3R-1014

Release Report/ General Correspondence

Williams RA

Date: Jan-Mar 2015

OIL CONS. DIV DIST. 3

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

DEC 26 2014

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. Fran	icis Dr., Santa	a Fe, NM 87505	j	Sa	ınta F	e, NM 875	505				
-			Rele	ease Notific	atio	n and Co	orrective A	ction	1	and the terms of t	
						OPERA'	ГOR		☐ Initia	al Report 🛛 Final Re	epor
Name of Co	ompany W	/illiams Four	Corners	LLC		Contact	Kelsey Christ	iansen			1
Address	188 CR 49	00, Bloomfi	eld, NM	87413		Telephone 1	No. 505-632-46				
Facility Na	ne 30-5 C	DP				Facility Typ	e Compressor	Station			
Surface Ow	mer Privat			Mineral C)wner				API No		
Surface Off	ner Tirva			'					7111110	•	
I I attain	T C 4:	Tarrashin	Danas			N OF RE		D = =4/3	117 I :	Ct	
Unit Letter L	Section 18	Township 30N	Range 5W	Feet from the	Norti	h/South Line	Feet from the	East/	West Line	County Rio Arriba	
			L.	Latitude N <u>36.</u>	81163	<u>°</u> Longitud	e W <u>107.40396</u>	0			
			÷	NAT	URE	E OF REL	EASE				
Type of Rele							Release 363 MC			Recovered 0 MCF	
Source of Re	lease Bypa	ss Valve				Date and I 12/19/14, 9	lour of Occurrence	ee	Date and 12/19/14,	Hour of Discovery	
Was Immedi	ate Notice (Given?	·			If YES, To	7.50 AWI				
☐ Yes ☐ No ☒ Not I						1					
By Whom?						Date and I					
By Whom? Was a Watercourse Reached? ☐ Yes ☒ No						If YES, Vo	olume Impacting t	the Wat	ercourse.		
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*	-						
Not Applicat	ole										
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*						3	_
A bypass val	ve on a dun	np line was in	advertentl	y left open. The t	oypass	valve was imn	nediately closed u	pon dis	covery.		
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*							
		h gas release.									
No cleanup i	equired wit	ii gas icicasc.						,			
regulations a public health should their or the enviro	II operators or the envi operations I nment. In a	are required t ronment. The nave failed to	o report and acceptant adequately OCD accept	nd/or file certain r ce of a C-141 report investigate and r	elease ort by t emedia	notifications a he NMOCD mate contaminat	nd perform correct parked as "Final Rition that pose a thr	ctive act eport" of eat to g	tions for rele does not reli round water	uant to NMOCD rules and eases which may endanger eve the operator of liability s, surface water, human health ompliance with any other	h
							OIL CON	SERV	ATION	DIVISION	
	uy Ch	whim				Approved by	Environmental S	pecialis	st:	my 5	
Printed Nam	e: Kelsey (Christiansen		·		· · · · · · · · · · · · · · · · · · ·		, ,			
Title: Enviro	onmental S	pecialist				Approval Da	te: 2/5/	15	Expiration	Date:	
E-mail Addr	ess: Kelsey	.christiansen@)williams	.com		Conditions o	f Approval:			Attached	

* Attach Additional Sheets If Necessary

Phone: 505-632-4606

Date: 12/22/14

NCS 15038 41381

(T)

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1625 N. French Dr., Hobbs, NM 88240
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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 OIL CONS. DIV DIST. 3

Form C-141

JAN 0 5 2015 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA	FOR		☐ Initi	al Report	⊠ F	Final Report
Name of Co	ompany W	illi <mark>ams Four</mark>	Corners	LLC		Contact	Kelsey Christ	tiansen				•
Address	188 CR 490	00, Bloomfie	eld, NM	87413		Telephone N	No. 505-632-46	506				
Facility Nar	Surface Owner Jicarilla Apache Nation Mint					Facility Typ	e Compressor	Station				
Surface Ow	ner Jicaril	la Apache N	ation	Mineral O)wner				API No).		
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County		
D	7	•								Rio Arriba		
	<u> </u>							ļ		<u> </u>		
				Latitude <u>36.50</u>	697° N	Longitude	e - <u>107.19263° V</u>	<u>W</u>				
				NAT	URE	OF RELI	EASE_					
							Release 3,671 M			Recovered 01		
Source of Re	elease PSRV	•					lour of Occurrence	ce		Hour of Disco		
W I d'	-4- N-4' O	0					l, 07:00 AM		12/23/20	14, 07:00 AM		
was immedi	ale Notice G		Yes F	No D Not De	anired	If YES, To	whom? n, NMOCD					
			ics L	J NO L NOUNC	equireu		i, ividoob imond, Jicarilla C	Dil and G	as			
By Whom?	Kelsey Chri	stiansen			•••		lour 12/23/14 5:4					
					***	If YES, Vo	lume Impacting t	the Wate	rcourse.		,	
			Yes 🗵	No								
If a Watercou	urse was Imp	pacted, Descri	ibe Fully.	*								
Not Applicat	ble											
		um and Damas	dial Aatia	n Tokon *					-	· .		
Describe Cat	use of Frobie	and Remed	ilai Aciio	II Taken.								
							. Once the PSRV	√ thawed	it returne	d to proper wo	orking o	conditions
and was clos	ed. William	s personnel a	re in the p	rocess of preventi	ing a rec	occurrence.						
Describe Are	ea Affected a	ınd Cleanup A	Action Tal	ken.*								
No cleanup	required wit	h gas release.										
								1 .	1.1	11. 30.40	<u> </u>	
I hereby cert	ify that the ii	nformation gi	ven above	e is true and comp	lete to t	the best of my	knowledge and u	ınderstar	nd that pur	suant to NMO	CD rul	les and
should their	operations h	ave failed to a	adequately	investigate and r	emediat	te contaminati	on that pose a thr	reat to gr	ound wate	r, surface wat	er, hum	nan health
				otance of a C-141	report c	loes not reliev	e the operator of	responsi	bility for o	compliance wi	th any	other
federal, state	, or local lav	vs and/or regu	ılations.		- 1		OTT GOVE			DIVIDIO		
1	~				}		OIL CON	<u>SERV</u>	AHON	DIVISIO	<u>Y</u>	
1 1/1	De.	اسلامه المارا								[]	!	
dela	y was	un				Approved by	Environmental S	Specialist	. //	' //		-6/
Signature:						rippio rea oy	za nomienta o	рестанос	" / ju	ry/ V.		
										1 M		مح
Printed Nam	e: Kelsey C	hristiansen					- 1 - 7					
Title: Enviro	onmental Sp	ecialist				Approval Da	ie: 2/6/2	5 1	Expiration	Date:		
E-mail Addre	ess: kelsev	christiansen@)williame	com		Conditions o	f Annroval:					
		om istialiscii(a.				Conditions 0	pprovar.			Attached		
	12/29/2014	to ICXI:		hone: 505-632-46		14						
* Attach Addi	monal Shee	is II Necess	ary		7	TNCS.	15037	541	01			

OIL CONS. DIV DIST. 3

JAN 0 5 2015

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

Form C-141

Revised August 8, 2011

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

				58	anta F	e, NM 8/5	05	***			10040 111.00	and the second s	
			Rel	ease Notific	catio	n and Co	rrective A	ction	n				
•						OPERA	ΓOR		☐ Initi:	al Report	\boxtimes	Final Report	
Name of Co	ompany W	illiams Four	Corners	LLC		Contact	Kelsey Christ	iansen		a. repore	<u> </u>	- mar repor	
		00, Bloomfi				Telephone 1	No. 505-632-46						
Facility Na	ne 29-7					Facility Typ	e Compressor	Statio	n				
Surface Ow	ner Privat	te		Mineral (Owner				API No),			
				IOC	TIO	N OF REI	FASE		•				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	West Line County			
I	15	29N	7W	Test nom me	110111	, soum sme		1340	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rio Arriba	ι		
	L	<u>l</u>		L	14540		107.55222101	1					
				Latitude 36.72		_		<u>W</u>					
(D. 1	3.7	1.0		NA'I	URE	OF REL		25	1 37 1 - 2	1.0	1.400		
Type of Rele		ure Relief Va	lva				Release 225 MC			Recovered 0			
Source of Re	icase i icss	uic Keiler va	ive			Date and Hour of Occurrence Date and Hour of Discovery 12/27/2014, 03:00 AM 12/27/2014, 03:00 AM							
Was Immedi	ate Notice (Yes [] No 🛛 Not R	eauired	If YES, To		1					
By Whom?						Date and I-	Jour .				.		
Was a Water	course Read	ched?					olume Impacting	the Wa	tercourse.				
		_] No			3							
☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.*													
Not Applicat	ole												
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*	•		3						
Williams had	11 0	f ammun viim atau	L. 225 M	CE of matural cos		0.7.0	an Station from a		o ratiof vals	a The veloc		the recult of	
				personnel bubble					ure relief valve. The release was the res event further gas loss and thawed the va				
Describe Are	a Affected	and Cleanup A	Action Ta	ken.*									
37 1	. 10	.1.											
No cleanup r	equired for	this gas releas	se.										
				e is true and comp									
				nd/or file certain t									
				ce of a C-141 repo y investigate and r									
				otance of a C-141									
federal, state,	, or local lav	ws and/or regu	ılations					CEDI	I A TO NI	DIVIGIO			
************	·	,					OIL CON	SERV	AHQN	DIVISIC	<u>)N</u>		
V .	1 /	histein	ــــ										
ا مرجو	any (VULLEY.	••			Approved by	Environmental S	Speciali	st:)	
Signature:	.,						2 -	//	_	l		,	
Printed Name	e: Kelsey C	Christiansen			[The same	\mathcal{L}		~e~			
Title: Enviro						Approval Da	te: 5/6/15	7	Expiration	Date:			
							0-1-1			T			
E-mail Addre	ess: kelsey.	christiansen@)williams.	com	-	Conditions of	t Approval:			Attached			

12/30/14 * Attach Additional Sheets If Necessary Phone: 505-632-44606

FRCS 1503739297



OIL CONS. DIV DIST. 3

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JAN 05 2015

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Release Notification and Corrective Action

			1101			OPERA?	ГOR		Initi	ial Report 🛛 Final Report
Name of Co	ompany W	illiams Four	r Corners	LLC	. [Contact	Kelsey Christ	iansen		
		00, Bloomfi	eld, NM	87413			No. 505-632-46			
Facility Na	ne Cabres	to				Facility Typ	e Compressor	Station		
Surface Ow	ner US Fo	rest Service	;	Mineral C	Owner			A	PI No	0.
				LOCA	ATIO	N OF REI	LEASE			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West	Line	County
A	19	30N	4W						_	Rio Arriba
				Latitude <u>36.802</u> NAT		V Longitud OF REL I		<u>W</u>		
Type of Rele	ase Natura	l Gas		INAI	UKE		Release 528.8 M	ICE Vol	ume	Recovered 528.8 MCF
Source of Re							lour of Occurrence			Hour of Discovery
						12/28/2014	l, 02:00 AM	I		14, 02:00 AM
Was Immedi	ate Notice C		Yes [No Not Re	equired	If YES, To Cory Smith				
By Whom?							lour 12/29/14, 11			
Was a Water	course Reac		Yes ⊠] No		If YES, Vo	lume Impacting t	he Watercou	rse.	
If a Waterco	ırse was Imp	pacted, Descr	ibe Fully.	*	,	_L				
Not Applical	ole									
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken *				ı		
weather cond	litions which	acaused the v	ent port to	MCF of natural ga become frozen d are in the process	during a	compressor g	as blow down. T	rom the vent he gas blow	port. down	The release was due to the cold was immediately isolated to
Describe Are	a Affected a	ind Cleanup A	Action Tal	ken.*						
No cleanup r	equired with	gas release.								
regulations a public health should their	Il operators or the enviroperations had not a ment. In a	are required to conment. The ave failed to a ddition, NMC	o report and acceptant adequately OCD accept	nd/or file certain report of a C-141 report investigate and r	elease rort by the emedian	notifications ar ne NMOCD m te contaminati	nd perform correctarked as "Final Roon that pose a threather the operator of	etive actions f eport" does n eat to ground responsibility	or rel ot rel wate for o	suant to NMOCD rules and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other
			,	•			OIL CON	SERVAT.	<u>IUN</u>	DIVISION
	d	elang (.	hodie	in		Approved by	Environmental S	pecialist:	/w	
Signature:						,				
Printed Name	e: Kelsey C	hristiansen								
Title: Enviro	nmental Sp	ecialist				Approval Dat	e: 2/6/15	Expir	ation	Date:
E-mail Addre	ess: Kelsey.	christiansen@)williams	com		Conditions of	Approval:			Attached
	12/29/2014			hone: 505-632-46	506	, /				
* Attach Addi	tional Shee	ts If Necess	ary		;	tex	150	3739	8	428

District I

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.

District II
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District IV

1625 N. French Dr., Hobbs, NM 88240

1220 S. St. Fran	icis Dr., Santi	a Fe, NM 87503)								
			Rele	ase Notifi	catio	n and Co	orrective A	ction			
						OPERA'	ГOR		Initia	al Report 🛛 Final Report	
Name of Co	ompany W	illiams Four	Corners	LLC		Contact	Kelsey Christ	iansen			
		00, Bloomfi				Telephone 1	No. 505-632-46		****		
Facility Na							e Compressor	~~~~	, ,		
1	-	h, Dennis, G	eorge,	Mineral (Owner				API No).	
Armando, F	lenry Espi	nosa									
				LOC	ATIO	N OF RE	LEASE				
Unit Letter C	Section 31	Township 29N	Range 5W	Feet from the	North	/South Line	Feet from the	East/W	Vest Line	County Rio Arriba	
	1				1		105 1010560	L			
			L	atitude <u>36.687</u>	/253° N	\ Longitud	e - <u>107.401956°</u>	W			
,				NAT	rure	OF REL		ND [101/02	
Type of Rele			7.1				Release 625 MC lour of Occurrence				
Source of Re	iease Auto	matic Dump \	aive			l l	16ur 61 Occurrenc 1, 02:30 PM	e			
Was Immedi	ate Notice C					If YES, To			Volume Recovered 0 MCF Date and Hour of Discovery 12/28/2014, 02:30 PM AM Watercourse. JAN 09 2015 omatic dump valve open. Immediately the into operation. Approximately 625 MCI		
			Yes 📙	No Not R	equired		n, NMOCD				
							Iour 12/29/14, 08	F Volume Recovered 0 MCF e Date and Hour of Discovery 12/28/2014, 02:30 PM :11 AM he Watercourse. DIL CONS. DIV DIST. 3			
was a water	course Reac	_	Yes 🕅	No		II YES, VO	nume impacting t	ine wate	rcourse.		
By Whom? Kelsey Christiansen Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.*								OIL CO	NS. DIV	DIST. 3	
If a Watercook Not Applicat		pacted, Descri	ibe Fully.*								
Not Applicat) ic					•		JA	N 09	2015	
Describe Cau	ise of Probl	em and Reme	dial Action	Taken.*							
suction disch	arge was cle	osed and repa	irs were pro	perly made to t	he dump	valve before	bringing the unit				
natural gas w	as released,	Williams per	sonnel are	in the process of	r preven	ting a reoccur	rence.				
Describe Are	a Affected	and Cleanup A	Action Take	n.*	*******						
No cleanup r	equired with	n gas release.									
regulations a public health should their or or the environ	If operators or the environment. In a	are required to ronment. The ave failed to a	o report and acceptance acceptance acceptance acceptance accept accept	l/or file certain of a C-141 rep investigate and	release r ort by th remedia	notifications a ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti eport" de eat to gr	ons for rele oes not rele ound water	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other	
Lelan	y Christi	un					OIL CON	SERV	ATION	DIVISION	
Signature:						Approved by	Environmental S	pecialist	: fore		
Printed Name	e: Kelsey C	Chr <u>istiansen</u>					0//				
Title: Enviro	nmental Sp	pecialist				Approval Da	te: 2/11/13	5 E	Expiration	Date:	
E-mail Addre	ess: Kelsey	.christiansen@)williams.c	om		Conditions of	f Approval:			Attached	
Date:	1/5/15		Phone:	505-632-4606							

* Attach Additional Sheets If Necessary

NXS 1504/2 32 784

District I
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Revised August 8, 2011

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

			Rele	ease Notific	catio	n and Co	rrective A	ction	1				
						OPERA	ГOR		Initia	al Report	\boxtimes	Final R	epoi
		illiams Four											
Address: 18 Facility Nar), Bloomfield	d, NM 8	37413				Initial Report Final Fansen 32-4606 ssor Station API No. The East/West Line County Rio Arriba 710 W 32.25 Volume Recovered: 0 MCF Natural State and Hour of Discovery: 12/31/2014 at 08:00 AM 4 at 11:20 AM State and Hour of Discovery: 12/31/2014 at 08:00 AM 4 at 11:20 AM State and Hour of Discovery: 12/31/2014 at 08:00 AM 4 at 11:20 AM State and Hour of Discovery: 12/31/2014 at 08:00 AM 4 at 11:20 AM State and Hour of Discovery: 12/31/2014 at 08:00 AM 5 JAN 0 9 2015 6 On from a pressure relief valve. The release was the resonnel immediately shut in the suction to prevent ersonnel are in the process of preventing a and understand that pursuant to NMOCD rules and corrective actions for releases which may endanger hal Report" does not relieve the operator of liability a threat to ground water, surface water, human heal or of responsibility for compliance with any other ONSERVATION DIVISION tal Specialist: Attached Attached Attached					
		<u> </u>			Contact: Kelsey Christiansen Telephone No.: (505) 632-4606 Facility Type: Compressor Station								
Surface Ow	ner: BLM			Mineral (Owner				API No	•			
	<u> </u>			LOCA			LEASE						
Unit Letter P	Section 21 & 22	Township 28N	Range 5W	Feet from the	North	/South Line	Feet from the	East/\	West Line				
<u> </u>	1 21 & 22_	2011								KIO AITIO	1		
			i	Latitude <u>36.643</u>	<u>012° N</u>	Longitude	e <u>-107.354571°</u>	<u>W</u>					
		•		NAT	TURE								
Type of Rele	ase: Natura	l Gas						25	Volume R	Recovered: 0	MCF	Natural g	as
Source of Re	lease: Press	ure Relief Va	lve			Date and H	lour of Occurrence	ce:	Date and	Hour of Disc	covery	/:	
Was Immedia	ota Natioa (livon?							12/31/201	4 at 08:00 A	<u>\M</u>		
was illiliedia	ne nonce (Yes [] No 🔲 Not R	equired								
By Whom? I	Kelsey Chri	stiansen				Date and H	lour: 12/31/14 at	11:20 A	M				
Was a Water	course Reac	_	v N	1 37		If YES, Vo	lume Impacting	the Wate	ercourse.				
								OILC	ONS. DIV	/ DIST. 3	<u>, </u>		
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*	ķ						0045			
Not Applicab	le							J	IAN 09	2015			
Describe Cau	se of Probl	em and Remed	dial Action	n Taken.*			*		· · · ·				
result of cold	weather co ss, thawed t	nditions causi	ng the pre	ssure relief valve	to freez	e in the open	position. Person	nel imm	ediately shu	it in the suct	tion to	prevent	
Describe Are	a Affected	and Cleanup A	Action Tak	cen.*				12					
No clean-up	required fo	or natural gas	release.										
regulations al public health should their co or the environ	I operators or the envir perations h nment. In a	are required to conment. The ave failed to a	o report ar acceptance adequately OCD accep	nd/or file certain rece of a C-141 report investigate and received.	release nort by the remediate	otifications ar e NMOCD me e contaminati	nd perform correct arked as "Final R on that pose a threat the operator of	ctive acti Report" d reat to gr responsi	ions for rele loes not reli round water ibility for co	eases which eve the oper , surface wa ompliance w	may en rator of iter, hu with any	ndanger f liability ıman healt	lh
mandada e e a e e	'n						OIL CON	SERV	ATION	DIVISIC	<u>N</u> /		
Vila	y Chris	Lun							//	7	11	16	
* .						Approved by	Environmental S	Specialist	i: //w	ry /	´ [/		ク
Signature:										- X C			
Printed Name	: Kelsey Cl	hristiansen								$\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}}}}}$			
Title: Enviror	mental Spe	ecialist				Approval Dat	c: 2/11/15	5 1	Expiration I	Date:			
E-mail Addre	ss: kelsey.c	hristiansen@	williams.c	om		Conditions of	Approval:			Attached			
Date: 01/05/2	014	Ph	one: (505) 632-4606									
Attach Addit		ets If Necess	ary		7	HNCS	1504	123	33/	78			`

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			Rele	ease Notific	ation	and Co	rrective A	ction	1			
						OPERA		~~~	☐ Initia	al Report	\boxtimes	Final Report
		illiams Four					lsey Christianse					==
), Bloomfield Central De					No.: (505) 632-4 e: Central Deliv		oint		-	
Surface Ow				Mineral C		7 71	· · · · · · · · · · · · · · · · · · ·		API No			
Burrace OW	1101. 1 11440			•		LOE DEI	TO A CITE		7111110	<u>'-</u>		
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	East/	West Line	County		•
P	19	29N	6W 	∟atitude 36.704	L 792° N	Longitude	e <u>-107.496173° </u>	W		Rio Arriba	1	····
				•		OF RELI		<u>··</u>				
Type of Rele						Volume of	Release: 1,181 M			Recovered: (
Source of Re	lease: Press	ure Safety Va	lve (PSV)				lour of Occurrence t 07:00 AM	e:		Hour of Dis 15 at 07:00 A		:
Was Immedia	ate Notice C		Yes [No Not Re	equired	If YES, To			1 01/04/201	15 at 07.007	1111	
By Whom?	Kelsev Chri						lour: 01/04/2015 ε	at 12:35	5 PM	±.\.		
Was a Water		:hed?					olume Impacting th	he Wat	ercourse.		T 0	
			Yes 🗵						IL CONS	DIV DIS	il. 3	
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*	•					ΙΔΝ	1 2 2015		
Not Applicab	ole								ALM	Y ==		
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*								
the result of o	cold weathe I. Personnel	r conditions c immediately	ausing the shut in the	cooler on the cor compressor to pr	npressor revent fu	to freeze. Or rther gas loss	pressure safety vance the discharge ps, circulated warm	pressur gas int	e exceeded to the coole	the operatin r, thawed ou	g press	sure the PSV
Describe Are	a Affected a	and Cleanup A	Action Tak	ten.*								***************************************
No clean-up	required for	natural gas re	eleases.									
regulations all public health should their o	If operators or the envir operations h nment. In a	are required to ronment. The ave failed to a ddition, NMC	o report are acceptance acceptanc	nd/or file certain rece of a C-141 report investigate and r	elease no ort by the emediate	otifications are NMOCD me contaminati	knowledge and und perform correct arked as "Final Roon that pose a three the operator of r	tive act eport" of eat to g	ions for relations not relations relations in the relationship in	eases which ieve the ope r, surface wa ompliance v	may er rator of iter, hu vith any	ndanger f liability man health
Le	lang (huden	<i>.</i>			A	OIL CONS			DIVISIO	$\frac{\mathrm{DN}}{\mathrm{N}}$	
Signature:						Approved by	Environmental Sp	pecialis		X, X	_کو	
Printed Name	e: Kelsey Cl	hristiansen					· · · · · · · · · · · · · · · · · · ·					
Title: Environ	nmental Spe	ecialist				Approval Dat	e:2/11/15		Expiration	Date:		
E-mail Addre	ess: kelsey.c	hristiansen@	williams.c	om	(Conditions of	f Approval:			Attached		
Date: 01/06/2) 632-4606								
* Attach Addi	tional Shee	ets If Necess	ary		· 1	TNCS	1504	23	354	41		

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 OIL CONS. DIV DIST. 3

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

	OPERATOR	☐ Initial Report ☐ Final Report
Name of Company: Williams Four Corners LLC	Contact: Kelsey Christiansen	•
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: (505) 632-4606	
Facility Name: 30-5 #19 Dog Leg	Facility Type: Pipeline	
Surface Owner: BLM Mineral Owner		API No.
LOCATIO	ON OF RELEASE	
		West Line County
G 18 30N 5W		Rio Arriba
Latitude 36.81455°	N Longitude <u>-107.39635° W</u>	
	E OF RELEASE	
Type of Release: Natural Gas	Volume of Release: 109.1 MCF Natural Gas	Volume Recovered: 0 MCF Natural gas
Source of Release: Valve	Date and Hour of Occurrence: 01/06/15 at 08:54 AM MST	Date and Hour of Discovery: 01/06/15 at 08:54 AM MST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
☐ Yes ☒ No		
If a Watercourse was Impacted, Describe Fully.*		
Not Applicable		
Describe Cause of Problem and Remedial Action Taken.*	¥	
On January 6, 2015 an unknown party backed into the Williams 30-5 #1 109.1 MCF of natural gas was released. Williams personnel responded by		
Describe Area Affected and Cleanup Action Taken.*		
No clean-up required for natural gas release.		
I hereby certify that the information given above is true and complete to 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 t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective ac he NMOCD marked as "Final Report" ate contamination that pose a threat to g does not relieve the operator of respon	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other
exaporations side .	OIL CONSER'	VATION DIVISION
Lelany Chrodeen	Approved by Environmental Speciali	st: wie
Signature:		
Printed Name: Kelsey Christiansen		
Title: Environmental Specialist	Approval Date: 2/11/15	Expiration Date:
E-mail Address: kelsey.christiansen@williams.com	Conditions of Approval:	Attached
Date: 01/08/14 Phone: (505) 632-4606		

* Attach Additional Sheets If Necessary

#NCS 15 04234480



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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

Final Report

 \boxtimes

Submit 1 Copy to appropriate District Office in JAN 26 Zaccordance with 19.15.29 NMAC.

Release Notification and Corrective Action
OPERATOR
OPERATOR

Name of Co	ompany W	/illiams Fou	r Corners	LLC						
			eld, NM	87413		Telephone N	No. 505-632-47	08		
Surface Owner Bureau of Land Management Mineral Owner API No.										
Conform	D		(```				ADIN	
Surface Ow	ner Burea	iu oi Land iv	ranageme	nt Mineral C	Jwner				API No	
				LOC	ATIO	N OF REI	EASE		•	
Unit Letter	Section	Township	Range					East/V	West Line	County
1	1					south Eme	. cet mom the	Busu	, est Eme	
Facility Name Lateral R-6 Facility Name Lateral R-6										
				Latitude <u>3</u>	6.4824	14 Longitude	e <u>-107.52420</u>			
				NAT	TURE	OF RELI	EASE			
Type of Rele	ase Hydro	test Water and	d Produce					L	Volume F	Recovered 80 BBL
						_				
				_		06/03/2014	, 8:30 AM			
Was Immedia	ate Notice (_							
		\boxtimes	Yes _] No ∐ Not R	equired	l Brandon Po	owell (NMOCD),	Mark I	Kelly (BLM), NRC
			ental Spec	ialist		Date and H	lour 06/03/14, 12	2:30 PM	1	
Was a Water	course Read						lume Impacting t	he Wate	ercourse.	
		\bowtie	Yes L	l No		200 BBL				•
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	¢						
					sing th	e release of 200) bbls of water in	the Ice	Canvon wa	sh. During excavation of the
pipeline to co	omplete repa	airs, impacts v	were encou	intered that appea	ar to ha	ve been associa	ated with a histori	cal rele	ase. Ground	lwater was encountered in the
excavation at	a depth of	approximatel	y 6 feet be	low ground surfac	ce. Ana	alytical results i	ndicate the presen	nce of E	BTEX const	ituents and TPH in the soil and
groundwater.				ø						G
Describe Co.	CD1-1	1 D	1: 1 4 4:	70.1 4		•				
					a wata	two removed	for diamonal and t	ha nina	linaa man	poined Ammuovimentals 1 000
cubic yards o	f impacted	and the pipen	me was ex removed f	rom the area and	g water	was removed	ior disposal and t	ne pipe	iine was rep	paired. Approximately 1,000
cubic yards o	i impacted	son has been	reinovea i	ioni the area and	is curre	chiny being trai	isported offsite to	u uispos	sai.	
Impacted soil	and water	were removed	d from the	area for disposal.	Excav	ation activities	were completed	on June	14, 2014 ba	ased on field screening results.
								ndicates	s that the la	teral extent of impacts have
been delineat	ed. Additio	nal evaluatior	for the ex	tent of groundwa	iter imp	pacts is ongoing	3.			
L hereby certi	fy that the i	information gi	ven above	is true and comp	lete to	the best of my	knowledge and u	nderstar	nd that nurs	uant to NMOCD rules and
regulations a	Il operators	are required t	o report ar	id/or file certain r	elease	notifications ar	nd perform correc	tive act	ions for rele	eases which may endanger
				tance of a C-141	report	does not reliev	e the operator of t	respons	ibility for co	ompliance with any other
federal, state,	or local lav	ws and/or regu	ılations.							$A \sim A \sim$
		in .					OIL CON:	<u>SERV</u>	<u>'ATION</u>	DIVISION / /
									[]	
Signature:	Mull		-						///	
2.5	West 1970 - 1998					Approved by	Environmental S ₁	pecialis	t: / /	T VL
Printed Name	e: Mitch M	orris			İ		,			
	-	-					2/20/			
Title: Enviro	nmental Sp	pecialist				Approval Dat	e: 01/03/1	5	Expiration l	Date:
]	• •					0 111	· · · · · · ·			
E-mail Addre	ess: mitch.r	norris(<u>a)</u> willia	ms.com			Conditions of	Approval:			Attached
Date:	09/23/20	14	D	hone: 505-632-47	₇₀₈					
* Attach Addit				none. 505-052-47	00	11000	1000		- 1 -	
			J		=	ANW	150 %	150	o 10 1	(14)



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

Website: www.hallenvironmental.com

OrderNo.: 1406668

June 16, 2014

Anna Riling

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/14/2014 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

(%)

Analytical ReportLab Order **1406668**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: S-1@7.5'

Project:

Lateral R6 Ice Canyon

Collection Date: 6/13/2014 12:40:00 PM

Lab ID:

