R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

January <u>6</u>, 2015

Dr. Tomáš Oberding NMOCD District 1 1625 French Drive Hobbs, New Mexico 88240 *VIA EMAIL*

RE: Warrior BRW State Com. #1H Temporary Pit, In-place Burial Notice Unit D, Section 28, T23S, R35E, API #30-025-40220

Dr. Oberding:

On behalf of Yates Petroleum Corporation, R. T. Hicks Consultants is provides this notice to NMOCD with a copy to the State Land Office (certified, return receipt request) that closure operations at the above- referenced pit will begin on <u>Thursday</u>, <u>January 8 2015</u>. The closure process should require about two weeks, depending on the availability of machinery. The rig was released on October 27, 2014.

After hydraulic fracturing and flow-back were completed, 4-point composite samples were collected from the inner horseshoe cell, outer horseshoe cell, and from the clean soil of the berms (beneath the liner) of the pit on December 3, 2014 for laboratory analyses. The table below calculates the concentration for "3:1 stabilized" material to allow comparison with Table II the Pit Rule (Closure Criteria for Burial Trenches and Waste Left in Place in Temporary Pits). The formula use in the table below is:

3:1 Stabilized Solids = $\frac{(Outer Composite*0.66)+)(+(0.34*Inner Composite)+(Mixing Dirt*3))}{(+(0.34*Inner Composite)+(Mixing Dirt*3))}$

4

Well Name	Sample Name	Sample Type	Sample Date	Chloride <i>80,000</i>	Benzene <u>10</u>	BTEX 50	GRO+DRO 1000	TPH 418.1 2500	GRO+DRO+ DROext	GRO	DRO	MRO	т	E	x	Lab	Report
Warrior 1H Pit	Outer Composite		12/3/2014	22000	1.2	16.8	1080	2100	1080	170	910	0	5.6	2.7	7.3	Hall	2
Warrior 1H Pit	Inner Composite		12/3/2014	76000	0	0	0	0	0	0	0	0	0	0	0	Hall	2
Warrior 1H Pit	Mixing Dirt Comp.		12/3/2014	0	0	0	0	0	0	0	0	0	0	0	0	Hall	2
	3:1 Stabilized	CALCULATE	D	14355.00	0.10	1.39	,89.10	173.25	89.10		Ľ						_

The inner composite and outer composite ratio in the formula approximates the solids volume generated during drilling. The solids placed in the outer shoe are derived from drilling the surface casing string and production string. The inner shoe contains solids from drilling intermediate casing string.

Laboratory analyses <u>(attached)</u> of the component samples and the calculation of stabilized cuttings "demonstrate that, after the waste is solidified or stabilized with soil or other non-waste material at a ratio of no more than 3:1 soil or other non-waste material to waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters listed in Table II of 19.15.17.13 NMAC."

This letter is being transmitted to the surface owner via email (return receipt) Mail. A variance request regarding this action is attached to this letter.

I will follow up this notice with a phone call the day before closure begins.

Sincerely, R.T. Hicks Consultants

Mile Sulppier

Mike Stubblefield Project Manager

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Copy:

Yates Petroleum Corporation <u>Mr. Bill Angle</u> <u>Limestone Livestock LLC.</u> 76 Angle Road <u>Lovington</u>, NM <u>88260</u> CERTIFIED MAIL – RETURN RECIEPT REQUEST



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

December 17, 2014

Mike Stubblefield R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104 TEL: (505) 266-5004 FAX (505) 266-0745

RE: Warrior BRW State Com. 1H

OrderNo.: 1412356

Dear Mike Stubblefield:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/5/2014 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 <u>www.hallenvironmental.com</u> 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,

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Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1412356

Date Reported: 12/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Project: Warrior BRW State Com. 1H

Client Sample ID: Outer Comp. Collection Date: 12/3/2014 10:37:00 AM Presived Date: 12/5/2014 1:00:00 PM

