AP - 049

ANNUAL GW MONITOR REPORT

DATE: 2006



Highlander Environmental Corp.

Annual GW Mon Report 2006

Midland, Texas

CERTIFIED MAIL

RETURN RECEIPT NO. 7005 1160 0005 3780 7341

March 7, 2007

Mr. Wayne Price New Mexico Energy, Minerals, & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

PM __ 20

2006 Annual Groundwater Summary Report & Project Status Report, Rice Re: Operating Company, Justis Saltwater Disposal System (SWD) Well #H-2, Unit H, Section 2, T-26-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-01 (AP-49)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2006 Annual Summary Report for the Rice Operating Company (ROC) Justis SWD Well #H-2 site located in the Justis Salt Water Disposal System (AP-49).

Background

On August 2, 2001, ROC submitted a Redwood Tank Replacement Closure Plan with the NMOCD. Tank replacement activities began at the Justis H-2 SWD facility on November 6, 2001 and are complete. On December 12, 2002, ROC submitted a Redwood Tank and Emergency Pit Closure Report for the Justis SWD Facility H-2. Soil samples were collected during tank replacement and sample results prompted the placement of monitor wells.

In January 2002, three (3) monitor wells were installed to evaluate groundwater in the vicinity of the H-2 injection facility. Originally, two monitor wells, MW-1 and MW-2 showed elevated chloride levels. On January 18, 2002, the NMOCD was notified of groundwater impact. After several quarterly sampling events, MW-2 continued to show elevated chloride levels. As a result, two (2) additional monitor wells were installed in February 2004.

On May 5, 2005, Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for this site. On July 13, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The Stage I Abatement Plan approval was received, dated February 23, 2006.

Stage 2 Abatement Plan

A Stage 2 Abatement Plan was prepared and submitted to the NMOCD on May 25, 2006. On June 7, 2006, the NMOCD certified the plan "Administratively Complete". A public notice was submitted and approved on July 21, 2006. Final approval for the Stage 2 Abatement plan was received on October 3, 2006. The abatement system was installed on November 6, 2006 and started. As of January 3, 2007, a total of 14,707 gallons of water had been pumped from MW-2, with 9,700 gallons re-injected at the site, and 5007 gallons sent to disposal. All remediated water that is injected into MW-1 at the site is tested for chloride and conductivity prior to injection. The overall unit treatment efficiency in 2006 was 66%, with the 34% reject water waste stream being sent to disposal. An R/O System Operating summary is included in Appendix A.

Monitor Well Sampling

All five of the site monitoring wells were sampled on February 27, June 14, September 13 and December 5, 2006 (Quarterly). Prior to sampling, the wells were gauged for static water levels. All monitor well caps were opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

Each well was purged using a portable submersible pump. Approximately three casing volumes of water were purged from each well prior to sampling. Between wells, the pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

Each well was inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level.

Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. All of the samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix B.

Water table maps were generated for all four quarterly sampling events, using the water level measurement data and are included as Figures 3-6. The general hydraulic gradient appears to be consistently towards the north-northwest.

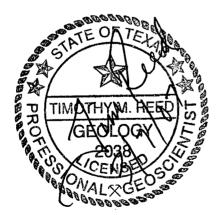


Monitor Well Sample Results

Chloride concentrations from monitor wells MW-3, MW-4 and MW-5 were all below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L during all four quarters of 2006. Chloride concentrations in MW-1 fluctuated from 206 mg/L to 430 mg/L. MW-2 exceeded the WQCC standard for all four quarters. No BTEX concentrations were detected at or above reporting limits in 2006. Cumulative analytical data is summarized in the Table Section of this report. Water levels rose slightly in 2006.

Conclusions

- 1. In 2006, there were no BTEX constituents at or above the New Mexico Water Quality Control Commission (WQCC) standards.
- 2. Chloride and TDS concentrations from monitor wells MW-3, MW-4 and MW-5 were all below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L and 1000 mg/L, respectively, during all four quarters of 2006. MW-1 fluctuated between 206 mg/L and 430 mg/L. Only MW-2 exceeded the WQCC standard for all four quarters.
- 3. In 2006, water levels rose slightly. The hydraulic gradient continues to trend towards the north-northwest, although the regional hydraulic gradient is towards the southeast.
- 4. The Stage 2 Abatement Plan has been implemented and the remediation system will be monitored and maintained throughout 2007.
- 5. Quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD in the first quarter of 2008.



Respectfully Submitted, HIGHLANDER ENVIRONMENTAL CORP.

Timothy M. Reed, P.G.

Vice President

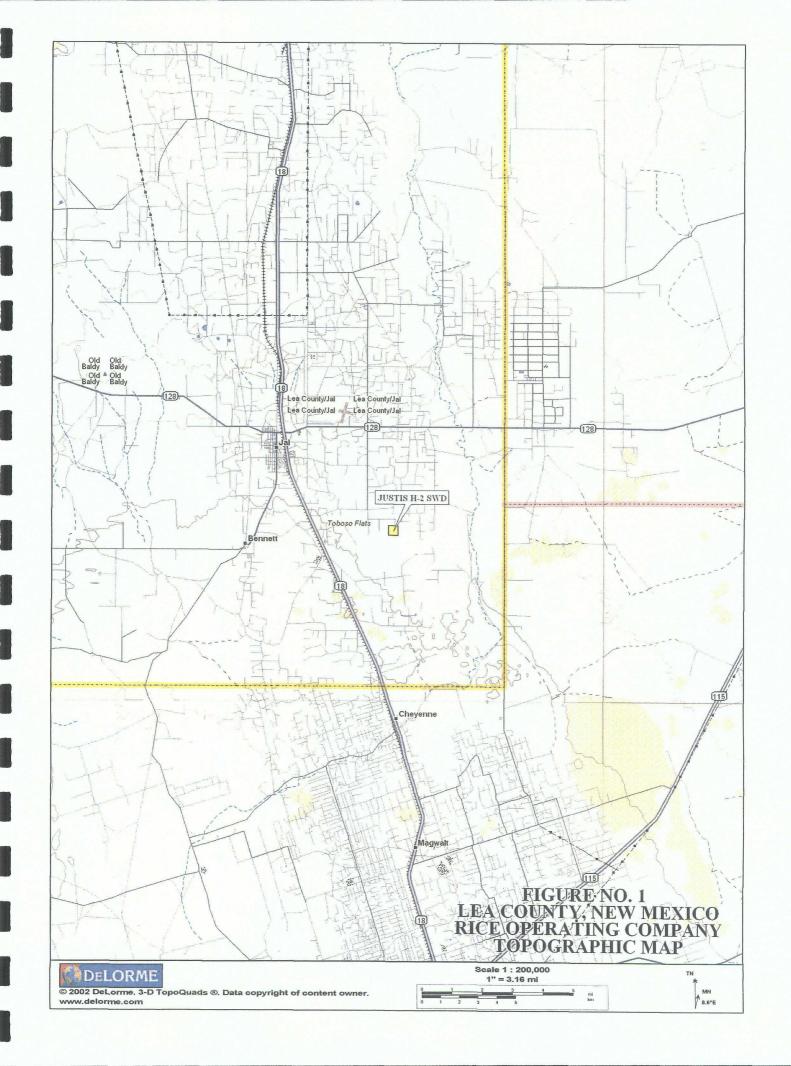
cc: ROC, Edward Hansen - NMOCD

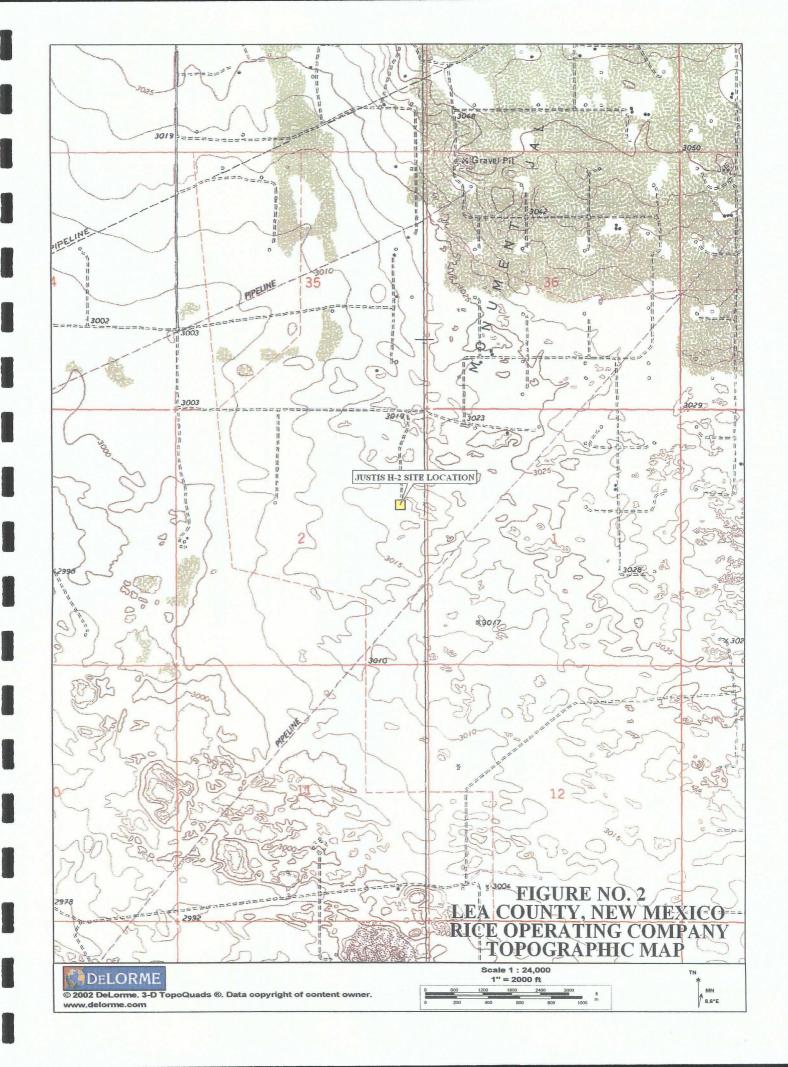
Enclosures: Figures, Tables, Laboratory Analysis

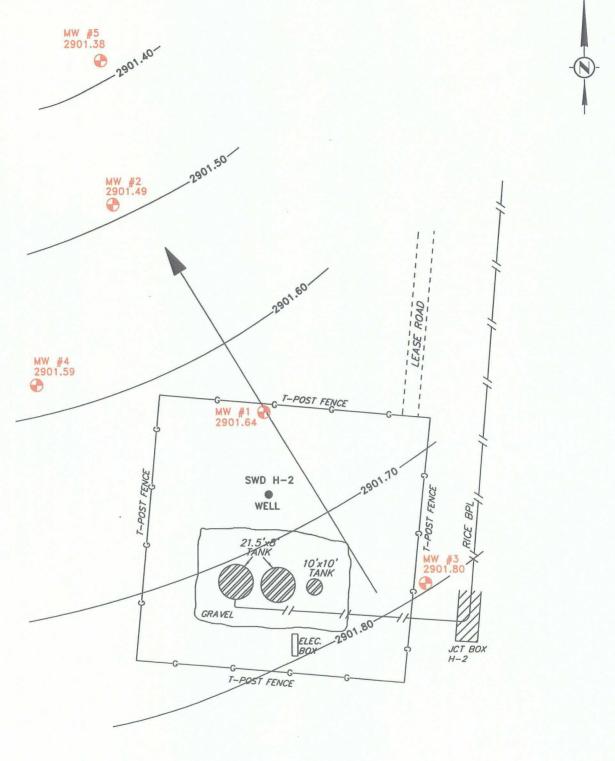


3

FIGURES







WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89'
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06

