD Remediation Action Level.



- The laboratory analysis of confirmation sample C-2 indicated a TPH DRO concentration of 320 milligrams per Kilogram (mg/Kg), which is above the OCD Remediation Action Level for a site with a ranking of "20". Over half of the C-2 composite sample was collected from the well pad area that is used by oil and gas service vehicles, and as such, might be nominally affected by historic impact from vehicular traffic and operational activities. The area was re-sampled on July 2, 2014 as confirmation sample S-2, for which the resulting laboratory analysis did not indicate TPH GRO or DRO concentrations above the OCD Remediation Action Level.
- The laboratory analyses of the confirmation samples C-1, C-3, and S-2, collected from soils remaining in place, indicate combined TPH GRO/DRO concentrations below the laboratory reporting limits, which are below the OCD Remediation Action Level for a site with a ranking of "20".

Confirmation sample results are provided in Table 1 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Jicarilla L #11 meter run valve release site release originated from the Enterprise pipeline ROW in the NE ¼ of Section 3 in Township 24 North, Range 5 West in rural Rio Arriba County, New Mexico. The Site is located adjacent to the Jicarilla L #11 well pad, on land owned by the Jicarilla Apache Nation. The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline and meter run.

On May 11, 2014, a meter run valve release was discovered by a third party, and the valve was immediately closed. The partially open valve, suspected to have been opened by a loose antenna cable blown by heavy winds or by rubbing of livestock, resulted in a release of natural gas and a fine mist of pipeline liquids onto a limited area immediately adjacent to the meter run and well pad. On May 21, 2014, Enterprise initiated corrective action activities at the Site, which included removal of impacted vegetation and surface soils.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD Remediation Action Levels using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.
- The total depth of the final soil removal area ranged from 1 inch bgs to approximately 4 inches bgs in the misted area footprint. The surface expression of the soil removal area measured approximately 115 feet long with a maximum width of approximately 36 feet wide.
- Based on analytical results, soils remaining in place do not exhibit benzene or total BTEX concentrations above laboratory RLs, which are below the OCD Remediation Action Levels.
- The laboratory analysis of confirmation sample C-2 indicated a TPH DRO concentration of 320 milligrams per Kilogram (mg/Kg), which is above the OCD Remediation Action Level for a site ranking of "20". Over half of the C-2 composite sample was collected from the well pad area that is used by oil and gas service vehicles, and as such, might be nominally affected by historic impact from vehicular traffic and operational activities. The area was re-sampled on July 2, 2014 as confirmation sample S-2, for which the resulting



laboratory analysis did not indicate TPH concentrations above the OCD Remediation Action Level.

- The laboratory analyses of the confirmation samples C-1, C-3, and S-2, collected from soils remaining in place, indicate combined TPH GRO/DRO concentrations below the laboratory reporting limits, which are below the OCD Remediation Action Level for a site ranking of "20".
- A total of approximately 20 cubic yards of hydrocarbon affected soils were transported to the TNT landfarm near Lindrith, New Mexico for disposal/remediation.

