1R - 428-69

GW REPORT

DATE: 1/14/08

18428-69 GW Report

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745 /~/4~ 0&

January 14, 2008

Wayne Price Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE:

Ground Water Status Report
O-5 Vent, Section 05, T19S, R38E, Unit "O"
NMOCD Case #: 1R428-69

Dear Mr. Price,

R.T. Hicks Consultants, Ltd. is pleased to submit this Ground Water Status Report for the O-5 Vent site located in the Hobbs Salt Water Disposal System (SWD). This report consists of the following sections:

- 1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
- 2. Graphs showing chemical concentration over time for chloride, TDS, and sulfate.
- 3. The well log for MW-1.
- 4. A plate showing the site in relation to Hobbs, NM.
- 5. Laboratory data sheets associated with 2007 sampling.

An Investigation and Characterization Plan was submitted to NMOCD for this site on April 11, 2007 and verbally approved on July 18th, 2007. One monitoring well was installed in August of 2007. As you will see, three sampling events over the course of 57 days show an average chloride concentration of 273 mg/L and a TDS concentration of 994 mg/L. Although chloride concentrations are slightly above ground water standards, this may be due to regional chloride levels. We propose to obtain four additional quarters of data and with the 2008 end of the year report we will determine if an addition well is necessary to characterize background conditions and identify the source of chloride in ground water.

Thank you for your consideration of this status report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

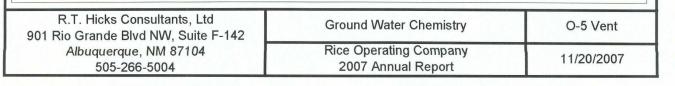
Sincerely,

R.T. Hicks Consultants, Ltd.

Katie Lee

Staff Scientist

Katie Lee



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Table
- 1

	Comments	Clear No Odor	Clear Slight odor	Clear Slight odor
	Well Name Date DTW (ft) Chloride (mg/L) Sulfate (mg/L) TDS (mg/L) Benzene (mg/L) Toluene (mg/L) EthylBenzene (mg/L) Total Xylenes (mg/L) Comments	<0.006	<0.003	<0.003
	EthylBenzene (mg/L)	<0.002	<0.001	<0.001
ne	Toluene (mg/L)	<0.002	<0.001	0.001
hemistry over time	Benzene (mg/L)	<0.002	0.002	0.003
l: chemis	TDS (mg/L)	896	963	1052
Table 1: cl	Sulfate (mg/L)	62.4	57.6	59.3
	Chloride (mg/L)	264	260	296
	DTW (ft)	31.62	31.61	31.58
	Date	8/23/2007	9/27/2007	MW-1 10/19/2007
O-5 Vent	Well Name	MW-1	MW-1	MW-1

Borehole/Well Log

Facility Name: 0-5

T18S R38E

Address: City, State:

Hobbs, NM

County:

<u>Lea</u>

Harrison Cooper Driller:

Auger Type:

Hallow Stem

08/09/07

Auger Dia.: Drill Date:

30

35

<u>6"</u>

Well ID:

X:

Y:

Z:

Datum:

Borehole ID: O-5 MW-01

<u>3611</u>

NAD 27

UTM/Geographic/State Plane: UTM

32degrees41.196N

103degrees09.923W

0.8

0.6

Total Depth 40"

рертн	W.L.	Lithology	Soil Description	Sample/ Blow Counts	PID	Well Construction	Well Description
0-			CALICHE, FINE SAND: white caliche, fine grained sand				
5-			CALICHE: white caliche		2.6		
10 -			SAND, SILT, CALICHE: tan & pink very fine grained sand, silt, caliche		1.2		
15 -			SAND: tan, brown fine sand		1.1		
20 -			SAND, SILT, CALICHE: tan brown very fine grained sand, silt, caliche		0.8		
25 -			SAND AND SILT: tan brown very fine grained sand, silt		1.0		

R.T. Hicks Consultants, Ltd

SAND, SILT, CALICHE: moist, tan brown very fine

SAND, SILT, CALICHE: brown medium-fine grained

grained sand, silt, caliche

sand, silt, caliche

901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505-266-5004 Fax: 505-266-0745