MONITOR WELL LOCATION

SCALE: 1"=60'

60 0 60

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

JUSTIS H-2 SWD

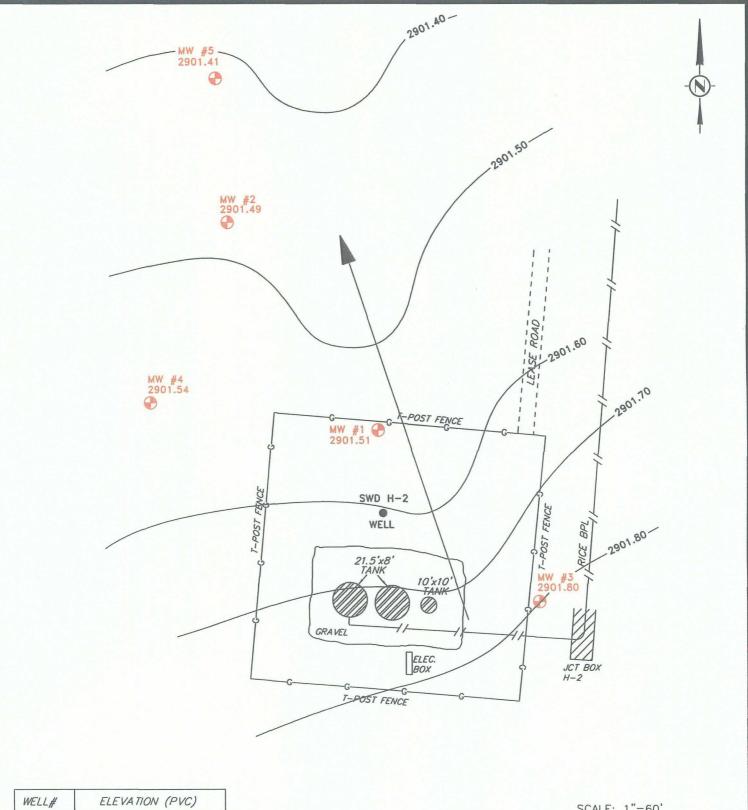
2/27/06 WATER TABLE MAP

DATE: 3/6/06

DWG. BY: 2/27/06 W.
JJ

FILE: HIGHLANDER E
MIDL

HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS



WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89"
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06'

MONITOR WELL LOCATION

SCALE: 1"=60'

60 0 60

FIGURE NO. 4

LEA COUNTY, NEW MEXICO

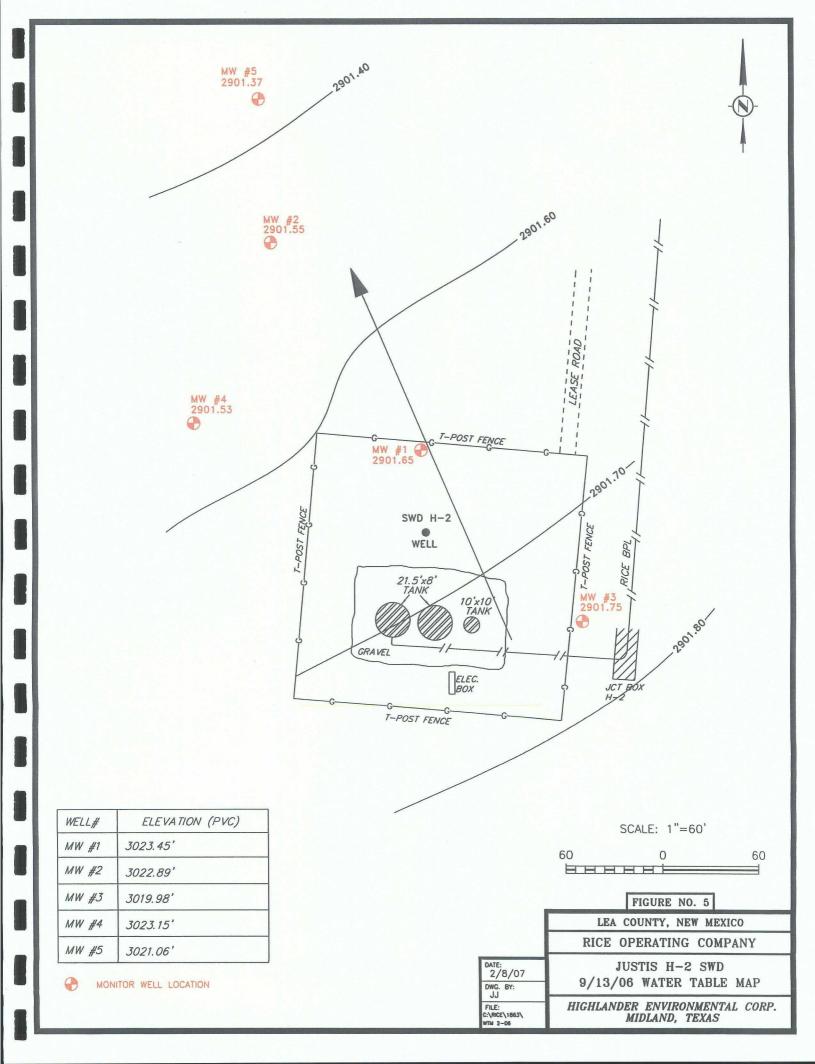
RICE OPERATING COMPANY

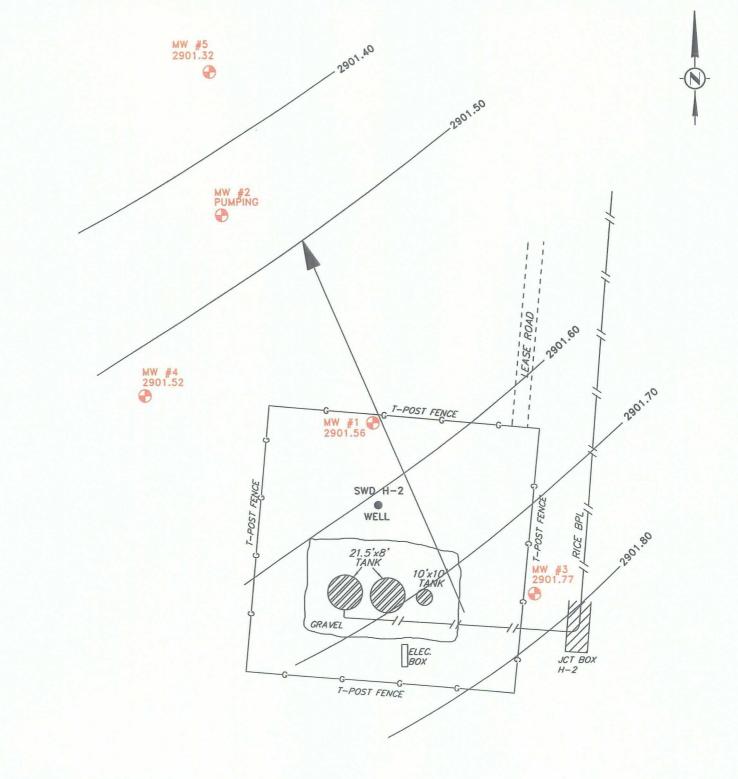
JUSTIS H-2 SWD 6/14/06 WATER TABLE MAP

DATE: 2/8/07

DWG. BY:

FILE: C:\RICE\1863\ WTM 2-06 HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS





WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89'
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06

MONITOR WELL LOCATION

FIGURE NO. 6

FIGURE NO. 6

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

JUSTIS H-2 SWD

12/5/06 WATER TABLE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 2/8/07

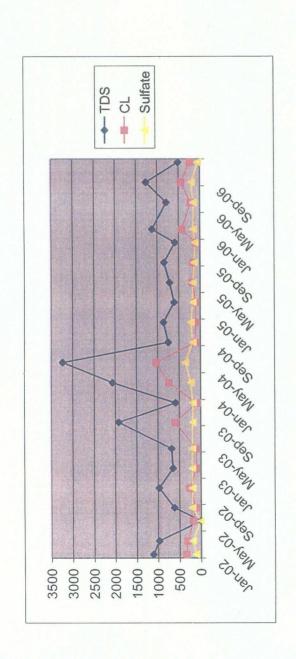
DWG. BY:

FILE: C:\RICE\1863\ WTM 2-06

TABLES

の

	Toluene Ethyl Benzene Total Xylenes Sulfate Comments	<0.002 116	XXX 190	XXX 990:0	<0.001 202	<0.001 194	<0.001 200	<0.001 196	<0.001 186	<0.001 180	<0.001 227	<0.001 349	<0.001 175	0.00108 215	<0.001 169	<0.001 166	<0.001 133	<0.001 114	<0.001 157	<0.001 151	<0.001 194	<0.001 47.6
	luene Ethyl Ben	<0.002 <0.002	XXX XXX	0.008 0.01	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001
Rice Engineering Operating H-2 Lea County, New Mexico		<0.002 <0	^ XXX	0.001 0)> 100.0>)> 100.0>	> 100.0>	<0.001 <()> 100.0>	0.013 <)> 100'0>	0.0056 <	<0.001 <)> 100'0>)> 100.0>)> 100.0>)> 100.0>)> 100.0>)> 100'0>)> 100'0>)> 100'0>	> 100.0>
gineering H-2 ounty. Ne	TĎS	6 1112	1 971	3 XXX	1 619	7 971	5 647	2 682	4 1920	5 587	7 2060	3230	6 749	1 858	2 608	3 711	1 840	5 586	4 1120	6 782	0 1,260	3 512
Rice En Lea Co	l as	01/03/02 336	03/01/02 301	06/10/02 173	08/16/02 111	11/12/02 257	02/13/03 97.5	05/20/03 102	09/16/03 594	12/16/03 81.5	03/11/04 727	06/28/04 1030	09/23/04 106	12/21/04 93.1	03/29/05 98.2	06/16/05 173	09/15/05 151	12/05/05 93.5	02/27/06 414	06/14/06 206	09/13/06 430	12/05/06 223
	Volume	Furged 56.4	××	X	0.99	0.09	70.0	70.0	70.0	70.0	70.0	70.0	70.0	68.0	75.0	80.0	××	100.0	100.0	100.0	100.0	100.0
	Well	18.80	XX	XX	×	XX	×	XX	XX	XX	××	XX	××	×	×	X	X	31.50	31.80	31.70	31.80	31.70
	Total	145.00	××	×××	137.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	××	153.00	153.00	153.00	153.00	153.00
	Depth to	Water 116.20	XXX	XXX	116.20	123.32	122.95	123.34	122.94	123.19	122.43	122.24	122.22	122.18	121.97	122.08	XXX	122.12	121.81	121.94	121.80	121.89
	MΜ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	τ-	-	-	-