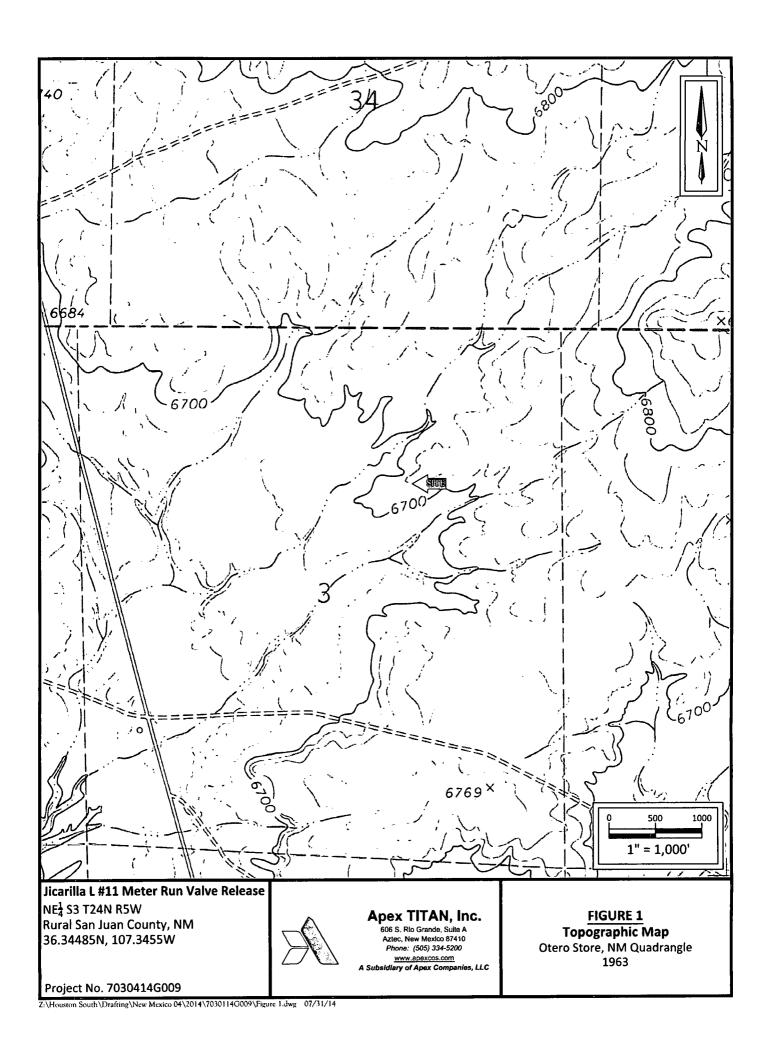
Based on the laboratory analytical, no additional investigation or corrective action appears warranted at this time.

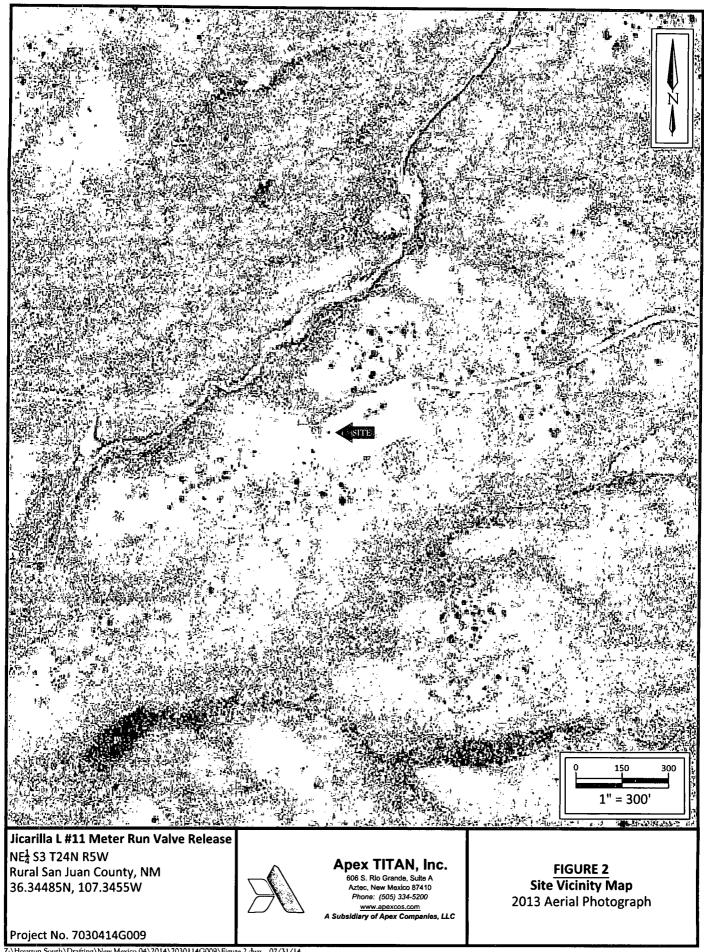
6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