1406668-001

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 5:23:47 PM	13706
Surr: DNOP	84.9	57.9-140	%REC	1	6/15/2014 5:23:47 PM	13706
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	6.9	2.4	mg/Kg	1	6/15/2014 5:18:19 PM	R19268
Surr: BFB	205	80-120	S %REC	1	6/15/2014 5:18:19 PM	R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.024	mg/Kg	1	6/15/2014 10:37:05 A	/I R19268
Toluene	ND	0.024	mg/Kg	1	6/15/2014 10:37:05 AF	/I R19268
Ethylbenzene	ND	0.024	mg/Kg	1	6/15/2014 10:37:05 Af	/I R19268
Xylenes, Total	ND	0.049	mg/Kg	1	6/15/2014 10:37:05 Al	/I R19268
Surr: 4-Bromofluorobenzene	110	80-120	%REC	1	6/15/2014 10:37:05 Al	/I R19268

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 1406668

Date Reported: 6/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-2@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 1:22:00 PM

Lab ID: 1406668-002

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 5:47:04 PM	13706
Surr: DNOP	82.6	57.9-140	%REC	.1	6/15/2014 5:47:04 PM	13706
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: RAA
Gasoline Range Organics (GRO)	ND	2.5	mg/Kg	1	6/15/2014 11:34:27 Al	vi R19268
Surr: BFB	96.0	80-120	%REC	1	6/15/2014 11:34:27 Al	VI R19268
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	ND	0.025	mg/Kg	1	6/15/2014 11:34:27 Al	vi R19268
Toluene	ND	0.025	mg/Kg	1	6/15/2014 11:34:27 Al	vi R19268
Ethylbenzene	ND	0.025	mg/Kg	1	6/15/2014 11:34:27 Al	M R19268
Xylenes, Total	ND	0.050	mg/Kg	1	6/15/2014 11:34:27 Af	vi R19268
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	6/15/2014 11:34:27 Al	M R19268
,						

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

Analytical Report Lab Order 1406668

Date Reported: 6/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-4@7.5'

Project:

Lateral R6 Ice Canyon

Collection Date: 6/13/2014 2:52:00 PM

Lab ID:

1406668-003

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS	-			Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 6:09:31 PM	13706
Surr: DNOP	83.7	57.9-140	%REC	1,	6/15/2014 6:09:31 PM	13706
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	2.7	mg/Kg	1	6/15/2014 12:03:08 PN	N R19268
Surr: BFB	95.7	80-120	%REC	1	6/15/2014 12:03:08 PM	/ R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.027	mg/Kg	1	6/15/2014 12:03:08 PM	N R19268
Toluene	ND	0.027	mg/Kg	1	6/15/2014 12:03:08 PN	/ R19268
Ethylbenzene	ND	0.027	mg/Kg	1	6/15/2014 12:03:08 PN	/ R19268
Xylenes, Total	ND	0.054	mg/Kg	1	6/15/2014 12:03:08 PN	/ R19268
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/15/2014 12:03:08 PM	/I R19268

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 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

Page 3 of 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406668

16-Jun-14

Client:

Animas Environmental Services

Project: Lateral	R6 Ice Canyon	
Sample ID MB-13705	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13705	RunNo: 19265
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556847 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.4 10.00	83.9 57.9 140
Sample ID MB-13706	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13706	RunNo: 19265
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556848 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	N D 10	
Surr: DNOP	8.2 10.00	82.0 57.9 140
Sample ID LCS-13705	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13705	RunNo: 19265
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556849 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.9 5.000	77.6 57.9 140
Sample ID LCS-13706	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13706	RunNo: 19265
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556850 Units: mg/Kg
Analyte *	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD * RPDLimit Qual
Diesel Range Organics (DRO)	49 10 50.00	0 99.0 60.8 145
Surr: DNOP	3.7 5.000	74.1 57.9 140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

Page 4 of 6

- Sample pH greater than 2.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406668

16-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 5ML-RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R19268

RunNo: 19268

Analysis Date: 6/15/2014

1000

SeqNo: 556911

Units: mg/Kg

Prep Date: Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Gasoline Range Organics (GRO)

Surr: BFB

ND 5.0 930

Batch ID: R19268

PQL

5.0

92.6

80 120

%RPD

%RPD

Sample ID 2.5UG GRO LCS

LCSS

SampType: LCS

0

SPK value SPK Ref Val

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 19268

Client ID: Prep Date:

Analysis Date: 6/15/2014

SeqNo: 556912

Units: mg/Kg

Analyte

HighLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

Result 26

25.00 1000

104 99.7

%REC

71.7 80

LowLimit

134

RPDLimit

1000

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В 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.
- Reporting Detection Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406668

16-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 5ML-RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: R1	9268	F	RunNo: 1	9268				
Prep Date:	Analysis D	ate: 6/	15/2014	5	SeqNo: 5	56924	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0	•	1.000		100	80	120			

Sample ID 100NG BTEX LO	CS Samp1	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	n ID: R1	9268	F	RunNo: 1	9268				
Prep Date:	Analysis [)ate: 6/	15/2014	S	SeqNo: 5	56969	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	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	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 6 of 6



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 Environmental Work Order Number:	1406668		RcptNo:	1
Received by/date:				
Logged By: Ashley Gallegos 6/14/2014 10:00:00 AN	Л	A		
Completed By: Ashley Gallegos 6/14/2014 10:25:18 AM	Л	A=1		
Reviewed By:		night	N	
Chain of Custody		02/11/		
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved	
40.5	Га	T	bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 📙	for pH: (<2 o	>12 unless noted)
13. Are matrices correctly Identified on Chain of Custody?	Yes 🗹	No 🗀	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)			_	
16. Was client notified of all discrepancies with this order?	Yes 🗆	No 🗹	NA 🗆	1
Person Notified: Date:	v. v			
By Whom: Via:	eMail [Phone Fax	☐ In Person	
Regarding:			and the second second	
Client Instructions:	:	e talia tentra		
17. Additional remarks:				
18. Cooler Information	والمناهدية والمستد	l a	ı	
Cooler No Temp °C Condition Seal Intact Seal No 1 1.9 Good Yes	Seal Date	Signed By	`	
Land Land Land			•	

Client: Anin			Services	☐ Standard Project Nam	even	th Results Sunday	,			A	ALI NAI ww.h:	LYS	SI:	S L	AE	30					
Mailing Add	dress: 62	4 E Coma	anche	Lateral R6 lo	e Canvon			49	01 F	v lawkin							109				
Farmington	n, NM 874	101		Project #:			7)5-348			•	•	-345-						
Phone #:												Anal	ysis	Req	uest		37.10				300
Email or Fa	x#;			Project Mana	ager:												1				
QA/QC Pack X Standard	_		☐ Level 4 (Full Validation)	Anna Riling				8015B													
Accreditation	on:	□ Other			Emilee Skyl	es ·@ Nos +, **)- EPA												(S)	· ·
□ EDD (Ty	/pe)			Sample Ten	perature												Ì			≥	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO:	BTEX - 8021B	TPH (GRO/DRO)- EPA 8015B												Air Bubbles (Y or N)	All Describe
6/13/14	12:40	Soil	S-1@7.5'	1-MEOH kit/ 1- 4oz jar	MEOH/Cold	1406668-1	×														
6/13/14	13:22	Soil	S-2@7.5'	1-MEOH kit/ 1- 4oz jar	MEOH/Cold	- 2	Х	X													
6/13/14	14:52	Soil	S-4@7.5'	1-MEOH kit/ 1- 4oz jar	MEOH/Cold	-3	Х	Х													_
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Date:	Time:	Relinquishe	ed by:	Received by:	1	Date Time 6/14/14 10:	1	mark	s: Di	ect bil	to Wi	lliams	S		· I ;	<u> </u>			ــــــــــــــــــــــــــــــــــــــ		
Date:	Time:	Relinquishe	ed by:	Received by:	S	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

OrderNo.: 1406704

June 18, 2014

Anna Riling
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: Lateral R6 Ice Canyon

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2014 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

anded

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1406704

Date Reported: 6/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-7 @ 7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:40:00 AM

Lab ID: 1406704-001

Matrix: MEOH (SOIL)

Received Date: 6/16/2014 4:17:00 PM

Analyses	Result	RL Qı	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/17/2014 10:25:24 A	M 13738
Surr: DNOP	97.0	57.9-140	%REC	1	6/17/2014 10:25:24 A	M 13738
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	2.6	mg/Kg	1	6/17/2014 10:39:00 A	M R19313
Surr: BFB	89.6	80-120	%REC	1	6/17/2014 10:39:00 A	M R19313
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.026	mg/Kg	1	6/17/2014 10:39:00 A	M R19313
Toluene	ND	0.026	mg/Kg	1	6/17/2014 10:39:00 A	M R19313
Ethylbenzene	ND	0.026	mg/Kg	1	6/17/2014 10:39:00 A	M R19313
Xylenes, Total	ND	0.053	mg/Kg	1	6/17/2014 10:39:00 A	M R19313
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/17/2014 10:39:00 A	M R19313

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.

WO#:

1406704

18-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13738	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID: PBS	Batch	n ID: 13	738	F	RunNo: 1	9312				
Prep Date: 6/17/2014	Analysis D	ate: 6/	17/2014	5	SeqNo: 5	58311	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						-		
Surr: DNOP	8.6		10.00		86.1	57.9	140			
Sample ID LCS-13738	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	1D: 13	738	F	RunNo: 1	9312				
Prep Date: 6/17/2014	Analysis D	ate: 6/	17/2014	S	SeqNo: 5	58312	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	126	60.8	145			·
					87.9	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

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

Page 2 of 4

Sample pH greater than 2.

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406704

18-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13725 MK

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: R19313

RunNo: 19313

Analysis Date: 6/17/2014

80

80

SeqNo: 558986

Units: mg/Kg

Analyte

Surr: BFB

Prep Date:

Result

SPK value SPK Ref Val **PQL**

5.0

%REC LowLimit

HighLimit

Qual

Gasoline Range Organics (GRO)

ND 940

1000

25.00

1000

93.7

120

Sample ID LCS-13725 MK

SampType: LCS

RunNo: 19313

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Prep Date:

Client ID: LCSS Batch ID: R19313

SeqNo: 558987

Surr: BFB

Analysis Date: 6/17/2014

22

1000

Qual

RPDLimit

Analyte Gasoline Range Organics (GRO) Result **PQL** SPK value SPK Ref Val

5.0

%REC

89.5

103

Units: mg/Kg

120

LowLimit HighLimit 71.7 134

%RPD **RPDLimit**

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- 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 В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 4

- Sample pH greater than 2.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406704

18-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13725 MK	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	ı ID: R1	9313	F	RunNo: 1	9313				
Prep Date:	Analysis D	ate: 6/	17/2014	S	SeqNo: 5	59006	Units: mg/k	ίg		
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-13725 MK	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	•	
Client ID: LCSS	Batc	h ID: R1	9313	F	RunNo: 1	9313				
Prep Date:	Analysis [Date: 6 /	17/2014	S	SeqNo: 5	59007	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	93.2	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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

Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87105

Sample Log-In Check List

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

Client Na	ame:	Animas Envi	ronmental	Work Order Numb	er: 1406704			RcptNo:	1
Received	l by/dat	e: <u>AG</u>		06/16/14					
Logged B	By:	Michelle Ga	arcia	6/16/2014 4:17:00 F	PM	Milal	u Gan	ui	
Complete	ed By:	Michelle Ga	arcia	6/16/2014 4:30:26 F	· PM	Miini Miini	l Ga	ua)	:
Reviewed	d By:	10		06/16/14					
Chain o	f Cus	tody		7-7					
1. Custo	ody sea	is intact on sa	mple bottles?		Yes 🗆] No		Not Present	
2. Is Ch	ain of C	Custody compl	ete?		Yes 🗹	No No		Not Present	
3. How	was the	sample delive	ered?		Courier	•			
Log In									·
4. Was	an atte	empt made to o	cool the samp	es?	Yes 🗹	No		NA 🗆	
5. Were	all sar	mples received	l at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No		NA 🗆	
6. Sam	ple(s) i	n proper conta	iner(s)?		Yes ⊻	No			
7. Suffic	cient sa	mple volume f	for Indicated te	est(s)?	Yes 🗹	No			
8. Are s	amples	(except VOA	and ONG) pro	perly preserved?	Yes 🗹	No No			
9. Was	presen	vative added to	bottles?		Yes [] No	✓	NA 🗆	
10.VOA	vials h	ave zero heads	space?		Yes 🗆] No		No VOA Vials 🗹	
		ample containe	· .	roken?	Yes 🗆] No	V		
	-	•						# of preserved bottles checked	
		work match bo			Yes 🗹	No		for pH:	or >12 unless noted)
•		pancies on ch	•		Yes 🔽	No	\Box	Adjusted?	or > 12 unless noted)
		s correctly identiated analyses w			Yes 🗹	-		· -	
		ding times able			Yes 🗹			Checked by:	
		customer for a					Į		
				,					
Special	Hand	lling (if app	olicable)						
16. Was	client r	otified of all di	screpancies w	rith this order?	Yes] No	<u> </u>	NA 🗹	-
	Perso	n Notified:		Date	r:		- 4/34		
ŀ	By W	nom:		Via:	eMail	Phone	Fax	n Person	
÷	Regar	ding:	CONTRACTOR CONTRACTOR CONTRACTOR	the second of the second state of the second				: :	
	Client	Instructions:	and and age of the co	the contract of the contract o		Quarte des les Annesses esteures		- martines are not the state of	_]
17. Addi	tional r	emarks:							
18. <u>Coo</u>	ler Info	Mar 1041 (4)	Condition Good	Seal Intact Seal No Yes	Seal Date	Signed	Ву		

			stody Record	Tum-Around	ime.	6/17/14	Ι.	,		L	IA	1	F	MV	/T E	2 0	NA	ЛF	NT	- A	
: Client	Inima	< Env	ironmental Services	☐ Standard		6/17/14	-												\TC		
				Project Name	ə:	•			ें के क व					ironi				E 400		,	, =
Mailing	Address	1,2	E. Comanche	Latere	21 Rb.	lee Canyon		49	01 H	awki								109			
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QA/QC F □ Stan	ackage: dard		☐ Level 4 (Full Validation)	An	ina Rilii	ng	TMB's (8021)	(Gas only)	DRO)/ MF			SIMS)		PO ₄ ,SC	PCB's			/			
Accredi			<u></u>	Sampler:			MB's	PH ((법)			0.5		02,	082						
🗆 NEL		□ Othe	Γ	Onlice:	_D∕Yes∵	□ No-A	F	 - -		418.1)	4.	8270		3,N	8/8		æ				ا ا
□ EDD	(Type)	7,		Sample Tem	perature	1.6	BE	BE	GRO) d	5 b) or	tals	N,	ides	7	Ş				ح ح
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	RTEX MTBE	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
थेप प	0940	501	S-7 P7'		MeOH	-60)	1	×	-×												
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 17, 2014

Anna Riling

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Lateral R6 Ice Canyon

OrderNo.: 1406672

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/14/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 16, 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 a 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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-3@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 5:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 1:38:43 PM	13705
Surr: DNOP	88.1	57.9-140	%REC	1	6/15/2014 1:38:43 PM	13705
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	: RAA
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Surr: BFB	96.8	80-120	%REC	1	6/15/2014 12:31:51 PM	R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.032	mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Toluene	ND	0.032	mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Ethylbenzene	ND	0.032	mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Xylenes, Total	ND	0.065	mg/Kg	1	6/15/2014 12:31:51 PM	R19268
Surr; 4-Bromofluorobenzene	104	80-120	%REC	· 1	6/15/2014 12:31:51 PM	I R19268

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 32

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

Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-5@7'

Project: Late

Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:05:00 AM

Lab ID: 14066

1406672-002 **Matrix:** MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 2:00:57 PM	13705
Surr: DNOP	86.8	57.9-140	%REC	1	6/15/2014 2:00:57 PM	13705
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Surr: BFB	101	80-120	%REC	1	6/15/2014 1:00:27 PM	R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.047	mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Toluene	ND	0.047	mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Ethylbenzene	, ND	0.047	mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Xylenes, Total	ND	0.094	mg/Kg	1	6/15/2014 1:00:27 PM	R19268
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/15/2014 1:00:27 PM	R19268

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 32

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

Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-8@7'

Project: Lateral R6 Ice Canyon Collection Date: 6/14/2014 9:45:00 AM

1406672-004 Lab ID: Matrix: MEOH (SOIL) **Received Date: 6/14/2014**

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS		_		Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/15/2014 2:23:29 PM	13705
Surr: DNOP	87.7	57.9-140	%REC	1	6/15/2014 2:23:29 PM	13705
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Surr: BFB	94.1	80-120	%REC	1	6/15/2014 1:29:04 PM	R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.046	mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Toluene	ND	0.046	mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Ethylbenzene	ND	0.046	mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Xylenes, Total	ND	0.091	mg/Kg	1	6/15/2014 1:29:04 PM	R19268
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/15/2014 1:29:04 PM	R19268

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

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

Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-9@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 9:50:00 AM

Lab ID: 1406672-005

Matrix: MEOH (SOIL) Received

Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANC	SE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 2:45:53 PM	13705
Surr: DNOP	85.7	57.9-140	%REC	1	6/15/2014 2:45:53 PM	13705
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Surr: BFB	95.6	80-120	%REC	1	6/15/2014 1:57:38 PM	R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.049	mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Toluene	ND	0.049	mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Ethylbenzene	ND	0.049	mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Xylenes, Total	ND	0.098	mg/Kg	1	6/15/2014 1:57:38 PM	R19268
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	6/15/2014 1:57:38 PM	R19268

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-10@7'

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 10:20:00 AM

Lab ID: 1406672-006

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/15/2014 3:08:22 PM	13705
Surr: DNOP	86.5	57.9-140	%REC	1	6/15/2014 3:08:22 PM	13705
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/15/2014 10:20:13 AM	/ R19267
Surr: BFB	92.9	80-120	%REC	1	6/15/2014 10:20:13 AM	/I R1926
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.048	mg/Kg	1	6/15/2014 10:20:13 AM	/I R19267
Toluene	ND	0.048	mg/Kg	1	6/15/2014 10:20:13 AM	/ R1926
Ethylbenzene	ND	0.048	mg/Kg	1	6/15/2014 10:20:13 AM	/I R1926
Xylenes, Total	ND	0.096	mg/Kg	1	6/15/2014 10:20:13 AM	/I · R1926
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	6/15/2014 10:20:13 AM	/I R1926

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 1406672

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/17/2014

CLIENT: Animas Environmental Services

Client Sample ID: S-11

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 11:50:00 AM

Lab ID: 1406672-007

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS	•			Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/15/2014 3:30:50 PM	13705
Surr: DNOP	89.8	57.9-140	%REC	1	6/15/2014 3:30:50 PM	13705
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2014 10:50:28 AM	/I R19267
· Surr: BFB	86.2	80-120	%REC	1	6/15/2014 10:50:28 AM	/I R19267
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.049	mg/Kg	1	6/15/2014 10:50:28 AM	/I R19267
Toluene	ND	0.049	mg/Kg	1.	6/15/2014 10:50:28 AM	/I R19267
Ethylbenzene	ND	0.049	mg/Kg	1	6/15/2014 10:50:28 AM	/I R19267
Xylenes, Total	ND	0.098	mg/Kg	1	6/15/2014 10:50:28 AM	/I R19267
Surr: 4-Bromofluorobenzene	98.3	80-120	%REC	1	6/15/2014 10:50:28 AM	/I R19267

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: S-12

Project: Lateral R6 Ice Canyon Collection Date: 6/14/2014 11:55:00 AM

Lab ID: 1406672-008 **Matrix:** MEOH (SOIL) **Received Date:** 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/15/2014 12:28:54 PM	1 13705
Surr: DNOP	105	57.9-140	%REC	1	6/15/2014 12:28;54 PM	1 13705
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2014 11:20:47 AN	1 R19267
Surr: BFB	91.9	80-120	%REC	1	6/15/2014 11:20:47 AM	1 R19267
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.049	mg/Kg	1	6/15/2014 11:20:47 AM	1 R19267
Toluene	ND	0.049	mg/Kg	1	6/15/2014 11:20:47 AM	R19267
Ethylbenzene	. ND	0.049	mg/Kg	1	6/15/2014 11:20:47 AM	1 R19267
Xylenes, Total	ND	0.099	mg/Kg	1	6/15/2014 11:20:47 AN	I R19267
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	6/15/2014 11:20:47 AM	I R19267

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-13

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:00:00 PM

Lab ID: 1406672-009

Matrix: MEOH (SOIL) Received

Received Date: 6/14/2014

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	6/15/2014 12:59:57 PM	13705
Surr: DNOP	105	57.9-140	%REC	1	6/15/2014 12:59:57 PM	13705
EPA METHOD 8015D: GASOLINE RA	ANGE				· Analyst	:: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Surr: BFB	91.6	80-120	%REC	1	6/15/2014 11:51:00 AM	R19267
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.048	mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Toluene	ND	0.048	mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Ethylbenzene	ND	0.048	mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Xylenes, Total	ND	0.096	mg/Kg	1	6/15/2014 11:51:00 AM	R19267
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	6/15/2014 11:51:00 AM	R19267

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 **1406672**

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-14

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 11:50:00 AM

Lab ID: 1406672-010

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 1:31:49 PM	13705
Surr: DNOP	102	57.9-140	%REC	1	6/15/2014 1:31:49 PM	13705
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/15/2014 12:21:15 PM	/I R19267
Surr: BFB	91.5	80-120	%REC	1	6/15/2014 12:21:15 PM	/I R19267
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.046	mg/Kg	1	6/15/2014 12:21:15 PM	/I R19267
[*] Toluene	ND	0.046	mg/Kg	1.	6/15/2014 12:21:15 PM	/I R19267
Ethylbenzene	ND	0.046	mg/Kg	1	6/15/2014 12:21:15 PM	/I R19267
Xylenes, Total	ND	0.092	mg/Kg	1	6/15/2014 12:21:15 PM	/I R19267
Surr: 4-Bromofluorobenzene	. 105	80-120	%REC	1	6/15/2014 12:21:15 PM	И R19267

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-15

Project:

Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:10:00 PM

Lab ID: 1406672-011

Matrix: MEOH (SOIL) Received

Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/15/2014 2:02:46 PM	13705
Surr: DNOP	98.1	57.9-140	%REC	1	6/15/2014 2:02:46 PM	13705
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/15/2014 12:51:28 PM	/I R19267
Surr: BFB	90.4	80-120	%REC	1	6/15/2014 12:51:28 PM	/I R19267
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.047	mg/Kg	1	6/15/2014 12:51:28 PM	/I R19267
Toluene	ND	0.047	mg/Kg	1	6/15/2014 12:51:28 PM	/I R19267
Ethylbenzene	ND	0.047	mg/Kg	1	6/15/2014 12:51:28 PM	/I R19267
Xylenes, Total	ND	0.094	mg/Kg	1	6/15/2014 12:51:28 PM	/I R19267
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/15/2014 12:51:28 PM	/I R19267

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 10 of 32
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-16

Project: Late

Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:15:00 PM

Lab ID: 1406672-012

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/15/2014 2:33:48 PM	13705
Surr: DNOP	100	57.9-140	%REC	1	6/15/2014 2:33:48 PM	13705
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Surr: BFB	94.9	80-120	%REC	1	6/15/2014 1:21:41 PM	R19267
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.045	mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Toluene	ND	0.045	mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Ethylbenzene	ND	0.045	mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Xylenes, Total	ND	0.089	mg/Kg	1	6/15/2014 1:21:41 PM	R19267
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	6/15/2014 1:21:41 PM	R19267

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 **1406672**

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-17

Project:

Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:20:00 PM

Lab ID: 1406

1406672-013

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/15/2014 3:04:22 PM	13705
Surr: DNOP	95.7	57.9-140	%REC	1	6/15/2014 3:04:22 PM	13705
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Surr: BFB	94.7	80-120	%REC	1	6/15/2014 1:51:48 PM	R19267
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.040	mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Toluene	ND	0.040	mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Ethylbenzene	ND	0.040	mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Xylenes, Total	ND	0.081	mg/Kg	1	6/15/2014 1:51:48 PM	R19267
Surr: 4-Bromofluorobenzene	110	80-120	%REC	1	6/15/2014 1:51:48 PM	R19267

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-18

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:25:00 PM

Lab ID: 1406672-014

Matrix: MEOH (SOIL)

Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	16	9.9	mg/Kg	1	6/15/2014 3:35:16 PM	13705
Surr: DNOP	89.9	57.9-140	%REC	1	6/15/2014 3:35:16 PM	13705
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analys	: RAA
Benzene	· ND	0.034	mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Toluene	ND	0.034	mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Ethylbenzene	ND	0.034	mg/Kg	1	6/15/2014 10:28:22 AN	R19272
Xylenes, Total	ND	0.069	mg/Kg	1	6/15/2014 10:28:22 AM	R19272
Surr: 1,2-Dichloroethane-d4	95.8	70-130	%REC	1	6/15/2014 10:28:22 AM	R19272
Surr: 4-Bromofluorobenzene	95.0	70-130	%REC	1	6/15/2014 10:28:22 AM	I R19272
Surr: Dibromofluoromethane	116	70-130	%REC	. 1	6/15/2014 10:28:22 AM	l R19272
Surr: Toluene-d8	89.4	70-130	%REC	1	6/15/2014 10:28:22 AM	1 R19272
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	6/15/2014 10:28:22 AM	1 R19272
Surr: BFB	110	61.2-137	%REC	1	6/15/2014 10:28:22 AM	1 R19272

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Lateral R6 Ice Canyon

Client Sample ID: WS-1

Collection Date: 6/14/2014 1:05:00 PM

Lab ID: 1406672-015

Project:

Matrix: AQUEOUS Received Date: 6/14/2014

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE				Analyst	: BCN
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/15/2014 7:17:02 PM	13707
Surr: DNOP	109	62.7-145	%REC	1	6/15/2014 7:17:02 PM	13707
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	: RAA
Benzene	42	1.0	μg/L	1	6/15/2014 2:47:03 PM	R19272
Toluene	ND	1.0	μg/L	1	6/15/2014 2:47:03 PM	R19272
Ethylbenzene	26	1.0	μg/L	1	6/15/2014 2:47:03 PM	R19272
Xylenes, Total	210	2.0	μg/L	1	6/15/2014 2:47:03 PM	R19272
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%REC	1	6/15/2014 2:47:03 PM	R19272
Surr: 4-Bromofluorobenzene	88.4	70-130	%REC	1	6/15/2014 2:47:03 PM	R19272
Surr: Dibromofluoromethane	104	70-130	%REC	1	6/15/2014 2:47:03 PM	R19272
Surr: Toluene-d8	100	70-130	%REC	1	6/15/2014 2:47:03 PM	R19272
EPA METHOD 8015D: GASOLINE R	RANGE				Analyst	: RAA
Gasoline Range Organics (GRO)	1.9	0.050	mg/L	1	6/15/2014 2:47:03 PM	R19272
Surr: BFB	97.0	70-130	%REC	1	6/15/2014 2:47:03 PM	R19272

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 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: WS-2

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 1:10:00 PM

Lab ID: 1406672-016

Matrix: AQUEOUS Rece

Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE					Analyst	BCN
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/15/2014 7:39:34 PM	13707
Surr: DNOP	105	62.7-145	%REC	1	6/15/2014 7:39:34 PM	13707
EPA METHOD 8260: VOLATILES SHO	RT LIST				Analyst	RAA
Benzene	180	20	μg/L	20	6/15/2014 11:53:22 PM	R19272
Toluene	65	20	μg/L	20	6/15/2014 11:53:22 PM	R19272
Ethylbenzene	77	20	μg/L	20	6/15/2014 11:53:22 PM	R19272
Xylenes, Total	790	40	μg/L	20	6/15/2014 11:53:22 PM	R19272
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	20	6/15/2014 11:53:22 PM	R19272
Surr: 4-Bromofluorobenzene	97.5	70-130	%REC	20	6/15/2014 11:53:22 PM	R19272
Surr: Dibromofluoromethane	112	70-130	%REC	20	6/15/2014 11:53:22 PM	R19272
Surr: Toluene-d8	97.5	70-130	%REC	20	6/15/2014 11:53:22 PM	R19272
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: RAA
Gasoline Range Organics (GRO)	5.0	1.0	mg/L	20	6/15/2014 11:53:22 PM	R19272
Surr: BFB	96.2	70-130	%REC	20	6/15/2014 11:53:22 PN	R19272

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 15 of 32

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

Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-19

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:30:00 PM

Lab ID: 1406672-017

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	24	10	mg/Kg	1	6/15/2014 4:38:08 PM	13705
Surr: DNOP	84.4	57.9-140	%REC	1	6/15/2014 4:38:08 PM	13705
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analys	t: RAA
Benzene	ND	0.036	mg/Kg	1	6/15/2014 10:57:08 AM	/ R19272
Toluene	ND	0.036	mg/Kg	1	6/15/2014 10:57:08 AM	/I R19272
Ethylbenzene	0.038	0.036	mg/Kg	1	6/15/2014 10:57:08 AM	/I R19272
Xylenes, Total	0.38	0.072	mg/Kg	1	6/15/2014 10:57:08 AM	/I R19272
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%REC	1	6/15/2014 10:57:08 AM	/I R19272
Surr: 4-Bromofluorobenzene	85.6	70-130	%REC	1	6/15/2014 10:57:08 AM	/I R19272
Surr: Dibromofluoromethane	105	70-130	%REC	1	6/15/2014 10:57:08 AM	/I R19272
Surr: Toluene-d8	90.6	70-130	%REC	1	6/15/2014 10:57:08 AM	/I R19272
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	49	3.6	mg/Kg	1	6/15/2014 10:57:08 AM	/ R19272
Surr: BFB	104	61.2-137	%REC	1	6/15/2014 10:57:08 AM	/I R19272

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 16 of 32
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: S-20

Project: Lateral R6 Ice Canyon Collection Date: 6/14/2014 12:35:00 PM

Lab ID: 1406672-018 **Matrix:** MEOH (SOIL) **Received Date:** 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	IGE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/15/2014 5:09:44 PM	13705
Surr: DNOP	86.3	57.9-140	%REC	1	6/15/2014 5:09:44 PM	13705
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analys	t: RAA
Benzene	ND	0.049	mg/Kg	1	6/15/2014 11:25:52 AN	1 R19272
Toluene	ND	0.049	mg/Kg	1	6/15/2014 11:25:52 AN	R19272
Ethylbenzene	ND	0.049	mg/Kg	1	6/15/2014 11:25:52 AM	1 R19272
Xylenes, Total	ND	0.098	mg/Kg	1	6/15/2014 11:25:52 AM	/ R19272
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC	1	6/15/2014 11:25:52 AN	1 R19272
Surr: 4-Bromofluorobenzene	94.7	70-130	%REC	1	6/15/2014 11:25:52 AN	1 R19272
Surr: Dibromofluoromethane	112	70-130	%REC	1	6/15/2014 11:25:52 AN	1 R19272
Surr: Toluene-d8	93.0	70-130	%REC	1	6/15/2014 11:25:52 AN	1 R19272
EPA METHOD 8015D MOD: GASOI	LINE RANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2014 11:25:52 AN	/ R19272
Surr: BFB	108	61.2-137	%REC	1	6/15/2014 11:25:52 AN	/I R19272