	(2																					
	Comments																					
	Sulfate	120	150	243	188	200	216	215	167	202	164	208	198	210	186	221	196	134	139	204	166	156
:	Total Xylenes Sulfate	200.02	XXX	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Ethyl Benzene	CO 000	XXX	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	2000	XXX	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Rice Engineering Operating H-2	Benzene	200.07	XXX	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.032	<0.001	0.0112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
eering H-2	TDS	3008	1780	2710	3390	2600	2780	3600	3540	2490	3660	6290	3760	2877	2620	3080	3240	2630	3450	3520	2,560	2300
Engine	D D	1020		+	1040	1130	1110	1130	1070	1230	1200	2570	1130	1150	1310	1280	1110	1110	1360	1260	1130	1240
Rice	100	Date 04/07/02		05/23/02	08/16/02	11/12/02	02/13/03	05/20/03	09/16/03	12/16/03	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06
	Volume	Purged	XXX	XXX	25.0	25.0	25.0	25.0	25.0	30.0	30.0	30.0	25.0	10.0	25.0	30.0	XXX	20.0	20.0	15.0	15.0	XXX
	Well	Volume	13.40 XXX	XX	XXX	XX	XXX	XX	XXX	XXX	3.40	3.40	3.40	3.40	XX							
	Total	Depth	142.500 XXX	XX	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	142.00	XXX	142.60	142.60	142.60	142.60	142.60
	Depth to	Water	122.00 XXX	X	121.85	122.10	121.71	122.08	121.70	122.00	121.87	121.74	121.70	121.65	121.45	121.58	XX	121.52	121.40	121.40	121.34	Pump
	M M M	c	7 2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2	2

くは難る

S. C. Salania

T.

N. A. Parker

C. Carlotte

を持ち

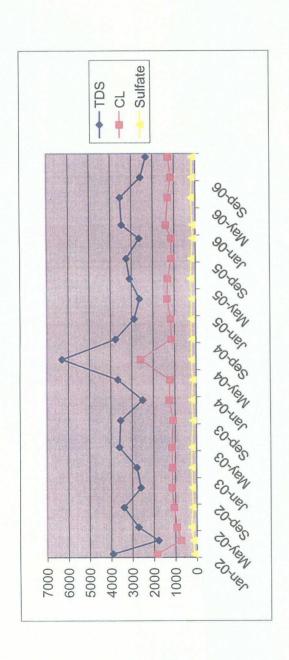
A STATE OF THE PARTY OF THE PAR

() 电影

智養

STATE OF THE PARTY OF THE PARTY

を変える



		Comments			,																			
		Sulfate	145	167	182	238	219	250	278	184	184	204	203	295	242	272	215	180	139	131	123	151	170	164
		Total Xylenes	<0.015	XXX	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		Toluene Ethyl Benzene Total Xylenes Sulfate	<0.005	XXX	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00144	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		Toluene	<0.005	XX	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Rice Engineering Operating	H-2 Lea County, New Mexico	TDS Benzene	<0.005	XX	<0.001	<0.001	0.030	<0.001	<0.001	<0.001	<0.001	0.013	<0.001	0.0124	0.00113	0.0127	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
eering	H-2 Ity, Ne	TDS	577	561	570	631	889	999	885	568	568	217	999	735	703	1057	029	535	664	450	562	514	610	486
Engin	a Coun	ਹ	48	37.2	35.4	93.1	97.5	102	168	204	204	40.8	65	124	115	154	108	62.4	56.4	30.7	26.8	38.3	28	26.1
Rice	Ľ	Sample	01/07/02	03/01/02	05/16/02	08/16/02	11/12/02	02/13/03	05/20/03	09/16/03	09/16/03	12/16/03	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06
		Volume	rurged 30.1	X	XXX	20.0	25.0	25.0	25.0	25.0	25.0	30.0	30.0	30.0	25.0	7.0	25.0	30.0	××	20.0	15.0	15.0	15.0	10.0
		Well	volume 10 00	X	××	XX	×	XX	XX	××	××	XX	XX	××	XX	XXX	××	××	××	2.50	2.50	2.50	2.50	2.50
		Total	137 50	X	×	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	XX	133.70	133.70	133.70	133.70	133.70
		Depth to	Water 122 10	XXX	××	118.68	118.90	118.53	118.87	118.53	118.53	118.79	118.71	118.53	118.52	118.52	118.31	118.41	XX	118.25	118.18	118.18	118.23	118.21
		ΜV	ď) m	3	3	3	3	3	3	3	3	3	3	3	33	3	3	3	3	က	3	3	3

るなが

医

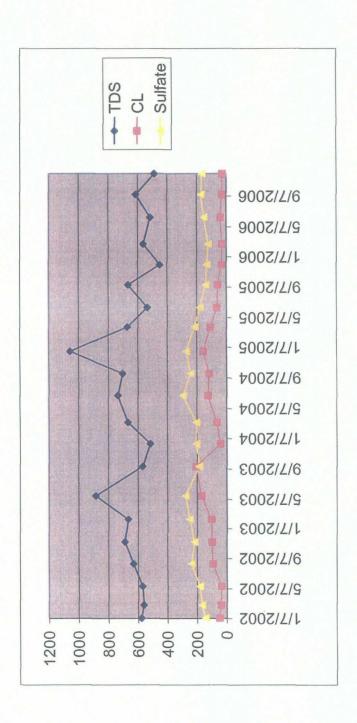
Y.

表情

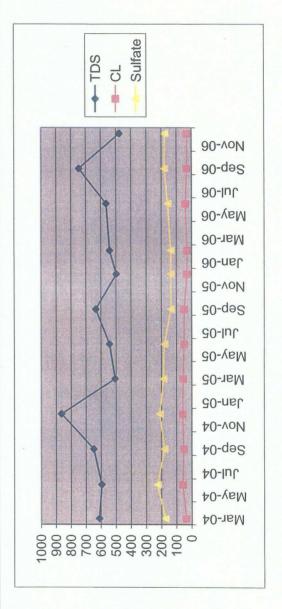
のない。

を持ちな

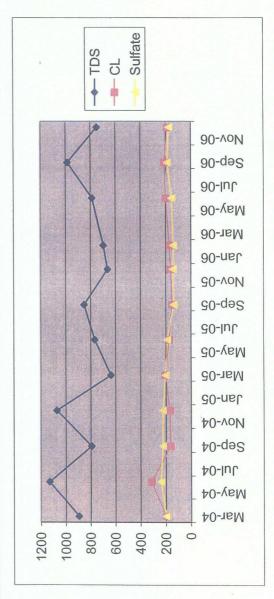
を見



			Comments													
			Sulfate		174	225	180	210	186	179	135	136	136	157	180	176
			Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
			Toluene Ethyl Benzene Total Xylenes Sulfate		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
			Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cai+oror O	Nice Englineering Operating H-2	Lea County, New Mexico	CI TDS Benzene		<0.001	0.00749	<0.001	0.00275	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
00:100	H-2	ity, Ne	TDS		610	969	648	865	909	543	634	496	542	564	746	476
1000	II GILI	a Coun	ਹ		35.4	9.73	53.2	59.1	55.7	49.8	48.2	29.1	29.1	39.6	31.3	30.0
Ocio		res	Sample	Date	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06
			Volume	Purged	30.0	30.0	25.0	8.0	25.0	30.0	XX	20.0	20.0	15.0	15.0	15.0
			Well	Volume	XXX	XXX	XX	XX	XX	XX	XX	3.10	3.20	3.20	3.20	3.20
			Total	Depth	137.00	137.00	137.00	137.00	137.00	137.00	XX	141.40	141.40	141.40	141.40	141.40
			Depth to	Water	122.12	121.96	121.93	121.88	121.66	121.80	XXX	121.81	121.59	121.61	121.62	121.63
			MM		4	4	4	4	4	4	4	4	4	4	4	4



				Comments													
				Sulfate		198	238	224	224	201	187	136	142	139	152	186	173
				Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
				Toluene Ethyl Benzene Total Xylenes Sulfate		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
				Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Rice Engineering Operating		Lea County, New Mexico	TDS Benzene		<0.001	0.0105	<0.001	0.00292	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
-	eering	Z-H	ity, Nev	TDS		894	1130	792	1072	636	767	852	662	969	786	984	748
-	Engin	(a Coun	Ö		195	310	160	165	202	172	147	159	167	197	209	186
	Rice		Le	Sample	Date	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06
				Volume	Purged	30.0	30.0	25.0	8.0	25.0	30.0	XXX	20.0	20.0	15.0	15.0	15.0
-				Well	Volume	XX	XXX	XXX	XXX	XXX	XXX	XX	3.20	3.30	3.30	3.20	3.20
				Total	Depth	135.00	135.00	135.00	135.00	135.00	135.00	XX	140.00	140.00	140.00	140.00	140.00
				Depth to	Water	120.15	120.04	119.98	119.93	119.73	119.88	XXX	119.80	119.68	119.65	119.69	119.74
				MM		2	2	S.	2	2	2	2	2	2	2	2	5



APPENDIX A

R/O System

Rice Operating Company - H-2 RO System Operating Recap - 2006

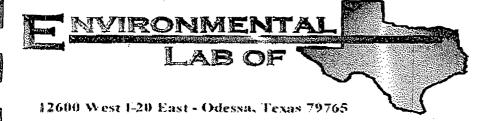
	Rice	Operating	Compan	<u>ıy - п-2</u>	KO Syste	m Operating	3 Recap - 2006	
Date	Activity	Conductivity	Field Cl- mg/L	Lab Cl- mg/L	MW-2 Conductivity or Lab data	Water injected into MW-1 from T-2 in gallons	Elevated CI water trans. from T-2 to T- 1 for reprocessiong in gallons	Waste water metered to disposal in gallons
	Set unit and load tanks with fresh water, approximately 1300 gallons, start up unit		, and the second	Ĭ				
11/9/2006	Discharge water to MW-1				Field 1160 mg/L	925		197
11/17/2006	Discharge water to MW-1	983µS Lab	318	171		1250		551
11/21/2006	Transfer water from T- 2 to T-1 for makeup						130	868
11/25/2006	Transfer water from T- 2 to H-2 Disposal	819 µS	260					1579
11/26/2006	Transfer water from T- 2 to T-1 for makeup						400	1875
11/28/2006	Transfer water from T-							1766
12/5/2006	Transfor water from T				lab 1240 mg/L 4,500µS		200	1792
12/8/2006	Discharge water to MW-1			130	•	1165		1936
12/12/2006	Discharge water to MW-1	174 µS field 179µS Lab	90	48		560		2225
12/13/2006	Discharge water to MW-1	170 μS	70			425		2327
12/14/2006	Discharge water to MW-1	202 μS	50			750		2462
12/14/2006	Discharge water to	193 µS	90			500		2648
12/19/2006	Discharge water to	185 µS				675		2887
12/21/2006	Discharge water to	189 µS	69			475		3221
12/22/2006	Discharge water to MW-1	185 µS	70			330		3367
12/26/2006	Discharge water to	186 μS field 201 μS Lab	60	60		515		3976
12/27/2006	Discharge water to	199 µS	80		Field 5,084µS 1600 mg/L	600		4166
12/28/2006	Discharge water to MW-1	192 µS	60		J	605		4372
12/30/2006		200 µs	70			175	5	4455
1/3/2007	Discharge water to MW-1	202.8 µS Field 203 µS Lab	70	56		750)	5007
	Totals					9700	730	5007
	Total volume of water processed	14707 gallons				66%		33%