Lab ID: 1412356-001	Matrix:	SOIL		Received Date: 12/5/2014 1:00:00 PM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analy	/st: BCN			
Diesel Range Organics (DRO)	910	99		mg/Kg	10	12/10/2014 10:15:50	AM 16741			
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	12/10/2014 10:15:50	AM 16741			
Surr: DNOP	0	63.5-128	S	%REC	10	12/10/2014 10:15:50	AM 16741			
EPA METHOD 8015D: GASOLINE RANG	GE					Analy	/st: NSB			
Gasoline Range Organics (GRO)	170	25		mg/Kg	5	12/11/2014 10:51:11	PM 16720			
Surr: BFB	173	80-120	S	%REC	5	12/11/2014 10:51:11	PM 16720			
EPA METHOD 8021B: VOLATILES						Analy	/st: NSB			
Benzene	1.2	0.12		mg/Kg	5	12/11/2014 10:51:11	PM 16720			
Toluene	5.6	0.25		mg/Kg	5	12/11/2014 10:51:11	PM 16720			
Ethylbenzene	2.7	0.25		mg/Kg	5	12/11/2014 10:51:11	PM 16720			
Xylenes, Total	7.3	0.50		mg/Kg	5	12/11/2014 10:51:11	PM 16720			
Surr: 4-Bromofluorobenzene	124	80-120	S	%REC	5	12/11/2014 10:51:11	PM 16720			
EPA METHOD 300.0: ANIONS						Analy	/st: Igp			
Chloride	22000	750		mg/Kg	500) 12/10/2014 5:12:42 F	°M 16758			
EPA METHOD 418.1: TPH						Analy	/st: JME			
Petroleum Hydrocarbons, TR	2100	200		mg/Kg	10	12/10/2014 12:00:00	PM 16737			

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
	0	RSD is greater than RSDlimit

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit Page 1 of 9
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1412356

Date Reported: 12/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Project: Warrior BRW State Com. 1H

Client Sample ID: Inner Comp. Collection Date: 12/3/2014 10:51:00 AM

Lab ID: 1412356-002	Matrix:	SOIL		Received Date: 12/5/2014 1:00:00 PM					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analy	st: BCN		
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/10/2014 10:45:39	AM 16741		
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2014 10:45:39	AM 16741		
Surr: DNOP	122	63.5-128		%REC	1	12/10/2014 10:45:39	AM 16741		
EPA METHOD 8015D: GASOLINE RAI	NGE					Analy	st: NSB		
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/11/2014 11:18:30	PM 16720		
Surr: BFB	110	80-120		%REC	1	12/11/2014 11:18:30	PM 16720		
EPA METHOD 8021B: VOLATILES						Analy	rst: NSB		
Benzene	ND	0.050		mg/Kg	1	12/11/2014 11:18:30	PM 16720		
Toluene	ND	0.050		mg/Kg	1	12/11/2014 11:18:30	PM 16720		
Ethylbenzene	ND	0.050		mg/Kg	1	12/11/2014 11:18:30	PM 16720		
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2014 11:18:30	PM 16720		
Surr: 4-Bromofluorobenzene	125	80-120	S	%REC	1	12/11/2014 11:18:30	PM 16720		
EPA METHOD 300.0: ANIONS						Analy	st: Igp		
Chloride	76000	15000		mg/Kg	1E	12/15/2014 6:44:04 P	M 16758		
EPA METHOD 418.1: TPH						Analy	st: JME		
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	12/10/2014 12:00:00	PM 16737		

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 S
- 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 9
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1412356

Date Reported: 12/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Project: Warrior BRW State Com. 1H