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 1406672

Collection Date: 6/14/2014 12:40:00 PM

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-21 Lateral R6 Ice Canyon

Lab ID: 1406672-019

Project:

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS		-		Analys	t: BCN
Diesel Range Organics (DRO)	69	10	mg/Kg	1	6/15/2014 5:41:27 PM	13705
Surr: DNOP	64.4	57.9-140	%REC	1	6/15/2014 5:41:27 PM	13705
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analys	t: RAA
Benzene	ND	0.049	mg/Kg	1	6/15/2014 11:54:34 AN	1 R19272
Toluene	ND	0.049	mg/Kg	1	6/15/2014 11:54:34 AN	1 R19272
Ethylbenzene	1.6	0.049	mg/Kg	1	6/15/2014 11:54:34 AN	1 R19272
Xylenes, Total	16	2.0	mg/Kg	20	6/15/2014 4:42:17 PM	R19272
Surr: 1,2-Dichloroethane-d4	99.9	70-130	%REC	1	6/15/2014 11:54:34 AN	1 R19272
Surr: 4-Bromofluorobenzene	76.3	70-130	%REC	1	6/15/2014 11:54:34 AN	1 R19272
Surr: Dibromofluoromethane	106	70-130	%REC	1	6/15/2014 11:54:34 AM	1 R19272
Surr: Toluene-d8	90.8	70-130	%REC	1	6/15/2014 11:54:34 AN	1 R19272
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	450	98	mg/Kg	20	6/15/2014 4:42:17 PM	R19272
Surr: BFB	98.4	61.2-137	%REC	20	6/15/2014 4:42:17 PM	R19272

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
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit . Page 18 of 32
- Sample pH greater than 2. P
- Reporting Detection Limit RL

Analytical Report Lab Order 1406672

Date Reported: 6/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-22

Project: Lateral R6 Ice Canyon Collection Date: 6/14/2014 12:45:00 PM

Lab ID: 1406672-020 Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	IGE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 6:13:05 PM	13705
Surr: DNOP	. 82.9	57.9-140	%REC	1	6/15/2014 6:13:05 PM	13705
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	RAA
Benzene	· ND	0.048	mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Toluene	ND	0.048	mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Ethylbenzene	0.12	0.048	mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Xylenes, Total	0.69	0.096	mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Surr: 1,2-Dichloroethane-d4	97.1	70-130	%REC	1	6/15/2014 12:23:17 PM	R19272
Surr: 4-Bromofluorobenzene	86.2	70-130	%REC	1	6/15/2014 12:23:17 PM	R19272
Surr: Dibromofluoromethane	103	70-130	%REC	1	6/15/2014 12:23:17 PM	R19272
Surr: Toluene-d8	91.2	70-130	%REC	1	6/15/2014 12:23:17 PM	R19272
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: RAA
Gasoline Range Organics (GRO)	56	4.8	mg/Kg	1	6/15/2014 12:23:17 PM	R19272
Surr: BFB	109	61.2-137	%REC	1	6/15/2014 12:23:17 PM	R19272

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 19 of 32
- P Sample pH greater than 2.
- Reporting Detection Limit RL

Lab Order 1406672

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/17/2014

CLIENT: Animas Environmental Services

Client Sample ID: S-23

Project: Lateral R6 Ice Canyon

Collection Date: 6/14/2014 12:45:00 PM

Lab ID: 1406672-021

Matrix: MEOH (SOIL) Received Date: 6/14/2014

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	IGE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	110	10	mg/Kg	1	6/15/2014 6:44:19 PM	13705
Surr: DNOP	96.0	57.9-140	%REC	1	6/15/2014 6:44:19 PM	13705
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: RAA
Benzene	. 0.34	0.19	mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Toluene	ND	0.19	mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Ethylbenzene	0.98	0.19	mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Xylenes, Total	8.8	0.39	mg/Kg	5	6/15/2014 6:08:41.PM	R19272
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%REC	5	6/15/2014 6:08:41 PM	R19272
Surr: 4-Bromofluorobenzene	86.7	70-130	%REC	5	6/15/2014 6:08:41 PM	R19272
Surr: Dibromofluoromethane	105	70-130	%REC	5	6/15/2014 6:08:41 PM	R19272
Surr: Toluene-d8	99.3	70-130	%REC	5	6/15/2014 6:08:41 PM	R19272
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	:: RAA
Gasoline Range Organics (GRO)	250	19	mg/Kg	5	6/15/2014 6:08:41 PM	R19272
Surr: BFB	100	61.2-137	%REC	5	6/15/2014 6:08:41 PM	R19272

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 20 of 32

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

	eral R6 Ice Canyon			
Sample ID MB-13705	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics	
Client ID: PBS	Batch ID: 13705	RunNo: 19265		
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556847	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 10 . 8.4 10.00	83.9 57.9	140	
Sample ID MB-13706	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics	
Client ID: PBS	Batch ID: 13706	RunNo: 19265		
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556848	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Surr: DNOP	8.2 10.00	82.0 57.9	140	
Sample ID LCS-13705	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 13705	RunNo: 19265		
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556849	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	50 10 50.00	0 100 60.8	145	
Surr: DNOP	3.9 5.000	77.6 57.9	140	
Sample ID LCS-13706	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 13706	RunNo: 19265		
Prep Date: 6/15/2014	Analysis Date: 6/15/2014	SeqNo: 556850	Units: ,%REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Analyte Surr: DNOP	Result PQL SPK value 3.7 5.000	SPK Ref Val %REC LowLimit 74.1 57.9	HighLimit %RPD RPDLimit	Qual
Surr: DNOP	3.7 5.000	74.1 57.9		Qual
Surr: DNOP Sample ID 1406672-001	3.7 5.000	74.1 57.9	140	Qual
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7'	3.7 5.000 IAMS SampType: MS	74.1 57.9 TestCode: EPA Method	140	Qual
Analyte	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014	74.1 57.9 TestCode: EPA Method RunNo: 19266	8015D: Diesel Range Organics Units: mg/Kg	Qual
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7 Prep Date: 6/15/2014 Analyte Diesel Range Organics (DRO)	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value 45 10 49.75	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit 0 91.0 40.1	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit 152	
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014 Analyte	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit	
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014 Analyte Diesel Range Organics (DRO) Surr: DNOP	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value 45 10 49.75 4.0 4.975	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit 0 91.0 40.1 80.3 57.9	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit 152	
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1406672-001	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value 45 10 49.75 4.0 4.975	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit 0 91.0 40.1 80.3 57.9	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit 152 140	
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7'	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value 45 10 49.75 4.0 49.75 IAMSD SampType: MSD	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit 0 91.0 40.1 80.3 57.9 TestCode: EPA Method	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit 152 140	<u> </u>
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1406672-001	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value 45 10 49.75 4.0 4.975 IAMSD SampType: MSD Batch ID: 13705 Analysis Date: 6/15/2014	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit 0 91.0 40.1 80.3 57.9 TestCode: EPA Method RunNo: 19266	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit 152 140 8015D: Diesel Range Organics Units: mg/Kg	
Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1406672-001 Client ID: S-3@7' Prep Date: 6/15/2014	3.7 5.000 IAMS SampType: MS Batch ID: 13705 Analysis Date: 6/15/2014 Result PQL SPK value 45 10 49.75 4.0 4.975 IAMSD SampType: MSD Batch ID: 13705 Analysis Date: 6/15/2014	74.1 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557061 SPK Ref Val %REC LowLimit 0 91.0 40.1 80.3 57.9 TestCode: EPA Method RunNo: 19266 SeqNo: 557069	140 8015D: Diesel Range Organics Units: mg/Kg HighLimit %RPD RPDLimit 152 140 8015D: Diesel Range Organics Units: mg/Kg	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- 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
- ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2.

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client:

Animas Environmental Services

Project.

Lateral R6 Ice Canyon

Sample ID MB-13707	SampType: Mi	BLK	Tes	tCode: El	PA Method	8015D: Diese	l Range		
Client ID: PBW	Batch ID: 13			RunNo: 1					
Prep Date: 6/15/2014	Analysis Date: 6/			SeqNo: 5		Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 1.0 1.0	1.000		103	62.7	145			
Sample ID LCS-13707	SampType: LC	s	Tes	tCode: El	PA Method	8015D: Diese	l Range		
Client ID: LCSW	Batch ID: 13	707	F	RunNo: 1	9265				
Prep Date: 6/15/2014	Analysis Date: 6/	15/2014	5	SeqNo: 5	56994	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.9 1.0	5.000	0	137	78.6	146			
Surr: DNOP	0.50	0.5000		101	62.7	145			
Sample ID LCSD-13707	SampType: LC	SD	Tes	tCode: El	PA Method	8015D: Diese	I Range		
Client ID: LCSS02	Batch ID: 13	707	F	RunNo: 1	9265				
Prep Date: 6/15/2014	Analysis Date: 6/	15/2014	5	SeqNo: 5	56995	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.5 1.0	5.000	0	129	78.6	146	6.02	26.5	
Surr: DNOP	0.51	0.5000		102	62.7	145	0	0	

Qualifiers:

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

Reporting Detection Limit

Sample pH greater than 2. Р

RL

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canvon

Project: Lateral	R6 Ice Canyon						-		
Sample ID 5ML-RB	SampType: MBLK	(Test	Code: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch ID: R1926	67	R	tunNo: 19	9267				
Prep Date:	Analysis Date: 6/15/	2014	S	eqNo: 55	56898	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	N D 5.0								
Surr: BFB	980	1000		97.8	80	120			
Sample ID 2.5UG GRO LCS	SampType: LCS		Test	Code: EF	PA Method	8015D: Gaso	line Rang	е	-
Client ID: LCSS	Batch ID: R1926	67	R	tunNo: 19	9267				
Prep Date:	Analysis Date: 6/15/	2014	S	eqNo: 5	56899	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit (%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0	25.00	0	98.9	71.7	134			
Surr: BFB	.1000	1000		99.7	80	120			
Sample ID 1406672-006A M	S SampType: MS	-	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: S-10@7'	Batch ID: R1926	67	R	RunNo: 19	9267				
Prep Date:	Analysis Date: 6/15/	2014	S	SeqNo: 58	56901	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20 4.8	23.99	0	85.4	69.5	145			
Surr: BFB	890	959.7		92.4	80	120			
Sample ID 1406672-006A M	SD SampType: MSD		Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: S-10@7'	Batch ID: R1926	67	R	RunNo: 19	9267				ė.
Prep Date:	Analysis Date: 6/15/	2014	S	SeqNo; 5	56902	Units: mg/K	(g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 4.8	23.99	0	87.4	69.5	145	2.31	20	
Surr: BFB	980	959.7		102	80	120	0	0	
Sample ID 5ML-RB	SampType: MBL	<	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: R192	68	F	RunNo: 1	9268				
Prep Date:	Analysis Date: 6/15/	2014	S	SeqNo: 5	56911	Units: mg/K	(g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0 ·								
Surr: BFB	930	1000	(92.6	80	120			

Qualifiers:

Analyte

Client ID:

Prep Date:

Value exceeds Maximum Contaminant Level.

SampType: LCS

Batch ID: R19268

Analysis Date: 6/15/2014

Result

Value above quantitation range Е

Sample ID 2.5UG GRO LCS

LCSS

- 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

TestCode: EPA Method 8015D: Gasoline Range

Units: mg/Kg

HighLimit

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

RunNo: 19268

SeqNo: 556912

- P Sample pH greater than 2. Reporting Detection Limit

SPK value SPK Ref Val %REC LowLimit

Page 23 of 32

RPDLimit

Qual

%RPD

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Prep Date:

Lateral R6 Ice Canyon

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

LCSS

Batch ID: R19268

RunNo: 19268

%REC

Analysis Date: 6/15/2014

SeqNo: 556912

Units: mg/Kg

Analyte

26

PQL SPK value SPK Ref Val 5.0 25.00

104

LowLimit HighLimit 71.7

134

Qual

Gasoline Range Organics (GRO) Surr: BFB

1000

1000

99.7

80

120

%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
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit
- P Sample pH greater than 2.

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Project:	Lateral R	6 ice Cany	'On								
Sample ID	5ML-RB	SampT	уре: МЕ	BLK	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	ID: R1	9268	F	tunNo: 19	9268				
Prep Date:		Analysis D	ate: 6/	15/2014	S	eqNo: 5	56924	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-buty	/I ether (MTBE)	ND	0.10								
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	1.0		1.000		100	80	120			
Sample ID	5ML-RB	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	ID: R1	9267	F	RunNo: 1	9267			•	
Prep Date:		Analysis D	ate: 6/	15/2014	S	SeqNo: 5	56934	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050						***		
Toluene		ND	0.050							•	
Ethylbenzene		ND	0.050								
Xylenes, Total	•	ND	0.10								
Surr: 4-Bron	nofluorobenzene	1.1		1.000		113	80	120			,
Sample ID	1406672-006AMS	· SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	S-10@7'	Batch	1D: R1	9267	F	RunNo: 1	9267				
Prep Date:		Analysis D	ate: 6/	15/2014	8	SeqNo: 5	56936	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.048	0.9597	0	95.0	67.4	135			
Toluene		0.89	0.048	0.9597	0	93.1	72.6	135			
Ethylbenzene		0.90	0.048	0.9597	0	93.4	69.4	143			
Xylenes, Total		2.8	0.096	2.879	0.03052	96.6	70.8	144			
Surr: 4-Bron	nofluorobenzene	1.1		0.9597		117	80	120			
Sample ID	100NG BTEX LCS	SampT	ype: LC	:S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	1D: R1	9267	F	RunNo: 1	9267				
Prep Date:		Analysis D	ate: 6/	15/2014	8	SeqNo: 5	56950	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	104	80	120			
Toluene		1.0	0.050	1.000	0	103	80	120			
Ethylbenzene		1.0	0.050	1.000	0	102	80	120			
Xylenes, Total		3.2	0.10	3.000	0	105	80	120			
Surr: 4-Brom	nofluorobenzene	1.2		1.000		123	80	120			S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit Ο
- 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
- P

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Sample pH greater than 2. RLReporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 1406672-006AM	ISD SampT	ype: MS	SD	Tes	tiles .					
Client ID: S-10@7'	Batch	n ID: R1	9267	F	RunNo: 1	9267	•			
Prep Date:	Analysis D)ate: 6/	15/2014	8	SeqNo: 5	56952	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.048	0.9597	0	93.1	67.4	135	2.06	20	
Toluene	0.87	0.048	0.9597	0	91.0	72.6	135	2.34	20	
Ethylbenzene	0.88	0.048	0.9597	0	91.7	69.4	143	1.84	20	
Xylenes, Total	2.7	0.096	2.879	0.03052	93.9	70.8	144	2.86	20	
Surr: 4-Bromofluorobenzene	1.1		0.9597		116	80	120	0	0	

Sample ID 100NG BTEX LCS	SampT	ype: LC	S	Tes	tCode: El	tiles	<u> </u>			
Client ID: LCSS	Batch	1D: R1	9268	F	RunNo: 1	9268				
Prep Date:	Analysis D	ate: 6/	15/2014	5	SeqNo: 5	56969	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.10	1.000	0	110	80	120			
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	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

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Hall Environmental Analysis Laboratory, İnc.

WO#:

1406672

17-Jun-14

Client:

Animas Environmental Services

0.49

Project:

Lateral R6 Ice Canyon

Sample ID 5ml-rb	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: R1	9272	F	RunNo: 1	9272				
Prep Date:	Analysis [Date: 6/	15/2014	S	SeqNo: 5	57042	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: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		111	70	130			
Surr: Toluene-d8	0.49		0.5000		98.9	70	130			
Sample ID 100ng Ics	Samp	Гуре: ĹС	s	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batc	h ID: R1	9272	F	RunNo: 1	9272				
Prep Date:	Analysis [Date: 6 /	15/2014	S	SeqNo: 5	57043	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	105	70	130			
Toluene	1.1	0.050	1.000	0	105	60.1	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.0	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.8	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.5	70	130			

Sample ID 1406672-014AMS	SampT	ype: MS	;	Tes	PA Method 8260B: Volati̇̃les Short List					
Client ID: S-18	Batch	1 ID: R1	9272	F	RunNo: 1	9272				
Prep Date:	Analysis D	ate: 6/	15/2014	\$	SeqNo: 5	57211	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.034	0.6887	0	104	62.6	140			
Toluene	0.65	0.034	0.6887	0.003547	94.5	66.3	136			
Surr: 1,2-Dichloroethane-d4	0.34		0.3444		97.6	70	130			
Surr: 4-Bromofluorobenzene	0.33		0.3444		96.7	70	130			
Surr: Dibromofluoromethane	0.34		0.3444		98.4	70	130			
Surr: Toluene-d8	0.31		0.3444		90.5	70	130			

98.9

70

130

0.5000

Sample ID 1406672-014amsd	I SampT	уре: М \$	SD	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: S-18	Batch	ı ID: R1	9272	F	RunNo: 1	9272				
Prep Date:	Analysis D	ate: 6/	15/2014	8	SeqNo: 5	57212	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.034	0.6887	0	102	62.6	140	2.71	20	
Toluene	0.62	0.034	0.6887	0.003547	89.5	66.3	136	5.40	20	

Qualifiers:

Surr: Toluene-d8

- 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
- NO Not Detected at the Reporting En

Page 27 of 32

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 1406672-014ams	d SampT	ype: M	SD	Test	tCode: EF	PA Method	8260B: Vola	tiles Short	List	
Client ID: S-18	Batcl	ı ID: R1	19272	F	RunNo: 1	9272				
Prep Date:	Analysis D	ate: 6	/15/2014	S	SeqNo: 5	57212	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.34		0.3444		99.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.33		0.3444		95.2	70	130	0	0	
Surr: Dibromofluoromethane	0.35		0.3444		102	70	130	0	0	
Surr: Toluene-d8	0.31		0.3444		90.8	70	130	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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 5ml-rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatil	es Short I	_ist	
Client ID: PBW	Batch	n ID: R1	9272	F	RunNo: 1	9272				
Prep Date:	Analysis D	Analysis Date: 6/15/2014			SeqNo: 5	57051	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

Sample ID 1406672-016am	s Samp1	Гуре: М S	5	Tes	tCode: El	PA Method	8260: Volatile	es Short I	₋ist	
Client ID: WS-2	Batc	h ID: R1	9272	F	RunNo: 1	9272	a.			
Prep Date:	Analysis [Date: 6/	16/2014	5	SeqNo: 5	57168	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	590	20	400.0	175.0	103	70	130			
Toluene	490	20	400.0	64.75	107	67.5	123			
Surr: 1,2-Dichloroethane-d4	200		200.0		101	70	130			
Surr: 4-Bromofluorobenzene	190		200.0		96.9	70	130			
Surr: Dibromofluoromethane	190		200.0		95.9	70	130			
Surr: Toluene-d8	200		200.0		98.9	70	130			

Sample ID 1406672-016ams0	і бапірт	ype: wis	טפ	res	(Code: E	PA Wethod	8260: Volatile	es Snort L	_IST	
Client ID: WS-2	Batch	ID: R1	9272	F	RunNo: 1	9272				
Prep Date:	Analysis D	ate: 6/	16/2014	8	SeqNo: 5	57169	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	560	20	400.0	175.0	95.9	70	130	4.71	20	
Toluene	470	20	400.0	64.75	101	67.5	123	4.41	20	
Surr: 1,2-Dichloroethane-d4	200		200.0		98.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		100	70	130	0	0	
Surr: Dibromofluoromethane	200		200.0		98.8	70	130	0	0	
Surr: Toluene-d8	200		200.0		99.4	70	130	0	0	

Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260: Volatil	es Short L	₋ist	
Client ID: LCSW	Batch	ID: R1	9272	· F	RunNo: 1	9272				
Prep Date:	Analysis D	ate: 6/	15/2014	S	SeqNo: 5	57256	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	21	1.0	20.00	0	105	80	120			

Qualifiers:

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

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P Sample pH greater than 2. Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 100ng Ics	SampT	ype: LC	s	Test	Code: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batch	1 ID: R1	9272	R	tunNo: 1	9272				
Prep Date:	Analysis D	ate: 6/	15/2014	S	eqNo: 5	57256	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.5	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

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#:

1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 2.5ug gro Ics

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS

Batch ID: R19272

RunNo: 19272

Prep Date:

Analysis Date: 6/15/2014

SeqNo: 557016

Units: mg/Kg

120

%RPD

%RPD

Analyte

Result 26 SPK value SPK Ref Val 25.00

%REC LowLimit 0 103

HighLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

5.0 500.0

96.9

137

80

61.2

LowLimit

58

Sample ID 1406672-014ams S-18

SampType: MS

TestCode: EPA Method 8015D Mod: Gasoline Range

Batch ID: R19272

3.4

RunNo: 19272

134

Client ID: Prep Date:

Analysis Date: 6/15/2014

SeqNo: 557117

Units: mg/Kg

Analyte

Result PQL

16

350

480

SPK value SPK Ref Val

17.22

344.4

17.22

344.4

%REC

94.7

103

HighLimit

RPDLimit

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

TestCode: EPA Method 8015D Mod: Gasoline Range

0

61.2 137

Client ID:

Sample ID 1406672-014amsd S-18

SampType: MSD

RunNo: 19272

Prep Date:

Batch ID: R19272 Analysis Date: 6/15/2014

SeqNo: 557118

Units: mg/Kg

Analyte

Result Gasoline Range Organics (GRO) 16 Surr: BFB 370

PQL

SPK value SPK Ref Val %REC

LowLimit 58

61.2

HighLimit 134

137

%RPD **RPDLimit** Qual

1.45 20 0 0

93.4

108

Qualifiers:

O

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDIimit R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В 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.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1406672

17-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 5ml-rb	Samp ⁻	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е				
Client ID: PBW	Batc	h ID: R1	9272	F	lunNo: 1	9272							
Prep Date:	Analysis [Date: 6/	15/2014	S	SeqNo: 5	57038	Units: mg/L	•					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	ND	0.050	•										
Surr: BFB	9.5		10.00		95.0	70	130						
Sample ID 2.5ug gro lcs	Samn	SampType: LCS TestCode: FPA Method 8015D: Gasoline Range											

Client ID: LCSW	Batc	n iu: K 1	9272	۲	kunno: 1	9272				
Prep Date:	Analysis I	Date: 6/	15/2014	8	SeqNo: 5	57041	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	103	80	120			
Surr: BFB	9.7		10.00		96.9	70	130			

Sample ID 1406672-016a n	n s Samp ⁻	Type: M	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	je	
Client ID: WS-2	Batc	h ID: R1	19272	F	RunNo: 1	9272				
Prep Date:	Analysis [Date: 6	/16/2014	\$	SeqNo: 5	57106	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	1.0	10.00	4.956	97.0	70	130			
Surr: BFB	190		200.0		97.0	70	130		,	

Sample ID 1406672-016a m	sd Samp1	Гуре: М S	SD	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	je	
Client ID: WS-2	Batc	h ID; R1	19272	F	Run N o: 1	9272	6			
Prep Date:	Analysis [Date: 6/	/16/2014	8	SeqNo: 5	57107	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	1.0	10.00	4.956	102	70	130	3.01	20	
Surr BER	190		200.0		97.2	70	130	٥	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- 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
- Н Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit
- P Sample pH greater than 2. Reporting Detection Limit

RL

Page 32 of 32



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

Sample Log-In Check List

EL: 303-343-3973 FAX: 303-343-4107 Website: www.hallenvironmental.com

Client Name: Animas Environmental Work Order Number	r. 1406672		RcptNo:	1
Received by/date:				
Logged By: Andy Freeman 6/14/2014		andyl		
Completed By:				
Reviewed By:				
Chain of Custody	<u> </u>			
1. Custody seals intact on sample bottles?	Yes 🗹	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?	Courier			•
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗀		
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials 🗹	
11, Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH:	>12 unless noted)
13. Are matrices correctly Identified on Chain of Custody?	Yes 🗹	No □	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗹	No 🗌	na 🗆	
Person Notified: Date By Whom: Via:	eMail F	Phone Fax	☐ In Person	
Regarding: sample S-7@7' was not included in the o	cooler.			
Client Instructions: Emailed Debble on 6/14 and she Indicate	ed that they will s	send this sample	at a later date.	
17. Additional remarks:				
18. <u>Cooler Information</u>				

Client Ani	mas En	vironme	ental Services	□ Standan	even	n F ults Sunday ing June 15		7 H20								NM OF				7
				Project Nam	e:		, A. E.	*	2.3	w	ww.h:	allenv	rironr	nent	al.co	m				
Mailing Add	iress: 62	4 E Cor	manche	Lateral R6	lce_Canyo	on		490	01 Ha	wkin							09			
Farmingt	on, NM	87401		Project #:				Тє		5-345						4107				
Phone #:	505-56	4-2281		·								Analy	ısis.	Requ	uest	1				
Email or Fa	ax#:			Project Man	ager.			5B										\top	T	
QA/QC Pac	kage:			Anna Rilin	g			8015B		- }					- 1	}	- }			
X Standar	d		☐ Level 4 (Full Validation)		\$ 			EPA 8					} }	. }		}				
Accreditation	on:				Stephanie	Lynn								l		Ì		-		
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□ EDD (T	/pe)			Sample Ten	iperature:	4.9	8021B			}		İ								ح
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	1	н (ско/бко)-												Air Bubbles (Y or N)
						140101012	втех	НДТ				1					\perp		\perp	<u>₹</u>
6/13/14	17:00	Soil	S-3@7'	1-MEOH kit/ 2- 4oz jar	MEOH/Cold	-01	Х	х			T									
6/14/14	9:05	Soil	S-5@7'	1- 4oz jar	cold	-002	Х	х										I		
6/14/14	9:40	Soil	S-7@7' ^77 7/C	1-40z jar	cold		X	×	+			-					+	-	+	+-1
6/14/14	9:45	Soil	S-8@7'	1- 4oz jar	cold	-104	Х	X	\neg						\dashv	1	1	1	1	11
6/14/14	9:50	Soil	S-9@7'	1- 4oz jar	cold	-005	Х	Х										\perp	\perp	
6/14/14	10:20	Soil	S-10@7'	1- 4oz jar	cold	-2010	Х	X									\perp	\perp	\perp	
6/14/14	11:50	Soil	S-11	1- 4oz jar	cold	-w7	Х	X									L		\perp	$oldsymbol{ol}}}}}}}}}}}}}}}}}}}$
6/14/14	11:55	Soil	S-12	1- 4oz jar	cold	- 08	Х	X										\perp		
6/14/14	12:00	Soil	S-13	1- 4oz jar	cold	-209	Х	X												
Date:	Time:	Relinquishe	ed by:	Received by:	1 1	Date Time	Re	mar	ks: [Direc	t bill	to V	/illia	ms			-			
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Date:	Time:	Relinquishe		Received by:	/	Date Time		5	_7	e	7'	প্ৰ	Con	mp	ر					Ì
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Phone #:	505-56	4-2281				· · · · · · · · · · · · · · · · · · ·		Pas A				Ana	İlysi	s Re	ques		7			
Email or Fa	эх#:	<u>·</u>		Project Man	ager:	I		8										1		
QA/QC Pack	kage:			Anna Rilin	ıg	I		8015B	1											.
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Accreditation		- 20			Stephanie							Ì								9
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Date	Time	Matrix	Sample Peguest ID	Container Type and #	Preservative Type	HEAL'No.	BTEX - 8021B	трн (GRO/DRO)-												Air Bubbles (Y or N)
6/14/14	11:50	Soil	S-14	1-4oz jar	cold	-010	X	x												
6/14/14	12:10	Soil	S-15	1- 4oz jar	cold	-011	X	x												
6/14/14	12:15	Soil	S-16	1- 4oz jar	cold	-012	x	х												
6/14/14	12:20	Soil	S-17	1-4oz jar	cold	-013	х	Х						I						
6/14/14	12:25	Soil	S-18	1- 4oz jar	cold	-014	Х	Х	_							11	_	_		
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Client: Ani	mas Er	ivironme	ental Services	☐ Standar Project Nan	even	h Results Sunday ing June 15			2017	A	NA	LY	NV SIS	5 L	AE	30				,
Mailing Ad	dress: 62	24 E Co	manche	Lateral Re	ice Canyo	on		49	01 H				Mbuqu				7109			
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□ EDD (T	ype)			Sample Ter	mperature:	49	9	'OR										1		اع
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	49	BTEX - 802	TPH (GRO/DRO)-												Air Bubbles (Y or N)
6/14/14	13:05	Water	WS-1	6-40 mL VOA	5-HCl/1-non		١.,	×												
6/14/14	13:10	Water	WS-2	6-40 mL VOA	5-HCI/1-non	- 44	١	х												
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Date: Date:	Time:	Relinquishe Relinquishe	plume Slyn	Received by:	left	Date Time Date Dat		mar ge 1			ct bi	li to '	Willia	ams _.						
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Mailing Add	dress: 62	4 E Cor	nanche	Lateral F	R6 Ice Ca	ınyon		49	01 Ha							 1871	09			
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - 8021B	TPH (GRO/DRO)-	٠											Air Bubbles (Y or N)
6/14/14	12:30	Soil	S-19	1-4oz jar	cold	-019	X	Х								\perp		\perp		
6/14/14	12:35	Soil	S-20	1-4оz јаг	cold	-18		х												
6/14/14	12:40	Soil	S-21	1-4oz jar	- cold	-019		X												
6/14/14	12:45	Soil	S-22	1- 4oz jar	cold	-020		x												
6/14/14	12:50	Soil	S-23	1- 4oz jar	cold	-021	X	Х										\bot		
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

OrderNo.: 1407306

July 10, 2014

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071

RE: Williams Field Services Lateral R6

Dear Debbie Watson:

FAX (505) 324-2022

Hall Environmental Analysis Laboratory received 2 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1407306

Date Reported: 7/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: WS-1A

Project:

Williams Field Services Lateral R6

Collection Date: 7/3/2014 9:30:00 AM

Lab ID:

1407306-001

Matrix: AQUEOUS

Received Date: 7/8/2014 7:55:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE		·	_	Analys	t: BCN
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	7/8/2014 12:37:40 PM	14102
Surr: DNOP	101	62.7-145	%REC	1	7/8/2014 12:37:40 PM	14102
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	0.051	0.050	mg/L	1	7/8/2014 2:46:03 PM	R19740
Surr: BFB	98.5	· 70.9-130	%REC	1	7/8/2014 2:46:03 PM	R19740
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	1.5	1.0	μg/L	1	7/8/2014 2:46:03 PM	R19740
Toluene	ND	1.0	μg/L	1	7/8/2014 2:46:03 PM	R19740
Ethylbenzene	ND	1.0	µg/L	1	7/8/2014 2:46:03 PM	R19740
Xylenes, Total	ND	2.0	μg/L	1	7/8/2014 2:46:03 PM	R19740
Surr: 4-Bromofluorobenzene	108	82.9-139	%REC	1	7/8/2014 2:46:03 PM	R19740

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 5

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

Lab Order 1407306

Date Reported: 7/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: WS-2A

Project:

Williams Field Services Lateral R6

Collection Date: 7/3/2014 9:43:00 AM

Lab ID:

1407306-002

Matrix: AQUEOUS

Received Date: 7/8/2014 7:55:00 AM

Analyses	Result	Result RL Qual Units			Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANC	BE				Analys	t: BCN
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	7/8/2014 1:09:21 PM	14102
Surr: DNOP	101	62.7-145	%REC	1	7/8/2014 1:09:21 PM	14102
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	0.065	0.050	mg/L	1	·7/8/2014 4:16:53 PM	R19740
Surr: BFB	102	70.9-130	%REC	1	7/8/2014 4:16:53 PM	R19740
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	1.5	1.0	μg/L	1	7/8/2014 4:16:53 PM	R19740
Toluene	1.1	1.0	μg/ L	1	7/8/2014 4:16:53 PM	R19740
Ethylbenzene	ND	1.0	μg/L	1	7/8/2014 4:16:53 PM	R19740
Xylenes, Total	ND	2.0	μg/L	1	7/8/2014 4:16:53 PM	R19740
Surr: 4-Bromofluorobenzene	115	82.9-139	%REC	1	7/8/2014 4:16:53 PM	R19740

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 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407306

10-Jul-14

Client:

Animas Environmental Services

Project:

Williams Field Services Lateral R6

Sample ID MB-14102 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Client ID: **PBW** Batch ID: 14102 RunNo: 19730 Prep Date: 7/8/2014 Analysis Date: 7/8/2014 SeqNo: 573299 Units: mg/L Analyte Result SPK value SPK Ref Val %REC **PQL** LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 1.0 Surr: DNOP 1.1 1.000 106 62.7 145

Sample ID LCS-14102 TestCode: EPA Method 8015D: Diesel Range SampType: LCS Client ID: **LCSW** Batch ID: 14102 RunNo: 19730 Prep Date: 7/8/2014 Analysis Date: 7/8/2014 SeqNo: 573300 Units: mg/L Result **PQL** SPK value %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 6.0 5.000 78.6 1.0 120 146 Surr: DNOP 0.45 0.5000 89.9 62.7 145

Sample ID LCSD-14102 SampType: LCSD TestCode: EPA Method 8015D: Diesel Range Client ID: LCSS02 Batch ID: 14102 RunNo: 19730 Prep Date: 7/8/2014 Analysis Date: 7/8/2014 SeqNo: 573301 Units: mg/L %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit **RPDLimit** Qual HighLimit Diesel Range Organics (DRO) 5.5 1.0 5.000 0 110 78.6 146 8.76 26.5 Surr: DNOP 0.42 0.5000 62.7 0 83.9 145 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407306

10-Jul-14

Client: Project: Animas Environmental Services Williams Field Services Lateral R6

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW

Batch ID: R19740 RunNo: 19740

Units: mg/L

Prep Date:

Analysis Date: 7/8/2014

SeqNo: 573773

HighLimit

Analyte

Result

SPK value SPK Ref Val %REC LowLimit **PQL** 0.050

130

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 18

0.50

0.59

22

22

20.00

0.5000

20.00

0.5000

20.00

90.6

70.9

LowLimit

80

70.9

RPDLimit

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

%RPD

Client ID: LCSW

Batch ID: R19740

RunNo: 19740

Prep Date:

SeqNo: 573774

Units: mg/L

Analyte Gasoline Range Organics (GRO)

Analysis Date: 7/8/2014 Result PQL

SPK value SPK Ref Val

%REC

99.7

110

HighLimit

RPDLimit

Qual

Surr: BFB

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Sample ID 1407306-001AMS WS-1A

SampType: MS

RunNo: 19740

121

130

120

130

Prep Date:

Sample ID 1407306-001AMSD

Batch ID: R19740

0.050

SeqNo: 573782

108

Units: mg/L

Analyte

Analysis Date: 7/8/2014 Result **PQL** SPK value SPK Ref Val

%REC

LowLimit 79

HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

SampType: MSD

PQL

0.050

0.050

TestCode: EPA Method 8015D: Gasoline Range

Client ID: WS-1A

Batch ID: R19740

RunNo: 19740

0.05140

70.9

Prep Date:

Analysis Date: 7/8/2014

SeqNo: 573783

Units: mg/L

HighLimit

0

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

0.56 21

Result

0.5000 20.00

SPK value SPK Ref Val 0.05140 102

%REC

105

LowLimit 79 70.9

121 130 5.34 0

%RPD

RPDLimit 20

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Ē Value above quantitation range

Analyte detected below quantitation limits J

RSD is greater than RSDlimit

R RPD outside accepted recovery limits В Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2.

Reporting Detection Limit RL

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1407306

10-Jul-14

Client: Animas Environmental Services
Project: Williams Field Services Lateral R6

Sample ID 5ML RB	TestCode: EPA Method 8021B: Volatiles										
Client ID: PBW	Batch	Batch ID: R19740				9740					
Prep Date:	Analysis D	ate: 7/	8/2014	SeqNo: 573788							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 4-Bromofluorobenzene	21		20.00		103	82.9	139				

Sample ID 100NG BTEX Lo	CS Samp1	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batcl	h ID: R1	9740	F	RunNo: 1	9740				
Prep Date:	Analysis E	Date: 7 /	/8/2014	SeqNo: 573789			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.9	80	120			
Toluene	20	1.0	20.00	0	98.0	80	120			
Ethylbenzene	20	1.0	20.00	0	97.5	80	, 120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		118	82.9	139			

Sample ID 1407306-002AM	S Sampī	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID: WS-2A	Batcl	Batch ID: R19740 Analysis Date: 7/8/2014			RunNo: 1	9740				
Prep Date:	Analysis D				SeqNo: 5	73793	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	1.530	97.6	71	129		-	
Toluene	20	1.0	20.00	1.112	96.5	68.4	135			
Ethylbenzene	20	1.0	20.00	0.5480	95.3	69.4	135			
Xylenes, Total	62	2.0	60.00	1.772	101	72.4	135			
Surr: 4-Bromofluorobenzene	25		20.00		124	82.9	139			

1407306-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles											
Batch	1D: R1	9740	F	RunNo: 1	9740						
Analysis D	ate: 7/	8/2014	SeqNo: 573794		Units: µg/L						
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
21	1.0	20.00	1.530	98.5	71	129	0.823	20			
21	1.0	20.00	1.112	97.3	68.4	135	0.742	20			
20	1.0	20.00	0.5480	96.7	69.4	135	1.43	20			
63	2.0	60.00	1.772	1.772 102 72.4		135 0.51		20			
24		20.00		122	82.9	139	0	0			
	Batch Analysis D Result 21 21 20 63	Batch ID: R1 Analysis Date: 7/ Result PQL 21 1.0 21 1.0 20 1.0 63 2.0	Batch ID: R19740 Analysis Date: 7/8/2014 Result PQL SPK value 21 1.0 20.00 21 1.0 20.00 20 1.0 20.00 20 1.0 20.00 63 2.0 60.00	Batch ID: R19740 Analysis Date: 7/8/2014 Result PQL SPK value SPK Ref Val 21 1.0 20.00 1.530 21 1.0 20.00 1.112 20 1.0 20.00 0.5480 63 2.0 60.00 1.772	Batch ID: R19740 RunNo: 11 Analysis Date: 7/8/2014 SeqNo: 5 Result PQL SPK value SPK Ref Val %REC 21 1.0 20.00 1.530 98.5 21 1.0 20.00 1.112 97.3 20 1.0 20.00 0.5480 96.7 63 2.0 60.00 1.772 102	Batch ID: R19740 RunNo: 19740 Analysis Date: 7/8/2014 SeqNo: 573794 Result PQL SPK value SPK Ref Val %REC LowLimit 21 1.0 20.00 1.530 98.5 71 21 1.0 20.00 1.112 97.3 68.4 20 1.0 20.00 0.5480 96.7 69.4 63 2.0 60.00 1.772 102 72.4	Batch ID: R19740 RunNo: 19740 Analysis Date: 7/8/2014 SeqNo: 573794 Units: μg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 21 1.0 20.00 1.530 98.5 71 129 21 1.0 20.00 1.112 97.3 68.4 135 20 1.0 20.00 0.5480 96.7 69.4 135 63 2.0 60.00 1.772 102 72.4 135	Batch ID: R19740 RunNo: 19740 Analysis Date: 7/8/2014 SeqNo: 573794 Units: μg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 21 1.0 20.00 1.530 98.5 71 129 0.823 21 1.0 20.00 1.112 97.3 68.4 135 0.742 20 1.0 20.00 0.5480 96.7 69.4 135 1.43 63 2.0 60.00 1.772 102 72.4 135 0.511	Batch ID: R19740 RunNo: 19740 Analysis Date: 7/8/2014 SeqNo: 573794 Units: μg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 21 1.0 20.00 1.530 98.5 71 129 0.823 20 21 1.0 20.00 1.112 97.3 68.4 135 0.742 20 20 1.0 20.00 0.5480 96.7 69.4 135 1.43 20 63 2.0 60.00 1.772 102 72.4 135 0.511 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

Page 5 of 5



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

RcptNo: 1 **Animas Environmental** Work Order Number: 1407306 Client Name: Received by/date: an Il-7/8/2014 7:55:00 AM Logged By: **Anne Thorne** Completed By: 7/8/2014 Anne Thorne Reviewed By: Chain of Custody No 🗆 Not Present 1 Custody seals intact on sample bottles? Not Present No 🔲 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes 🗹 No 🗌 NA 🗌 4. Was an attempt made to cool the samples? NA 🗍 Yes 🔽 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗹 6. Sample(s) in proper container(s)? Yes 🔽 7. Sufficient sample volume for indicated test(s)? Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? NA \square Yes 🗌 No 🗸 9. Was preservative added to bottles? No VOA Vials Yes 🗸 No 🗌 10.VOA vials have zero headspace? No 🔽 Yes 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: Yes 🔽 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🔽 14. Is it clear what analyses were requested? No 🗌 Yes 🔽 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗆 NA 🔽 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: eMail Phone Fax In Person Via: Regarding: **Client Instructions:** 17. Additional remarks: 18. Cooler Information Cooler No Temp ºC Condition | Seal Intact | Seal No | Seal Date Good 2.9

Chain-of-Custody Record				Turn-Around Time:						HALL ENVIRONMENTA.												
Client:	Anim	asEn	wiron mental	X Standard □ Rush					ANALYSIS LABORATORY													
4	ocvic	وح ا	le	Project Name: Williams Iteld Services				www.hallenvironmental.com														
Services LLC Mailing Address: 624 E Comanche				hateral	RLO	_		4901 Hawkins NE - Albuquerque, NM 87109														
Farm	inato	MUM	87 4 61	Project #:				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request														
Farmington, NM 87461 Phone #: (505) 564 - 2281					₹·	t			9. S.W. S. 446		A		Α	naly	/sis	Req	ues					
email o				Project Mana	iger:			7	(yluk	RO)					(70	S						
QA/QC I	Package: dard		☐ Level 4 (Full Validation)	A. Rilin	ger 5 or 0.	watso	<u> </u>	368	(Gas c	S) M			SIMS)		,PO₄,S	2 PCB						
Accredi □ NEL		☐ Othe	r	Sampler: L On Ice	auralo	we/F	Coss Kennemer	#	+ TPH	S S	18.1)	04.1)	8270		3,NO ₂	, / 808		æ				(N Z
□ EDD	(Type)			Sample Tem	perature:		Total Control of the		BE.	(a)	bd 4	<u>d</u> 5	0 or	stals	Ν̈́	ides	A	9				ک
Date	Time	Matrix	Sample Request ID	Type and #	Preservative Type	HE 1400	Ale November	BTEX ************************************	BTEX + MT	TPH 8015B (GRO) DRO) MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
-3-14	0930	H20	WS-IA	540 ML	5-4-C1		-001	X		X												
	र्ज43	H20	WS-2A	7-40ml	5-HCe 1d		-002	X		X										\Box		
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

OrderNo.: 1406152

June 06, 2014

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

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

RE: Lateral R6 Ice Canyon

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/4/2014 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1406152

Date Reported: 6/6/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: W-1

Project: Lateral R6 Ice Canyon

Collection Date: 6/3/2014 1:47:00 PM

Lab ID: 1406152-001

Matrix: AQUEOUS

Received Date: 6/4/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE				•	Analys	t: BCN
Diesel Range Organics (DRO)	3.7	1.0	mg/L	1	6/4/2014 2:47:06 PM	13511
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	6/4/2014 2:47:06 PM	13511
Surr: DNOP	101	62.7-145	%REC	1	6/4/2014 2:47:06 PM	13511
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	7.8	1.0	mg/L	20	6/4/2014 1:37:53 PM	R19041
Surr: BFB	103	70.9-130	%REC	20	6/4/2014 1:37:53 PM	R19041
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	170	20	μg/L	20	6/4/2014 1:37:53 PM	R19041
Toluene	1300	20	μg/L	20	6/4/2014 1:37:53 PM	R19041
Ethylbenzene	92	20	µg/L	20	6/4/2014 1:37:53 PM	R19041
Xylenes, Total	1300	40	μg/L	20	6/4/2014 1:37:53 PM	R19041
Surr: 4-Bromofluorobenzene	111	82.9-139	%REC	20	6/4/2014 1:37:53 PM	R19041
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	27	5.0	mg/L	10	6/4/2014 11:08:48 AM	R19059

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 1406152

Date Reported: 6/6/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

vices Client Sample ID: S-1

Project: Lateral R6 Ice Canyon

Collection Date: 6/3/2014 2:28:00 PM

Lab ID: 1406152-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/4/2014 10:00:00 AM

Analyses	Result	RL (Qual Uni	its	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	27	9.8	mg	ı/Kg	1	6/4/2014 2:24:18 PM	13510
Motor Oil Range Organics (MRO)	ND	49	mg	ı/Kg	1	6/4/2014 2:24:18 PM	13510
Surr: DNOP	91.0	57.9-140	%F	REC	1	6/4/2014 2:24:18 PM	13510
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	130	14	mg	ı/Kg	5	6/4/2014 12:31:33 PM	R19040
Surr: BFB	181	80-120	S %F	REC	5	6/4/2014 12:31:33 PM	R19040
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.087	0.070	mg	ı/Kg	5	6/4/2014 12:31:33 PM	R19040
Toluene	ND	0.14	mg	ı/Kg	5	6/4/2014 12:31:33 PM	R19040
Ethylbenzene	0.79	0.14	mg	ı/Kg	5	6/4/2014 12:31:33 PM	R19040
Xylenes, Total	6.2	0.28	mg	ı/Kg	· 5	6/4/2014 12:31:33 PM	R19040
Surr: 4-Bromofluorobenzene	118	80-120	%F	REC	5	6/4/2014 12:31:33 PM	R19040
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30	mg	ı/Kg	20	6/4/2014 11:57:03 AM	13512

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 10

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406152

06-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13512

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: **PBS**

Batch ID: 13512

RunNo: 19055

Units: mg/Kg

Prep Date: 6/4/2014 Analysis Date: 6/4/2014

SeqNo: 550654

Analyte

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit

%RPD

RPDLimit Qual

Chloride Sample ID LCS-13512

ND

SampType: LCS

1.5

1.5

TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: 13512

RunNo: 19055

Prep Date: 6/4/2014 Analysis Date: 6/4/2014

SeqNo: 550655

Units: mg/Kg

Analyte Result

SPK value SPK Ref Val

%REC LowLimit HighLimit

%RPD **RPDLimit**

Qual

Chloride

94.9

90

110

14

15.00

0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε 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
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2.

Page 3 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406152

06-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBW

Batch ID: R19059

PQL

RunNo: 19059

Analysis Date: 6/4/2014

SeqNo: 550787

Units: mg/L

Prep Date: Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

%RPD

Qual

Chloride

ND 0.50

Sample ID LCS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSW

Batch ID: R19059

RunNo: 19059

Prep Date:

Units: mg/L

Analysis Date: 6/4/2014

SeqNo: 550788

Analyte

SPK value SPK Ref Val %REC LowLimit HighLimit

Chloride

PQL 0.50

5.000

96.5

Qual

4.8

Result

0

RPDLimit

Qualifiers:

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

Page 4 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

Qual

%RPD

1406152

06-Jun-14

Client:

Animas Environmental Services

Result

47

4.5

10

Project:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

Lateral R6 Ice Canyon

Sample ID MB-13510	SampT	vpe: ME	BI K	Tes	tCode: FI	PA Method	8015D: Diese	el Range ()rganiës	
Client ID: PBS	•	1D: 13		TestCode: EPA Method 8 RunNo: 19030			00100. 5100	or rungo v	Jiguilloo	
Prep Date: 6/4/2014	Analysis D	ate: 6/	/4/2014	\$	SeqNo: 5	50025	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		81.9	57.9	140			
Sample ID LCS-13510	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	n ID: 13	510	F	RunNo: 1	9030				
Prep Date: 6/4/2014	Analysis D	ate: 6/	/4/2014	. (SeqNo: 5	50027	Units: mg/k	(g		

0

%REC

94.7

90.5

LowLimit

60.8

57.9

HighLimit

145

140

SPK value SPK Ref Val

50.00

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

P Sample pH greater than 2.

RL Reporting Detection Limit

Page 5 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13511	SampType: MB	BLK	Test	:Code: EF	A Method	8015D: Diese	l Range		
Client ID: PBW	Batch ID: 13	511	RunNo: 19030						
Prep Date: 6/4/2014	Analysis Date: 6/4	4/2014	S	eqNo: 55	50042	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1.0								
Motor Oil Range Organics (MRO)	ND 5.0								
Surr: DNOP	1.1	1.000		109	62.7	145			
Sample ID LCS-13511	SampType: LC	s	Tes	tCode: EF	A Method	8015D: Diese	I Range		
Client ID: LCSW	Batch ID: 13	511	RunNo: 19030						
Prep Date: 6/4/2014	Analysis Date: 6/4	4/2014	S	SeqNo: 5	50043	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	, Qual
Diesel Range Organics (DRO)	5.4 1.0	5.000	0	109	78.6	146			
Surr: DNOP	0.59	0.5000		117	62.7	145			
Sample ID LCSD-13511	SampType: LC	SD	Tes	tCode: EF	A Method	8015D: Diese	I Range		
Client ID: LCSS02	Batch ID: 13	511	F	Run N o: 1 9	9030				
Prep Date: 6/4/2014	Analysis Date: 6/-	4/2014	S	SeqNo: 5	50044	Units: mg/L			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5 1.0	5.000	, 0	110	78.6	146	0.793	26.5	

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

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

Sample pH greater than 2.

RLReporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406152

06-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13489 MK

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

Client ID:

PBS

Batch ID: R19040

PQL

5.0

RunNo: 19040

Analysis Date: 6/4/2014

SeqNo: 550213

Units: mg/Kg

%RPD

%RPD

Prep Date: Analyte

Surr: BFB

Result

LowLimit

Client ID: LCSS

ND

SPK value SPK Ref Val %REC

HighLimit

Qual

RPDLimit

Gasoline Range Organics (GRO)

870

1000

86.6

120

Sample ID LCS-13489 MK

SampType: LCS

Batch ID: R19040

TestCode: EPA Method 8015D: Gasoline Range RunNo: 19040

Prep Date:

Analysis Date: 6/4/2014

SeqNo: 550214

Units: mg/Kg

PQL Analyte Result 26 25.00 HighLimit

RPDLimit

Qual

SPK value SPK Ref Val %REC LowLimit Gasoline Range Organics (GRO) 0 103 71.7 134 Surr: BFB 1000 100 80 120 1000

Qualifiers:

E

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- 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
- Sample pH greater than 2. P
- Reporting Detection Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406152

06-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID	5ML RB
-----------	--------

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

70.9

70.9

Client ID: PBW

Batch ID: R19041

RunNo: 19041

Prep Date:

Analysis Date: 6/4/2014

SeqNo: 550248

Units: mg/L HighLimit %RPD **RPDLimit**

Analyte

Result **PQL** ND 0.050 SPK value SPK Ref Val %REC LowLimit

Qual³

Gasoline Range Organics (GRO)

19

20.00

97.0

130

Surr: BFB

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Sample ID 2.5UG GRO LCS Client ID:

LCSW

Batch ID: R19041

PQL

RunNo: 19041

Prep Date:

Analysis Date: 6/4/2014

SeqNo: 550249

Units: mg/L

%RPD

Analyte Gasoline Range Organics (GRO) Result

SPK value SPK Ref Val

%REC LowLimit

130

RPDLimit

Surr: BFB

0.52 22

0.050 0.5000 20.00 105 108

HighLimit 80 120 Qual

Sample ID 1406152-001AMS

SampType: MS

Analysis Date: 6/4/2014

POL

1.0

TestCode: EPA Method 8015D: Gasoline Range

Client ID: W-1

Batch ID: R19041

RunNo: 19041

SeqNo: 550252

Units: mg/L

Analyte Gasoline Range Organics (GRO)

Prep Date:

Result 19 460

SPK value SPK Ref Val 10.00

400.0

10.00

400.0

%REC

LowLimit 107 79 HighLimit

121

130

RPDLimit %RPD Qual

Surr: BFB

Sample ID 1406152-001AMSD

SampType: MSD

7.792

7.792

TestCode: EPA Method 8015D: Gasoline Range

70.9

79

70.9

Client ID: W-1

Gasoline Range Organics (GRO)

Batch ID: R19041

1.0

RunNo: 19041

115

Units: mg/L

Prep Date:

Surr: BFB

Result **PQL**

18

450

Analysis Date: 6/4/2014 SPK value SPK Ref Val

SeqNo: 550253

99.6

112

%REC LowLimit

HighLimit

121

130

%RPD 4.26

0

RPDLimit Qual 20

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

ND

P Sample pH greater than 2.

Reporting Detection Limit

Not Detected at the Reporting Limit Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406152

06-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID MB-13489 MK	SampT	npType: MBLK TestCode: EPA Method 8021B: Volatiles						tiles		
Client ID: PBS	Batcl	h ID: R1	9040	F	RunNo: 1	9040				
Prep Date:	Analysis D	Date: 6/	4/2014	S	SeqNo: 5	50232	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		106	80	120			

Sample ID LCS-13489 MK	Samp	ype: LC	s	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	LCSS Batch ID: R19040			F	RunNo: 1							
Prep Date:	Analysis Date: 6/4/2014 SeqNo: 550233 Units: mg/Kg											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.2	0.050	1.000	0	118	80	120					
Toluene	1.1	0.050	1.000	0	108	80	120					
Ethylbenzene	1.1	0.050	1.000	0	106	80	120					
Xylenes, Total	3.1	0.10	3.000	0	104	80	120					
Surr: 4-Bromofluorobenzene	12		1 000		116	80	120					

Qualifiers:

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

Page 9 of 10

. Ь Sample pH greater than 2.

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406152

06-Jun-14

Client: Animas Environmental Services

Project: Lateral R6 Ice Canyon

Sample ID 5ML RB	SampT	SampType: MBLK TestCode: EPA Method				PA Method	ว่ 8021B: Volatiles					
Client ID: PBW	Batch	ID: R1	9041	F	RunNo: 1	9041						
Prep Date:	Analysis D	ate: 6/	4/2014	\$	SeqNo: 5	50258	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	1.0										
Toluene	ND	1.0										
Ethylbenzene	ND	1.0										
Xylenes, Total	ND	2.0										
Surr: 4-Bromofluorobenzene	22		20.00		111	82.9	139					

Sample ID 100NG BTEX LO	C S Samp	S SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batc	h ID: R1	9041	F	RunNo: 1	9041				
Prep Date:	Analysis [Date: 6/	4/2014	9	SeqNo: 5	50259	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	82.9	139			

Sample ID 1406152-001AM	S Samp1	Type: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: W-1	Batc	h ID: R1	9041	F	RunNo: 1	9041					
Prep Date:	Analysis [Date: 6 /	4/2014	9	SeqNo: 5	50262	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	600	20	400.0	168.4	109	71	129				
Toluene	1700	20	400.0	1252	115	68.4	135				
Ethylbenzene	510	20	400.0	91.56	104	69.4	135				
Xylenes, Total	2600	40	1200	1279	108	72.4	135				
Surr: 4-Bromofluorobenzene	470		400.0		116	82.9	139				

Sample ID 1406152-001AM	SD SampT	ype: MS	TestCode: EPA Method 8021B: Volatiles							
Client ID: W-1	Batch	1D: R1	9041	·F	Run N o: 1	9041				,
Prep Date:	Analysis D	ate: 6/	4/2014	\$	SeqNo: 5	50263	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	600	20	400.0	168.4	107	71	129	1.15	20	
Toluene	1700	20	400.0	1252	110	68.4	135	1.12	20	
Ethylbenzene	510	20	400.0	91.56	104	69.4	135	0.403	20	
Xylenes, Total	2500	40	1200	1279	104	72.4	135	1.91	20	
Surr: 4-Bromofluorobenzene	490		400.0		123	82.9	139	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RLReporting Detection Limit

Page 10 of 10 Sample pH greater than 2.



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 Environmental	Work Order Number:	1406152		RcptNo:	1
Received by/date:	ce offer				
Logged By: Lindsay Mangin	6/4/2014 10:00:00 AM		Junday Hlaggo		
Completed By: Lindsay Mangin	6/4/2014 10:14:27 AM		Analy Hlago		
Reviewed By:	06/04/14		000		
Chain of Custody					
1. Custody seals intact on sample bottles?	,	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Was an attempt made to cool the samp	les?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a temperar	ture 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 to	est(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) pro	pperly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials	a
11. Were any sample containers received b	roken?	Yes 🗆	No ☑ [# of passage and	
		_		# of preserved 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 Chair		Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested	=	Yes 🗹	No □		-
15. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)			_		
Special Handling (if applicable)				•	.*
16. Was client notified of all discrepancies w	vith this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date:]
By Whom:	Via:	_ eMail	Phone 🔲 Fax	n Person	
Regarding:				:	
Client Instructions:	No. 1. The second secon	A to Fe set out:	The Broke continue of the Keller St.	7	
17. Additional remarks:				· .	J
18. Cooler Information Cooler No Temp C Condition 1 1.6 Good	Seal Intact Seal No Se	Seal Date	Signed By		

Client: Ammas Environmental Standard Rustsame day Services L.C. Mailing Address: 6 H E Comanche Lateral R6 Canyon Analysis Lateral R6 Canyon 4901 Hawkins NE - Albuquerque,	
Drojoot Nomo:	-
Services UC www.hallenvironmental	al.com
Mailing Address: 1024 E Comanche Lateral R6 Canyon 4901 Hawkins NE - Albuquerque,	
Facility (1975) A) M 8140) Project#: Tel. 505-345-3975 Fax 505-34	345-4107
Phone # 505 564 228 Analysis Reque	iest.
Project Manager:	
email or Fax#: QA/QC Package: Accreditation Accreditation DA NEI AB DA Other Project Manager: Cay Out Cay C	
Accreditation NELAP Onice Ves. Divisor No. 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	Abe,
□ NELAP □ Other □ Onice: □ Yes □ No → + + + + + + O ≥ 0 o co co co co co co co co co co co co c	(
Date Time Matrix Sample Request ID Container Type and # Preservative Type and # Type TEX + WI SULD B (Methoday 12 Pestic CRA 8 Methoday 12 Pestic CRA 8 Pestic CRA 8 Methoday 12 Pestic CRA 8 Pestic	8270 (Semi-VOA) 300.0 Chlorde
6-3-14 1347 Water W-1 1-500ml plashe 2-cold -001 X X	
6-314 1428 80il S-1 Multher Cold -007 X X	X
Date: Time: Relinquished by: Augustia Walter Walter Paul Bowell Paul Bowe	ield Seurces
1710 Mustubelle OC 04/14 1000 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.	