APPENDIX B

Lab Analysis

Lab Analysis

3/16/2006



Analytical Report

Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Justis H-2 SWD
Project Number: None Given
Location: Lea County

Lab Order Number: 6C02021

Report Date: 03/16/06

Rice Operating Co. 122 W. Taylor Project Number: None Given Hobbs NM, 88240 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/16/06 16:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6C02021-01	Water	02/27/06 14:50	03/02/06 16:05
Monitor Well #2	6C02021-02	Water	02/27/06 10:00	03/02/06 16:05
Monitor Well #3	6C02021-03	Water	02/27/06 13:05	03/02/06 16:05
Monitor Well #4	6C02021-04	Water	02/27/06 12:00	03/02/06 16:05
Monitor Well #5	6C02021-05	Water	02/27/06 11:10	03/02/06 16:05

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Færris-Pope

Fax: (505) 397-1471

Reported:
03/16/06 16:49

Organics by GC

Reputing													
Analyte	Result	Reporting Limit	Unin	Dilution	Batch	Prepared	Analyzed	Method	Note				
Monitor Well #1 (6C02021-01) Water													
Benzene	, ND	0.00100	mg/L	ì	EC60704	03/07/06	03/08/06	EPA 8021B	· · · · · · · · · · · · · · · · · · ·				
Tolucne	ND	0.00100	-	•	•	u	•						
Ethylbenzene	ND	0.00100	-	-	h	-	77	41					
Xylene (p/m)	МD	0.00100	n		*	•	m	14					
Xylene (o)	ND	0.00100	"	13-	r ·	P .	в	n					
Surrogate: a,a,a-Trifluorotoluene		91.8%	80-1	20		77		n					
Surrogate: 4-Bromofluorobenzene		99.5 %	80-12	20	•	77	"	•					
Monitor Well #2 (6C112021-02) Water													
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B					
Toluene	ИD	0.00100	n	•		7-	,,	11					
Ethylbenzenc	ND	0.00100	n	n	•	n ·	n	**					
Xylene (p/m)	ND	0.00100	•	•	•	4	•	11					
Xylene (o)	ND	0.00100	•	••	H	•	*	11					
Surrogate: a,a,a-Trifluorotoluene		90.0 %	80-12	20	,	v		*					
Surrogate: 4-Bromofluorabenzene		90.0%	80-12	2 0	77	*	~	•					
Monitor Well #3 (6C02021-03) Water			•										
Велхенс	ND	0.00100	mg/L	ì	EC60704	03/07/06	03/08/06	EPA 80218	,				
Toluené	ND	0.00100	u	u	n	"	te	v					
Ethylbenzene	ND	00100,0	•	••	**	**	**	u					
Xylenc (p/m)	ND	0.00100	-	-	u	•	n	-					
Xylenc (o)	ND	0,00100	-	7		n	u	7					
Surrogate: a.a.a-Trifluorotoluene		90.8%	80-1	20		F	77						
Surrogate: 4-Bromoffworobenzene		93,5 %	80-12	20		*	TF.	"					
Monitor Well #4 (6C02021-04) Water													
Вспхене	ND	0.00100	πιg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B					
Foluene	ND	0.00100	-	-	79	-	-	in					
Ethylbenzene	ND	0.00100	п	}+			п	3*					
Xylene (p/m)	ND	0.00100	-	-	0	-	•	-					
Xylene (a)	ND	0.00100	n	п	H	н	н	n					
Surrogate: a.a.a-Trifluorotoluene		89.5 %	80-1.	20	<u></u>	,,		<u>.</u>					
Surrogate: 4-Bromofhiorobenzene		92.8 %	80-1.	20		r	n	-					

Project: Justis H-2 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Reported: 03/16/06 16:49

Organics by GC

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Manitor Well #5 (GC02021-05) Water									
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluenc	ND	0,00100	-	•	•		**	n-	
Ethylbenzene	ND	0.00100	77	U	*	. "	ď	M	
Xyleze (p/m)	ND	0.00100	T	•	7		*	H	
Xylene (o)	ND	0.00100		11-		**			
Surrogate: a,a,a-Trifluorotoluene		91.2%	80-12	0	#	٠.	•	7	
Surrogaic: 4-Bromofluorobenzene		97.0%	80-12	20	77	tr .	•	-	

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/16/06 16:49

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Propared	Analyzed	Method	Note
Monitor Well #1 (6C92021-01) Water				,,,,,					
Total Alkalinity	154	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310,1M	
Chloride	414	10.0	**	20	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	1120	5.00	.=	1	EC60607	03/03/06	03/06/06	EPA 160,1	
Sulfate	157	10.0	"	20 .	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #2 (6CU2021-02) Water									
Total Alkalinity	110	2.00	rng/L	1	EC60905	03/09/06	03/09/06	EPA 310,1M	
Chloride	1360	12.5	ч	25	EC60320	03/03/06	03/07/06	EPA 300,0	
Total Dissolved Solids	3450	5.00	u	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	139	12.5	-	25	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #3 (6C02021-03) Water									
Total Alkalioity	162	2.00	mg/L	1	ÉC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	26.8	5.00	м	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	562	5.00		į	EC60607	03/03/06	03/06/06	EPA 760.1	
Sulfate	123	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #4 (6C02021-04) Water									
Total Alkalinity	166	2,00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	29.1	5.00	**	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	542	5.00	-	1 -	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	136	5.00	. "	10	EC60320	03/03/06	03/07/06	EPA 300,0	
Mouitor Well #5 (6C02021-05) Water						·			
Total Alkalinity	142	2.00	mg/L	• 1	EC60905	03/09/06	03/09/06	ЕРА ЗІО.1М	
Chloride	167	5.00		10	EC60320	03/03/06	03/07/06	EPA 300,0	
Total Dissolved Solids	696	5.00	-	1	EC60607	03/03/06	03/06/06	EPA 160,1	
Sulfate	139	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	

Project Justis H-2 SWD Project Number: None Given Fax: (505) 397-1471

Reported: 03/16/06 16:49

Project Manager Kristin Farris-Pope

Total Metals by EPA / Standard Methods

		Reporting							•
Analyte	Result	Limit	Units	Dilution	Batch.	Prepared	Analyzed	Method	Note
Monitor Well #1 (6C02021-01) Water									
Calcium	144	0.500	mg/L	50	EC60711	03/07/06	03/07/06	EPA 60105	
Maguesium	54.7	0.0100	•	10	-	,	P	m	
Potașsium	8.81	0.500		п	•	11	71	Ħ	
Sodium	186	0,500	п	50	n	n	n	n	
Monitor Well #2 (6C02021-02) Water									
Calcium	349	0.500	mg/L	50	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	144	0.0500	-	**	7	n		n	
Yotassium	14.5	0.500	7	10	n	n	n	17	
Sodium	229	0.500	'n	50	33	n	n	n	
Monitor Well #3 (6C02021-03) Water			<u></u>						
Calcium	45,6	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 60108	
Magnesium	24.6	0.0100	•	•	-	7	. 17	n	
Potassium	5.30	0.500	-		7	u	и	"	
Sodium	59.8	0.100		11	11	, "	н	1)	
Monitor Well #4 (6C02021-04) Water									
Calcium	38.1	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	,
Magnesiam	21.0	0.0100	41	#	•	-	#	•	
Potassium	4.86	0.500	u	4	**	π	n	п	
Sodium	56.4	0.100	**	п	п	17	H.	ıı	
Mouitor Well #5 (6C02021-05) Water				•					
Calcium	70.0	0,100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	34.2	0,0100	77		**	•	7	•	
Potassium	5.91	0.500	**	n	•	74	W	·	
Sodium	77.5	0.500	1+	50		"		**	

Project: Justis H-2 SWD
Project Number: None Given

Fax: (505) 397-1471

Reported: 03/16/06 16;49

Organics by GC - Quality Control Environmental Lab of Texas

Project Manager: Kristin Farris-Pope

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch EC60704 - EPA 5030C (GC)										
Blauk (EC60704-BLK1)				Prepared: 0	3/07/06 A	nályzeď: 03	/08/06			
Велисте	ND	0.00100	ing/L							
Foluene	ND	0.00100	39							
Sthylbarzane	ND	0.00200	24							
Cylene (p/m)	ND	0.00100	b							
Xylene (o)	ND	0.00100	n							
Surrogate: a,a,a-Triffuorotoluene	37.1		ug/l	40.0	<u>_</u>	92.8	80-120			
Surrogate: 4-Bromoflw)ruhemene	39.5		17	JO.0		98.8	80-120			
LCS (EC60704-BSI)				Prepared: (03/07/06 A	nalyzed: 03	3/08/06			
Benzene	0.0440	0.00100	mg/L	0.0500	. "	88.0	80-120		,	
Toluenc	0,0489	0.00100	•	0.0500		97.8	80-120			
Ethylbenzene	0,0569	0.00100	-	0.0500		314	80-120			
Kylene (p/m)	0.117	0,00100	-	0.100		117	80-120			
Xylene (o)	0.0590	0.00100	hà.	0.0500		118	BO-120			
Surroguiz: a.a.a-Triflwirotoluene	38.7		uy/I	40.0		96.8	80-120			
Surrogale: 4-Bromofluorobenzene	42.3		"	40.0		106	80-120			
Calibration Check (EC60704-CCV1)				Prepared:	03/07/06 A	nalyzed: 03	3/09/06			
Benzone	40.1		սբ/l	50,0		80.2	80-120			
Tolucne	40.R		•	50.0		81.6	80-120			
Ethylbenzene	42.9		77	50.0		85.8	80-120			
Xylere (p/m)	88.4		n	100	•	88.4	80-120			
Xylena (o)	14.3			50.0		88,6	80-120			
Surrogale: a,a,a-Trifluorololuene	34.1			10.0		85,2	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		-	40,0		81.8	80-120			
Matrix Spike (EC60704-MSI)	Sec	arce: 6C03007	-06	Prepared:	03/07/06 A	malyzed; 0	3/09/06			
Benzanc	0.0403	0.00100	mg/L	0.0500	ND	80.6	80-120		,	
rolucie	0.0432	0.00100	*	0,0500	ND	86.4	80-120			
Ethylbenzene	0,0464	0.00100	**	0,0500	ND	92.8	80-120			
Xylene (p/m)	0,0971	0.00100	77	0.100	ND	97.1	80-120			
Xylene (o)	0,0476	0,00100	п	0.0500	ΝD	95.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.4		ng/I	40.0		91.0	NU-120			
Surrogate: 4-Bromoftworoberzens	43.8		77	40.0		110	80-120			

Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/16/06 16:49

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Lavel	Result	%REC	Limits	RPD	Limit	Notes
Ratch EC69704 - EPA 5030C (CC)										

Matrix Spike Dup (EC60704-MSD1)	Som	rce: 6C03007-	06	Prepared: 03	3/07/06 A	nalyzeď; O	3/09/06			
Bonzaie	0.0433	0.00100	mg/L	0.0500	ND	86.6	80-120	7.18	20	_
Toluene	0.0472	0.00100		0,0500	ND .	94.4	80-120	8.85	20	
Ethylbenzene	0.0539	0.00100		0.0500	ND	108	80-120	1 <i>5</i> , ī	20	
Xylene (p/m)	0,112	0.00100	73	0.100	dИ	112	80-120	14.3	20	
Xylone (o)	0,0541	0,00 t00	~	0.0500	ND	108	80-120	126	20	
Surrogate: a,a,a-Triftuorotoluene	36.5		ug/1	40.0		91.2	80-120			
Surrogate: 4-Bramafluorahemzene	38.0		*	40.0		95.0	80-120			

Rice Operating Co.
Project: Justis H-2 SWD
Fax: (505) 397-1471
122 W. Taylor
Project Number: None Given
Reported:
Hobbs NM, 88240
Project Manager: Kristin Farris-Pope
03/16/06 16:49

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch EC60320 - General Preparation (WetChem)									
Blank (EC60320-BLK1)	•			Prepared: (3/03/06 A	nalyzed: 03	/07/06			
Chloride	ND	0.500	mg/L					~		
Sulfide	ND	0,500	,							
LCS (EC60320-RS1)				Prepared: (03/03/06 A	/07/06				
Sulfate	8.49		шүЛ.	10.0		84.9	80-120			
Chloride	8.77		•	10.0		8 7 .7	80-120			
Calibration Check (EC60320-CCV1)		Prepared: 0	03/03/06 A	nalyzed: 03	/07/06					
Chloride	937		ng/L	10.0		93.7	80-120			
Sulfate	9.44		И	10.0		94.4	80-120			
Duplicate (EC60320-DUPI)	Sou	rce: 6C02021	03	Prepared: 03/03/06 Analyzed: 03/07/06						
Chloride	27.1	5.00	mg/L	·	26.8			1.11	20	
Sulfate	124	5,00	IT		123			0.810	20	
Batch EC60607 - General Preparation (WetChen)									
Blank (EC60607-BLK1)		_		Prepared:	03/03/06 A	nalyzed: 03	3/06/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EC60607-DUP1)	Sou	rce: 6CUZ020	-01	Prepared:	03/03/06 A	nalyzed; 0	3/06/06			
Total Dissolved Solids	524	5.00	mg/L		538		,	2.64	5	
Duplicate (EC60607-DUP2)	Sou	rce: 6C02021	-03	Prepared:	03/03/06 A	unatyzed: 0.	3/06/06			
Total Dissolved Solids	570	5,00	mg/L		562			1.41	5	

Rice Operating Co.

Project Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given Project Manager: Kristin Farris-Pope Reported: 03/16/06 16:49

General Chemistry Parameters by EPA / Standard Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	крD	Limit	Notes
Batch EC60905 - General Preparatio	m (WctChem)	·	:							
Blank (ECK0905-BLK1)		Propared & Analyzed: 03/09/06								
Total Alkalinity	ND	2,00	mg/L							
LCS (EC60905-BS1)				Prepared &	Analyzed:	03/09/06				
Bicarbouste Alkalinity	216	2.00	mg/L	200		108	85-115			
Duplicate (EC60905-DUI'1)	Sou	rce: 6C 02020	01	Prepared & Analyzed: 03/09/06						
Total Alkalimity	195	2.00	ing/L		194			0.514	20	
Reference (EC60905-SRM1)				Prepared &	2 Analyzed	03/09/06				
Total Alkelinity	97.0		mg/L	100		97.0	90-110			··

Rice Operating Co.

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor

Sodium

Project Number: None Given

Reported: 03/16/06 16:49

1.07

20

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC60711 - 6010B/No Digestion										
Blank (EC60711-BLK1)				Prepared &	Analyzed:	03/07/06				
Calcium	ND	0,0100	mę/L							
Magnesium	ND	00100.0	-							
Potassium	ND	0.0500	-							
Sodium	ND	0.0100	*							
Calibration Check (EC60711-CCV1)				Prepared & Analyzed: 03/07/06						
Calcium	2.04		mg/L	2.00		102	85-115			
Mognesium	2.09		77	200		104	85-115			
Potassium	1.90		п	2.00		95.0	85-115			
Sodium	1.85		**	2.00		92.5	85-115			
Duplicate (EC60711-DUP1)	Source: 6C02020-01			Prepared &	. Analyzed:	03/07/06				
Calcium	73.7	0.100	ınţ:∕I.		72.7			1.37	20	
Magnesida	15.8	0.0100			15.2			3.87	20	
Potassium	3.61	0.0500	77		3.71			2,73	20	

37,6

0.100

Rice Operating Co.
Project Subsis H-2 SWD

122 W. Taylor
Project Number: None Given Reported:
Hobbs NM, 88240
Project Munager: Kristin Farris-Pope 03/16/06 16:49

Notes and Definitions

DEI	Altalyte Detection
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
rcs	Luboratory Control Spike
MS	Matrix Spile
Dup	Duplicate

	Raland KJulis			
Report Approved By:	Rucari C Ro	Date:	3/16/2006	

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

電報報覧

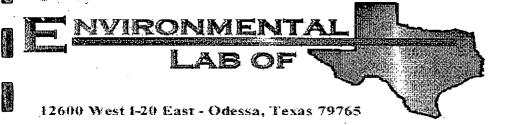
									(Sinneries)	TAT bisbrist2	×	×	×	<u>-~ </u>	긔	+	+	+	-	-		heer				
				- 1		Γ	T		(disp-date	J TVI IISIIL		T	┪	\dashv	_	寸	1	1	十	 		- 1		٠,٠		:
				İ													·				Z	Č.				
		[- {	- (.,				_[_[_		1	()		<u>.</u>	•	•	• •	
										ebito3 bertrezit j.de)	×	×	_ <u>~</u>	<u>~</u>	<u> </u>	-1				-{ '	関に	4,6			٠.	
			. [- [MO.R.M.					-	-+	-+	┯╁		-	(g)	. <i>{</i> 3.,		· .	٠.	•
			2	. }		1				B1EX 8021B/5030	_	×	×	×	×	+	+		+	4		3	氰	•		•
	≸		County	Ì		j	×			South Annual Control of Control o					1		7	寸	+				TETTO			
	Project Name: Judis H-2 SWD	ļ	Ö				ĕ - -	╁		and it show						1	_	1		Sample Containers Intact?	Custody Sagle: Containers	D. D	Laboratory Comments:			
	2		Lea	-		1	H	T	eट क्षेम दम प	Mather As Ag Ba Cd C										ैं	y Sa	3	Ş		. •	٠.
	릙		1				TOLP			ञ्चञ । बङ्ग । ४५ ४										Ę	e pot	<u> </u>	200		٠.	
	E E	14.	8	₩ ₩			٤١٦			Anions (CI, SO4, COB,	_	-	×	×	×					8	<u> 35</u> 5		<u> </u>	· 		·
	2	Project#	- -	ň						التعنوسة (لك، الأور الكر ا	×	×	<u>×</u>	×	×			_		4			2		4	ίŽ
	ojeo	2	Project Loc:			L	Ц.	1	9001 5001	MR2108 1.814 3497	-	-		-	\vdash			-	+	4			Time		Time	1605
	Ē							×		367 367 367	╁	\vdash			$\left \cdot \right $	{			-	\dashv	Ĕ		-			
								Vietry X	<u> </u>	Eludge	-			-		一	\dashv	-+	-	┨,	<u> </u>				40	ž
	1	1	- 1	ļ	1	1				PARM	×	×	×	×	×	-			-	7	Š		Date	j	2 86	03.020
		-		.		. [Other (Speaky)										7	89					Đ
	-		.							PROTEST (1) DOWN	~	<u>~</u>	٧.	**	٧-] ;	&					
				ı		ı		Preservative		H ² EO'	<u> </u>	L	L] ,	k 3(İ	•
					47			1935		HOW		<u> </u>	<u> </u>	_			-		-	4	ran				l	
	-	1		- }	-	1		d	=	#C(⟨2) 40 ml gkzzz vč	N	64	- 24		7					-	Ē					3
	-	1	1.	١	36	- 1			<u> </u>	HOAD?	×	×	×	×	×	\dashv			+	\dashv	্					3
					S			_	ļ <u> </u>	No. of Containera	6	+		63					\dashv	+	Ď					٦.
			}		삒	į	ı				H	"	<u> </u>	Ë	, ii					-	9t.					<u>ئ</u>
	СОШ				Fax No: (505) 397-1471	1	3	<u> </u>		bakimise omil	14:50	10:00	13:06	12:00	11:10	·					kpriceswd@valomet.com & mfranks@riceswd.com					CAJUA, O
	wd@valomet.com					310	7	12/	A	Dalqme& Sangled	2/27/2006	2/27/2006	2/27/2006	2/27/2008	2/27/2006					1	Ä		Received by:		Received by ELOT:	0.70
	kpricesy	этрапу	igt.	o 88240		Sampler Signature: Rozanne Johnson (505) 631-9310	mos	\													PLEASE Email RESULTS TO		Time		Time	
	arris Pope	perating Co	Taylor Stre	New Mexic	13-9174	Johnson	@valomet			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	וברל מממר										E Email F		Oata	3/2/04	Date	
	Project Manager: Kristin Farris Pope	company Name RICE Operating Company	Company Address: 122 W. Taylor Street	Cllystatics: Hobbs, New Mexico 88240	Telephone No. (505) 393-9174	re: Rozann	Email: rozanne@valomet.com			и	Month of Melon	Monitor Well # 2	Monitor Well # 3	Monitor Well #4	Monitor Well # 5						PLEAS	6		V		
	sńać	y Na	dera	ZI RE	Ë	natu	5				٤		2 2			1							1	<i>``</i> ,	1	
-	Project Mi	Company	Company A	Cityist	Telepho	Sampler Sig				000	\cdot		150	200	200					Special Instructions:		(Aggreen by	Rozenne divina	Relinguished by:	
:											1			1 .	1] ,				200	<u> </u>		K	1 8	88 E	
																							1	MI	1	