Borehole/Well Log

Facility Name: Hobbs O-5

Address: Hobbs SWD
City, State: Hobbs, NM

County: Lea

Driller: Harrison & Cooper, Inc.
Auger Type: Hollow Stem

Auger Type: Hollow
Auger Dia.: 8-inch
Drill Date: 8-9-07

UTM/Geographic/State Plane: UTM

103 09.923W

X: <u>32 41.196N</u>

Y: Z:

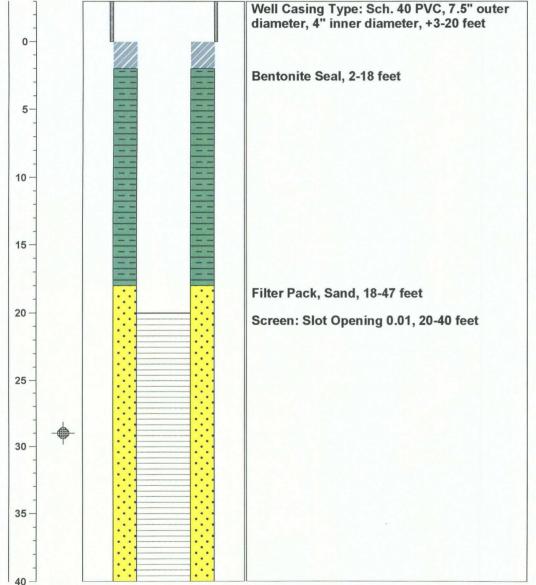
Datum: NAD 83

Borehole ID: O-5 Vent

Well ID: <u>MW-1</u>

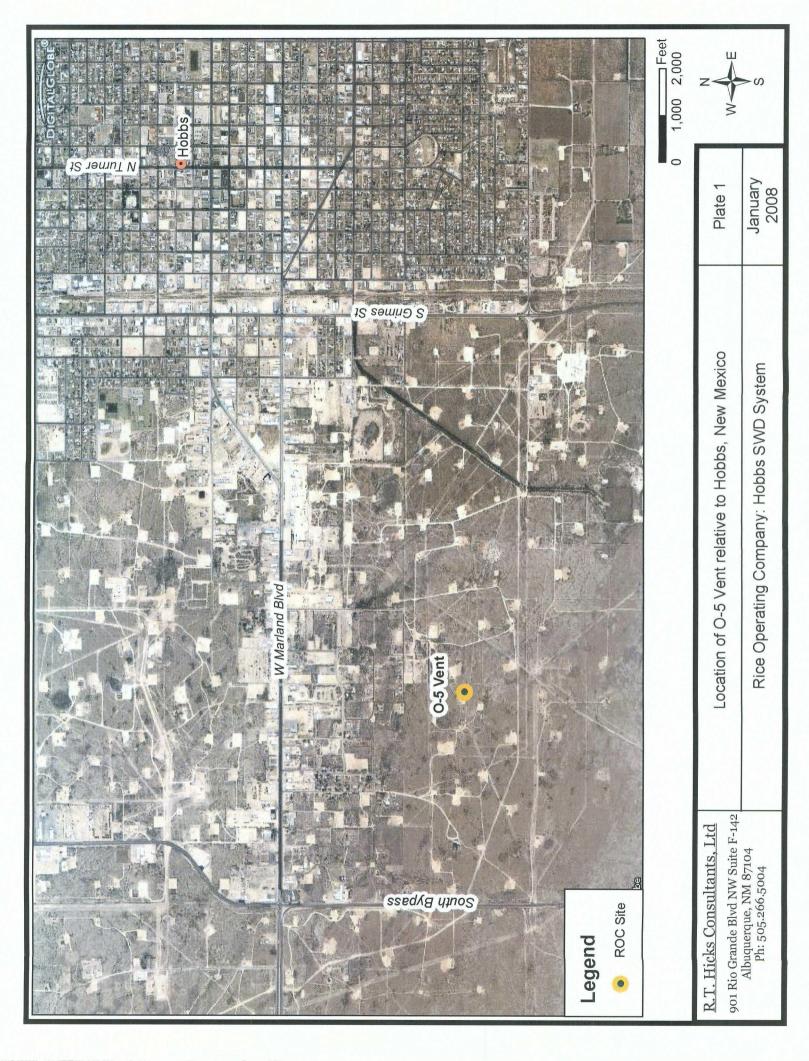
Total Depth 40

Well Description
Construction



R.T. Hicks Consultants, Ltd

901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505-266-5004 Fax: 505-266-0745





PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 08/24/07

Reporting Date: 08/29/07
Project Number: NOT GIVEN

Project Name: HOBBS O-5 SITE

Project Location: T19S-R38E-SEC5 O ~ LEA COUNTY, NM

Sampling Date: 08/23/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: KS

Analyzed By: BC

LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	08/29/07	08/29/07	08/29/07	08/29/07
LIANATO A MONUTOR MELL WA	0.000	0.000	0.000	0.000

ANALYSIS D	ATE	08/29/07	08/29/07	08/29/07	08/29/07
H13172-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
	Mildeld manuscripturary property and the street of the str				
					-
Quality Contr	ol	0.091	0.093	0.094	0.265
True Value Q	C	0.100	0.100	0.100	0.300
% Recovery		90.9	92.9	94.0	88.3
Relative Perc	ent Difference	2.1	1.8	0.6	0.2

METHOD: EPA SW-846 8260

7



PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 08/24/07

Reporting Date: 08/30/07 Project Owner: NOT GIVEN

Project Name: HOBBS O-5 SITE

Project Location: T19S-R38E-SEC5 O~LEA COUNTY, NM

Sampling Date: 08/23/07 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: KS Analyzed By: HM/KS

		Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DAT	TE:	08/30/07	08/30/07	08/30/07	08/30/07	08/27/07	08/29/07
H13172-1	MONITOR WELL #1	180	106	10.5	4.8	1,589	268
Quality Control	والمرافقة والمرا	NR	50.6	51.6	1.91	1423	NR
True Value QC	and the state of t	NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	101	103	95.7	101	NR
Relative Percer	nt Difference	NR	25	4.8	1.6	0.4	NR
METHODS:		SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		cr	SO ₄	CO ₃	HCO ₃	рН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DAT	ΓE:	08/27/07	08/27/07	08/29/07	08/29/07	08/27/07	08/29/07
H13172-1	MONITOR WELL #1	264	62.4	0	327	7.08	968
Quality Control		500	26.1	NR	964	6.98	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery	and to suppose a population of the suppose in the suppose in the suppose is the suppose of the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the suppose in the suppose in the suppose is the suppose in the s	100	104	NR	96.4	99.7	NR
Relative Percer	nt Difference	< 0.1	2.8	NR	2.6	0.6	NR