Client Sample ID: Mixing soil Collection Date: 12/3/2014 10:30:00 AM

Lab ID: 1412356-003	Matrix:	SOIL	Received	Received Date: 12/5/2014 1:00:00 PM					
Analyses	RL Q	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	st: BCN			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/10/2014 11:15:21	AM 16741			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/10/2014 11:15:21	AM 16741			
Surr: DNOP	104	63.5-128	%REC	1	12/10/2014 11:15:21	AM 16741			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/10/2014 3:31:39 A	M 16720			
Surr: BFB	90.9	80-120	%REC	1	12/10/2014 3:31:39 A	M 16720			
EPA METHOD 8021B: VOLATILES					Analys	st: NSB			
Benzene	ND	0.050	mg/Kg	1	12/10/2014 3:31:39 A	M 16720			
Toluene	ND	0.050	mg/Kg	1	12/10/2014 3:31:39 A	M 16720			
Ethylbenzene	ND	0.050	mg/Kg	1	12/10/2014 3:31:39 A	M 16720			
Xylenes, Total	ND	0.10	mg/Kg	1	12/10/2014 3:31:39 A	M 16720			
Surr: 4-Bromofluorobenzene	95.9	80-120	%REC	1	12/10/2014 3:31:39 A	M 16720			
EPA METHOD 300.0: ANIONS					Analys	st: Igp			
Chloride	ND	30	mg/Kg	20	12/10/2014 5:49:55 P	M 16758			
EPA METHOD 418.1: TPH					Analys	st: JME			
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	12/10/2014 12:00:00 I	PM 16737			

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
	0	RSD is greater than RSDlimit

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н

Page 3 of 9

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

WO#:	1412356
	17-Dec-14

Client: Project:	R.T. H Warrie	licks Consultants, L or BRW State Com	.TD . 1H							
Sample ID	MB-16758	SampType: N	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 1	6758	R	RunNo: 230	071				
Prep Date:	12/10/2014	Analysis Date:	12/10/2014	S	SeqNo: 681	1701	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.	5							
Sample ID	LCS-16758	SampType: L	.CS	Tes	tCode: EPA	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 1	6758	R	RunNo: 230	071				
Prep Date:	12/10/2014	Analysis Date:	12/10/2014	S	SeqNo: 681	1702	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.	5 15.00	0	93.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- S Spike Recovery 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
 - Р Sample pH greater than 2.
 - RL Reporting Detection Limit

WO#:	1412356

17-Dec-14

Client:	R.T. Hick	as Consulta	ants, LT	D							
Project:	Warrior H	3RW State	Com.	1H							
Sample ID	MB-16737	SampT	ype: ME	BLK	Test	tCode: El	PA Method	418.1: TPH			
Client ID:	PBS	Batch	ו ID: 16	737	R	unNo: 2	3041				
Prep Date:	12/9/2014	Analysis D	ate: 12	2/10/2014	S	eqNo: 6	80758	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	Irocarbons, TR	ND	20								
Sample ID	LCS-16737	SampT	ype: LC	s	Test	tCode: El	PA Method	418.1: TPH			
Client ID:	LCSS	Batch	ו ID: 16	737	R	unNo: 2	3041				
Prep Date:	12/9/2014	Analysis D	ate: 12	2/10/2014	S	eqNo: 6	80759	Units: mg/ #	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	Irocarbons, TR	120	20	100.0	0	118	80	120			
Sample ID	LCSD-16737	SampT	ype: LC	SD	Test	tCode: El	PA Method	418.1: TPH			
Sample ID Client ID:	LCSD-16737 LCSS02	SampT Batch	ype: LC ו ID: 16	:SD 737	Test	tCode: El	PA Method 3041	418.1: TPH			
Sample ID Client ID: Prep Date:	LCSD-16737 LCSS02 12/9/2014	SampT Batch Analysis D	ÿpe: LC 1 ID: 16 ate: 12	:SD 737 2/10/2014	Tesi R S	Code: EF	PA Method 3041 80769	418.1: TPH	(g		
Sample ID Client ID: Prep Date: Analyte	LCSD-16737 LCSS02 12/9/2014	SampT Batch Analysis D Result	iype: LC 1 ID: 16 ate: 12 PQL	SD 737 2/10/2014 SPK value	Test R S SPK Ref Val	Code: Ef cunNo: 2: SeqNo: 6 %REC	PA Method 3041 80769 LowLimit	418.1: TPH Units: mg/k HighLimit	رو %RPD	RPDLimit	Qual

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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WO#:	1412356
	17-Dec-14