Environmental Lab of Texas Variance / Corrective Action Report - Sample Log-In

Client: <u>Rice Op</u> ,					
Date/Time: 3/2/010 110:05					
Order #:	•				
Initials;					
Sample Receipt C	heckli	st			
Temperature of container/cooles?	Yes 1	No	-1.0	CI	
Shipping container/cooler in good condition?	X35	No		i	
Custody Seals intact on shipping container/cooler?	XIIS	No.	Not prese	nt	
Custody Seals intact on sample bottles?) Zes_	No	Not prese	nt i	
Chain of custody present?	NED!	No		· ·	
Sample Instructions complete on Chain of Custody?	Yes	No		i	
Chain of Custody signed when relinquished and raceived?	YES	No			
Chain of custody agrees with sample label(s)	Xes,	No			
Container labels legible and intact?	\(\(\mathbb{E}\)\(\mathbb{E}\)	No			
Sample Matrix and properties same as on chain of custody? Samples in proper container/bottle?	(E)	No		<u>}</u>	
Samples in proper container/conte? Samples properly preserved?	YES	No No			
Sample bottles intact?		No	<u> </u>		
Preservations documented on Chain of Custody?	KES	No		<u>'</u>	•
Containers documented on Chain of Custody?	(73s	Na			
Sufficient sample amount for indicated test?	1000	No			
All samples received within sufficient hold time?	Ysa	No			
VOC samples have zero headspace?	Y (2)	No	Not Applica	able	
Other observations: Gumples not fozen.		•			
Variance Docum Contact Person: Date/Time: Regarding:			Contacted	by:	,
Corrective Action Taken:	·				
Solitedaye / today / Erest.				•	
		~~~			
•			-		
				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
	•		· <u> </u>		
	•			****	

Lab Analysis

6/23/2006



# Analytical Report

## Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Justis H-2 SWD
Project Number: None Given
Location: Lea County

Lab Order Number: 6F15003

Report Date: 06/23/06

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6F15003-01	Water	06/14/06 09:30	06/15/06 07:50
Monitor Well #2	6F15003-0 <b>2</b>	Water	06/14/06 12:45	06/15/06 07:50
Monitor Well #3	6F15003-03	Water	06/14/06 10:45	06/15/06 07:50
Monitor Well #4	6F15003-04	Water	06/14/06 13:50	06/15/06 07:50
Monitor Well #5	6F15003 <b>-</b> 05	Water	06/14/06 14:45	06/15/06 07:50

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

## Fax: (505) 397-1471

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6F15003-01) Water									
Benzono	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Coluene	ND	0.00100	Ħ	п	"	IF	.#	. н	
Ethylbenzene	ND	0.00100	n	н	n	u	п	"	
(ylene (p/m)	ND	0.00100	ır	"	u	ч	n	Ħ	
(ylene (o)	ND .	0.00100		N .	H				
Surrogate: a,a,a-Trifluorotoluene		106 %	80	-120	ır	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	-80	-120	"	•	,,	п	
Monitor Well #2 (6F15003-02) Water								· · · · · · · · · · · · · · · · · · ·	
Benzenc	ND	0.00100	mg/J_	i	EF61921	06/19/06	06/20/06	EPA 8021B	
l'oluene	מא	0.00100	Ħ	n	U	n	n	н	
Ethylbenzenc	ND	0.00100	Ü	#1	п	n	Ħ		
Xylene (p/m)	ND	0.00100	"te	"	п	41	n	IT.	
Xylene (o)	ND	0.00100	и	н	#	n ,	11	11	
Surrogate: a,a,a-Trifluorotoluene		107 %	80	7-120	ır	"	"	"	
Surrogate: 4-Bromofluarabenzene		106 %	80	0-120	μ	"	"	n	
Monitor Well #3 (6F15003-03) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ИN	0.00100	н	17	.0	ĮI	u	п	
Ethylbenzenc	ND	0.00100	10	u	đ.	и	n	11	
Xylenc (p/m)	ND	0.00100	н	н	et .	U	Ħ	fl	
Xylene (o)	ND	0.00100	17			at		H	
Surrogate: a,a,a-Trifluorotoluene		93.5 %	8	0-120	17	n	n	"	
Surrogate: 4-Bromofluorobenzenc		98.8 %	8	0-120	a	"	,,	ıı	
Monitor Well #4 (6F15003-04) Water									
Benzene	ND	0.00100	mg/L	. 1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	u	n	11	μ	11	
Ethylbenzene	ND	0.00100	14	n	n		μ	D	
Xylene (p/m)	ND	0.00100	11	н	11	n	tı	,	
Xylene (o)	ND	0.00100	11	n	н	11	tı	n	
Surrogate: a,a,a-Trifluorotoluene		93.0 %	. 8	30-120	"	n	4	н	
Surrogate: 4-Bromofluorobenzene		93.2 %	S 8	80-120	"	ıl	n	п	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory, This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Project: Justis H-2 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

## Organics by GC **Environmental Lab of Texas**

Апаlусс	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyz <b>c</b> d	Method	Notes
Monitor Well #5 (6F15003-05) Water	-								
Benzene	· ND	0.00100	mg/l,	Ι.	EP61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	H	Ħ	ĸ	μ	**	ч	
Ethylbenzene	ND	0.00100	u .	IT	n	11	IF	11	
Xylene (p/m)	ND	0.00100	11	11	"	Ħ	W .	u	
Xylene (o)	ND	0.00100	н	n n		U	В	ii .	
Surrogate: a,a,a-Trifluorotoluene		88.5 %	80-12	20	"	"	11	<i>u</i>	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-12	20	п	"	n	n .	

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6F15003-01) Water									
Total Alkalinity	166	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	206	5.00		10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	782	5.00	u	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	151	5.00	**	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #2 (6F15003-02) Water									
Total Alkalinity	148	2,00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	1260	25.0	77	50	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	3520	5.00	17	l	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	204	25.0	. 0	50	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #3 (6F15003-03) Water									
Total Alkalinity	174	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	38.3	5.00	11	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	514	5.00	ti	. 1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	151	5.00	Ħ	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #4 (6F15003-04) Water	•		_						
Total Alkalinity	188	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	39.6	5.00	*	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	564	5.00	И	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	157	5.00	II .	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #5 (6F15003-05) Water	*								
Total Alkalinity	154	2.00	mg/U	1	EF62316	06/22/06	06/22/06	EPA,310.1M	
Chloride	197	5.00	U	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	786	5.00	n	t	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	152	5.00	ti	10	EF61 <b>7</b> 12	06/17/06	06/17/06	EPA 300.0	

Project: Justis H-2 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

## Total Metals by EPA / Standard Methods Environmental Lab of Texas

•									
Analyte  Monitor Well #1 (6F15003-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
Monitor Well #1 (6F15003-01) Water									
Calcium	81.4	0.100	mg/1.	10	EF61505	06/15/06	06/15/06	EPA 6010B	·
Magnesium	37.9	0.0100	11	u u	ų	#1	u	, 14	
Potassium	5.80	0.500	п		ii .	u	ч	н .	
Sodium	87.0	0.100	и	н	31	n	n	n	
Monitor Well #2 (6F15003-02) Water									
Calcium	341	0.500	mg/L	50	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	159	0.0500	11	ır	H	ч	n	11	
Potassium	14.4	0.500	11	10	ų	ħ	п	п	
Sodium	189	0.500	**	50	n	n	ч	π	
Monitor Well #3 (6F15003-03) Water									
Calcium	50.8	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	25.4	0.0100	n	b	и	11	"	n	
Potassium	4.58	0.500	11	11	11	н	н		
Sodium	54.9	0.100		11	11	U		u	
Monitor Well #4 (6F15003-04) Water				- "					
Calçium	44.0	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	24.1	0.0100	н	n	ti .	#	и	n	
Potassium	5.23	0.500	17	0	н	н	н	11	
Sodium	63.9	0.100	"	, H	u	· H	μ	u .	·
Monitor Well #5 (6F15003-05) Water									
Calcium	83.9	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	•
Magnesium	42.8	0.0100	n	н	σ	n	u	11	-
Potassium	5.85	0.500	a		п	, n	ı,	. 11	
Sodium	73.0	0.100	11	IT	H	"	u ·	et.	

Project: Justis H-2 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

## Organics by GC - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF61921 - EPA 5030C (GC)										
Blank (EF61921-BLK1)				Prepared:	06/19/06	Analyzed	1: 06/20/06	-		
Benzene	ND	0.00100	mg/L			*				
Toluene	ND	0.00100	n							
Ethylhenzene	ND	0.00100	ıı							
Xylene (p/m)	ND	0.00100	н							
Xylene (o)	ND	0.00100	nt	•						
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/l	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		,,	40.0		96.0	80-120			
LCS (EF61921-BS1)				Prepared:	06/19/06	Analyzed	1: 06/20/06			
Benzene	0.0529	0.00100	mg/L	0.0500		106	80-120			
Toluene	0.0579	0.00100	**	0.0500		116	80-120			
Ethylbenzene	0.0565	0.00100	11	0.0500		113	80-120			
Xylene (p/m)	0.119	0.00100	11	0.100		119	80-120			
Xylene (0)	0.0589	0.00100	"	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	41,6		ug/l	40,0		104	80-120			*******
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120			
Calibration Check (EF61921-CCV1)				Prepared:	06/19/06	Analyzed	l: 06/20/06			
Велгеле	58.0		ug/l	50.0		116	80-120			
Toluene	59.2		11	50.0		118	80-120			
Ethylbenzene	57.5		0	50.0		115	80-120			
Xylene (p/m)	119		U	100		119	80-120			
Xylene (o)	59.0		11	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.1	······································	"	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		"	40.0		96.0	80-120		•	
Matrix Spike (EF61921-MS1)	So	urce: 6F1500	1-01	Prcpared:	06/19/06	Analyze	1: 06/20/06			
Benzene	0.0488	0.00100	mg/L	0.0500	ND	97.6	80-120			
Toluene	0.0539	0.00100	71	0.0500	ND	108	80-120			
Ethylbenzene	0.0501	0.00100	n	0.0500	ND	100	80-120			
Xylene (p/m)	0.115	0.00100	и	0.100	ND	115	80-120			
Xylene (o)	0.0576	0.00100	п	0.0500	ИĎ	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	. 37.6		ug/l	40.0		94.0	80-120			