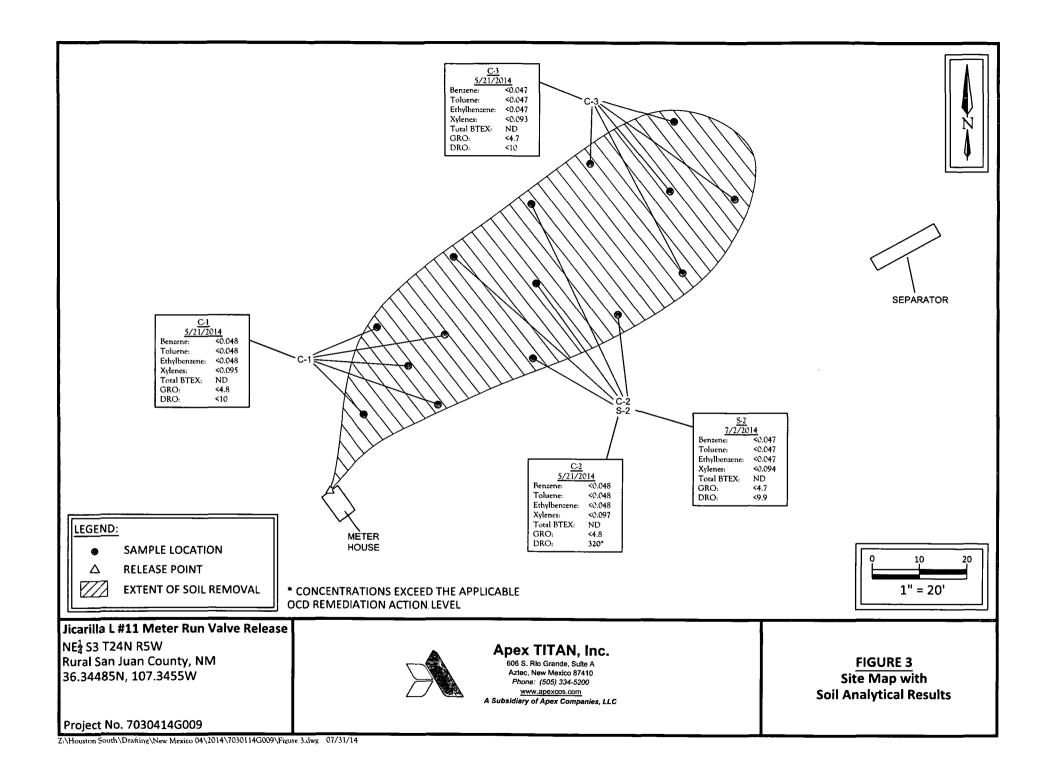
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.







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

State of New Mexico **Energy Minerals and Natural Resources**

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

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138

Revised August 1, 2011

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
2. Originating Site: Jicarilla L #11 Well Site
3. Location of Material (Street Address, City, State or ULSTR): Unit B, Section 3, T24N, R5W; 36.34485, -107.34550, Rio Arriba County
4. Source and Description of Waste: Hydrocarbon impacted soils generated from meter tube release. 5. Estimated Volume 20 yd bbls Known Volume (to be entered by the operator at the end of the haul) yd bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
3. Location of Material (Street Address, City, State or ULSTR): Unit B, Section 3, 72AN, R5W; 36.34488, -107.34550, Rio Arriba County 4. Source and Description of Waste: Hydrocarbon impacted soils generated from meter tube release. 5. Estimated Volume 20 vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator at the end of the haul) vel bbls Known Volume (to be entered by the operator State Volume) velocities and the properties Field Services, LLC do hereby (CONTRAN) NAVIE (extription to the specific requiremental protection Agency's July 198 regulatory determination, the above described waste is included with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous the characteristics established in RCRA regulations, 40 CFR 761.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS Martine of the propresentative samples of the voll field waste have been subjected to the paint filter test and tested for chloride content and that the sample have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 N
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
Octor days or Strawns
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
Address of Facility: 70 CR 405, Lindrith NM
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other Waste Acceptance Status: ☐ DEPUED (Mark P. Mainting A. P. Proposition A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. P. Proposition ☐ DEPUED (Mark P. Mainting A. P. P. Proposition ☐ DEPUED (Mark P. P. P. P. P. P. P. P. P. P. P. P. P.
PRINT NAME: Crais Selmitz TITLE: DENIED (Must Be Maintained As Permanent Record) DATE: 5-21-14
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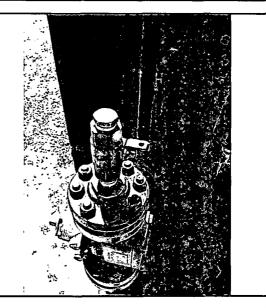
Photograph 1

Site prior to corrective action activities, facing west.