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

Website: www.hallenvironmental.com

OrderNo.: 1406668

June 16, 2014

Anna Riling

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

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

RE: Lateral R6 Ice Canyon

Dear Anna Riling:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/14/2014 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 1406668

Date Reported: 6/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-1@7.5'

Project: Lateral R6 Ice Canyon Collection Date: 6/13/2014 12:40:00 PM

Lab ID: 1406668-001 Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 5:23:47 PM	13706
Surr: DNOP	84.9	57.9-140	%REC	1	6/15/2014 5:23:47 PM	13706
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	6.9	2.4	mg/Kg	1	6/15/2014 5:18:19 PM	R19268
Surr: BFB	205	80-120	S %REC	1	6/15/2014 5:18:19 PM	R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.024	mg/Kg	1	6/15/2014 10:37:05 AN	/ R19268
Toluene	ND	0.024	mg/Kg	1	6/15/2014 10:37:05 AN	/ R19268
Ethylbenzene	ND	0.024	mg/Kg	1	6/15/2014 10:37:05 AN	/ R19268
Xylenes, Total	ND	0.049	mg/Kg	1	6/15/2014 10:37:05 AM	/ R19268
Surr: 4-Bromofluorobenzene	110	80-120	%REC	1	6/15/2014 10:37:05 AM	/I R19268

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
- О RSD is greater than RSDIimit
- 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

Page 1 of 6

- P Sample pH greater than 2.
- RLReporting Detection Limit

Lab Order 1406668

Date Reported: 6/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-2@7.5'

Project: Lateral R6 Ice Canyon

Collection Date: 6/13/2014 1:22:00 PM

Lab ID: 1406668-002

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS			Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1 6/15/2014 5:47:04 PM	13706
Surr: DNOP	82.6	57.9-140	%REC	1 6/15/2014 5:47:04 PM	13706
EPA METHOD 8015D: GASOLINE RA	ANGE			Analys	t: RAA
Gasoline Range Organics (GRO)	ND	2.5	mg/Kg	1 6/15/2014 11:34:27 AM	1 R19268
Surr: BFB	96.0	80-120	%REC	1 6/15/2014 11:34:27 AM	1 R19268
EPA METHOD 8021B: VOLATILES				Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1 6/15/2014 11:34:27 AM	1 R19268
Toluene	ND	0.025	mg/Kg	1 6/15/2014 11:34:27 AM	1 R19268
Ethylbenzene	ND	0.025	mg/Kg	1 6/15/2014 11:34:27 AM	1 R19268
Xylenes, Total	ND	0.050	mg/Kg	1 6/15/2014 11:34:27 AM	1 R19268
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1 6/15/2014 11:34:27 AM	N R19268

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 **1406668**

Date Reported: 6/16/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-4@7.5'

Project: La

Lateral R6 Ice Canyon

Collection Date: 6/13/2014 2:52:00 PM

Lab ID:

1406668-003

Matrix: MEOH (SOIL)

Received Date: 6/14/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2014 6:09:31 PM	13706
Surr: DNOP	83.7	57.9-140	%REC	1	6/15/2014 6:09:31 PM	13706
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	2.7	mg/Kg	1	6/15/2014 12:03:08 PN	1 R19268
Surr: BFB	95.7	80-120	%REC	1	6/15/2014 12:03:08 PM	1 R19268
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.027	mg/Kg	1	6/15/2014 12:03:08 PN	1 R19268
Toluene	ND	0.027	mg/Kg	1	6/15/2014 12:03:08 PM	1 R19268
Ethylbenzene	ND	0.027	mg/Kg	1	6/15/2014 12:03:08 PN	1 R19268
Xylenes, Total	ND	0.054	mg/Kg	1	6/15/2014 12:03:08 PN	1 R19268
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/15/2014 12:03:08 PM	/I R19268

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#:

1406668

16-Jun-14

Client:

Animas Environmental Services

SampType: MBLK

Project:

Sample ID MB-13706

Lateral R6 Ice Canyon

Sample ID MB-13705	SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics									
Client ID: PBS Batch ID: 13705 RunNo: 19265										
Prep Date: 6/15/2014	6/15/2014 Analysis Date: 6/15/2014 SeqNo: 55684						С			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.4	10.00		83.9	57.9	140				

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: PBS	Batch	ID: 13	706	F	9265					
Prep Date: 6/15/2014	Analysis D	ate: 6/	15/2014	S	SeqNo: 5	56848	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10				-				
Surr: DNOP	8.2		10.00		82.0	57.9	140			
	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics									
Sample ID LCS-13705	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Sample ID LCS-13705 Client ID: LCSS		ype: LC ID: 13			tCode: El RunNo: 1 !		8015D: Diese	el Range (Organics	
1 '		ID: 13	705	F		9265	8015D: Diese Units: %RE	J	Organics	
Client ID: LCSS	Batch	ID: 13	705 15/2014	F	RunNo: 19 SeqNo: 5	9265		J	Organics RPDLimit	Qual

Sample ID LCS-13706	Samp1	Type: LC	s	TestCode: EPA Method 8015D: Diesel Range Organics									
Client ID: LCSS	Batcl	h ID: 13	706	F	RunNo: 1	9265							
Prep Date: 6/15/2014	Analysis D	Date: 6/	15/2014	8	SeqNo: 5	56850	Units: mg/Kg						
Analyte ^r	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit 4 %RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	49	10	50.00	0	99.0	60.8	145						
Surr: DNOP	3.7		5.000		74.1	57.9	140						

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- ND Not Detected at the Reporting Limit

Page 4 of 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406668

16-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 5ML-RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R19268

PQL

5.0

RunNo: 19268

Prep Date:

Analysis Date: 6/15/2014

80

LowLimit

0

SeqNo: 556911

Units: mg/Kg

Analyte

Result ND SPK value SPK Ref Val %REC

1000

HighLimit

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

930

92.6

120

Sample ID 2.5UG GRO LCS

Client ID: LCSS

SampType: LCS Batch ID: R19268

PQL

RunNo: 19268

TestCode: EPA Method 8015D: Gasoline Range

Prep Date:

SeqNo: 556912

Analysis Date: 6/15/2014

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result 26 SPK value SPK Ref Val 25.00

%REC 104 LowLimit HighLimit 71.7

%RPD **RPDLimit**

%RPD

Qual

Surr: BFB

1000

1000

99.7

80

134 120

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Е Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND

P Sample pH greater than 2.

Reporting Detection Limit

Not Detected at the Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406668

16-Jun-14

Client:

Animas Environmental Services

Project:

Lateral R6 Ice Canyon

Sample ID 5ML-RB	SampT	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								•
Client ID: PBS	Batch	1D: R1	9268	F	RunNo: 1					
Prep Date:	Analysis D	ate: 6/	15/2014	S	SeqNo: 5	56924	Units: mg/K	·	•	
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		100	80	120			

Sample ID 100NG BTEX LC	S Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bato	h ID: R1	9268	268 RunNo: 19268						
Prep Date:	Analysis	Date: 6 /	15/2014	5	SeqNo: 5	56969	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	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	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 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

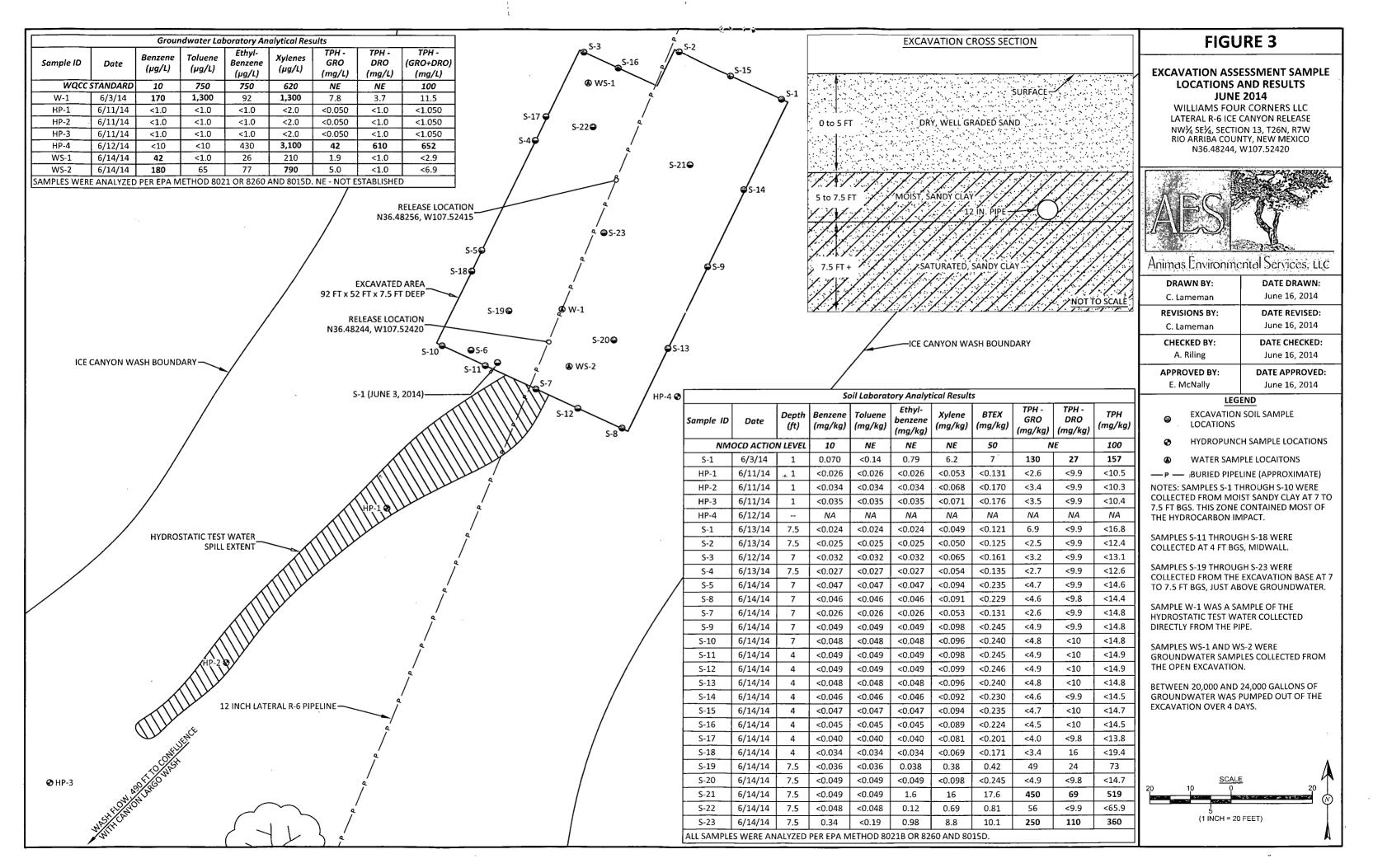
Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: Animas Environmental Work Order Number:	1406668		RcptNo:	en en en en en en en en en en en en en e
Received by/date:				
Logged By: Ashley Gallegos 6/14/2014 10:00:00 AM	l	A		
Completed By: Ashley Gallegos 6/14/2014 10:25:18 AM	l	A 1		
Reviewed By:		niolial.	l.	
Chain of Custody		0~111	 	
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No 🗹		
		_	# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🚨	for pH:	>12 unless noted)
13. Are matrices correctly Identified on Chain of Custody?	Yes 🔽	No 🗆	Adjusted?	- 12 dilloss flotody
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆	_	
15. Were all holding times able to be met?	Yes 🗹	No 🗀	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗹	NA 🗆	
Person Notified: Date:				
By Whom: Via:	eMail [Phone Fax	In Person	
Regarding:		all a second transition in	and the second second	
Client Instructions:				
17. Additional remarks:				
18. <u>Cooler Information</u>				
	Seal Date	Signed By	<u> </u>	
1 1.9 Good Yes		<u> </u>	.i	

Client: Anin	nas Envir	onmental	Services	☐ Standard	even	h Results Sunday ing June 15				A	NA	LY	SI	S L	AE	30I				
Mailing Add	dress: 62	4 E Coma	ınche	Lateral R6 lo				49	01 H			hallen E - Al					109			
Farmington	, NM 874	101		Project #:	e Carryon		L		el. 50	5-34	5-397	' 5	Fax	505-	-345-	4107				
Phone #:	505-564-	2281									\$ 00 S	Ana	lysis	Req	uest	A 10				
Email or Fa	x#:			Project Mana	ager:					- }						1]]
QA/QC Pack X Standard	_		☐ Level 4 (Full Validation)	Anna Riling	.,			8015B	}											
Accreditation	on:	□ Other		Sampler:	Emilee Skyle)- EPA												(Ñ
□ EDD (Ty	/pe)			Sample Jen	iperature		В	RO	1				1			1				٥ ح
Date .	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO	BTEX - 8021B	TPH (GRO/DRO)-												Air Bubbles (Y or N)
6/13/14	12:40	Soil	S-1@7.5'	1-MEOH kit/ 1- 4oz jar	MEOH/Cold	1406668-1	Х	х										\top	\top	
6/13/14	13:22	Soil	S-2@7.5'	1-MEOH kit/ 1/ 4oz jar	MEOH/Cold	- 2	X	Х												
6/13/14	14:52	Soil	S-4@7.5'	1-MEOH kit/ 1- 4oz jar	MEOH/Cold	-3	Х	х											I	
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Date:	Time:	Relinquishe	LSY	Received by:	1	Date Time		narks	: Dire	ect bi	ll to V	/illiam	s	<u> </u>					_1_	
Date:	Time:	Relinquishe	ed by:	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.





CB&I 6380 South Fiddlers Green, Suite 310 Greenwood Village, CO 80111 Tel: +1 303 741 7700 Fax: +1 303 741 7479 www.CBl.com

August 8, 2014

OIL CONS. DIV DIST. 3

Mr. Matt Webre, P.G.
Supervisor, Environmental Services
Williams Four Corners LLC
Bloomfield, NM 87413

SEP 0 2 2014

RE: Williams Four Corners Lateral R6 Ice Canyon Assessment Report

Rio Arriba County, New Mexico

Dear Mr. Webre:

CB&I Environmental & Infrastructure, Inc. has prepared this letter report to document the results of field assessment performed at the Lateral R6 Ice Canyon site. Field activities were performed according to the scope of work presented to the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM) on June 26, 2014.

Soil Removal Summary

On June 3, 2014, the Lateral R-6 pipeline ruptured during a hydro-test resulting in the release of approximately 200 barrels (bbls) of hydrocarbon impacted water in the Ice Canyon wash. Between June 11 and 14, 2014, approximately 1,000 cubic yards (cy) of soil were excavated from the release site in an effort to remove potential hydrocarbon impacted soil. The excavation extended approximately 92 feet in length parallel to the pipeline, 51 feet in width, and 7.5 feet in depth. The depth to water was approximately 6 feet below grade as indicated by observed soil moisture during the excavating activities and static water level in the limits of the open excavation. The excavation limits were based on visual observations of stained soil, field screening for volatile organic compounds (VOCs) with a photo-ionization detector (PID), and laboratory analytical testing.

Soil analytical data indicates that the lateral extent of soil impact was delineated and excavated. **Table 1** below presents the analytical results for soil samples collected during excavation. Benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations were below the analytical detection limit in 20 of the 23 confirmation soil samples collected within the limits of the excavation. Since the depth to water was approximately 6 feet below grade, any soil samples collected below this depth were saturated. All post-excavation unsaturated soil sample detections were below the NMOCD Soil Action Levels.

Two soil samples collected below the water table contained total petroleum hydrocarbon (TPH) above the regulatory limit of 100 milligrams per kilogram (mg/kg). However, because these samples were collected below the water table in saturated conditions, results are not directly comparable to unsaturated soil standards.





Table 1 - Excavation Soil Analytical Results

Sample	Depth	Date	OVM- PID	Benzene	Toluene	Ethyl benzene	Xylenes	ВТЕХ	GRO (C6-C10)	DRO (C10- C22)	TPH (GRO+DRO)
ID NMO	Feet CD Actio	Sampled	(ppmV)⊗ <i>NE</i>	∦ (mg/kg) 10	(mg/kg) <i>NE</i>	(mg/kg) <i>NE</i>	(mg/kg)	(mg/kg) 50	(mg/kg) <i>NE</i>	(mg/kg) <i>NE</i>	(mg/kg) 100
S-1		[70		<u> </u>					
	1	6/3/14	NA	0.070	<0.14	0.79	6.2	7	130	27	157
HP-1	1	6/11/14	0.6	<0.026	<0.026	<0.026	<0.053	<0.131	<2.6	<9.9	<10.5
HP-2	1	6/11/14	1.2	<0.034	<0.034	<0.034	<0.068	<0.170	<3.4	<9.9	<10.3
HP-3	11	6/11/14	0.0	<0.035	<0.035	<0.035	<0.071	<0.176	<3.5	<9.9	<10.4
HP-4	11	6/12/14	5.2	NA	NA	NA NA	NA NA	NA NA	NA	NA	NA NA
S-1	7.5	6/13/14	29.2	<0.024	<0.024	<0.024	<0.049	<0.121	6.9	<9.9	<16.8
S-2	7.5	6/13/14	1.2	<0.025	<0.025	<0.025	<0.050	<0.125	<2.5	<9.9	<12.4
S-3	7	6/12/14	14.7	<0.032	<0.032	<0.032	<0.065	<0.161	<3.2	<9.9	<13.1
S-4	7.5	6/13/14	0.2	<0.027	<0.027	<0.027	<0.054	<0.135	<2.7	<9.9	<12.6
S-5	77	6/14/14	9.6	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.9	<14.6
S-7	7	6/14/14	1.2	<0.026	<0.026	<0.026	<0.053	<0.131	<2.6	<9.9	<10.5
S-8	7	6/14/14	0.2	<0.046	<0.046	<0.046	<0.091	<0.229	<4.6	<9.8	<14.4
S-9	7	6/14/14	1.1	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.9	<14.8
S-10	7	6/14/14	0.2	<0.048	<0.048_	<0.048	<0.096	<0.240	<4.8	<10	<14.8
S-11	4	6/14/14	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<10	<14.9
S-12	4	6/14/14	NA	<0.049	<0.049	<0.049	<0.099	<0.246	<4.9	<10	<14.9
S-13	4	6/14/14	NA	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<10	<14.8
S-14	4	6/14/14	NA	<0.046	<0.046	<0.046	<0.092	<0.230	<4.6	<9.9	<14.5
S-15	4	6/14/14	NA	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<10	<14.7
S-16	4	6/14/14	NA	<0.045	<0.045	<0.045	<0.089	<0.224	<4.5	<10	<14.5
S-17	4	6/14/14	NA	<0.040	<0.040	<0.040	<0.081	<0.201	<4.0	<9.8	<13.8
S-18*	4	6/14/14	NA	<0.034	<0.034	<0.034	<0.069	<0.171	<3.4	16	<19.4
S-19*	7.5	6/14/14	NA	<0.036	<0.036	0.038	0.38	0.42	49	24	73
S-20*	7.5	6/14/14	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.8	<14.7
S-21*	7.5	6/14/14	NA	<0.049	<0.049	1.6	16	17.6	450	69	519
S-22*	7.5	6/14/14	NA	<0.048	<0.048	0.12	0.69	0.81	56	<9.9	<65.9
S-23*	7.5	6/14/14	NA	0.34	<0.19	0.98	8.8	10.1	250	110	360

Notes:

NA = Not Analyzed

NE = Not Established

*USEPA Sample Method 8260B

During excavation when impacted soil column and groundwater interaction was evident, BTEX and TPH concentrations were detected in water samples collected from the open excavation (W-1, WS-1, and WS-2) and at one location in the shallow aquifer immediately adjacent to the excavation (HP-4). These results are presented in **Table 2**. Based on these detections, a groundwater assessment scope



was proposed to the agencies to determine the possible hydrocarbon impact to the shallow aquifer. No further excavation of soil was necessary.

On July 3, 2014, two water samples (WS-1A and WS-2A) were collected from the open excavation to document the water condition prior to backfilling. Results of analysis were all below New Mexico Water Quality Control Commission (WQCC) standards as presented in **Table 2**.

Table 2 - Excavation Water Analytical Results

Sample ID	Date	DRO (mg/L)	GRO (mg/L)	(DRO+GRO) (mg/L)	Benzene (µg/L)		Ethylbenzene (µg/L)	Xylenes, Total (µg/L)
		NE		100	10	2. 750 €	750	620
W-1	6/3/2014	3.7	7.8	11.5	170	1,300	92	11.300
WS-1	6/14/14	<1.0	1.9	1.9	42	<1.0	26	210
WS-2	6/14/14	<1.0	5.0	5.0	180	65	77	790
WS-1A	7/3/2014	<1.0	0.051	0.051	1.5	<1.0	<1.0	<2.0
WS-2A	7/3/2014	<1.0	0.065	0.065	1.5	1.1	<1.0	<2.0

Notes:

DRO - Diesel Range Organics (C10-C28)

GRO - Gasoline Range Organics (C6-C10)

NE - Not Established

ug/L - Micrograms per liter

mg/L - Milligrams per liter

Backfill and Assessment Activities

Between July 15 and 18, 2014, additional field activities were conducted to stabilize the site and to determine the nature and extent of the hydrocarbon concentrations in the shallow aquifer. These activities included backfilling the excavation, conducting a groundwater assessment, and installation of temporary piezometers.

Excavation Backfill

Backfilling of the excavation was recommended prior to conducting the assessment to provide protection to the environment, reduce the potential migration of hydrocarbons, provide a stable work platform to conduct assessment activities to determine the potential extent of residual hydrocarbons in the groundwater, and to provide protection to the exposed pipeline. Backfilling activities commenced on July 15, 2014 and were completed on July 18, 2014. Backfill material was obtained from a BLM-approved borrow source.

Groundwater Assessment

On July 17 and 18, 2014, a groundwater assessment was conducted to identify and delineate the potential extent of hydrocarbons in the shallow aquifer. Discrete groundwater samples were collected at locations within the limits of the former excavation to evaluate the potential presence of hydrocarbons in the shallow aquifer. Groundwater samples were collected at 17 sample locations; three within the limits of the excavation and 14 outside of the limits of the excavation.

mples were collected at two intervals within the limits of the excavation to document the f possible residual dissolved hydrocarbons in the release area. Sample locations GP-2 selected to correspond with prior sample locations S-21 and S-23, respectively, where tions in saturated soil were previously detected. The samples were collected from 6 to 9 and 12 to 15 feet below grade. The samples outside the limits of the excavation were top of the aquifer from depths of approximately 6 to 9 feet below grade. Samples were ne HP-4 and GP-5 locations to correspond with the prior sample from HP-4. Sample justed as necessary based on the actual depth to groundwater as observed during on at each probe location.

amples were collected by advancing an SP22 discrete groundwater sampler to the target irect-push rig and retracting the rod housing to expose the sampler screen. Fluid in the sampler was purged to remove as much sediment as practical. A non-filtered mple was collected from each location and submitted to a New Mexico certified tall petroleum hydrocarbons-diesel range organics (TPH-DRO) and total petroleum asoline range organics (TPH-GRO) analysis using EPA Method 8015 and BTEX EPA Method 8260B. One field duplicate sample was collected at GP-7. A trip blank ne cooler containing the samples for BTEX and TPH-GRO analysis. The probe hole discrete groundwater may be collection by backfilling with granular bentonite. The discrete mple locations are illustrated in **Figure 1**. Coordinates for the discrete groundwater has are provided in **Table 3**.

Table 3 – Groundwater Sample Location Coordinates

Sample Location ID	Latitude	Longitude
GP-1	36.48276481700	-107.52402414500
GP-2	36.48257156900	-107.52409577200
GP-3	36.48252249000	-107.52415851700
GP-4	36.48243072500	-107.52422012800
GP-5	36.48237153500	-107.52407149600
GP-6	36.48231170800	-107,52414160000
GP-7	36.48233602100	-107.52420434400
GP-8	36.48236734100	-107.52427039700
GP-9	36.48240207400	-107.52433236100
GP-11	36.48226630900	-107.52438980500
GP-10	36.48237153500	-107.52449634700
GP-12	36.48216371300	-107.52428063300
GP-13	36.48247281500	-107.52403203600
GP-14	36.48257278000	-107.52427800200
HP-4	36.48239953800	-107.52410714600
GP-15	36.48270292700	-107.52417029400
GP-16	36.48264987300	-107.52399552700



TPH and BTEX compounds were not detected in the shallow groundwater at concentrations at or above the WQCC Standards. Additionally, TPH or BTEX compounds were not detected in the groundwater samples collected from the 13 to 16 feet below grade interval. Groundwater sample locations and TPH and BTEX concentrations are illustrated in **Figure 2**. Groundwater analytical results are summarized in **Table 4**. Laboratory reports are included in **Appendix A**.

Table 4 - Groundwater Sample Analytical Results

Sample ID	Date	DRO (mg/L)	GRO (mg/L)	TPH (DRO+GRO) (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,ρ- Xylene (μg/L)	o- Xylene (µg/L)	Xylenes, Total (µg/L)
WQCC St	andards	ŃΕ	ΝĒ	100	10	2. 750 ,	750	NE 🐧	NE 2	620
GP-1	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-2 (6-9)	7/18/2014	2.6	<0.20	2.6	4.1	<1.0	3.8	22	1.1	23
GP-2 (13-16)	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-3 (6-9)	7/18/2014	2.0	0.64	2.64	<1.0	<1.0	9.3	68	<1.0	68
GP-3 (13-16)	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-4 (6-9)	7/18/2014	<0.10	0.46	0.46	7.8	<1.0	13	82	9.8	92
GP-4 (13-16)	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	2.5	<1.0	<3.0
GP-5	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-6	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-7	7/18/2014	3.4	<0.20	3.4	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-8	7/18/2014	3.0	<0.20	3.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-9	7/18/2014	1.1	<0.20	1.1	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-10	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-11	7/18/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-12	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-13	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-14	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-15	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GP-16	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
HP-4	7/17/2014	<0.10	<0.20	<0.20	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0

Nøte:

DRO - Diesel Range Organics (C10-28)

GRO - Gasoline Range Organics (C6-C10)

NE - Not Established

ug/L - Micrograms per liter

mg/L - Milligrams per liter

Temporary Piezometers

Temporary piezometers were installed at four locations to determine the direction of groundwater flow and the hydraulic gradient. The temporary piezometers were installed using a direct push rig to approximately 12 feet below grade or 5 feet below the water table. The piezometers were constructed of 1-inch nominal inside diameter polyvinyl chloride (PVC) casing and 5 feet of 0.010-inch factory



slotted well screen. The natural formation was allowed to collapse around the wells screen and casing to form a natural filter pack. Top of casing elevations were measured in the field and groundwater levels measured with an interface probe. The temporary piezometers were pulled from the probe holes and abandoned following the collection of groundwater level data. The locations of the temporary piezometers are illustrated in **Figure 3**.

A temporary bench mark was established at the site to measure the relative elevation of the temporary piezometers top of casing (TOC). Coordinates and TOC elevations for the temporary piezometers are provided in **Table 5**. Groundwater elevations were determined from the measured depth to water and TOC elevations at the individual the temporary piezometers. Groundwater flow in the vicinity of the release is to the southwest at a hydraulic gradient of 0.0003 feet per foot as illustrated in **Figure 3**.

Piezometer	Sample Location	Latitude	Longitude	TOC .	Date	DTW	Groundwater Elevation
PZ-1	GP-1	36.48276481700	-107.52402414500	93.54	7/18/2014	6.27	87.27
PZ-2	GP-8	36.48236734100	-107.52427039700	92.50	7/18/2014	5.82	86.68
PZ-3	GP-10	36.48237153500	-107.52449634700	92.03	7/18/2014	5.55	86.48
PZ-4	GP-12	36.48216371300	-107.52428063300	93.51	7/18/2014	6.95	86.56

Table 5 - Piezometer Gauging Results

Summary and Conclusions

Following completion of initial remedial actions and the recent groundwater assessment, a summary of the findings and conclusions are provided below:

- Impacted soil from the release was excavated and disposed at an off-site disposal facility.
- Confirmation soil samples confirmed the lateral extents of the excavation are below NMOCD Soil Action Levels.
- Dissolved hydrocarbon concentrations in the exposed groundwater located within the limits of the excavation were below the WQCC Standards prior to backfilling.
- The excavation was backfilled with clean soil obtained from a BLM-approved source.
- Concentrations of dissolved hydrocarbons detected in the groundwater were all below the WQCC Standards.
- No concentrations were detected in the deeper groundwater interval beneath the former excavation indicating no vertical migration of hydrocarbons.
- Groundwater results from locations where prior saturated soil concentrations were detected indicate that residual hydrocarbon concentrations in soil are not a risk to groundwater quality.

Based on the findings and conclusions, the excavation of impacted soil surrounding the Lateral R-6 pipeline was successful in remediating hydrocarbons in the soil. The rapid implementation of the removal action was protective of the underling groundwater and the assessment results indicate there is no impact to the shallow groundwater above the WQCC Standards. Hydrocarbons in the vadose zone were excavated during the removal action, eliminating the potential of impacting the groundwater in the future.



Based on the confirmation samples and groundwater samples collected during the assessment, the data demonstrated that there is no longer a risk to human health or the environment; therefore, no further action is warranted at this time.

If you have any questions or comments, please contact me at (720) 554-8198.

Sincerely,

David Way

Client Program Manager

CB&I Environmental & Infrastructure, Inc.