Surrogate: 4-Bromofluorohenzene	41.7		n	40.0		104	80-120			

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

Project Number: None Given Project Manager: Kristin Farris-Popc

Organics by GC - Quality Control

# **Environmental Lab of Texas**

Analyto	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPĎ	RPD Limit	Notes
Batch EF61921 - EPA 5030C (GC)										
Matrix Spike Dup (EF61921-MSD1)	So	urce: 6F1500	1-01	Prepared:	06/19/06	Analyzed	i: 06/20/06			
Benzene	0.0484	0.00100	mg/L	0.0500	ND	96.8	80-120	0.823	20	
Toluene	0.0469	0.00100	ч	0.0500	ND	93.8	80-120	14,1	20	
Ethylbenzene	0.0451	0.00100	u	0.0500	ND	90.2	80-120	10.3	20	
Xylenc (p/m)	0.0979	0.00100	17	0.100	ND	97.9	80-120	16.1	20	
Xylene (o)	0.0497	0.00100	U	0.0500	ND	99.4	80-120	14.6	20	
Surrogate: a,a,a-Trifluorotoluene	33,7		ug/l	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	80-120			

Project: Justis I4-2 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Little	Onita	1,0101	1,4500	70.000	i)iiiiQi	17. 25		
Batch EF61712 - General Preparation	(WetChem)									
Blank (EF61712-BLKI)				Prepared	& Analyza	ed: 06/17/0	06			
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	· п							
LCS (EF61712-BS1)				Prepared	& Analyz	ed: 06/17/	06			
Chloride	10.0		mg/L	10,0		100	80-120			
Sulfate	8.16		n	10.0		81.6	80-120			
Calibration Check (EF61712-CCV1)				Prepared	& Analyz	ed: 06/17/	06			
Chloride	10.9		mg/L	10.0	, , , , , , , , , , , , , , , , , , , ,	109	80-120			
Sulfate	10.5		'n	10.0		105	80-120			
Duplicate (EF61712-DUP1)	Sou	rce: 6F1401	13-01	Prepared	& Analyz	ed: 06/17/	06			
Chloride	47.9	5.00	mg/L		48.8		• •	1.86	20	
Sulfate	69.2	5.00	0 ,		69.8			0.863	20	
Duplicate (EF61712-DUP2)	Sou	rce: 6F150	03-05.	Prepared	& Analyz	cd: 06/18/	06			
Chloride	198	5.00	mg/l,		197			0.506	20	
Sulfate	154	5.00	II.		152			1,31	20	
Matrix Spike (EF61712-MS1)	Sou	ırcc: 6F140	13-01	Prepared	& Analyz	ed: 06/17/	/06			
Chloride	157	5.00	mg/L	. 100	48.8	108	80-120			
Sulfate	154	5.00		100	69.8	84.2	75-125			
Matrix Spike (EF61712-MS2)	Sou	ırce: 6F150	03-05	Prepared	& Analyz	zed: 06/18	/06			
Sulfate	249	5.00	mg/L	100	152	97.0	75-125			

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given Project Manager: Kristin Farris-Pope

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

A 41.63	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Analyte	Result	Dillit	Omes	LÆVEI	Result	MINEC	ranning	KFIJ	Dillit	INDICS
Batch EF61918 - Filtration Prepa	ıration									
Blank (EF61918-BLK1)				Prepared:	06/15/06	Analyzed	: 06/16/06			
Total Dissolved Solids	ND	5,00	mg/L							
Duplicate (EF61918-DUP1)	Sour	rce: 6F1500	1-01	Prepared:	06/15/06	Analyzed	l: 06/16/06			
Total Dissolved Solids	7770	5.00	mg/L		7820			0.641	5	
Batch EF62316 - General Prepar	ation (WetChem)	•								
Blank (EF62316-BLK1)				Prepared	& Analyze	d: 06/2 <b>2</b> /	06			
Total Alkalinity	ИĎ	2.00	mg/L					,		
Carbonate Alkalinity	ND	0.100	u							
Bicarbonate Alkalinity	ND	2.00	п							
Hydroxide Alkalinity	ND	0,100	H							
LCS (EF62316-BS1)				Prepared	& Analyze	d: 06/22/	'0 <b>6</b>			
Total Alkalinity	248	2.00	mg/L	250		99.2	85-115			
Duplicate (EF62316-DUP1)	Sou	rce: 6F1500	1-01	Prepared	& Analyze	d: 06/22/	'06			
Total Alkalinity	380	2,00	mg/L		386			1.57	20	
Carbonate Alkalinity	0.00	0.100	н		0.00				20	
Bicarbonate Alkalinity	380	2.00	11		386			1.57	20	
Hydroxide Alkalinity	0.00	0.100	п		0.00				20	
Duplicate (EF62316-DUP2)	Sou	rce: <b>6F22</b> 00	3-01	Prepared	& Analyze	:d: 06/22	/06			
Total Alkalinity	142	2.00	mg/L		144			1.40	20	
Carbonate Alkalinity	0.00	0.100	H		0.00				20	
Bicarbonate Alkalinity	142	2.00	u		144			1.40	20	
Hydroxide Alkalinity	0.00	0.100	rı		0.00				20	•

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

Project Number: None Given Project Manager: Kristin Fartis-Pope rax: (303) 397-1471

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EF62316 - General Preparation (WetChem)

Reference (EF62316-SRM1)					nalyzed: 06/22/0	06		
Total Alkalinity	78.0	2.00	mg/l.	82.0	95.1	85-115	a the constraint has been been a second banks at a second	
Bicarbonate Alkalinity	78.0	2.00	п	82.0	95.1	85-115		

Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Analyte

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Total Metals by EPA / Standard Methods - Quality Control Environmental Lab of Texas

***											
		Reporting		. Spike	Source		%REC		RPD	-	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

	EF61505 -	CO4000/61	ED: AT.
FC utch	H K 6 1 5 11 5	ACTURE/NO	BRICTAGETAR
<b>B</b> atte	#10 O ( D O D =	OOLUDITIO	DIECRION

Blank (EF61505-BLK1)				Prepared & Analyzed: 06/15/06		
Calcium	ND	0.0100	mg/L			
Magnesium	ND	0.00100	iT	•		
Potassium	ND	0.0500	Ħ	•		
Sodium	ND	0.0100	71			
Calibration Check (EF61505-CCV1)				Prepared & Analyzed: 06/15/06	•	

				mining mean (10) 10) 0	
Calcium	2.01	mg/L	2.00	100	85-115
Magnesium	2,12	4	2.00	. 106	85-115
Potassium	1.76	II	2.00	88.0	85-115
Sodium	1.74	n	2.00	87.0	85-115

Duplicate (EF61505-DUP1)	So	urce: 6F1500	1-01	Prepared & Analyzed: 06/15/06			
Calcium	316	0.500	mg/l,	320	1.26	20	
Magnesium	231	0.0500	a	229	0.870	20	
Potassium	38.4	0.500	(1	38.5	0.260	20	•
Sodium	1740	5.00	U	1760	1.14	20	

122 W. Taylor Hobbs NM, 88240 Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dгу

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

LCS

Laboratory Control Spike

MS

Matrix Spike

Dup

Duplicate

Report Approved By:

Raland & sull

Date: 6-23-06

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

な事業

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

# **Environmental Lab of Texas**

Odessa, Texas 79765 12600 West I-20 East

Phone: 432-563-1800

Fax: 432-563-1713

TAT brebnet2 elubedo2-s19) TAT H2U9 × oper Dissolved Solids M.A.O. Custody Seals, Containers / sçı Temperature Upon Receipt Sample Containers Intact Lea County aboratory Comments × × × BTEX 8021B/5030 × Project Name: Justis H-2 SVVD Analyze Labels on container? solitation Metals: As Ag Be Cd Cr Pb Hg Sc TCLP 03014831849 Project Loc: Š. Project #: × × × Cations (Ca. Mg. Na. K) 021.0 5:3 9001 2001 Matos 1.814:Hq Other (specity): gog 90/**5**1/91 0-18-0 PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com sindge × × × × × Other (Specify) Nono (1) 1 Liter HDPE *OS[®]H Fax No: (505) 397-1471 HOBN 2 3 2 HC! (2) 40 ml glase vials ~ ~ CONH 001 m No. of Containers ო 'n 3 67) 12:45 10:45 13:50 14:45 9:30 belgmas emiT kpope@riceswd.com James Johnson Received by ELO 6/14/2006 6/14/2006 6/14/2006 6/14/2006 6/14/2006 Received by: Date Sampled Sampler Signature: Rozanne Johnson (505) 631-9310 5:30 Time city/state/Zip: Hobbs, New Mexico 88240 company Name RICE Operating Company Email: rozanne@valornet.com 0/15/00 Company Address: 122 W. Taylor Street Project Manager: Kristin Farris Pope FIELD CODE Telephone No: (505) 393-9174 Monitor Well #3 Monitor Well #5 Monitor Well #1 Monitor Well #2 Monitor Well #4 Special instructions: AB # (lab use only)

# Environmental Lab of Texas Variance / Corrective Action Report - Sample Log-In

the Mile Miles				
Time: 6/5/06 7:50				
r#: 6F15003				_
0.07				
15. (1 V				•
s:		4		
Sample Receipt	Checkli	st		
erature of container/cooler?	Yes	No I	1.5	CI
ng container/cooler in good condition?	· Yas	No		
dy Seals intact on shipping container/cooler?	7 E3	No	Not prese	nt
dy Seals intact on sample bottles?		No	Not prese	nt
of custody present? le Instructions complete on Chain of Custody?	(20)	No		
of Custody signed when relinquished and received?		No No		<u> </u>
of custody agrees with sample label(s)		No		
siner labels legible and intact?	(PEE)	No		
ole Matrix and properties same as on chain of custody?	es	No		<del></del>
oles in proper container/bottle?	(25)	No		<del>-                                    </del>
eles properly preserved?		No		
ple bottles intact? ervations documented on Chain of Custody?	1 763	No		
ainers documented on Chain of Custody?	YES	No No		1
cient sample amount for indicated test?	785	No		
amples received within sufficient hold time?	T FES	No		
samples have zero headspace?	(es	No	Not Applic	able !
er observations:				
		-		
		-		
Variance Docu	ımentati	on:		
ntact Person: Date/Time;	ımentati	on:	Contacted	by:
ntact Person: Date/Time:	ımentati	on:	Contacted	by:
ntact Person: Date/Time: garding:				
ntact Person: Date/Time: garding:				
ntact Person: Date/Time:				
ntact Person: Date/Time:				
ntact Person: - Date/Time: garding:				
ntact Person: Date/Time: garding: rrective Action Taken:				
ntact Person: Date/Time: garding: pate/Time:				
ntact Person: Date/Time: garding:  rrective Action Taken:				
ntact Person: Date/Time: garding:				
ntact Person: Date/Time: garding:  rrective Action Taken:				



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

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: 06/15/06
Reporting Date: 06/19/06
Project Number: NOT GIVEN
Project Name: JUSTIS H-2SWD
Project Location: LEA COUNTY, NM

Sampling Date: 06/14/06

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: NF Analyzed By: HM

LAB NUMBER	SAMDI E ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
CHD HOMBEL	·	(11.9-)	, ( <b></b> ,	( <b>-</b>	(···g)		
ANALYSIS DA	ΓE:	06/17/06	06/17/06	06/17/06	06/17/06	06/15/06	06/17/06