Photograph 2

Source of release with new plug.



Photograph 3

Looking east (down-wind) at the release area.

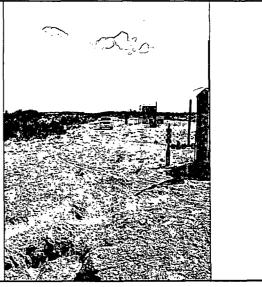




TABLE 1 Jicarilla L #11 Meter Run Valve Release Soil analytical summary

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO	TPH DRO
								(mg/kg)	(mg/kg)
II.		Natural Resources vision, Remediation	10	NE	NE	NE	50	10	00
				Final Confirm	nation Samples				
C-1	5/21/2014	Surface	<0.048	<0.048	<0.048	<0.095	ND	<4.8	<10
C-2*	5/21/2014	Surface	<0.048	<0.048	<0.048	<0.097	ND	<4.8	320
S-2*	7/2/2014	Surface	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<9.9
C-3	5/21/2014	Surface	<0.047	<0.047	<0.047	<0.093	ND	<4.7	<10

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NE = Not Established

ND = Not Detected

* C-2 was resampled as S-2



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

May 29, 2014

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX (214) 350-2914

RE: Jicarilla L #11 OrderNo.: 1405A36

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/23/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1405A36

Date Reported: 5/29/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience

Client Sample ID: C-1

Project: Jicarilla L #11

Collection Date: 5/21/2014 12:30:00 PM

Lab ID: 1405A36-001

Received Date: 5/23/2014 10:06:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS	•	-		Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2014 8:07:10 PM	13337
Surr: DNOP	97.9	57.9-140	%REC	1	5/27/2014 8:07:10 PM	13337
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2014 12:10:42 PM	A 13340
Surr: BFB	105	80-120	%REC	1	5/27/2014 12:10:42 PM	A 13340
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/27/2014 12:10:42 PM	A 13340
Toluene	ND	0.048	mg/Kg	1	5/27/2014 12:10:42 PM	Л 13340
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2014 12:10:42 PM	A 13340
Xylenes, Total	ND	0.095	mg/Kg	1	5/27/2014 12:10:42 PM	/ 13340
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	5/27/2014 12:10:42 PM	M 13340

Matrix: SOIL

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

Qualifiers:

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

Page 1 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1405A36

Date Reported: 5/29/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience

Client Sample ID: C-2

Project: Jicarilla L #11

Collection Date: 5/21/2014 12:35:00 PM

Lab ID: 1405A36-002

Matrix: SOIL

Received Date: 5/23/2014 10:06:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS		· ···· = · · · ·		Analys	: JME
Diesel Range Organics (DRO)	320	9.9	mg/Kg	1	5/27/2014 8:37:10 PM	13337
Surr: DNOP	102	57.9-140	%REC	1	5/27/2014 8:37:10 PM	13337
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2014 1:36:35 PM	13340
Surr: BFB	91.4	80-120	%REC	1	5/27/2014 1:36:35 PM	13340
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.048	mg/Kg	1	5/27/2014 1:36:35 PM	13340
Toluene	ND	0.048	mg/Kg	1	5/27/2014 1:36:35 PM	13340
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2014 1:36:35 PM	13340
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2014 1:36:35 PM	13340
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	5/27/2014 1:36:35 PM	13340

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

Qualifiers:

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

Page 2 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1405A36

Date Reported: 5/29/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience

Client Sample ID: C-3

Project: Jicarilla L #11

Collection Date: 5/21/2014 12:40:00 PM

Lab ID: 1405A36-003

Received Date: 5/23/2014 10:06:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2014 9:07:39 PM	13337
Surr: DNOP	107	57.9-140	%REC	1	5/27/2014 9:07:39 PM	13337
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2014 3:02:25 PM	13340
Surr: BFB	90.3	80-120	%REC	1	5/27/2014 3:02:25 PM	13340
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/27/2014 3:02:25 PM	13340
Toluene	ND	0.047	mg/Kg	1	5/27/2014 3:02:25 PM	13340
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2014 3:02:25 PM	13340
Xylenes, Total	ND	0.093	mg/Kg	1	5/27/2014 3:02:25 PM	13340
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	5/27/2014 3:02:25 PM	13340