Please Reply To: David Way

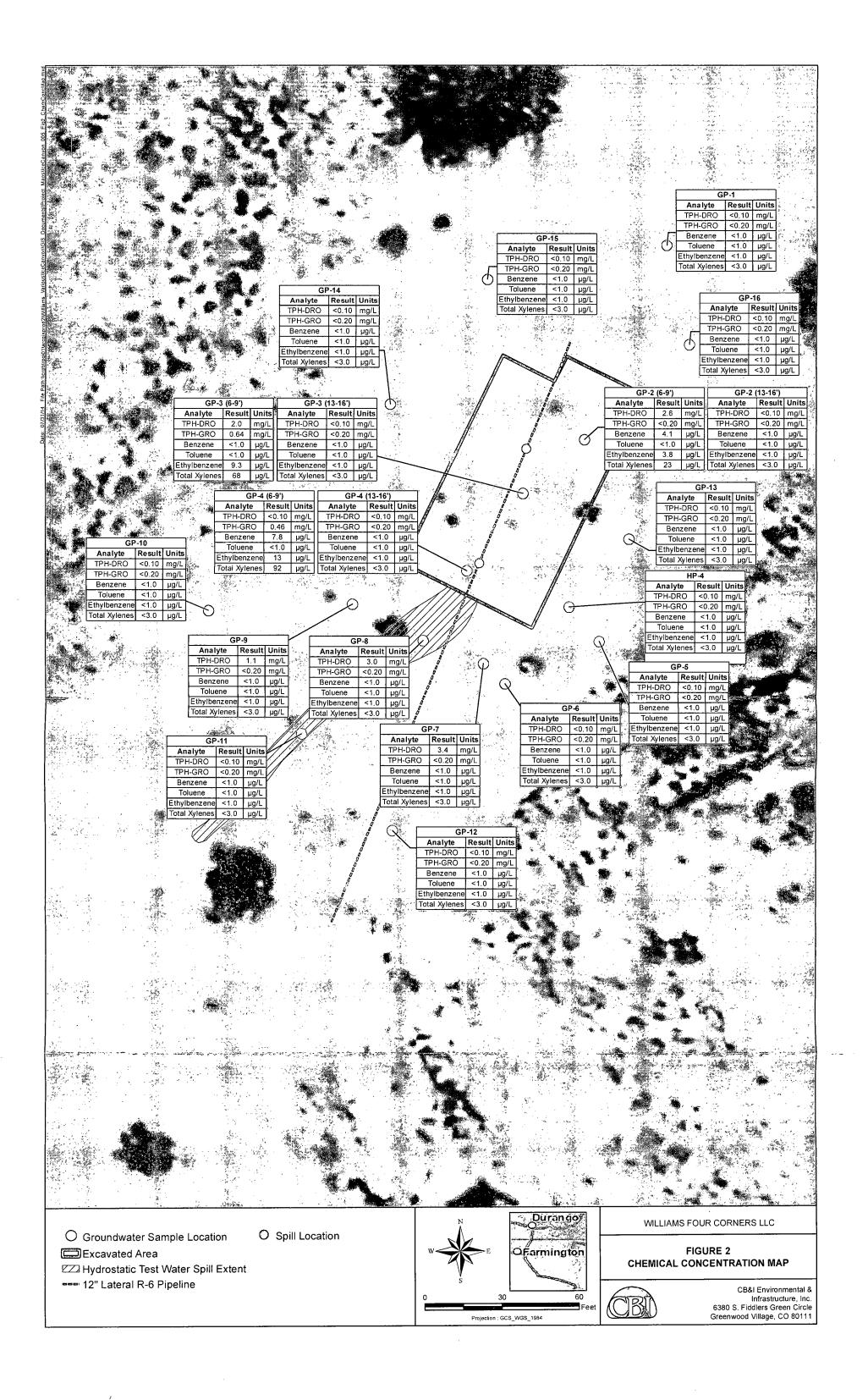
Phone: 720.554.8198

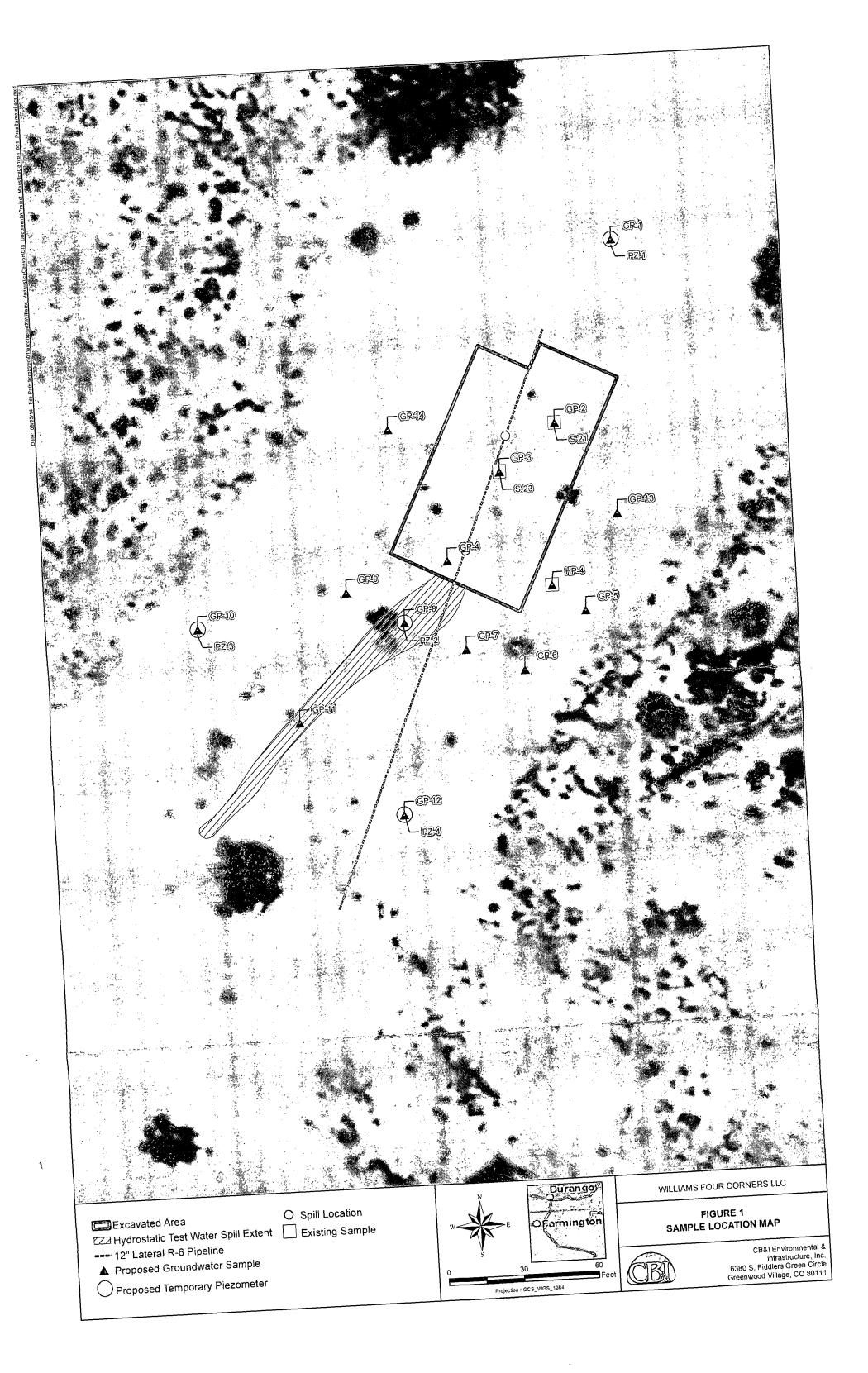
E-Mail Address: david.way@cbi.com

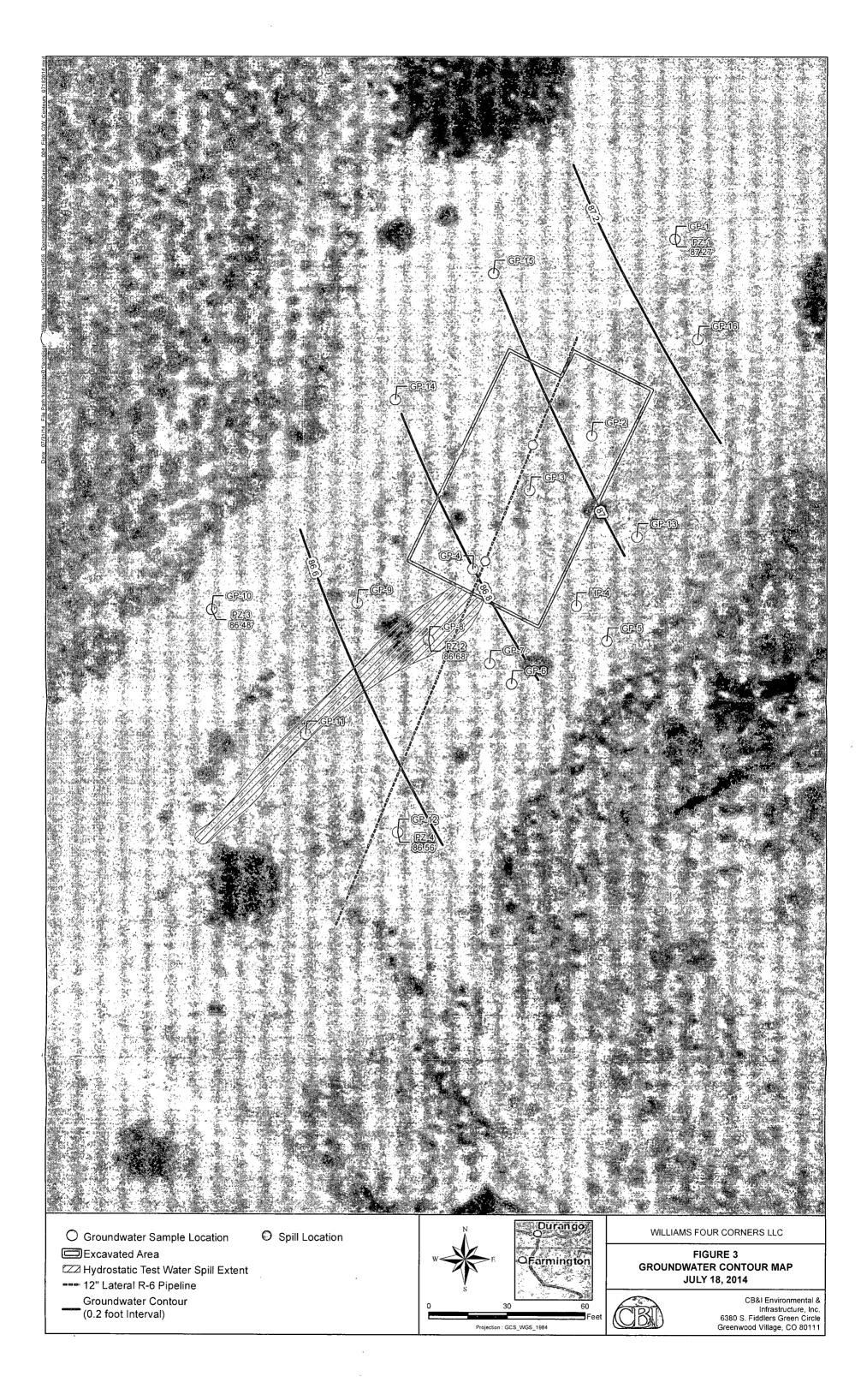
Attachments

C: John Carey - Williams

Mark Finney - CB&I







APPENDIX A LABORATORY REPORT



29-Jul-2014

James Glover
CB&I Government Solutions, Inc.
11206 Thompson Ave.
Lenexa, KS 66219

Re: Williams Ice Canyon 7.17-7.18.14

Work Order: 14071088

Dear James,

ALS Environmental received 22 samples on 22-Jul-2014 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



ALS Group USA, Corp

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc. Williams Ice Canyon 7.17-7.18.14

Project: Work Order:

14071088

Work Order Sample Summary

Lab Samp ID Client Sample ID	Matrix Tag Number	Collection Date	Date Received H	łold
14071088-01 GP-1	Groundwater	7/17/2014 11:45	7/22/2014 09:30	
14071088-02 GP-16	Groundwater	7/17/2014 12:40	7/22/2014 09:30	
14071088-03 GP-15	Groundwater	7/17/2014 13:45	7/22/2014 09:30	
14071088-04 GP-14	Groundwater	7/17/2014 14:35	7/22/2014 09:30	
14071088-05 GP-10	Groundwater	7/17/2014 15:20	7/22/2014 09:30	
14071088-06 GP-12	Groundwater	7/17/2014 16:25	7/22/2014 09:30	
14071088-07 GP-6	Groundwater	7/17/2014 17:00	7/22/2014 09:30	
14071088-08 HP-4	Groundwater	7/17/2014 17:30	7/22/2014 09:30	
14071088-09 GP-13	Groundwater	7/17/2014 18:00	7/22/2014 09:30	
14071088-10 GP-5	Groundwater	7/18/2014 09:20	7/22/2014 09:30	
14071088-11 GP-3 (13-16)	Groundwater	7/18/2014 10:00	7/22/2014 09:30	
14071088-12 GP-3 (6-9)	Groundwater	7/18/2014 10:35	7/22/2014 09:30	
14071088-13 GP-4 (13-16)	Groundwater	7/18/2014 11:05	7/22/2014 09:30	
14071088-14 GP-4 (6-9)	Groundwater	7/18/2014 11:40	7/22/2014 09:30	
14071088-15 GP-9	Groundwater	7/18/2014 12:05	7/22/2014 09:30	
14071088-16 GP-7	Groundwater	7/18/2014 12:40		
14071088-17 GP-8	Groundwater	7/18/2014 13:30	77227201107.50	
14071088-18 GP-11	Groundwater	7/18/2014 15:30		
14071088-19 GP-2 (6-9)	Groundwater	7/18/2014 14:15	77227201107.50	
14071088-20 GP-2 (13-16)	Groundwater	7/18/2014 14:55	7/22/2014 09:30	
14071088-21 FD	Groundwater	7/18/2014	772272014 07.50	
14071088-22 Trip Blank	Water	7/18/2014	7/22/2014 09:30	

Date: 29-Jul-14

ALS Group USA, Corp

Client:

CB&I Government Solutions, Inc. Williams Ice Canyon 7.17-7.18.14

Project: Work Order:

14071088

Case Narrative

Batch R144965 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Batch R145020 MS/MSD data for GRO is not related to this project's samples. No data requires qualification.

Batch R145030 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

WorkOrder:

14071088

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND O	Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK ·	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
Α	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III
Units Reported	Description
μg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-1

Collection Date: 7/17/2014 11:45 AM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-01

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-	FID		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 01:40 PM
Surr: 4-Terphenyl-d14	99.1		31-176	%REC	1	7/24/2014 01:40 PM
GASOLINE RANGE ORGANICS BY	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 06:18 PM
Surr: Toluene-d8	107		70-130	%REC	1	7/23/2014 06:18 PM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 01:05 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 01:05 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 01:05 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 01:05 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 01:05 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 01:05 AM
Surr: 1,2-Dichloroethane-d4	95.9		75-120	%REC	1	7/24/2014 01:05 AM
Surr: 4-Bromofluorobenzene	87.8		80-110	%REC	1	7/24/2014 01:05 AM
Surr: Dibromofluoromethane	96.6		85-115	%REC	1	7/24/2014 01:05 AM
Surr: Toluene-d8	95.3		85-110	%REC	1	7/24/2014 01:05 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-16

Work Order: 14071088

Lab ID: 14071088-02 Matrix: GROUNDWATER

Collection Date: 7/17/2014 12:40 PM

Report Dilution Analyses Result Qual Limit Units **Date Analyzed Factor** Prep: SW3511 / 7/23/14 **DIESEL RANGE ORGANICS BY GC-FID** SW8015M Analyst: IT

DRO (C10-C28)	ND	0.10	mg/L	1	7/24/2014 07:41 PM
Surr: 4-Terphenyl-d14	84.3	31-176	%REC	1	7/24/2014 07:41 PM
GASOLINE RANGE ORGANICS BY GO	-FID	SW801	5		Analyst: IT
GRO (C6-C10)	ND	200	μg/L	1	7/23/2014 06:44 PM
Surr: Toluene-d8	110	70-130	%REC	1	7/23/2014 06:44 PM
VOLATILE ORGANIC COMPOUNDS		SW826	0		Analyst: RS
Benzene	ND	1.0	μg/L	1	7/24/2014 01:29 AM
Ethylbenzene	ND	1.0	μg/L	1	7/24/2014 01:29 AM
m,p-Xylene	ND	2.0	μg/L	1	7/24/2014 01:29 AM
o-Xylene	ND	1.0	μg/L	1	7/24/2014 01:29 AM
Toluene	ND	1.0	μg/L	1	7/24/2014 01:29 AM
Xylenes, Total	ND	3.0	μg/L	1	7/24/2014 01:29 AM
Surr: 1,2-Dichloroethane-d4	94.6	75-120	%REC	1	7/24/2014 01:29 AM
Surr: 4-Bromofluorobenzene	88.0	80-110	%REC	1	7/24/2014 01:29 AM
Surr: Dibromofluoromethane	97.6	85-115	%REC	1	7/24/2014 01:29 AM
Surr: Toluene-d8	95.5	85-110	%REC	1	7/24/2014 01:29 AM

Client: C

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-15

Collection Date: 7/17/2014 01:45 PM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-03

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-F	ID		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 08:10 PM
Surr: 4-Terphenyl-d14	91.3		31-176	%REC	1	7/24/2014 08:10 PM
GASOLINE RANGE ORGANICS BY G	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 07:09 PM
Surr: Toluene-d8	109		70-130	%REC	1	7/23/2014 07:09 PM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 01:54 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 01:54 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 01:54 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 01:54 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 01:54 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 01:54 AM
Surr: 1,2-Dichloroethane-d4	98.0		75-120	%REC	1	7/24/2014 01:54 AM
Surr: 4-Bromofluorobenzene	87.0		80-110	%REC	1	7/24/2014 01:54 AM
Surr: Dibromofluoromethane	98.1		85-115	%REC	1	7/24/2014 01:54 AM
Surr: Toluene-d8	96.0		85-110	%REC	1	7/24/2014 01:54 AM

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-14

Collection Date: 7/17/2014 02:35 PM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-04

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 08:41 PM
Surr: 4-Terphenyl-d14	93.7		31-176	%REC	1	7/24/2014 08:41 PM
GASOLINE RANGE ORGANICS BY GC-I	FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 07:35 PM
Surr: Toluene-d8	108		70-130	%REC	1	7/23/2014 07:35 PM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 02:18 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 02:18 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 02:18 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 02:18 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 02:18 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 02:18 AM
Surr: 1,2-Dichloroethane-d4	98.6		75-120	%REC	1	7/24/2014 02:18 AM
Surr: 4-Bromofluorobenzene	86.0		80-110	%REC	1	7/24/2014 02:18 AM
Surr: Dibromofluoromethane	99.8		85-115	%REC	1	7/24/2014 02:18 AM
Surr: Toluene-d8	93.8		85-110	%REC	1	7/24/2014 02:18 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-10

Work Order: 14071088

Lab ID: 14071088-05

Collection Date: 7/17/2014 03:20 PM

Surr: Toluene-d8

Note:

1

Matrix: GROUNDWATER

Report Dilution Analyses Result Qual Limit Units **Date Analyzed Factor DIESEL RANGE ORGANICS BY GC-FID** Prep: SW3511 / 7/23/14 SW8015M Analyst: IT DRO (C10-C28) ND 0.10 mg/L 7/24/2014 09:11 PM Surr: 4-Terphenyl-d14 98.0 31-176 %REC 1 7/24/2014 09:11 PM **GASOLINE RANGE ORGANICS BY GC-FID** SW8015 Analyst: IT GRO (C6-C10) ND 200 μg/L 1 7/23/2014 08:00 PM Surr: Toluene-d8 109 70-130 %REC 1 7/23/2014 08:00 PM **VOLATILE ORGANIC COMPOUNDS** SW8260 Analyst: RS Benzene ND 1.0 μg/L 1 7/24/2014 02:43 AM Ethylbenzene ND 1.0 7/24/2014 02:43 AM μg/L 1 m,p-Xylene ND 2.0 μg/L 1 7/24/2014 02:43 AM o-Xylene ND 1.0 μg/L 1 7/24/2014 02:43 AM Toluene ND 1.0 μg/L 1 7/24/2014 02:43 AM μg/L Xylenes, Total ND 3.0 1 7/24/2014 02:43 AM Surr: 1,2-Dichloroethane-d4 99.8 75-120 %REC 7/24/2014 02:43 AM 1 Surr: 4-Bromofluorobenzene 87.0 80-110 %REC 1 7/24/2014 02:43 AM Surr: Dibromofluoromethane 101 85-115 %REC 1 7/24/2014 02:43 AM

85-110

%REC

93.3

7/24/2014 02:43 AM

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-12

Collection Date: 7/17/2014 04:25 PM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-06

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GO	C-FID		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 09:41 PM
Surr: 4-Terphenyl-d14	48.9		31-176	%REC	1	7/24/2014 09:41 PM
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 08:26 PM
Surr: Toluene-d8	109		70-130	%REC	1	7/23/2014 08:26 PM
VOLATILE ORGANIC COMPOUND	s		SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 03:07 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 03:07 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 03:07 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 03:07 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 03:07 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 03:07 AM
Surr: 1,2-Dichloroethane-d4	101		75-120	%REC	1	7/24/2014 03:07 AM
Surr: 4-Bromofluorobenzene	84.4		80-110	%REC	1	7/24/2014 03:07 AM
Surr: Dibromofluoromethane	99.6		85-115	%REC	1	7/24/2014 03:07 AM
Surr: Toluene-d8	93.6		85-110	%REC	1	7/24/2014 03:07 AM

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

Note:

GP-6

Collection Date: 7/17/2014 05:00 PM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-07

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-	-ID		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 10:41 PM
Surr: 4-Terphenyl-d14	98.6		31-176	%REC	1	7/24/2014 10:41 PM
GASOLINE RANGE ORGANICS BY	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 08:52 PM
Surr: Toluene-d8	112		70-130	%REC	1	7/23/2014 08:52 PM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 03:32 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 03:32 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 03:32 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 03:32 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 03:32 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 03:32 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 03:32 AM
Surr: 4-Bromofluorobenzene	85. <i>0</i>		80-110	%REC	1	7/24/2014 03:32 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 03:32 AM
Surr: Toluene-d8	94.4		85-110	%REC	1	7/24/2014 03:32 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

HP-4

Collection Date: 7/17/2014 05:30 PM

Work Order: 14071088

Lab ID: 14071088-08

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY G	C-FID		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 11:11 PM
Surr: 4-Terphenyl-d14	67.0		31-176	%REC	1	7/24/2014 11:11 PM
GASOLINE RANGE ORGANICS B	Y GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 09:43 PM
Surr: Toluene-d8	119		70-130	%REC	1	7/23/2014 09:43 PM
VOLATILE ORGANIC COMPOUND	s		SW826	0		Analyst: RS
Benzene	ND		.1.0	μg/L	1	7/24/2014 03:57 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 03:57 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 03:57 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 03:57 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 03:57 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 03:57 AM
Surr: 1,2-Dichloroethane-d4	100		75-120	%REC	1	7/24/2014 03:57 AM
Surr: 4-Bromofluorobenzene	86.5		80-110	%REC	1	7/24/2014 03:57 AM
Surr: Dibromofluoromethane	102		85-115	%REC	1	7/24/2014 03:57 AM
Surr: Toluene-d8	95. <i>4</i>		85-110	%REC	1 .	7/24/2014 03:57 AM

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

Note:

GP-13

Collection Date: 7/17/2014 06:00 PM

Work Order: 14071088

Cluci. 1107

Date: 29-Jul-14

Lab ID: 14071088-09

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FI	D		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/24/2014 11:41 PM
Surr: 4-Terphenyl-d14	73.0		31-176	%REC	1	7/24/2014 11:41 PM
GASOLINE RANGE ORGANICS BY GO	:-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 10:08 PM
Surr: Toluene-d8	107		70-130	%REC	1	7/23/2014 10:08 PM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 04:21 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 04:21 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 04:21 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 04:21 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 04:21 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 04:21 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 04:21 AM
Surr: 4-Bromofluorobenzene	85.3		80-110	%REC	1	7/24/2014 04:21 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 04:21 AM
Surr: Toluene-d8	93.8		85-110	%REC	1	7/24/2014 04:21 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-5

Collection Date: 7/18/2014 09:20 AM

Work Order: 14071088

Lab ID: 14071088-10

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GO	C-FID		SW801	5M	Prep: SW3511 / 7/23/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 12:11 PM
Surr: 4-Terphenyl-d14	61.9		31-176	%REC	1	7/25/2014 12:11 PM
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 10:34 PM
Surr: Toluene-d8	112		70-130	%REC	1	7/23/2014 10:34 PM
VOLATILE ORGANIC COMPOUND	S		SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 04:46 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 04:46 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 04:46 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 04:46 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 04:46 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 04:46 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 04:46 AM
Surr: 4-Bromofluorobenzene	86.6		80-110	%REC	1	7/24/2014 04:46 AM
Surr: Dibromofluoromethane	104		85-115	%REC	1	7/24/2014 04:46 AM
Surr: Toluene-d8	92.8		85-110	%REC	1	7/24/2014 04:46 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-3 (13-16)

Collection Date: 7/18/2014 10:00 AM

Work Order: 14071088

Lab ID: 14071088-11

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FIE)		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 03:11 AM
Surr: 4-Terphenyl-d14	104		31-176	%REC	1	7/25/2014 03:11 AM
GASOLINE RANGE ORGANICS BY GC	-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/23/2014 10:59 PM
Surr: Toluene-d8	110		70-130	%REC	1	7/23/2014 10:59 PM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 05:10 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 05:10 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 05:10 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 05:10 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 05:10 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 05:10 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 05:10 AM
Surr: 4-Bromofluorobenzene	85.2		80-110	%REC	1	7/24/2014 05:10 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	7/24/2014 05:10 AM
Surr: Toluene-d8	95.5		85-110	%REC	1	7/24/2014 05:10 AM

AES Group CSA, Corp

Client: CB&I Government Solutions, Inc.

Project: Williams Ice Canyon 7.17-7.18.14

Sample ID: GP-3 (6-9)

Collection Date: 7/18/2014 10:35 AM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-12

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-F	ID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	2.0		0.10	mg/L	1	7/25/2014 04:12 AM
Surr: 4-Terphenyl-d14	58.4		31-176	%REC	1	7/25/2014 04:12 AM
GASOLINE RANGE ORGANICS BY G	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	640		200	μg/L	1	7/24/2014 05:51 AM
Surr: Toluene-d8	123		70-130	%REC	1	7/24/2014 05:51 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 05:35 AM
Ethylbenzene	9.3		1.0	μg/L	1	7/24/2014 05:35 AM
m,p-Xylene	68		2.0	μg/L	1	7/24/2014 05:35 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 05:35 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 05:35 AM
Xylenes, Total	68		3.0	μg/L	1	7/24/2014 05:35 AM
Surr: 1,2-Dichloroethane-d4	97.9		75-120	%REC	1	7/24/2014 05:35 AM
Surr: 4-Bromofluorobenzene	93.8		80-110	%REC	1	7/24/2014 05:35 AM
Surr: Dibromofluoromethane	98.8		85-115	%REC	1	7/24/2014 05:35 AM
Surr: Toluene-d8	101		85-110	%REC	1 .	7/24/2014 05:35 AM

Note:

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-4 (13-16)

Collection Date: 7/18/2014 11:05 AM

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Work Order: 14071088

Lab ID: 14071088-13

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-I	FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 04:42 AM
Surr: 4-Terphenyl-d14	65.8		31-176	%REC	1	7/25/2014 04:42 AM
GASOLINE RANGE ORGANICS BY	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 06:16 AM
Surr: Toluene-d8	107		70-130	%REC	1	7/24/2014 06:16 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 06:00 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 06:00 AM
m,p-Xylene	2.5		2.0	μg/L	1	7/24/2014 06:00 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 06:00 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 06:00 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 06:00 AM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	7/24/2014 06:00 AM
Surr: 4-Bromofluorobenzene	86.3		80-110	%REC	1	7/24/2014 06:00 AM
Surr: Dibromofluoromethane	102		85-115	%REC	1	7/24/2014 06:00 AM
Surr: Toluene-d8	95. <i>4</i>		85-110	%REC	1	7/24/2014 06:00 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-4 (6-9)

Collection Date: 7/18/2014 11:40 AM

Work Order: 14071088

Lab ID: 14071088-14

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GO	-FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 05:12 AM
Surr: 4-Terphenyl-d14	88.1		31-176	%REC	1	7/25/2014 05:12 AM
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	460		200	μg/L	1	7/24/2014 07:07 AM
Surr: Toluene-d8	124		70-130	%REC	1	7/24/2014 07:07 AM
VOLATILE ORGANIC COMPOUNDS	5		SW826	0		Analyst: RS
Benzene	7.8		1.0	μg/L	1	7/24/2014 06:24 AM
Ethylbenzene	13		1.0	μg/L	1	7/24/2014 06:24 AM
m,p-Xylene	82		2.0	μg/L	1	7/24/2014 06:24 AM
o-Xylene	9.8		1.0	μg/L	1	7/24/2014 06:24 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 06:24 AM
Xylenes, Total	92		3.0	μg/L	1	7/24/2014 06:24 AM
Surr: 1,2-Dichloroethane-d4	100		75-120	%REC	1	7/24/2014 06:24 AM
Surr: 4-Bromofluorobenzene	97.3		80-110	%REC	1	7/24/2014 06:24 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/24/2014 06:24 AM
Surr: Toluene-d8	96.8		85-110	%REC	1	7/24/2014 06:24 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-9 Collection Date: 7/18/2014 12:05 PM

Work Order: 14071088

Lab ID: 14071088-15

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC	-FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	1.1		0.10	mg/L	1	7/25/2014 05:42 AM
Surr: 4-Terphenyl-d14	38.7		31-176	%REC	1	7/25/2014 05:42 AM
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 07:33 AM
Surr: Toluene-d8	107		70-130	%REC	1	7/24/2014 07:33 AM
VOLATILE ORGANIC COMPOUNDS	5		SW826	0		Analyst: RS
Benzene	ND		1.0	μg/ L	1	7/24/2014 06:49 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 06:49 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 06:49 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 06:49 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 06:49 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 06:49 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/24/2014 06:49 AM
Surr: 4-Bromofluorobenzene	90.6		80-110	%REC	1	7/24/2014 06:49 AM
Surr: Dibromofluoromethane	102		85-115	%REC	1	7/24/2014 06:49 AM
Surr: Toluene-d8	95.0		85-110	%REC	1	7/24/2014 06:49 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-7 Collection Date: 7/18/2014 12:40 PM

Work Order: 14071088

Lab ID: 14071088-16

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GO	C-FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	3.4		0.10	mg/L	1	7/25/2014 06:12 AM
Surr: 4-Terphenyl-d14	63.7		31-176	%REC	1	7/25/2014 06:12 AM
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 07:58 AM
Surr: Toluene-d8	97.1		70-130	%REC	1	7/24/2014 07:58 AM
VOLATILE ORGANIC COMPOUND	s		SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 07:14 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 07:14 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 07:14 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 07:14 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 07:14 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 07:14 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/24/2014 07:14 AM
Surr: 4-Bromofluorobenzene	85. <i>4</i>		80-110	%REC	1	7/24/2014 07:14 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/24/2014 07:14 AM
Surr: Toluene-d8	94.2		85-110	%REC	1	7/24/2014 07:14 AM

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-8

Collection Date: 7/18/2014 01:30 PM

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-17

Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY G	C-FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	3.0		0.10	mg/L	1	7/25/2014 06:42 AM
Surr: 4-Terphenyl-d14	89.5		31-176	%REC	1	7/25/2014 06:42 AM
GASOLINE RANGE ORGANICS BY	Y GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 08:24 AM
Surr: Toluene-d8	112		70-130	%REC	1	7/24/2014 08:24 AM
VOLATILE ORGANIC COMPOUND	s		SW826	0		Analyst: AK
Benzene	ND		1.0	μg/L	1	7/24/2014 03:55 PM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 03:55 PM
m,p-Xylene	. ND		2.0	μg/L	1	7/24/2014 03:55 PM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 03:55 PM
Toluene	. ND		1.0	μg/L	1	7/24/2014 03:55 PM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 03:55 PM
Surr: 1,2-Dichloroethane-d4	89.2		75-120	%REC	1	7/24/2014 03:55 PM
Surr: 4-Bromofluorobenzene	100		80-110	%REC	1	7/24/2014 03:55 PM
Surr: Dibromofluoromethane	96.2		85-115	%REC	1	7/24/2014 03:55 PM
Surr: Toluene-d8	97.4		85-110	%REC	1	7/24/2014 03:55 PM

See Qualifiers page for a list of qualifiers and their definitions.