Client: R.T. Hic Project: Warrior	ks Consult BRW State	ants, LT e Com. ∶	D IH							
Sample ID MB-16741	SampT	Type: ME	BLK	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID: PBS	Batcl	h ID: 16	741	R	unNo: 2	3048				
Prep Date: 12/9/2014	Analysis D	Date: 12	2/10/2014	S	SeqNo: 68	31300	Units: mg/k	٢g		
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	6.9		10.00		69.0	63.5	128			
Sample ID LCS-16741	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID: LCSS	Batcl	h ID: 16	741	R	unNo: 2	3048				
Prep Date: 12/9/2014	Analysis D	Date: 12	2/10/2014	S	SeqNo: 68	31301	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	113	68.6	130			
Surr: DNOP	4.8		5.000		95.9	63.5	128			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Р Sample pH greater than 2.
 - RL Reporting Detection Limit

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WO#:	1412356
	17 Dec 14

Client: R.T.	Hicks Consultants, LTD			
Project: War	rior BRW State Com. 1H			
Sample ID MB-16708	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 16708	RunNo: 23008	j.	
Prep Date: 12/8/2014	Analysis Date: 12/9/2014	SeqNo: 680441	Units: %REC	
Analvte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	_imit Qual
Surr: BFB	880 1000	87.9 80	120	
Sample ID LCS-16708	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 16708	RunNo: 23008	Ū	
Prep Date: 12/8/2014	Analysis Date: 12/9/2014	SeqNo: 680442	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	_imit Qual
Surr: BFB	1000 1000	103 80	120	
Sample ID MB-16720	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 16720	RunNo: 23008	-	
Prep Date: 12/8/2014	Analysis Date: 12/9/2014	SeqNo: 680463	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	_imit Qual
Gasoline Range Organics (GRC) ND 5.0			
Surr: BFB	920 1000	91.9 80	120	
Sample ID LCS-16720	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 16720	RunNo: 23008		
Prep Date: 12/8/2014	Analysis Date: 12/9/2014	SeqNo: 680464	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	_imit Qual
Gasoline Range Organics (GRC) 23 5.0 25.00	0 90.1 65.8	139	
Surr: BFB	1000 1000	99.7 80	120	
Sample ID LCSD-16720	SampType: LCSD	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS02	Batch ID: 16720	RunNo: 23008		
Prep Date: 12/8/2014	Analysis Date: 12/9/2014	SeqNo: 680465	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	_imit Qual
Surr: BFB	1000		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

17-Dec-14

WO#:	1412356
	17-Dec-14

Client:	R.T. Hic	ks Consult	ants, LT	Ď							
Project:	Warrior	BRW State	e Com. 1	lH							
Sample ID	MB-16708	SampT	уре: МЕ	BLK	Test	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batch	n ID: 167	708	R	unNo: 23	3008				
Prep Date:	12/8/2014	Analysis D	Date: 12	2/9/2014	S	eqNo: 68	80477	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bror	nofluorobenzene	0.93		1.000		93.3	80	120			
Sample ID	LCS-16708	SampT	ype: LC	S	Test	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	n ID: 16	708	R	unNo: 23	3008				
Prep Date:	12/8/2014	Analysis D	Date: 12	2/9/2014	S	eqNo: 68	80478	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bror	nofluorobenzene	1.0		1.000		104	80	120			
Sample ID	MB-16720	SampT	уре: МЕ	BLK	Test	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	n ID: 16	720	R	unNo: 2	3008				
Prep Date:	12/8/2014	Analysis D	Date: 12	2/9/2014	S	eqNo: 68	80494	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
l oluene		ND	0.050								
Ethylbenzene	l .		0.050								
Surr: 4-Bror	mofluorobenzene	0.99	0.10	1.000		98.7	80	120			
Sample ID	LCS-16720	SampT	vne: IC	S	Test	Code: FF	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batch	n ID: 167	720	R	unNo: 2:	3008	0021217010			
Prep Date:	12/8/2014	Analysis D	Date: 12	2/9/2014	S	eqNo: 68	80495	Units: mg/k	٢g		
Analyte		Result	POI	SPK value	SPK Ref Val	%RFC	l owl imit	- Highl imit	- %RPD	RPDI imit	Qual
Benzene		0.88	0.050	1.000	0	87.9	80	120	, or a 2		
Toluene		0.85	0.050	1.000	0	85.2	80	120			
Ethylbenzene		0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	l	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bror	nofluorobenzene	1.0		1.000		105	80	120			
Sample ID	LCSD-16720	SampT	ype: LC	SD	Test	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	LCSS02	Batch	n ID: 16	720	R	unNo: 2	3008				
Prep Date:	12/8/2014	Analysis D	Date: 12	2/9/2014	S	eqNo: 68	80496	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.050	1.000	0	92.3	80	120	4.87	20	
Ioluene		0.91	0.050	1.000	0	90.7	80	120	6.28	20	
Ethylbenzene		0.94	0.050	1.000	0	94.3	80	120	4.96	20	
Xylenes Total		2.8	0.10	3.000	0	93.3	80	120	3.91	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