Matrix: SOIL

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

Qualifiers:

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

Page 3 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405A36

29-May-14

Client:

Southwest Geoscience

Project:

Jicarilla L #11

Sample ID MB-13337	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batcl	Batch ID: 13337		F	RunNo: 1	8843				
Prep Date: 5/23/2014	Analysis [Date: 5/	27/2014	\$	SeqNo: 5	44843	Units: mg/F	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10		_						
Surr: DNOP	9.4	•	10.00		94.0	57.9	140			
Sample ID LCS-13337	Sampl	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batcl	h ID: 13	337	F	RunNo: 1	8843				
Prep Date: 5/23/2014	Analysis D	Date: 5/	27/2014	\$	SeqNo: 5	44844	Units: mg/F	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	128	60.8	145			
Surr: DNOP	6.5		5.000		129	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405A36

29-May-14

Client:

Southwest Geoscience

Project:

Jicarilla L #11

Sample ID MB-13340	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch	n ID: 13	340	F	tunNo: 1	8869				
Prep Date: 5/23/2014	Analysis D	ate: 5/	27/2014		SeqNo: 5	45108	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		88.4	80	120			

Sample ID LCS-13340	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е				
Client ID: LCSS	Batch	ID: 13	340	F	RunNo: 1	8869							
Prep Date: 5/23/2014	Analysis D	ate: 5/	27/2014	S	SeqNo: 5	45109	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	71.7	134						
Surr: BFB	990		1000		99.3	80	120						

Sample ID 1405A36-002AM	Samp	Гуре: М\$	5	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: C-2	Batc	h ID: 13	340	F	RunNo: 1	8869				
Prep Date: 5/23/2014	Analysis [Date: 5/	27/2014	S	SeqNo: 5	45113	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.06	0	105	69.5	145			
Surr: BFB	990		962.5		102	80	120			

Sample ID 1405A36-002AM	SD SampT	уре: М\$	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: C-2	Batch	1D: 13	340	F	RunNo: 1	8869				
Prep Date: 5/23/2014	Analysis D	ate: 5/	27/2014	S	SeqNo: 5	45114	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.11	0	99.4	69.5	145	5.02	20	
Surr: BFB	970		964.3		101	80	120	0	0	

Qualifiers:

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

Page 5 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405A36 29-May-14

Client:

Southwest Geoscience

Project:

Jicarilla L #11

Sample ID MB-13340 Client ID: PBS	•	ype: ME n ID: 13 :			tCode: Ei RunNo: 1		8021B: Volat	tiles		
Prep Date: 5/23/2014	Analysis [Date: 5/	27/2014	S	SeqNo: 5	45223	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID LCS-13340	Sampi	ype: LC	S	les	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 13	340	F	RunNo: 1	8869				
Prep Date: 5/23/2014	Analysis D	ate: 5/	27/2014		SeqNo: 5	45224	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120		 	
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

Sample ID 1405A36-001AMS	SampT	ype: MS	3	Tes	tCode: El	tiles				
Client ID: C-1	Batch	ID: 13	340	F	RunNo: 1	8869				
Prep Date: 5/23/2014	Analysis D	ate: 5/	27/2014	9	SeqNo: 5	45227	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.048	0.9597	0	98.6	67.4	135			
Toluene	0.90	0.048	0.9597	0	94.1	72.6	135			
Ethylbenzene	0.91	0.048	0.9597	0.01541	93.3	69.4	143			
Xylenes, Total	2.7	0.096	2.879	0.01293	92.9	70.8	144			
Surr: 4-Bromofluorobenzene	1.1		0.9597		116	80	120			