Date: 29-Jul-14

Client:

CB&l Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

GP-11

Collection Date: 7/18/2014 03:30 PM

Work Order: 14071088

Lab ID: 14071088-18

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-	FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 07:12 AM
Surr: 4-Terphenyl-d14	50.7		31-176	%REC	1	7/25/2014 07:12 AM
GASOLINE RANGE ORGANICS BY	GC-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 08:49 AM
Surr: Toluene-d8	109		70-130	%REC	1	7/24/2014 08:49 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 07:38 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 07:38 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 07:38 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 07:38 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 07:38 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 07:38 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	7/24/2014 07:38 AM
Surr: 4-Bromofluorobenzene	84.8		80-110	%REC	1	7/24/2014 07:38 AM
Surr: Dibromofluoromethane	103		85-115	%REC	1	7/24/2014 07:38 AM
Surr: Toluene-d8	95.0		85-110	%REC	1	7/24/2014 07:38 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

Collection Date: 7/18/2014 02:15 PM

GP-2 (6-9)

Work Order: 14071088

Lab ID: 14071088-19

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FI	D		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	2.6		0.10	mg/L	1	7/25/2014 07:42 AM
Surr: 4-Terphenyl-d14	82.5		31-176	%REC	1	7/25/2014 07:42 AM
GASOLINE RANGE ORGANICS BY GO	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 09:15 AM
Surr: Toluene-d8	106		70-130	%REC	1	7/24/2014 09:15 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	4.1		1.0	μg/L	1	7/24/2014 08:03 AM
Ethylbenzene	3.8		1.0	μg/L	1	7/24/2014 08:03 AM
m,p-Xylene	22		2.0	μg/L	1	7/24/2014 08:03 AM
o-Xylene	1.1		1.0	μg/L	1	7/24/2014 08:03 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 08:03 AM
Xylenes, Total	23		3.0	μg/L	1	7/24/2014 08:03 AM
Surr: 1,2-Dichloroethane-d4	101		75-120	%REC	1	7/24/2014 08:03 AM
Surr: 4-Bromofluorobenzene	93.8		80-110	%REC	1	7/24/2014 08:03 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/24/2014 08:03 AM
Surr: Toluene-d8	97.4		85-110	%REC	1	7/24/2014 08:03 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

Note:

GP-2 (13-16)

Collection Date: 7/18/2014 02:55 PM

Work Order: 14071088

Lab ID: 14071088-20

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FIL)		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	7/25/2014 08:12 AM
Surr: 4-Terphenyl-d14	90.1		31-176	%REC	1	7/25/2014 08:12 AM
GASOLINE RANGE ORGANICS BY GC	-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 09:40 AM
Surr: Toluene-d8	107		70-130	%REC	1	7/24/2014 09:40 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: RS
Benzene	ND		1.0	μg/L	1	7/24/2014 08:27 AM
Ethylbenzene	ND		1.0	μg/L	1	7/24/2014 08:27 AM
m,p-Xylene	ND		2.0	μg/L	1	7/24/2014 08:27 AM
o-Xylene	ND		1.0	μg/L	1	7/24/2014 08:27 AM
Toluene	ND		1.0	μg/L	1	7/24/2014 08:27 AM
Xylenes, Total	ND		3.0	μg/L	1	7/24/2014 08:27 AM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	7/24/2014 08:27 AM
Surr: 4-Bromofluorobenzene	85.8		80-110	%REC	1	7/24/2014 08:27 AM
Surr: Dibromofluoromethane	105		85-115	%REC	1	7/24/2014 08:27 AM
Surr: Toluene-d8	94.4		85-110	%REC	1	7/24/2014 08:27 AM

Date: 29-Jul-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

Collection Date: 7/18/2014

FD

Work Order: 14071088

Lab ID: 14071088-21

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-	FID		SW801	5M	Prep: SW3511 / 7/24/14	Analyst: IT
DRO (C10-C28)	2.6		0.10	mg/L	1	7/25/2014 08:43 AM
Surr: 4-Terphenyl-d14	79.6		31-176	%REC	1	7/25/2014 08:43 AM
GASOLINE RANGE ORGANICS BY	C-FID		SW801	5		Analyst: IT
GRO (C6-C10)	ND		200	μg/L	1	7/24/2014 10:06 AM
Surr: Toluene-d8	92.9		70-130	%REC	1	7/24/2014 10:06 AM
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: BG
Benzene	ND		1.0	μg/L	1	7/23/2014 05:56 AM
Ethylbenzene	ND		1.0	μg/L	1	7/23/2014 05:56 AM
m,p-Xylene	ND		2.0	μg/L	1	7/23/2014 05:56 AM
o-Xylene	ND		1.0	μg/L	1	7/23/2014 05:56 AM
Toluene	ND		1.0	μg/L	1	7/23/2014 05:56 AM
Xylenes, Total	ND		3.0	μg/L	1	7/23/2014 05:56 AM
Surr: 1,2-Dichloroethane-d4	93.8		75-120	%REC	1	7/23/2014 05:56 AM
Surr: 4-Bromofluorobenzene	99.2		80-110	%REC	1	7/23/2014 05:56 AM
Surr: Dibromofluoromethane	95. <i>4</i>		85-115	%REC	1	7/23/2014 05:56 AM
Surr: Toluene-d8	94.4		85-110	%REC	1	7/23/2014 05:56 AM

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Williams Ice Canyon 7.17-7.18.14

Sample ID:

Trip Blank

Collection Date: 7/18/2014

Date: 29-Jul-14

Work Order: 14071088

Lab ID: 14071088-22

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW826	0		Analyst: BG
Benzene	NĐ		1.0	μg/L	1	7/23/2014 03:47 AM
Ethylbenzene	ND		1.0	μg/L	1	7/23/2014 03:47 AM
m,p-Xylene	ND		2.0	μg/L	1	7/23/2014 03:47 AM
o-Xylene	ND		1.0	μg/L	1	7/23/2014 03:47 AM
Toluene	ND		1.0	μg/L	1	7/23/2014 03:47 AM
Xylenes, Total	ND		3.0	μg/L	1	7/23/2014 03:47 AM
Surr: 1,2-Dichloroethane-d4	95. <i>4</i>		75-120	%REC	1	7/23/2014 03:47 AM
Surr: 4-Bromofluorobenzene	98.0		80-110	%REC	1	7/23/2014 03:47 AM
Surr: Dibromofluoromethane	94.4		85-115	%REC	1	7/23/2014 03:47 AM
Surr: Toluene-d8	92.9		85-110	%REC	1	7/23/2014 03:47 AM

Date: 29-Jul-14

QC BATCH REPORT

Client:

CB&I Government Solutions, Inc.

Work Order:

14071088

Williams Ice Canyon 7.17-7.18.14

Project: Batch ID: 60872 Instrument ID GC8 Method: SW8015M Sample ID: **DBLKW1-60872-60872** MBLK Units: mg/L Analysis Date: 7/24/2014 11:40 AM Client ID: Run ID: GC8 140724B SeqNo: 2862381 Prep Date: 7/23/2014 87 RPD 4 RPD Ref SPK Ref Control Value Limit Value Result PQL Analyte %REC ND DRO (C10-C28) 0.10 Surr: 4-Terphenyl-d14 0.1149 0 0.1143 0 101 31-176 0 Analysis Date: 7/24/2014 12:10 PM Sample ID: DLCSW1-60872-60872 Units: mg/L Run ID: GC8_140724B Client ID: SeqNo: 2862382 Prep Date: 7/23/2014 38 SPK Ref Control RPD Ref Limit Value : Limit * Value SPK Val %REC %RPD Analyte Result DRO (C10-C28) 5.68 0.10 11.43 49.7 35-95 0 0 0.1141 Surr: 4-Terphenyl-d14 0 0.1143 0 99.8 31-176 Sample ID: 14071088-01A MS Units: mg/L Analysis Date: 7/24/2014 12:40 PM Client ID: GP-1 Run ID: GC8_140724B SeqNo: 2862384 Prep Date: 7/23/2014 ŘPĎ RPD Ref SPK Ref Control Value .[™]PQL : SPK Val %REC Analyte DRO (C10-C28) 22.08 0.35 40 0 55.2 0 29-96 Surr: 4-Terphenyl-d14 0.4055 0.4 0 0 0 101 31-176 Sample ID: 14071088-01A MSD. MSD Units: mg/L Analysis Date: 7/24/2014 01:10 PM Client ID: GP-1 Run ID: GC8_140724B SeqNo: 2862386 Prep Date: 7/23/2014 DF: 1 1 July 1 RPD SPK Ref Control RPD Ref ्रै Limit Limit Qual Value Value Analyte ू PQL %REC %RPD Result SPK Val 21.04 DRO (C10-C28) 0.35 40 52.6 29-96 22.08 4.82 30 0.4199 Surr: 4-Terphenyl-d14 0.4 0 105 31-176 0.4055 3.49 30 The following samples were analyzed in this batch: 14071088-01A 14071088-02A 14071088-03A 14071088-04A 14071088-05A 14071088-06A

14071088-07A

14071088-10A

14071088-08A

14071088-09A

CB&I Government Solutions, Inc.

Work Order:

14071088

Williams Ice Canyon 7.17-7.18.14 Project: Batch ID: 60927 Instrument ID GC8 Method: SW8015M MBLK Sample ID DBLKW1-60927-60927 Units: mg/L Analysis Date: 7/25/2014 12:41 PM Client ID: SeqNo: 2862446 Prep Date: 7/24/2014 Run ID: GC8 140724B RPD 🌣 SPK Ref Control RPD Ref Value Limit Result Value %RPD SPK Val %REC Analyte .PQI DRO (C10-C28) ND 0.10 0.1244 Surr: 4-Terphenyl-d14 0 0 0.1143 109 31-176 LCS Sample ID: DLCSW1-60927-60927 Units: mg/L Analysis Date: 7/25/2014 01:11 AM Client ID: Run ID: GC8_140724B SeqNo: 2862420 Prep Date: 7/24/2014 RPD 2 SPK Ref RPD Ref Control Limit 🐇 Value Value Limit Analyte -Result PQL SPK Val %REC DRO (C10-C28) 5.457 0 0.10 11.43 0 47.7 35-95 Surr: 4-Terphenyl-d14 0.1164 0 0 0.1143 102 31-176 Sample ID: 14071161-01A MS MS . Units: mg/L Analysis Date: 7/25/2014 01:41 AM Client ID: Run ID: GC8_140724B SeqNo: 2862421 Prep Date: 7/24/2014 i DF: 1 RPD. SPK Ref **RPD** Ref Control Limit * Value Limit Value %ŘPD Qual Resul PQL SPK Val %REC Analyte DRO (C10-C28) 6.147 0.10 11.43 0 53.8 29-96 0 0.1192 Surr: 4-Terphenyl-d14 0.1143 104 31-176 Analysis Date: 7/25/2014 02:11 AM Sample ID: 14071161-01A MSD MSD Units: mg/L SeqNo: 2862423 Prep Date: 7/24/2014 Client ID: Run ID: GC8_140724B RPD. Control SPK Ref RPD Ref Limit Value Limit Value %RPD Qual Analyte PQL SPK Val %REC Result DRO (C10-C28) 5.976 0.10 11.43 0 52.3 29-96 6.147 2.82 30 0.1253 4.97 30 0 0.1143 0 31-176 Surr: 4-Terphenyl-d14 110 0.1192

14071088-11A	14071088-12A	14071088-13A
14071088-14A	14071088-15A	14071088-16A
14071088-17A	14071088-18A	14071088-19A
14071088-20A	14071088-21A	

CB&I Government Solutions, Inc.

Work Order:

14071088

Project: Williams Ice Canyon 7.17-7.18.14 Instrument ID GC9 Batch ID: R145002 Method: SW8015 Sample ID: GBLKW1-140723-R145002 Analysis Date: 7/23/2014 12:48 PM Units: µg/L Client ID: Run ID: GC9 140723A SeqNo: 2860245 Prep Date: 🧼 eprope Heri SPK Ref RPD Ref Control 🦔 GRO (C6-C10) ND 200 Surr: Toluene-d8 112.6 100 113 70-130 Sample ID: GLCSW1-140723-R145002 Analysis Date: 7/23/2014 12:22 PM Units: µg/L Run ID: GC9_140723A SeqNo: 2860244 Prep Date: SPK Ref RPD Ref Control Analyte ... 10320 GRO (C6-C10) 200 10000 0 103 70-130 n Surr: Toluene-d8 92.21 0 100 92.2 70-130 Sample ID: 1407976-01D MS Analysis Date: 7/23/2014 02:29 PM Units: µg/L Run ID: GC9 140723A SeqNo: 2860249 Prep Date: SPK Ref Control ARPD Ref Limit 🖰 %RPD Limit Value ↑Value %REC Result SPK Val Qual 12470 GRO (C6-C10) 200 10000 125 70-130 0 Surr: Toluene-d8 99.06 99.1 70-130 Sample ID: 1407976-01D MSD Analysis Date 7/23/2014 02:55 PM MSD Units: µg/L Client ID: Run ID: GC9_140723A SeqNo: 2860250 Prep Date: Control 🕪 RPD Ref SPK Ref Limit Qual PQL SPK Val %RPD %REC 11540 GRO (C6-C10) 200 10000 70-130 12470 7.77 30 0 115 92.68 Surr: Toluene-d8 0 100 0 92.7 70-130 99.06 6.65 30 The following samples were analyzed in this batch:

14071088-01B	14071088-02B	14071088-03B
14071088-04B	14071088-05B	14071088-06B
14071088-07B	14071088-08B	14071088-09B
14071088-10B	14071088-11B	

CB&I Government Solutions, Inc.

Work Order:

14071088

Project: Williams Ice Canyon 7.17-7.18.14 Batch ID: R145020 Instrument ID GC9 Method: SW8015 Sample ID: GBLKW2-140723-R145020 🗼 Units: µg/L Analysis Date: 7/23/2014 11:50 PM Client ID. Run ID: GC9_140723B SeqNo: 2860575 Prep Date `^{*} SPK Ref RPD GRO (C6-C10) ND 200 113.5 Surr: Toluene-d8 100 70-130 LCS Sample ID: GLCSW2-140723-R145020 Units: µg/L Run ID: GC9 140723B SeqNo: 2860574 Prep Date: SPK Ref GRO (C6-C10) 9944 200 10000 99.4 70-130 0 91.94 Surr: Toluene-d8 100 91.9 70-130 Units:µg/L Sample ID: 14071153-01A MS Analysis Date: 7/24/2014 12:41 PM Client ID Run ID: GC9_140723B SeqNo 2860605 Prep Date: SPK Ref Control on RPD Ref Value Limit Value PQL - SPK Val %REC 6944 GRO (C6-C10) 200 10000 0 694 70-130 0 S 102.3 Surr: Toluene-d8 102 70-130 Sample ID: 14071153-01A MSD MSD Analysis Date: 7/24/2014 01:06 AM Units: µg/L Client ID: SeqNo: 2860577 Run ID: GC9_140723B Prep Date: Control RPD Ref Limit Value % RPD Qual %REC GRO (C6-C10) 7617 200 10000 0 76.2 70-130 6944 9.24 30 102.5 0 100 70-130 102.3 0.244 30 Surr: Toluene-d8 0 103 The following samples were analyzed in this batch:

14071088-12B	14071088-13B	14071088-14B
14071088-15B	14071088-16B	14071088-17B
14071088-18B	14071088-19B	14071088-20B
14071088-21B		

CB&I Government Solutions, Inc.

Work Order:

14071088

Project:

Williams Ice Canyon 7.17-7.18.14

Batch ID: R144965	Instrument ID VMS6		Method	SW8260				
MBLK Samp Client ID: Analyte		ID: VM\$6_	140722B	SPK Ref	qNo: 285 9	509 Control	Analysis Date: 7 Prep Date: RPD Ref Value: %RPD	DF: 1
Benzene	ND	1.0						
Ethylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
o-Xylene	ND	1.0						
Toluene	ND	1.0						
Xylenes, Total	ND	3.0						
Surr: 1,2-Dichloroethane-	d4 19.31	0	20	0	96.6	75-120	0	
Surr: 4-Bromofluorobenze		0	20	0	100	80-110	0	
Surr: Dibromofluorometh	ane 19.09	0	20	0	95.4	85-115	0	
Surr: Toluene-d8	18.46	0	20	0	92.3	85-110	0	
LCS Sam Client ID: Analyte	le ID: VLCSW2-140722-R	ID: VMS6_	140722B	: Se	eqNo: 285 9	508	Analysis Date: Prep Date: RPD Ref Value %RPD	DF:1
Benzene	20.41	1.0	20	0	102	85-125	0	
Ethylbenzene	. 19.49	1.0	20	0	97.4	85-125	0	
m,p-Xylene	38.93	2.0	40	0	97.3	75-130	0	
o-Xylene	19.91	1.0	20	0	99.6	80-125	0	
Toluene	19.03	1.0	20	0	95.2	85-125	0	
Xylenes, Total	58.84	3.0	60	0	98.1	80-126	0	
Surr: 1,2-Dichloroethane	-d4 19.01	0	20	0	95	75-120	0	
Surr: 4-Bromofluorobenz	ene 20.39	0	20	0	102	80-110	0	
Surr: Dibromofluorometh	ane 20.1	0	20	0	100	85-115	0	
Surr: Toluene-d8	18.47	0	20	0	92.4	85-110	0	
MS Sam Client ID: Analyte	ole ID: 14071051-05A MS Run Result	ID: VMS6_	140722B SPK Vál	Š	eqNo: 285 9	9635	RPD Ref	DF:1
Benzene	12.98	1.0	10	0	130	85-125	0	S
Ethylbenzene	12.45	1.0	10	0	124	85-125	0	
m,p-Xylene	24.86		20	0	124	75-130	0	
o-Xylene	12.52	1.0	10	0	125	80-125	0	S
Toluene				_				
	12.42	1.0	10	0	124	85-125	0	
Xylenes, Total	12.42 37.38	3.0	10 30	0	124 125	85-125 80-126	0	
Xylenes, Total Surr: 1,2-Dichloroethane	12.42 37.38	3.0						
	12.42 37.38 -d4 18.61	3.0	30	. 0	125	80-126	0	
Surr: 1,2-Dichloroethane	12.42 37.38 -d4 18.61 ene 20.6	3.0 0 0	30 20	0	125 93	80-126 75-120	0	

CB&I Government Solutions, Inc.

Work Order:

14071088

Project:

Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R144965	Instrument ID VMS6		Method	SW8260						
MSD San Client ID: Analyte	nple ID 14071051-05A MSD Run II Result	O VMS6_1	i i	4	Jnits: µg/l qNo: 285 %REC	was allered to a	Prep Date:	s Date: 7/2	23/2014 12 DF: 1 RPD	
Benzene	12.63	1.0	10	0	126	85-125	12.98	2.73	30	s
Ethylbenzene	11.82	1.0	10	0	118	85-125	12.45	5.19	30	
m,p-Xylene	23.77	2.0	20	0	119	75-130	24.86	4.48	30	
o-Xylene	11.88	1.0	10	0	119	80-125	12.52	5.25	30	
Toluene	11.79	1.0	10	0	118	85-125	12.42	5.2	30	
Xylenes, Total	35.65	3.0	30	0	119	80-126	37.38	4.74	30	
Surr: 1,2-Dichloroethane	e-d4 19.2	0	20	0	96	75-120	18.61	3.12	30	
Surr: 4-Bromofluoroben:	zene 20.43	0	20	0	102	80-110	20.6	0.829	30	
Surr: Dibromofluorometh	nane 19.62	0	20	0	98.1	85-115	19.38	1.23	30	
Surr: Toluene-d8	18.58	0	20	0	92.9	85-110	18.9	1.71	30	
The following samples w	ere analyzed in this hatch:	140	71088-21B	14071	N88-22A					

14071088-21B

14071088-22A

CB&I Government Solutions, Inc.

Work Order:

14071088

Project:

Williams Ice Canyon 7.17-7.18.14

Batch ID: R145011 Instru	ment ID VMS9		Method:	SW8260			
Client in:	VBLKW2-140723-R14 Run ID Result	. VIVIOS 14	0723B SPK Val	Sec	No: 286 1	1006	Analysis Date: 7/24/2014 12:40 PM Prep Date: DF: 1 RPD Ref RPD Limit Qual
Benzene	ND	1.0	 	- Japan - Japan	gr 6 ,3	* PR. 424 (84)	The first of the state of the s
Ethylbenzene	ND	1.0					
m,p-Xylene	ND	2.0					
o-Xylene	ND	1.0					
Toluene	ND	1.0					
Xylenes, Total	ND	3.0					
Surr: 1,2-Dichloroethane-d4	19.38	0	20	0	96.9	75-120	0
Surr: 4-Bromofluorobenzene	17.54	0	20	0	87.7	80-110	0
Surr: Dibromofluoromethane	19.21	0	20	0	96	85-115	0
Surr: Toluene-d8	19.01	0	20	0	95	85-110	0
LCS Sample ID Client ID:	VLCSW2-140723-R14 Run ID Result	VMS0 14	0723B	1 500	No 2060	0003	Analysis Date: 7/23/2014 11:26 PM Prep Date: DF: 1 RPD Ref RPD Limit Qual
Benzene	19.88	1.0	20	0	99.4	85-125	0
Ethylbenzene	19.49	1.0	20	0	97.4	85-125	0
m,p-Xylene	39.71	2.0	40	0	99.3	75-130	0
o-Xylene	19.8	1.0	20	0	99	80-125	0
Toluene	20.95	1.0	20	0	105	85-125	0
Xylenes, Total	59.51	3.0	60	0	99.2	80-126	0
Surr: 1,2-Dichloroethane-d4	17.7	0	20	0	88.5	75-120	0
Surr: 4-Bromofluorobenzene	21.03	0	20	0	105	80-110	0
Surr: Dibromofluoromethane	18.12	0	20	0	90.6	85-115	0
Surr: Toluene-d8	20.1	0	20	0	100	85-110	00
Client ID: GP-10	14071088-05B MS Run ID Result	: VMS9_14	0 723B	Seq PK Ref	INo: 286 1	1004 Control	Analysis Date: 7/24/2014 09:17 AM Prep Date: DF: 1 RPD Ref RPD Limit Qual
Benzene	20.87	1.0	20	0	104	85-125	0
Ethylbenzene	18.74	1.0	20	0	93.7	85-125	0
m,p-Xylene	38.43	2.0	40	0	96.1	75-130	0
o-Xylene	18.8	1.0	20	0	94	80-125	0
Toluene	20.5	1.0	20	0	102	85-125	0
Xylenes, Total	57.23	3.0	60	0	95.4	80-126	0
	19.2	0	20	0	96	75-120	0
Surr: 1,2-Dichloroethane-d4							
Surr: 4-Bromofluorobenzene	. 20.93	0	20	0	105	80-110	0
·		0 0 0	20 20 20	0 0 0	105 97.9 101	80-110 85-115 85-110	0 0 0

CB&I Government Solutions, Inc.

Work Order:

14071088

Project:

Williams Ice Canvon 7.17-7.18.14

Batch ID: R145011	Instrument ID	VMS9		Method:	SW8260						
MSD S Client ID: GP-10 Analyte	amplé ID: 140710	. My	VMS9_14	0 - 1		Jnits: µg/l qNo: 286	A Secondary	Analysis Prep Date: RPD Ref	Date 7/: %RPD	24/2014 C DF: 1 RPD Limit	09:41 AM Qual
Benzene		20.75	1.0	20	0	104	85-125	20.87	0.577	30	
Ethylbenzene		18.5	1.0	20	0	92.5	85-125	18.74	1.29	30	
m,p-Xylene		37.97	2.0	40	0	94.9	75-130	38.43	1.2	30	
o-Xylene		18.43	1.0	20	0	92.2	80-125	18.8	1.99	30	
Toluene		20.27	1.0	20	0	101	85-125	20.5	1.13	30	
Xylenes, Total		56.4	3.0	60	0	94	80-126	57.23	1.46	30	
Surr: 1,2-Dichloroetha	ane-d4	19.12	0	20	0	95.6	75-120	19.2	0.418	30	
Surr: 4-Bromofluorob	enzene	20.62	0	20	0	103	80-110	20.93	1.49	30	
Surr: Dibromofluorom	nethane	19.38	0	20	0	96.9	85-115	19.58	1.03	30	
Surr: Toluene-d8		19.98	0	20	0	99.9	85-110	20.15	0.847	30	
The following samples	were analyzed ir	n this batch:	1407 1407 1407 1407	71088-01B 71088-04B 71088-07B 71088-10B 71088-13B 71088-16B	14071 14071 14071 14071	088-02B 088-05B 088-08B 088-11B 088-14B 088-17B	140 [°] 140 [°] 140 [°] 140 [°]	71088-03B 71088-06B 71088-09B 71088-12B 71088-15B 71088-18B			

14071088-19B

14071088-20B

CB&I Government Solutions, Inc.

Work Order:

14071088

Project:

Williams Ice Canyon 7.17-7.18.14

Batch ID: R145030	Instrument ID VMS7		Method	: SW8260				
MBLK Sam Client ID: Analyte		ID. VMS7	_ 140724A SPK Val	in a Se	Units:µg/l	1807	Analysis Date: 7/ Prep Date: RPD Ref Value %RPD	
Benzene	ND	1.0						
Ethylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						<u> </u>
o-Xylene	ND	1.0						
Toluene	ND	1.0						
Xylenes, Total	ND	3.0						
Surr: 1,2-Dichloroethane-	-d4 17.76	0	20	0	88.8	75-120	0	
Surr: 4-Bromofluorobenz		0	20	0	97.1	80-110	0	
Surr: Dibromofluorometh		0	20	0	96.8	85-115	0	
Surr: Toluene-d8	19.51	0	20	0	97.6	85-110	0	
LCS Sam Client ID: Analyte	ple ID: VLCSW1-140724- R Run Result	ID VMS7		SPK Ref	Units: µg/l eqNo: 286 %REC	1806	Analysis Date: 7// Prep Date: RPD Ref Value %RPD	24/2014 09:08 AM DF: 1 RPD Limit Qual
Benzene	19.97	1.0	20	0	99.8	85-125	0	
Ethylbenzene	20.63	1.0	20	0	103	85-125	0	
m,p-Xylene	41.21	2.0	40	0	103	75-130	0	
o-Xylene	20.28	1.0	20	0	101	80-125	0	
Toluene	20.4	1.0	20	0	102	85-125	0	
Xylenes, Total	61.49	3.0	60	0	102	80-126	0	
Surr: 1,2-Dichloroethane-	-d4 17.18	0	20	0	85.9	75-120	0	
Surr: 4-Bromofluorobenze	ene 19.13	0	20	0	95.6	80-110	0	
Surr: Dibromofluoromethi	ane 19.39	0	20	0	97	85-115	0	
Surr: Toluene-d8	19.44	0	20	0	97.2	85-110	0	
MS Sam Client ID:	Run	ÎD: VM\$7 _	140724A	≅ Se	Jnits: µg/L aNo: 286 :	2010 Control	Analysis Date: 7 /2 Prep Date: RPD Ref Value %RPD	DF: 2000
Benzene	52580	2,000	40000	23940	71.6	85-125	0	S
Ethylbenzene	43760	2,000	40000	17740	65	85-125	0	S
m,p-Xylene	87600	4,000	80000	37720	62.4	75-130	0	S
o-Xylene	43540	2,000	40000	18380	62.9	80-125	0	S
Toluene	77700	2,000	40000	89460	-29.4	85-125	0	S
Xylenes, Total	131100	6,000	120000	56100	62.5	80-126	0	S
Surr: 1,2-Dichloroethane-	d4 35120	0	40000	0	87.8	75-120	0	
Surr: 4-Bromofluorobenze	ene 38560	0	40000	0	96.4	80-110	0	
Surr: Dibromofluorometha	ane 38640	0	40000	0	96.6	85-115	0	
Surr: Toluene-d8	38540	0	40000	0	96.4	85-110	0	

CB&I Government Solutions, Inc.

Work Order:

14071088

Project:

Williams Ice Canyon 7.17-7.18.14

QC BATCH REPORT

Batch ID: R145030 Instrument ID	VMS7		Method	i: SW8260						
MSD Sample ID: 140710 Client ID:). VMS7_	140724A	ata ka was	Jnits: µg/l	a symmetry and	Analysis Prep Date:	Date 7/2	24/2014 07 DF: 200	13 2 138 3
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52860	2,000	40000	23940	72.3	85-125	52580	0.531	30	S
Ethylbenzene	44520	2,000	40000	17740	67	85-125	43760	1.72	30	S
m,p-Xylene	88780	4,000	80000	37720	63.8	75-130	87600	1.34	30	S
o-Xylene	43760	2,000	40000	18380	63.4	80-125	43540	0.504	30	S
Toluene	77700	2,000	40000	89460	-29.4	85-125	77700	0	30	S
Xylenes, Total	132500	6,000	120000	56100	63.7	80-126	131100	1.06	30	S
Surr: 1,2-Dichloroethane-d4	34700	0	40000	0	86.8	75-120	35120	1.2	30	
Surr: 4-Bromofluorobenzene	39240	0	40000	0	98.1	80-110	38560	1.75	30	
Surr: Dibromofluoromethane	38100	0	40000	0	95.2	85-115	38640	1.41	30	
Surr: Toluene-d8	38720	0	40000	0	96.8	85-110	38540	0.466	30_	

The following samples were analyzed in this batch:

14071088-17B



Cincinnati. Olt +1 513 733 5336

Everett WA

Fort Collins, CO +1 970 490 1511

Chain of Custody Form

Houston, TX +1 281 530 5656 Spring City, PA +1 610 948 4903 South Charleston, WV +1 304 356 3168

Middletown, PA +1 717 944 5541 Salt Lake City, UT +1 801 266 7700

York, PA +1 717 505 5280

Environmental

Holland, MI Page +1 425 356 2600 +1 616 399 6070

COC ID:

ALS Project Manager: ALS Work Order #: Customer Information Project Information Parameter/Method Request for Analysis **Purchase Order** Project Name Willams **GRO C6-C10** Work Order Project Number BTEX by EPA 8260 Company Name CB& Government Solutions, Inc. Bill To Company CB& Government Solutions, Inc. **DRO C10-C28** Send Report To Mark Finney Invoice Attn Mark Finney 11208 Thompson Ave. 11206 Thompson Ave *Address Address 13 City/State/Zio Lenexa, K5 66219 Gity/State/Zip Leneva, KS 66219 Phone (913) 317-3591 Phone (813) 317-3591 Fax Fax e-Mail Address e-Mail Address Sample Description Date Matrix # Bottles 10 P. GW 3 LVO :3. GW HCL . GW ·C/ x VDA Novie GW 3 x VOA 1 GW NONE 3 XVQA GW BKVO Gw 3 XVOA 17 NONE 15:20 Sampler(s) Please Print & Sign Shipment Method / 18 Required Turnaround Time: (Check Box) Results Due Date TAMES GROVER Timer ID 100 T GLOVER Ex drip Religquished by: Cooler Temp GC Package. (Check One Box Below) 1 4 1 to Lavel | Std QC TRRP CheckLat Logged by (Laboratory): 4.20 Level It Std QC/Raw Data TRRP LEVELS Level IV SW848/CLP Preservative Key: 1-HCI 2-HNO. 3-H.SO 5-Na₃S₂O 9-5035

^{1.} Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions taked on the reverse. the Chain of Custody is a legal document. All information must be completed accurately.