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WO#:	1412356
	17.Dec.14

Client:	R.T. H	licks Consulta	ants, LT	ГD							
Project:	Warrie	or BRW State	e Com.	1H							
Sample ID	LCSD-16720	SampT	ype: LC	SD	Test	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS02	Batch	n ID: 16	720	R	unNo: 2	3008				
Prep Date:	12/8/2014	Analysis D	ate: 1	2/9/2014	S	eqNo: 6	80496	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		106	80	120	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

	r: 1412356			
Client Name: RT HICKS Work Order Numbe			RcptNo: 1	
Received by/date: C S 12-05-14 Logged By: Celina Sessa 12/5/2014 1:00:00 PM	Λ	Celim S.		
Completed By: Celina Sessa 12/8/2014 11:16:44 A Reviewed By:	м >14	Celim S	m	
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?	Client			
Log in				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌		
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🔽	No 🗌		
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	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗔	for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗔	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	

Person Notified: Date: l 🗌 eMail 🔄 Phone 🔄 Fax 🔄 In Person Via: By Whom: Regarding: **Client Instructions:** 17. Additional remarks:

Signed By

18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Not Present

Good

1

Chain	-01-LO	ISTODY RECORD						3	I	ū	5	ò	25	IN	NTA
Client: R.T.F	licks Cons	sultants	Z Standard	□ Rush		Л		4	AN		SI		BO	RA	TOF
			Project Name						h.ww	allenv	ronm	ental.	Com		
Mailing Address	: 901 Rio	Grande Blvd NW	Warrior	BRW Stat	H I woj aj	4	901 H	awkir	s NE	- Alb	nquer	due,	NM 8	7109	
	Albuque	rque, NM 87104	Project #:			Ì	rel. 50	5-34	-3975	LL .	ax 5	05-34	5-41	20	
Phone #:	(505) 26	56-5004			1					Analy	sis R	edue	st		
email or Fax#:	R@rthic	ksconsult.com	Project Mana	ger:	1	(1	(199)		-	_	(*0	ę			
QA/QC Package:		Level 4 (Full Validation)		Mike Stubble	field	.208) e'	eid\aa6				S,pOq,	5 PCB's			
Accreditation:			Sampler:	Mike Stubble	field	8MT) 89	(†.8	(1.1		ZON	808	(
I NELAP	Other		On Ice:	X Yes	DN DN	+ =	108	314	20	s	O	/ 59	AO	5	
C EDD (Type).			sample lemp	Derature:	5.8°C	18.	p	po	po	ete	E	p	A-1	V	
Date	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	TM + XETB	onion Hat	odtaM) H9T	EDB (Metho	M 8 AADA) enoinA	Ditea 1808	(OV) 00020	100 619	0
2/3/14 10:37	A soil	Outer Comp.	glass	ice	100-	/	/	7	-			-	_	Ζ	
-									/			-	_		
13 114 10:51	A soil	Inner Comp.	1 0 955	ice	-002		\angle	/	\square					\angle	
		-							-	1		-			
13/14 10:30	1 soil	Miking Soil	10/055	icc	-003	/	4	/	-		1	-	_	\angle	
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2 4/14/00	Reinquist	(SLADDORDO	Kecewed by:	1/1/	12/4 /00	Kemai	XS.	Emai	resu	ts to r	nike@	ц Н С	CITNIC	KSCON	sult.com
Date: Time:	Relinguist	hed by A	Received by:	(Date Time									22	
NS/14 10	Fau	(all lol)	Celino	June	12/05/14 1300									-	
		<													