Sample ID 1405A36-001AM	SD SampT	ype: MS	SD D	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: C-1	Batch	n ID: 13	340	F	RunNo: 1	8869				
Prep Date: 5/23/2014	Analysis D	ate: 5/	27/2014	8	SeqNo: 5	45228	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.048	0.9606	0	95.4	67.4	135	3.26	20	•
Toluene	0.89	0.048	0.9606	0	92.4	72.6	135	1.73	20	
Ethylbenzene	0.90	0.048	0.9606	0.01541	92.1	69.4	143	1.24	20	
Xylenes, Total	2.7	0.096	2.882	0.01293	92.2	70.8	144	0.671	20	
Surr: 4-Bromofluorobenzene	1.1		0.9606		119	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit o
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 6 of 6
- Sample pH greater than 2.
- Reporting Detection Limit



4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Client N	lama: Southv	west Geoscience	Work Order	Number: 140)5A36			RoptNo:	1
Receive	d by/date:	M	05/3/	-	_				
Logged I	By: Linds	ay Mangin	5/23/2014 10:	06:00 AM		Jane 194	4400		
Complet	ed By: Lings	al Mangin	5/23/2014 10:4	47:4∱AM		A Lift	4		
Reviewe	d By: 🥌		05/2	3/14		00	0		
Chain c	of Custody	0		11					
1. Cust	ody seals intact	on sample bottles?	•	Ye	s 🗆	No		Not Present	
2. Is Cf	nain of Custody	complete?		Ye	s 🗸	No		Not Present	
3. How	was the sample	delivered?		<u>Cc</u>	<u>urier</u>				,
Log In									
4. Was	an attempt ma	de to cool the samp	les?	Y	es 🗹	No		na 🗆	
5. Wer	e all samples re	ceived at a tempera	uture of >0° C to 6.0)°C Ye	s 🗹	No		NA 🗆	
6. Sam	nple(s) in proper	container(s)?		Y	es 🗹	No			
7. Suffi	cient sample vo	lume for indicated t	est(s)?	Ye	s 🗹	No			
8. Are s	samples (except	VOA and ONG) pr	operly preserved?	Ye	s 🗹	No			
9. Was	preservative ad	ided to bottles?		Ye	s 🗌	No	\checkmark	NA \square	
10.VOA	. vials have zero	headspace?		Υє	s 🗆	No		No VOA Vials ⊻	•
		ontainers received t	proken?	Ye	es 🗆	No	V	<u> </u>	
	,		. '					# of preserved bottles checked	
		tch bottle labels?		Ye	s 🗹	No		for pH:	. 13 unless maked)
•	•	on chain of custody ty identified on Cha	•	Υe	s 🗸	No	·	Adjusted?	r >12 unless noted)
		rses were requested	-	Υe		No			
		es able to be met?		Ye	_	No		Checked by:	
(If no	, notify custome	er for authorization.	•				Į.		
Snacial	Handling (it	f applicable)							
		f all discrepancies v	vith this order?	Ye	s 🗌	No		na 🗹	
	Person Notifier	d:		Date:				······································	
	By Whom:		-		Mail [] Phone [Fax	In Person	
	Regarding:		extraction of the second of the second	a marana arangahan	m at tobacco	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	-1/an Was		
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17. Add	itional remarks:								•
18. <u>Coc</u>	oler Information			_					
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[]_	3.6	Good	Yes						

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Matrix		Time	COED	Grab	Identifying M	Marks of Sar	mple(s)	Start Depth	End Depth	VOA	A/G 1 LL.	250 ml	P/O		[]	\int_{-}	_		/ /				<i>!</i> 	Lab S	Sample ID (L	ab Use C	nly)
	5-21-14	- 	X		C	-1								$ \lambda $	X								14	05	A36	-00	<u> </u>
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Matrix Contai		V - Wastewa A - 40 ml via			W - Water A/G - Amber /	S - Soil Or Glass 1	SD - Sol Liter		- Liquid 50 ml -	d A Glass v	- Air Ba	g uth			coal tube		- slu	dge	0	- Oil					•		



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

July 18, 2014

Kyle Summers

Apex Titan, Inc.