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Everett, WA +1 425 356 2600

Fort Collins, CO +1 970 490 1511 Holland, MI +1 616 399 6070

Chain of Custody Form

COC ID:

Page 2 of 5

108074

Houston, TX +1 281 530 5656 Mkidjetown, PA +1 717 944 5541

Spring City, PA Sait Lake City, UT.

+1 801 266 7700

South Charleston, WV +1 304 356 3168

York, PA +1 717 505 5280

		ALS Project	Manager:	A	LS Work Order #: 1407106
Customer Information		Project Information		Parameter/	Method Request for Analysis
Purchase Order	Project Name	Willame	A	GRO 05-C10	
Work Order	Project Number		, 8	BTEX by EPA 8260	
Company Name : CB&I Government Solutions, Inc.	Bill To Company	CB& Government Solutions.	Ino.	DRO C10-C28	
Send Report To Mark Finney	Invoice Attn	Mark Finney	D		
11206 Thompson Ave.	Address	11208 Thompson Ave.	E		
Chty/State/Zip Lenexa, KS 86219	City/State/Zip	Lenexe, KS, 66219	9		
Phone (913) 317-3591	Phone	(913) 317-3591			
	To go way Fax				
# Mail Address No. Sample Description	e-Mail Address	me Matrix Pres	# Bottles A		E E C HULLING U HOID
VW-GP-12	07/17/14 16	ACTION OF THE PROPERTY OF THE	3×VOA		
₩ GP=12		25 GW HCL	3 XVOA X	X	
W GP=6	07/17/14 17:	00 GW NONE	3 XUDA	X	
× 1 GP =6	A 17 //A	oo Gw Hu	3×V04 X	\mathbf{X}	
WH 4		30 GW None	3×104		
A B HP = A	07/17/14 17	30 6W ACL	3xVOA X	\times [] \square	
WAGP B		00 GW Nove	3xV0A	X	
WBGP=13.	07/17/4 18	o Gu Ha	3xVOA X	X	
MAGR25	07/18/14 09	20 GW NONE	3XVOA		
ing GP=5	07/18/14 09	20 6W HU	EXVOA X	X	
Sampleris) Please Print & Sign JAMES GLOVER	Shipment Meth	od A Required Turnaro	ound Time: (Chack B	lox)	Results Due Date:
quished by Date:	Time: Receive	ed by:	Notes:	Feditive Dop	
Relinquished by: Detg:		ed by (Laboratory):	Cool	The result of the state of the	QC Package: (Clieck One Box Belgw)
Logged by (Laboratory): (B) Date: 1/2//3	Time: Received the Communication of the Communicati	naHSØ Other 8-4°C		<u> </u>	☑ Level II Std OC

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.



Logged by (Laboratory):

Preservative Key: 1-HCI

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Fort Collins, CO +1 970 490 1511 Holland, MI +1 425 356 2600 +1 616 399 6070

Chain of Custody Form

Page 3 of 5

Houston, TX +1 281 530 5656 Middletown, PA

+1 717 944 5541

Spring City, PA +1:610 948 4903 South Charleston, WV +1 304 356 316R

Salt Lake City, UT +1 801 266 7700

York: PA +1 717 505 5280

COC ID: ALS Project Manager: ALS Work Order #: Customer Information Project Information Parameter/Method Request for Analysis Purchase Orde Project Name Williams **GRO C6-C10** Work Order Project Number BTEX by EPA 8260 Company Name CB& Government Solutions, Inc. Bill To Company CB&I Government Solutions, inc DRO C10-C28 Send Report To Invoice Attn Mark Finney Mark Finney 11208 Thompson Ave. 11206 Thompson Ave. Address Address 21 1960 City/State/Zip City/State/Zip Lenexa, KS 66219 Lenexa, KS 68219 Phone (913) 317-3591 Phone (913) 317-3591 Fax Fax e Mail Address e-Mail Address Sample Description # Bottles Hold GU 3 x VO 10:0C GW 1 10:35 GW Nave 3xVOA 10,35 GW 3XUOA GW 3xVDA NONE Gw 3×VOA GW 3xV0A Ų. GW SXVOA للل 3 KUOA :05 None Ew) : OS Sampler(s) Please Print & Sign Required Turnaround Time: (Check Box) Results Due Date: Shipment Method * TAMES GLOVER Relinquished by: J Received by: Relinquished by: Cooler Temp .0930 Level II Std QC TRAP Check let

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

3-H SO 4-NaOH

2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

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5-Na.S.O.

TRIFF LINE IV

Level III, Still QC/Raw Data

Level IV BWB46/CLP



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Fort Collins, CO +1 970 490 1511 Holland, MI +1 616 399 6070

Chain of Custody Form

Page 4 of 5 COC ID:

108072

Houston, TX +1:281-530-5656 Middletown, PA +1 717 944 5541 Spring City, PA +1 610 948 4903

South Charleston, WV +1 304 356 3168

		100
٠, ٠	Salt Lake City, UT	York, PA
4	#1.801 266 7700	+1 717 505 5280

Enoughmentar.		ALS Project	Mänager:	ALS	Work Order #: 4071088
Customer Information		Project Information		Parameter/M	ethod Request for Analysis
Purchase Order	Project Name	Willams	A	GRO C6-C10	
Work Order	Project Number		В	BTEX by EPA 8260	
Company Name CB&I Government Solutions, Inc.	Bill To Company	CB& Government Solutions, I	nc C	DRO C10-C28	
Send Report To: Mark Finney	Invoice Attn	Mark Finney	D		
11206 Thompson Ave.	Address	11206 Thompson Ave	E		
Address			F		
City/State/Zip Lenexa, KS 66219	City/State/Zip_	, Lenexa, K\$ 68219	9		
Phone (913) 317-3591	Phone	(913) 317-9591	i i		
Fax	Fax		1		
e-Mail Address	e-Mail Address				
No Sample Description	Date T	ime - Matrix 🔻 Pres 🖟	# Bottles A A	B. C. O. FE	F. G. H. 1 1 J. J. Bold.
CA GP-7	07/18/4 12:	40 GW NOVE	3 x UOA	\rightarrow	
6 6 P-7	07/18/14 12	40 GW HCL	3×VOA X	\times	
11/1 GP-8	07/18/14 13:	30 GW Novice	3 × UOA		
NILGP-8	07/18/14 13:	30 GW HU	3x40A X	\times	
MAGP=11	07/18/14 +	GW NONE	3 x UOA	X	A STATE OF THE STA
18 GP = 11.		:30 GW HCL	3×U0A×	\times	
XIA GP-2 (6-9).	07/18/14 14:	15 GW NONE	3 x VOA		
WEGR = 2 (6-9)	07/18/14 14:	is Gw Hu	3×10A >	X	
134 GP - 2 (13-6)	07/18/14 14:	55 GW NOVE	3x00A	X	
1000 GP - 2 (13-16)	07/18/14 14	55 GW HCC	3XVOA X	X	
Sampler(s): Please Print & Sign	Shipment Meth	iod Required Turnaro	und Time; (Check Bo	ox)	Restilts Due Dete:
JAMES GLOVER Relinquished by:	Timet, Receiv	ed by:	Notes: 4		24Hdyr # 2
GLOVER 07/21/14		/ggtoy (Laboratory);	Notes:		4
1/2/H	-6930 /	2/h /2-1/	Coole	- I	Package: (Check One Box Below) ☑ Level II Still QC □ TRRP Check Lat
Topged by (Laboratory):	1439 Check	ep by (Laboratoey)		4446	Level III 8td QC/Raw Deta TRRS Level IV
December Value 4 U.O. 9 UNG 9 U.CO 4 No	du execo e	Names - Ab III a co	La conce		Travario sate or rr.

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Fort Collins, CO +1 970 490 1511 Everett, WA +1 425 356 2600 Holland, MI +1 616 399 6070

Chain of Custody Form

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Spring City, PA

+1 304 356 3168

Page 5 of 5

Middletows, PA 2+1 717 944 5541 Salt Lake City, UT +1 801 266 7700

York; PA +1.717.505.5280

Environmental		ALS Project Ma	nager:	ALS Work Order #: = 140 (1088)
Customer Information	Pro	Ject Information		Parameter/Method Request for Analysis
Purchase Order	, Project Name W	Illam's C	A	GRO C6-C10
Work Order	Project Number		8	BTEX by EPA 8260
Company Name GB&I Government Solutions, Inc.	Bill To Company, CE	3& Government Solutions, Inc.	G	DRO C10-C28
Send Report To Mark Finney	Invoice Attn Ma	ark Finney.	io '	
11208 Thompson Ave. Address	Address.	206 Thompson Ave	E	
City/State/Zip Lenexa, KB 66219	City/State/Zip	riexa, KS 66219	G	
Phone. (813) 317-3591	Phone (91	13) 317-3591	N. III	
Fax	Fax.			
e-Mai Address	e Mail Address			
No. Sample Description	Spate & Spatime.	A COMPANY OF THE STREET, BOTH AND ADDRESS OF THE STREET, BOTH	Bottles # JA-	B, C, C, D, E, F, G, H, J, Hold
	7/18/14		¢Vo'A	
	7/18/14		cVOA 🔀	
3 TRIP BLANK	7/11/14			
5				
6				
	/ CM			
9 /			10 10 Bas	
Sampler(s) Please Print & Sign. TAMES GLOVEZ	Shipment Method	Required Turneround	Time: (Check	Box) Results Due Date:
Relinquished by: T GLOVE Date: 07/2/14 Th	me: [O:CO: Received by:		VE Notes	redex Doe of
		(Laboratory):	Čoc	Der ID Cobler Temp Q Zackage: (Check One Box Below)
F7/72/H Logged by (Laboratory): 00 10 Telefin Ti	The second secon	(Laboratory)		LEL 7.07 Filewill Std.OC TREP Chebillat
Presetvative Kev. 19HGL 2-HNO 3-H.SO 4-Naol	1459 4 5-Na/50 ENAPS			Level IV SWING CORREST Date : TRRP Level IV

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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3. The Chain of Custody is a legal document, All information must be completed accurately.

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Sample Receipt Checklist

Client Name:	CB&I - LENEXA				Date/Time F	Received:	<u>22-Jul-</u>	14 09:30	<u>)</u>	
Work Order:	14071088				Received by	y:	<u>BAB</u>			
Checklist comp	pleted by Baylan Bosworth eSignature	2	22-Jul-14 Date		Reviewed by:	Dan Pres eSignature	tan			23-Jul-14 Date
Matrices: Carrier name:	<u>Groundwater</u> <u>FedEx</u>	ı							!	
Shipping conta	iner/cooler in good condition?		Yes	✓	No 🗌	Not Pres	ent [
Custody seals	intact on shipping container/coole	r?	Yes	V	No 🗆	Not Pres	ent [
Custody seals	intact on sample bottles?		Yes		No 🗆	Not Pres	ent 🛭			
Chain of custoo	dy present?		Yes	~	No 🗆					
Chain of custoo	dy signed when relinquished and	received?	Yes	V	No 🗆					
Chain of custo	dy agrees with sample labels?		Yes	✓	No 🗌					
Samples in pro	oper container/bottle?		Yes	✓	No 🗆					
Sample contain	ners intact?		Yes	V	No 🗆					
Sufficient samp	ole volume for indicated test?		Yes	V	No 🗆					
All samples red	ceived within holding time?		Yes	✓	No 🗀					
	p Blank temperature in compliance	ce?	Yes	✓	No 🗌					
Sample(s) rece	eived on ice? c)/Thermometer(s):		Yes 4.2°C	✓	No 🗆	C				-
Cooler(s)/Kit(s)	,							=		
Date/Time sam	nple(s) sent to storage:		7/22/2	014 2	2:39:55 PM			<u> </u>		
Water - VOA v	ials have zero headspace?		Yes	✓	No 🗌	No VOA vial	s submitt	ed 📙		
Water - pH acc	ceptable upon receipt?		Yes	✓	No 🗀	N/A				
pH adjusted? pH adjusted by	r:		Yes -		No 🗹	N/A L				
Login Notes:										
Client Contacte	ed:	Date Contacted:			Person	Contacted:				
Contacted By:		Regarding:								
Comments:								\neg		
Comments.										
Corrective A att	on:							_		
CorrectiveAction	OI1.								600 r	Page 1 of 1

BILL THIRD PARTY SAMPLE RECEIVING ALS GROUP USA, CORP 3352 128TH AVE HOLLAND MI 49424 TRK# 7800 3972 4231 STANDARD OVERNIGH XX GRRA

Align Open End of FedEx Pouch Here

OIL CONS. DIV DIST. 3

State of New Mexico

APR 06 2015

Form C-141

Revised August 8, 2011

Energy Minerals and Natural Resources

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

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

			Rel	ease Notific	ation	and Co	rrective A	ctio	1					
						OPERA:	OR			l Report				
		illiams Four				Contact	Kelsey Christi							
Address Facility Nat		00, Bloomfie eral	eld, NM	8/413		Telephone No. 505-632-4606 Facility Type Pipeline								
Surface Ow	ner Jicaril	la Apache N	ation	Mineral O	wner				API No	•				
			_			OF RE								
Unit Letter H	Section 12	Township 26N	Range 3W	Feet from the	North/	orth/South Line Feet from the East/West Line County Rio Arriba				County Rio Arriba				
	Latitude 36.50451° N Longitude -107.30341° W NATURE OF RELEASE													
T CD ala	ana Natara	1 Can Dalana	C		URE	·			T 37. 1 D	1 0 MCF				
Source of Re		ıl Gas Release ole	irom pip	eme			Release 917 MC lour of Occurrence			decovered 0 MCF Hour of Discovery				
						03/31/2015	, 10:00 AM			5, 10:00 AM				
Was Immedi] No 🗌 Not Re	quired	Bryce Han Hobson Sa	Kelly, NMOCD mond, Jicarilla O ndoval, Jicarilla A	Apache	Tribe							
By Whom? Was a Water						Date and Hour 04/01/2015 @ 2:15 PM MST If YES, Volume Impacting the Watercourse.								
was a water	course Reac		Yes 🗵] No		II IES, VC	nume impacting t	ne wa	iercourse.					
If a Waterco	urse was Im	pacted, Descr	be Fully.	*		<u> </u>								
		,	Ĭ	•										
Not Applical Describe Car		em and Reme	dial Actio	n Taken.*	•••									
While perfor immediately	ming routin shut in and	e duties Willia actions were t	ams Op T aken to re	ech discovered an epair the pipeline.	odor co	ming from a	pinhole leak on th	ie D2 I	ateral pipeli	ne. The pipeline was				
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*		<u>, </u>								
While repair Apache Tribe		line impacted	soil was c	liscovered. Remed	iation n	neasures are c	urrently taking pl	ace in	direct coord	ination with the Jicarilla				
regulations a public health should their or the enviro	Il operators or the envi- operations h nment. In a	are required to ronment. The ave failed to a	report an acceptant dequately acceptant of the acceptant	nd/or file certain re ce of a C-141 repo vinvestigate and re	elease no rt by the emediate	otifications are NMOCD m e contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive ac eport" eat to g	tions for rele does not reli round water	uant to NMOCD rules and cases which may endanger eve the operator of liability, surface water, human health ompliance with any other				
*****	(O						OIL CONS	SER\	/ATION	DIVISION				
J.L	y Chris	Lun			ļ		•							
						Approved by	Environmental S _I	peciali	st: / me	4/5-				
Signature:														
Printed Nam	e: Kelsey C	Christiansen	<u></u>					—т						
Title: Enviro	onmental S	pecialist				Approval Da	e: 4/7/15	,	Expiration l	Date:				
		christiansen@				Conditions o	Approval:			Attached				
Date: 04/01/2015 Phone: 505-632-4606														

* Attach Additional Sheets If Necessary

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

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

#NCS 15097 32278



State of New Mexico Energy Minerals and Natural Resources

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

OIL CONS. DIV DIST. 3

Form C-141
APR 0 6 2015 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA T	FOR	\triangleright] Initia	al Report		Final Report	
		illiams Four				Contact Kelsey Christiansen							
		00, Bloomfi	eld, NM	87413			lo. 505-632-46	06					
Facility Nar	ne Tribal	<u>C-11</u>	_]_]	Facility Type Pipeline							
Surface Ow	ner Jicari	lla Apache N	lation	Mineral C	wner				API No	·			
				LOCA	TION	OF REI	EASE						
Unit Letter	Section	Township	Range	Feet from the		North/South Line Feet from the East/West Line County							
O	5	26N	3W				•			Rio Arriba			
					l			l					
				Latitude <u>36.50</u>	892° N	Longitude	e - <u>107.16470° V</u>	<u>V</u>					
NATURE OF RELEASE													
Type of Rele	ase Conde	nsate			Volume of 5 BBL	Release Estimate	ed at	/olume I	Recovered 0	BBL			
Source of Release Valve							our of Occurrence, 01:40 PM			Hour of Disc 15, 01:40 PM			
Was Immedia	ate Notice (If YES, To				, 01.101			
			Yes _	No 🛛 Not Re	equired								
By Whom? Was a Water	D	-L > d0				Date and H		1 - W/-4					
was a water	course Read		Yes 🗵] No		HYES, VC	lume Impacting t	ine waterd	ourse.				
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*		<u> </u>							
Not Applicab	ole												
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*			"	 -					
				ech discovered a voeing taken for re				IIA pipeli	ne. The I	eak was imm	nediatel	y stopped	
		and Cleanup A					<u></u>						
									~ .				
and sent to H	all Environ		sis Labora	s been removed. I tory for analysis.									
	•												
regulations al public health should their of or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The ave failed to a	o report an acceptance adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 report investigate and rotance of a C-141	elease no ort by the emediate	otifications and NMOCD made contamination	nd perform correct arked as "Final Roon that pose a thre	ctive action eport" doe eat to grou	ns for reless not rele and water	eases which ieve the oper r, surface wa	may end ator of ter, hun	danger liability nan health	
							OIL CON:	SERVA	TION	DIVISIO	M		
Lela	y Chro	Lun)	(//	- </td	
Signature:						Approved by	Environmental S	pecialist:	(,	ng/	X		
Printed Name	e: Kelsey C	Christiansen								1			
Title: Enviro	nmental S	pecialist	·····			Approval Dat	e: 4/7/15	Ex	piration	Date:	<u>.</u>		
E-mail Addre	ess: kelsey.	christiansen@	williams.	com	(Conditions of	Approval:			Attached			
Date: (03/31/2015		P	hone: 505-632-46		<u>)</u>							

#NOS 1509732098

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

Release Notification and Corrective Action

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

_						OPERATOR Initial Report Final Report								
		illiams Four				Contact Kelsey Christiansen								
		00, Bloomfie	eld, NM	87413		Telephone No. 505-632-4606								
Facility Nar	ne 29-7					Facility Type Compressor Station								
Surface Ow	ner Privat	e		Mineral C	wner				API No),				
				LOCA	TIO	N OF RE	LEASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	West Line	County				
I	15	29N	7W							Rio Arriba				
			· .			·								
				Latitude <u>36.72</u>	<u>4454°N</u>	\ Longitud	e <u>107.553321°V</u>	<u>V</u>						
				NAT	URE	OF REL								
Type of Rele			1111				Release 642 MC			Recovered 0				
Source of Re	lease Autor	natic and Mar	nual Valve	:		01/28/15, 0	Iour of Occurrenc	e		Hour of Disc , 07:30 AM	covery			
Was Immedia	ate Notice (liven?				If YES, To			01/20/13,	, 01.30 ANI				
,, as minedi			Yes [No 🗌 Not Re	equired		n, NMOCD							
By Whom?	Kelsey Chr	istiansen			***************************************	Date and I	Iour 01/28/15 at	4:30 PN	1 ,	/				
Was a Water	course Reac					If YES, Vo	lume Impacting	the Wat	ercourse./	REC	EN	EUN		
_			Yes 🛚	No										
If a Watercou	irse was Im	pacted, Descri	be Fully.*								002	015		
Not Applicat	ole								\\	+EB	092	บเม		
Describe Cau	ise of Proble	em and Remed	lial Action	n Taken.*					-+	N.	/10C	D /		
automatic va	ive release a	ірргохипацету	3/6 MC1	CF of natural gas of natural gas an ner gas loss. Nece	a me m	anuai vaive n	rease approxima	iciy 2/4	the 29-7 Co MCF of na	ompressor-St atural gas. Po	ation.G	The		
Describe Are	a Affected	and Cleanup A	Action Tak	en.*				,						
No cleanup r	equired for	this gas releas	e.								,			
regulations a public health should their or or the enviro	Il operators or the environment operations h nment. In a	are required to conment. The ave failed to a	o report ar acceptant adequately CD accep	is true and comp nd/or file certain r we of a C-141 repo investigate and r stance of a C-141	elease nort by the emediat	otifications a e NMOCD m e contaminat	nd perform correct arked as "Final R con that pose a three the operator of	ctive act deport" of reat to g respons	ions for rel loes not rel round wate ibility for c	eases which ieve the oper r, surface wa compliance w	may end ator of l ter, hum vith any	langer liability nan health		
							OIL CON	<u>SERV</u>	<u>ATION</u>	DIVISIO	Ň	_		
Le	lang ()	histein	~			Approved by Environmental Specialist:								
Signature:										S V	,	{		
Printed Name	e: Kelsey C	hristiansen					7 ,			5				
Title: Environmental Specialist							te: 4//13/2	5	Expiration	Date:				
E-mail Addre	ess: kelsey.	christiansen@	williams.	com		Conditions of Approval:								
Date:	02/02/15		Pho	one: 505-632-460	6									
Attach Addi	tional Shee	ets If Necess			+	tNcs	15103 4	76	32	,				

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 Notification and Corrective Action													
						OPERA	ГOR		Initia	al Report [☐ Final Report			
Name of Co	mpany W	illiams Four	Corners	LLC		Contact Kelsey Christiansen								
		00, Bloomfi	eld, NM	87413			No. 505-632-46							
Facility Nat	ne 30-5 C	DP				Facility Type Compressor Station								
Surface Ow	ner Privat	e		Mineral C)wner	er API No.								
				LOCA	ATION	OF REI	LEASE							
Unit Letter L	Section 18	Township 30N	Range 5W	Feet from the	North/	North/South Line Feet from the East/West Line County Rio Arriba								
,	Latitude N <u>36.81163°</u> Longitude W <u>107.40396°</u>													
NATURE OF RELEASE														
Type of Rele	ase Natura	al Gas		11/21	CIU		Release 186.4 N	1CF	Volume I	Recovered 0 Mo	CF			
Source of Re						Date and I-	lour of Occurrence			Hour of Discov	ery			
Was Immedi	ote Notice (Given?				02/04/15, 1 If YES, To			02/04/15,	, 11:30 PM				
was minicul	ate Notice (Yes [] No 🛛 Not R	equired	11 123, 10	whom:							
By Whom?					-	Date and I-								
Was a Water	course Read		Yes 🗵] No		If YES, Vo	olume Impacting	the Wat	ercourse.					
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*										
Not Applicable														
	Describe Cause of Problem and Demodial Action Taken *													
 Williams per	sonnel disc	overed the du	np valve a	associated with the				ed to clo	ose. Appro	ximately 186 M	CF of natural			
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*										
No cleanup r	equired wit	h gas release.												
regulations a public health should their or or the enviro	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to	o report and acceptant adequately OCD accep	e is true and comp nd/or file certain n ce of a C-141 report investigate and notance of a C-141	elease no ort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct parked as "Final Rection that pose a thing the the operator of	ctive act deport" of reat to g respons	ions for rel does not rel round wate ibility for c	eases which ma ieve the operato r, surface water, compliance with	y endanger r of liability human health			
-	a						OIL CON	SERV	ATION	<u>DIVISION</u>	//			
Lelong Christian Signature:							Approved by Environmental Specialist:							
Printed Name							Whole			/				
Title: Enviro					-	Approval Da	7070		Expiration	Date:				
		christiansen@				Conditions o				Attached []			
Date: 02/10/ Attach Addi		ete If Naces		505-632-4606			/ 		RECE	WED >				
Auach Addi	uonai Sile	cis II Necess	ai y		AM	xs/{{	10348	83.	2 FED 1 0	0045				
							•	i	ro 13	2015				

* Attach Additional Sheets If Necessary

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.

Release Notification and Corrective Action													
						OPERA	ГOR		☐ Initi	ial Report	\boxtimes	Final Report	
		'illiams Four				Contact	Kelsey Christ						
		00, Bloomfi		87413		Telephone No. 505-632-4606							
Facility Nai	ne Ojito C	Compressor S	Station	·		Facility Type Compressor Station							
Surface Ow	ner Jicaril	la Apache N	lation	Mineral C	Owner	r API No.							
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter D	Section 7	Township 26N	Range 3W	Feet from the	North/	North/South Line Feet from the East/West Line County Rio Arriba							
				Latitude 36.50	697° N	Longitud	e - <u>107.19263° V</u>	<u>V</u>					
Type of Release Natural Gas Volume of Release 4,373 MCF Volume Recovered 0 MCF													
Source of Re							Release 4,373 M Iour of Occurrence	_		Recovered 0 Hour of Disc			
Source of Re	lease ranv	1					5, 07:30 AM	æ		15, 07:30 AM		_	
Was Immedi	ate Notice C					If YES, To	Whom?		·				
		\boxtimes	Yes _	No Not R	equired		n, NMOCD nmond, Jicarilla O	il and C	laa		C =	11 1	
By Whom?	Kelsey Chr	istiansen					lour 02/09/15 3:1		Jas				
Was a Water		hed?	_	-		If YES, Volume Impacting the Watercourse.							
		Ш	Yes 🗵	No						FE	B 1 9	2015	
If a Watercon	irse was lm	pacted, Descr	ibe Fully.	*	•	-t				\	 44/	1,0;0	
Not Applicat	ole									N	MO	CD)	
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.*			•			15:5	1111	-1 11	
	eather cond	itions causing		MCF of natural ga / to fail. The line									
Describe Are	a Affected a	and Cleanup A	Action Tal	ken.*								· · · · · · · · · · · · · · · · · · ·	
No cleanup	equired wit	h gas release.											
regulations a public health should their or or the environ	I operators or the envir operations h nment. In a	are required to comment. The ave failed to a	o report an acceptant adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 repo v investigate and r otance of a C-141	elease no ort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final Re on that pose a thre	tive act eport" d eat to gr	ons for rel oes not rel ound wate	leases which r lieve the opera er, surface wat	nay end ator of l er, hum	langer iability an health	
April and the control of the control							OIL CONS	SERV	ATION	DIVISIO	\overline{N}		
Lela	y Chris	lun				Approved by	Environmental Si	pecialist	: <i>1</i>	0 /	$\langle \rangle$		
Signature:			,	······································		Approved by Environmental Specialist:							
Printed Name	: Kelsey C	hristiansen											
Title: Enviro	nmental Sp	pecialist				Approval Dat	e: 4/13/16	<u> </u>	Expiration	Date:			
E-mail Addre	E-mail Address: kelsey.christiansen@williams.com						Conditions of Approval: Attached						
Date:	02/16/2015		P	hone: 505-632 - 46	506	,				<u> </u>			

LINCS 15/0351203

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

Release Notification and Corrective Action

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

					OPERA	ΓOR		☐ Initial Report ☐ Final Repo						
Name of Co	ompany: W	illiams Four	Corners	LLC		Contact: Ke	lsey Christianse	en		•				
		, Bloomfield					No.: (505) 632-4							
Facility Na	me: 29-6#2	Central Del	ivery Poi	nt		Facility Typ	e: Central Deliv	very Poi	nt					
Surface Ow	ner: Privat	e		Mineral Ov	wner	API No.								
	LOCATION OF RELEASE													
Unit Letter	Section	Township	Range			h/South Line	Feet from the	East/W	est Line	County				
A	19	29N	6W							Rio Arriba	1			
	Latitude 36.74497° N Longitude -107.44417° W													
Type of Release: Natural Gas NATURE OF RELEASE Volume of Release: 1,377 MCF Volume Recovered: 0 MCF														
		ure Safety Val	ve (PSV)				Release: 1,3// N			Hour of Dis				
Source of Re		ure salety var				02/18/15 a				at 8:30 AM		•		
Was Immedi	ate Notice C		Yes 🔲	No Not Rec	quired	If YES, To Whom? Cory Smith, NMOCD								
By Whom?	Kelsey Chri	stiansen					lour: 02/18/2015		AM /	MEC	1 3 3	1		
Was a Water	course Reac		v 🔽	M.		If YES, Vo	olume Impacting	the Wate	rcourse.			'EU \		
	_		Yes 🛚	No					_	Ero.		\		
If a Waterco	urse was Im	pacted, Descri	be Fully.*							1 68 2	7 20	15		
By Whom? Kelsey Christiansen Was a Watercourse Reached? If Yes No If a Watercourse was Impacted, Describe Fully.* Not Applicable Describe Cause of Problem and Remedial Action Taken.* On February 17, 2015 compression maintenance was conducted on a unit. During the maintenance one of the valves was inadvertently left open-once										. /				
Describe Cause of Problem and Remedial Action Taken.*														
maintenance	On February 17, 2015 compression maintenance was conducted on a unit. During the maintenance one of the valves was inadvertently left open once the maintenance was complete and the unit was restarted. Approximately 1,377 MCF of natural gas was released. Williams personnel are in the process of preventing a reoccurrence.													
Describe Are	ea Affected	and Cleanup A	ction Tak	en.*					,					
No clean-up	required for	natural gas re	leases.											
regulations a public health should their or the enviro	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.													
Le	Long P	husten	<u>, </u>				OIL CON	SERV.	ATION	DIVISIO		-		
Signature:	-0 (9					Approved by	Environmental S	Specialist			4	2		
Printed Nam	e: Kelsey Cl	nristiansen						<u>-</u>		<u> </u>				
Title: Enviro	nmental Spe	ecialist				Approval Date: 4/13/15 Expiration Date:								
E-mail Addr							f Approval:		Attached					
Date: 01/06/	2015	Ph	one: (505)	632-4606			·							
* Attach Add	itional Shee	ets If Necessa	ary		~	Hoe	S 15/0	03	53	782				