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Kristin Farr	Kristin Farris-Pope, Project Scientist		122 W Taylor Street ~ Hobbs, New Mexico 88240	Fayfor	Stree	~ Hob	bs, Ne	w Mex	ico 88	1240																			
Address: (Si	(Street, City, Zip)			<u> </u>	Phone#:	4.1				Fa	Fax#:	Ì																	
122 W Taylor S	122 W Taylor Street ~ Hobbs, New Mexico 88240		(505) 393-9174	393	-917	4				9	05)3	(505)397-1471	-				.002												
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID#	ANALYSIS REQUEST	(Cilcie of Specify Medical No.)					_	ВH	บอ	23) - Pb 55	29/3	3a Cd 524 524 524 524 534 534 534 535 735 735 735 735 735 735 735 735 735	26 / 20 / 20 / 20 / 20 / 20 / 20 / 20 /	B/602 S Ag A & S & S & S & S & S & S & S & S & S &	270C78 270C78 270C78 Semi Semi 5-estid 5-estid 5-estid 5-estid 5-estid 6-estid 6-estid 6-estid 6-estid 7-Seni 7-Seni 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 7-Seni 8082 8082 8082 8082 8082 8082 8082 808	TIME BTEX TPH 4 TPH 4 TOLE 1 TCLP 1 T	### ### ### ### ### ### ### ### #### ####					Phone Results Yes No	7 Fax Results Yes No Additional Fax Number:	REMARKS:	Email Results to: Kpope(Qricaswd.com		กอร์สาทริเชิงสิดิการ เดิก		
	aporatories,	BILL TO Company: RICE Operating Company	Address: (Street, City, Zip)	122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#:	(505) 393-9174 (505)397-1471	Fax # (EOE) 207 1471	141-141		1	Sampler Signature: Rozanne Johnson (505)631-9310		MATRIX PRESERVATIVE SAMPLING	Si	INER INOA)	IATN GE S 40min 1	(G)rab WATE SOIL HOC. (HOC.) HOC. (1)	1 9-27						Received by: Date: Time:	Su Garren 10/2/07 3:47 pm	6 =			Yes X Yes (Initials)	}
bs, New	Mexico 06.235 Tel (505) 393-2256 Fax (505) 393-2476	Company Name: RICE Operating Company	Project Manager:	Kristin Farris-Pope, Project Scientist	Address: (Street, City, Zip)	Taylor Street ~ Hobbs, New Mexico 88240	7770	J3J-8-174	Project #: Project Name:	C-O sugar	Project Location: T10S_B38E_Sec5.				LAB # FIELD CODE		ONLY	4/34/9- Monitor Well #1						ie: // . //	Rozanne Johnson 10-2-2007 14:12	Date: Time:		Delivered By: (Circle One)	Sampler -) UPS - Bus - Other:	



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 10/02/07

Reporting Date: 10/05/07

Project Number: NOT GIVEN

Project Name: HOBBS O-5 SITE

Project Location: T19S-R38E-SEC5 O - LEA COUNTY, NM

Sampling Date: 09/27/07 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: SB

Analyzed By: CK

ETHYL

TOTAL

BENZENE TOLUENE

BENZENE

XYLENES

LAB NUMBER SAMPLE ID

(mg/L)

(mq/L)

(mg/L)

(mg/L)

ANALYSIS DATE	10/04/07	10/04/07	10/04/07	10/04/07
H13418-1 MONITOR WELL #1	0.002	<0.001	<0.001	<0.003
Wide the second		4		
		· · · · · · · · · · · · · · · · · · ·		

Quality Control	0.105	0.102	0.101	0.103
True Value QC	0.100	0.100	0.100	0.300
% Recovery	105	102	101	103
Relative Percent Difference	1.7	<0.1	0.9	<0.1

METHOD: EPA SW-846 8021B



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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 10/02/07
Reporting Date: 10/04/07

Reporting Date: 10/04/07 Project Owner: NOT GIVEN

Project Name: HOBBS O-5 SITE

Project Location: T19S-R38E-SEC5 O~LEA COUNTY, NM

Sampling Date: 09/27/07 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: SB Analyzed By: HM/KS

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	10/03/07	10/02/07	10/02/07	10/02/07	10/03/07	10/03/07
H13418-1 MONITOR WELL #1	183	129	19.4	5.14	1,607	380
And the second s						
Quality Control	NR	51.9	49.2	1.91	9,770	NR
True Value QC	NR	50.0	50.0	2.00	10,000	NR
% Recovery	NR	104	98.4	95.7	97.7	NR_
Relative Percent Difference	NR	2.5	3.2	1.6	0.2	NR
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	CI	SO ₄	CO ₃	HCO₃	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	10/03/07	10/03/07	10/03/07	10/03/07	10/03/07	10/03/07
H13418-1 MONITOR WELL #1	260	57.6	0	464	7.27	963
Quality Control	500	27.8	NR	1000	7.01	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	111	NR	100	100	NR
Relative Percent Difference	< 0.1.	2.6	NR	1.3	0.3	NR.
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Greno Chemist

10 - 08-07



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 10/22/07 Reporting Date: 10/26/07

Project Number: NOT GIVEN
Project Name: HOBBS 0-5 SITE

Project Location: T19S-R38E-SEC5 O~LEA COUNTY, NM

Sampling Date: 10/19/07 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: SB Analyzed By: HM/KS