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603 FAX (214) 350-2914

RE: Jicarilla L #11 OrderNo.: 1407183

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/3/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 10, 2014.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1407183

Date Reported: 7/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: S-2

Project: Jicarilla L #11

Collection Date: 7/2/2014 12:30:00 PM

Lab ID: 1407183-001

Matrix: SOIL Receiv

Received Date: 7/3/2014 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/8/2014 5:23:04 PM	14085
Surr: DNOP	70.7	57.9-140	%REC	1	7/8/2014 5:23:04 PM	14085
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/8/2014 12:50:50 AM	14058
Surr: BFB	93.8	80-120	%REC	1	7/8/2014 12:50:50 AM	14058
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	7/8/2014 12:50:50 AM	14058
Toluene	ND	0.047	mg/Kg	1	7/8/2014 12:50:50 AM	14058
Ethylbenzene	ND	0.047	mg/Kg	1	7/8/2014 12:50:50 AM	14058
Xylenes, Total	ND	0.094	mg/Kg	1	7/8/2014 12:50:50 AM	14058
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	7/8/2014 12:50:50 AM	14058

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

Qualifiers:

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

Page 1 of 4

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

4.3

WO#:

1407183

18-Jul-14

Client:

Apex Titan, Inc.

Project

Surr: DNOP

Jicarilla L #11

Sample ID MB-14085	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PB\$	Batch	n ID: 14	085	F	RunNo: 1	9699				
Prep Date: 7/7/2014	Analysis D	Date: 7/	7/2014	\$	SeqNo: 5	72210	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit_	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.8		10.00		87.6	57.9	140			
Sample ID LCS-14085	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	n ID: 14	085	F	RunNo: 1	9699				
Prep Date: 7/7/2014	Analysis D)ate: 7/	7/2014	5	SeqNo: 5	72211	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.6	130			

86.4

57.9

140

5.000

Qualifiers:

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

Page 2 of 4

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407183

18-Jul-14

Client:

Apex Titan, Inc.

Project:

Analyte

Client ID:

Jicarilla L #11

Sample ID MB-14058

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

LowLimit

Client ID:

PBS

Batch ID: 14058

PQL

RunNo: 19711

Prep Date: 7/3/2014

SeqNo: 572606

Analysis Date: 7/7/2014

Units: mg/Kg

RPDLimit

Qual

Gasoline Range Organics (GRO)

ND 5.0

1000

92.2

HighLimit

s

Surr: BFB

920

SPK value SPK Ref Val %REC LowLimit

0

TestCode: EPA Method 8015D: Gasoline Range

120

%RPD

Sample ID LCS-14058

SampType: LCS

1200

Result

RunNo: 19711

HighLimit

Prep Date: 7/3/2014

Analysis Date: 7/7/2014

Batch ID: 14058

SeqNo: 572607

Analyte

LCSS

%REC

Units: mg/Kg

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

PQL Result 28 5.0

25.00 1000

SPK value SPK Ref Val

111 120 71.7 134 80 120

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Е Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit o

RPD outside accepted recovery limits R

В

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Page 3 of 4

Sample pH greater than 2.

RLReporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407183

18-Jul-14

Client: Project:

Apex Titan, Inc.

i rojeci.

Jicarilla L #11

Sample ID MB-14058	SampType: MBLK			Tes							
Client ID: PBS	Batcl	Batch ID: 14058			RunNo: 1						
Prep Date: 7/3/2014	Analysis Date: 7/7/2014			5	SeqNo: 5	72630	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050	·								
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120				
Sample ID LCS-14058	Sampl	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 14058			F	RunNo: 1						

Sample ID LCS-14058	Samp1	ype: LC	S	Tes						
Client ID: LCSS	058	R	tunNo: 1	9711						
Prep Date: 7/3/2014	Analysis D)ate: 7/	7/2014	SeqNo: 572631			Units: mg/k	(g		
Analyte	Result PQL SPK value SPK Ref Val				%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 4 of 4



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

Clie	nt Name:	APEX Titan		Work O	rder Numb	er: 1407183		RcptNo	: 1		
Rece	eived by/dat	e:	1	07(0	3/14			_			
Logg	ed By:	Celina Ses	Sa	7/3/2014	7:00:00 AM	1	Celin	۷ ـ	m		
Com	pleted By:	Celina Ses	sa	7/3/2014	11:01:34 A	М	Celia	. (~ ~		
Revi	ewed By:	(A)	L 9	77 08 KF							
Chai	in of Cus	tody	,	2.15-4.1							
1. 0	Custody sea	als intact on sa	mple bottles?			Yes 🗌	No		Not Present 🗹		
2. 1	s Chain of (Custody compl	ete?			Yes 🗹	No		Not Present		
3. F	3. How was the sample delivered?										
<u>Log</u>	<u>ı İn</u>								,		
4. \	Was an atte	empt made to	cool the samp	les?		Yes 🗹	No		NA 🗆		
5. V	Nere all sar	mples received	l at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No		NA 🗆		
6. :	Sample(s) i	n proper conta	iner(s)?			Yes 🗹	No				
7. 8	7. Sufficient sample volume for indicated test(s)?						No				
8. <i>A</i>	Are samples	s (except VOA	and ONG) pro	perly preserve	ed?	Yes 🗹	No				
9. v	Nas presen	vative added to	bottles?			Yes	No	\checkmark	NA 🗆		
10.\	/OA vials h	ave zero head:	space?			Yes	, No		No VOA Vials ⊞	<u>(,2</u>	07/03/14
11.1	Were any s	ample contain	ers received b	roken?		√es □	No	V			
								_	# of preserved bottles checked		
		work match bo				Yes 🗹	No		for pH:	or >12 u	nless noted)
		pancies on ch s correctly ider				Yes 🗹	No		Adjusted?		indus noteu,
		nat analyses w				Yes ☑	No				
		ding times abl	•			Yes 🗹	No		Checked by:		
(If no, notify	customer for	authorization.)								
Snor	oiol Hone	dling (if so	ulioobla)								
		iling (if app		and and a surface		Yes 🗌	No	П	na 🗹		
ז.ס.¥]			screpancies v	vith this order?		Yes U	NO		NA Y	7	
		n Notified:		• • • • • • • • • • • • • • • • • • • •	Date	'		_	-		
	By Wi				Via:	eMail	Phone	Fax	in Person		
	Regar Client	aing: Instructions:		<u>.</u>							
17	Additional r	···	<u> </u>	<u></u>			·				
18.	Cooler Info		Condition	Seal Intact	Seal No	Seal Date	Signed E	Bv			
	1	3.3	Good	Yes	232, 140		2.3.00]		

Chain-of-Custody Record				Turn-Around				L	ı	1 1	E	NIV	TE	20	AI R	ЯĖ	NT	AL			
Client:	APF	X TI	TAN	Î Standard	_														7		
				Project Name	Project Name:				ANALYSIS LABORATORY www.hallenvironmental.com												
Mailing	Mailing Address: AZTEC, NM			Jicarilla L #11 Project #:				49	01 H	awkins NE - Albuquerque, NM 87109											
		<u> </u>		Project #:	Project #:						5-345-3975			•							
Phone #	#: <i>4</i> 7	13 - 8	121-5603	70304	114600	.9		٠.				,				uest					
email or Fax#: Kyle Summers			Project Mana				<u> </u>	\$					(\$							Τ	
QA/QC Package: Standard □ Level 4 (Full Validation)			KylE	Summ Aron Br	ners	+ TMB's (8021)	(Gas or	₹ ()		 	SIMS)		Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	PCB's							
Accreditation			Sampler: A	gron Br	CYANT	ABA I	TPH	IQ/C	9.1)	4.1	270			808						2	
□ NELAP □ Other			Orikely of Ziyes And Meleconomic Sample memperature:				+ !!!	(g)	413	20	o 8	als	ğ	des /		Ιδί				ة ا	
Date	Time	Matrix	Sample Request ID	l .	i	1467183	BTEX +-MTBF	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO) MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,Cl	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
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Date: 7_2-/4	Time: 1515	Relinquish	ed by:	Received by: Date Time Heather M. Woods 7/2/14 1515				nark	s:		-										
Date:	Time:	Relinquish	ed by:	Received by	<u></u>	Date Time	\dashv														
12/14			the M. Woods		10	7/03/14/0700										,					
t	f necessary,	samples sub	mitted to Hall Environmental may be sui	contracted to other	ocredited laboratori	ies. This serves as notice of	this possi	bility.	Any su	ıb-cont	racted	data	will be	cleari	y nota	ted on	the ar	alytica	l report		

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