	Na	Ca	Mg	Κ	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	10/26/07	10/25/07	10/25/07	10/25/07	10/24/07	10/24/07
H13554-1 MONITOR WELL #1	190	124	31.5	4.51	1,690	380
Quality Control	NR	49.2	51.6	2.73	1,386	NR
True Value QC	NR	50.0	50.0	3.00	1,404	NR
% Recovery	NR	98.4	103	91.0	98.7	NR
Relative Percent Difference	NR	< 0.1	< 0.1	6.7	1.3	NR
METHODO	01.4	1500 O - D	2500 Mar 171	00401		
METHODS:	SM: CI	3500-Ca-D SO ₄	3500-Mg E CO ₃	8049 HCO ₃	120.1 pH	
METHODS:	CI ⁻	······································		······		TDS
METHODS: ANALYSIS DATE:		SO ₄	CO ₃	HCO ₃	рН	TDS (mg/L)
	CI ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	рН (s.u.)	TDS (mg/L) 10/24/07
ANALYSIS DATE: H13554-1 MONITOR WELL #1	CI ⁻ (mg/L) 10/25/07	SO ₄ (mg/L) 10/26/07 59.3	CO ₃ (mg/L) 10/24/07	HCO ₃ (mg/L) 10/24/07 464	pH (s.u.) 10/24/07 7.35	TDS (mg/L) 10/24/07 1,052
ANALYSIS DATE:	Ci ⁻ (mg/L) 10/25/07 296	SO ₄ (mg/L) 10/26/07	CO ₃ (mg/L) 10/24/07	HCO ₃ (mg/L) 10/24/07	pH (s.u.) 10/24/07	TDS (mg/L) 10/24/07 1,052 NR
ANALYSIS DATE: H13554-1 MONITOR WELL #1 Quality Control	Ci ⁻ (mg/L) 10/25/07 296	SO ₄ (mg/L) 10/26/07 59.3	CO ₃ (mg/L) 10/24/07 0	HCO ₃ (mg/L) 10/24/07 464 1000	pH (s.u.) 10/24/07 7.35	TDS (mg/L) 10/24/07 1,052 NR
ANALYSIS DATE: H13554-1 MONITOR WELL #1 Quality Control True Value QC	CIT (mg/L) 10/25/07 296 500 500	SO ₄ (mg/L) 10/26/07 59.3 23.5 25.0	CO ₃ (mg/L) 10/24/07 0 NR NR	HCO ₃ (mg/L) 10/24/07 464 1000	pH (s.u.) 10/24/07 7.35 6.97 7.00	NR NR

Busta Dypick



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 WEST TAYLOR HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 10/22/07

Reporting Date: 10/24/07

Project Number: NOT GIVEN

Project Name: HOBBS O-5 SITE

Project Location: T19S R38E SEC5 O - LEA COUNTY, NM

Sampling Date: 10/19/07

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: SB

Analyzed By: CK

				ETHYL	TOTAL
•		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)

ANALYSIS DATE	10/23/07	10/23/07	10/23/07	10/23/07
H13554-1 MONITOR WELL #1	0.003	0.001	<0.001	<0.003
Quality Control	0.106	0.101	0.102	0.310
True Value QC	0.100	0.100	0.100	0.300
% Recovery	106	101	102	103
Relative Percent Difference	1.8	1.0	1.9	1.0

METHOD: EPA SW-846 8021B

Chemist

Sample	Delivered By:		Relinquished by:	Rozanne	大大						·				1/1/3	Q E	- 	T19	Project +	(505)	122 W Phone #:	Address	Kris	Project Manager:	Company Name	_	101 E
	ed By:		Jished I	ne define on	ished b										3554-1	LAB USE	J	T19S-R38E-Sec5	7	\sim	122 W Taylor Street ~ Hobbs, New Mexico 88240 none #:	7.	Kristin Farris-Pope,	Wanage	F ∩n	Tel (505) 393-2326 Fax (505) 393-2476	101 East Marland - Hobbs, New Mexico 88240
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