H11234-1	MONITOR WELL #5	104	96	48.6	9.67	1237	120
0 5 0 4	- W	- NO	48.0	48.6	3.86	1438	NR
Quality Control	· · · · · · · · · · · · · · · · · · ·	NR NR	50.0	50	4.00	1413	NR
True Value QC		NR	96	97	97	102	NF.
% Recovery Relative Percer	nt Difference	NR NR	0.0	0.0	16		NF
METHODS:		SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
·		C[	\$O ₄	CO ₃	HCO ₃	рН	TDS
·		C[ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	рН (s.u.)	
ANALYSIS DA	TE:			, Υ	~	•	(mg/L
ANALYSIS DA H11234-1	TE: MONITOR WELL #5	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
H11234-1	MONITOR WELL #5	(mg/L) 06/16/06 196	(mg/L) 06/17/06 272	(mg/L) 06/17/06 0	(mg/i_) 06/17/06 146	(s.u.) 06/15/06 7,58	(mg/L) 06/16/06 87(
H11234-1 Quality Control	MONITOR WELL #5	(mg/L) 06/16/08 196 1000	(mg/L) 06/17/06	(mg/L)	(mg/L) 06/17/06	(s.u.) 06/15/08	(mg/L) 06/16/06 870 NF
H11234-1 Quality Control True Value QC	MONITOR WELL #5	(mg/L) 06/16/06 196	(mg/L) 06/17/06 272 25.1	(mg/L) 06/17/06 0 NR	(mg/i_) 06/17/06 146 976	(s.u.) 06/15/06 7.58 7.02 7.00	(mg/L) 06/16/06 870 NF
H11234-1  Quality Control	MONITOR WELL #5	(mg/L) 06/16/06 196 1000	(mg/L) 06/17/06 272 25.1 25.0	(mg/L) 06/17/06 0 NR NR	(mg/i_) 06/17/06 146 976 1000	7.02 7.00	TDS (mg/L) 06/16/06 870 NF NF

Cherquist Mirano

D6-19-06

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising, whether based in contract or tod, shall be limited to the amount paid by client for analyses. All claims, imputing those for negligence and any other cause whatchever shall be deemed waived unless made in writing and received by Cardinal within thiny (90) days after completion of the applicable service. In his event shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries, atfiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise,



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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: 06/15/06
Reporting Date: 06/17/06
Project Number: NOT GIVEN
Project Name: ILISTIS H 25/MD

Project Name: JUSTIS H-2SWD Project Location: LEA COUNTY, NM Sampling Date: 06/14/06

Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: BC

LAB NUMBER	SAMPLÉ ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	TE	06/15/06	06/15/06	06/15/06	06/15/06
H11234-1	MONITOR WELL #5	<0.002	<0.002	<0.002	<0.006
	_				
Quality Contro	1	0.096	0.092	0.095	0,293
True Value QC		0.100	0.100	0.100	0.300
% Recovery	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	95.7	92.3	95.4	97.5
Relative Perce	nt Difference	5.4	0.7	4.7	4.7

**METHOD: EPA SW-846 8260** 

Surfelf Cost

Date

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim artsing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be decimed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. The hold evaluation of the liabile for incidental or consequential dumages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidicaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

† Cardinal cannol accept verbal changes. Please fax written changes to 915-673-7020.

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beachwood, Abilone, TX 78803 101 East Mariand, Hobbs, NM 88240

THE REAL PROPERTY.

1000

が発展

では、

ではない

英峰

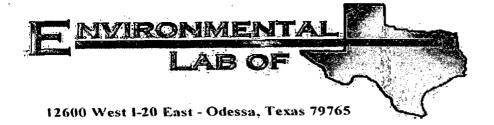
Sales Sales

10000000

	Company Name: 7	(1915) 673-7001 Fax (1916) 673-7020	2 C	5)	S 2		£ 1	3-28;	28 F.	3x (2i	)5) 3¢	(505) 393-2328 Fax (505) 393-2478	٦					NAL	ANALYSIB	36 11	REQUEST	- 1	388	1 5		1	1 2
	Project Manager:	Kristill Farris "Ref	- 2						01 1319		8	<u></u>		(	E ()		(7	٠.	,								
	Address: A.J.	(4) Tayluk Street	7	1	}		O	Company.	žų.				,	>	10A		14		2/2								
	Olty: Ather	_	33	14C	رح		₫	Attn:						1,3	2		र्ग)	_	ار ر					-			
	Phone # (ACA)	793-6174					₫.	Address	ģ					γN	J,				5							<del></del>	
	Fax # (205)	1241-1421					<u> </u>	CIty:						T	) <del>(</del> (	٠,,			Pi						<u>-</u>		
	Project #:	Project Owner:					Ø	State:			Zp			UJ	25				M				_ ·				
	Project Name:	UNSX-H-ZSULD					<u>a</u>	Phone #	42					D	1				Óζ							· 	
	Project Location:	Loss County					4	英	Fax A.					J,	<u> </u>				\$5						.,		
	FOR LAB USE CHLY	/	H		Ž	MATRIX			RES.		SAMPLING	2		)	)				!(								
			C)OMP.	HEI/	원크									Sui a	24		X3		J.				•				
	LAB I.D.	Sample I.D.	AB OR (	MONT	TAVYET				COOR	, , ,				1+4	NI'S		[[S		42				***.				
				еко	SAW	Jo	SLUE	CEDA	ICE /		DATE		TIME		H		1		Ц								1
	H8234-	11/62, he 6/2/145 6	6 3	~				×	<u></u>	-97	7012-7	1445	T.	X	×		X		×						1		- 1
																	_								1	+	1
1			-		+		-	$\neg$		_		1	1													-	i
			+	1	$\dashv$		$\dashv$		_	_		$\perp$														-	1
			+	1	+	-	-		1	+				٠	-											+	1
			+	1	+		-	T		4.		1														+	1
			+		-	-	+	1		+																	•
		A control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	1	1	1		-		-	-																	Į i
			-																							_	. 4
,	PLEASE MOTE: Lettery and Ca unalyses, Alceins inducting the	FIXES NOTE: LIXEW BACKETS CONTROLS CALLING THE GRADING FOR THE WASHINGTON TO SEND THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF	challs challs	Sensor Sensor	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	See To	Mared V are the	Serving Singlesed	torkot, Intostra Serefu	thai bei	miljadko k Shal 4995 Shakarofi	ang wrietter bared in corung orten, sha i be Britisalo his emosar peld by the start for the believes mote brushling zochoedende by Edicator Wish 30 divis paste contribution of the affectable lives. Nations in Harnations, bear of one, or tas of ords insured by tiles, he substitution	spend by the class of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of the conf	he claim to Medical ce la The electric	7175 78 EDORES	4		15 P	nya kata da nya kata d ni darka al	Teinne gind Craystiones exercit voti de Craisdo on 30 days saist dus ei the rate of 124% per exportition 81% ei gants of oxtestotes, fixalath, externey's fies	oresectives of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t	O Die chair 6 per maho 6 sekemer	Yajang dang Commulain na meneri wai tao Changod on ah Busouma mana Unas 30 daya tsata dan an dan meneri 223,5 per maman farmi tao engined tsato of fermicos, and an ensis of collectoria, finaleting ablomen's Ness.	Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio	era chas Se offer	Ace,	
	pilitas or societate antifico	At case water to the performance of performance of the case here	4147	E S		3	7		100 N	a Lucan	a line	Actions of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	of match	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	100	No Addisonal Fax B	Hur						-			- 4
	Sampler Railnamed	Sampler reinaufsneur	2000	2		). [2]	-					緸	Fax Reputi FBITARKS:		□ Yes	2											- 1
7	Religinghed By:	Christin Date:		Re	Receive	ved Bv: (Lab Braff)	La	6 8 ta	E		ļ.,	7	イソ	V	7	MAT	NACHARATE RESIDENCE	ii CX	Y V	7	įΛ	<del>à</del> 0	-				
		Time			م						ģ	æ.	$\frac{7}{2}$		, ,		) <u>C</u>	2	3	3	ں ≏ ∩ خا	ر ق	<b>S</b>			٠	
	Dalivered By: (Circle One	Circle One)		100	E E	등	High	<u> </u>	害	HECKED BY	BY:	-1	_	ر ح	P T	ე ქ	ŊG	֧֧֧֧֧֓֞֞֞֞֞֝֝֟֝֓֓֓֟֝֟֝֓֓֟֝֟ ֓֞֓֞֓֞֓֞֞֞֩֞֞֩֞֞֩֞֞֞֩֞֩֞֞֞֞֩֞		2		; ;	(	٠.			
	Sampler UPS .	. Bus . Other:		<del>-</del>	_ Z⊠	Cool Infact N Yes Ves	, 5 8 7, 1		= `;				 	غ مل پر م	ACC.	ر مراز مراز	m t-1200 KS (C) C1 CC SUSA CC C C	ر ک	ر ا	(	ن پار	د ز	- (				
				_	d	<u>ان</u>	2	4	1	d		1	7	1	<u>Ş</u>	ال	1	3		5	٦		1		4	-	1

Lab Analysis

9/25/2006



# Analytical Report

## Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Justis H-2 SWD
Project Number: None Given

Location: T26S-R37E-Sec2H- Lea County, NM

Lab Order Number: 6I14012

Report Date: 09/25/06

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6[140]2-0]	Water	09/13/06 15:50	09-14-2006 16:00
Monitor Well #2	6114012-02	Water	09/13/06 13:20	09-14-2006 16:00
Monitor Well #3	6114012-03	Water	09/13/06 09:35	09-14-2006 16:00
Monitor Well #4	6114012-04	Water	09/13/06 10:50	09-14-2006 16:00
Monitor Well #5	6114012-05	Water	09/13/06 12:05	09-14-2006 16:00

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

# Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6114012-01) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/19/06	EPA 8021B	
Toluene	ND	0.00100	"	11	**	и	"	"	
Ethylbenzene	ND	0.00100	e	IJ	n	11	11	n	
Xylene (p/m)	ND	0.00100	**	"	u	п	n	**	
Xylene (o)	ND	0.00100	"	11	н	"	11	**	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-	120	"	"	"	"	
Monitor Well #2 (6114012-02) Water									
Benzene	NĎ	0.00100	mg/L	!	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	**	"	"	n	1+	
Ethylbenzene	ND	0.00100	п	"	n	**	"	II.	
Xylene (p/m)	ND	0.00100	п	н	11	**	11	н	
Xylene (o)	ND	0.00100	"	**	н	n	. "	**	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-	120	,,	"	"	n	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-	120	"	"	"	"	
Monitor Well #3 (6114012-03) Water									-
Benzene	ND	0.00100	mg/L	ı	E161906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	Ħ	n	"	"	н	
Ethylbenzene	ND	0.00100	**	**	н	n	11		
Xylene (p/m)	ND	0.00100	15	"	"	"	н	II	
Xylene (o)	ND	0.00100	"	0	11	u	**	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-	-120	n	"	"	tt .	
Surrogate: 4-Bromofluorobenzene		91.8 %	80-	-120	"	"	ıı	n	
Monitor Well #4 (6114012-04) Water									
Benzene	ND .	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	tt	11	II	п	
Ethylbenzene	ND	0.00100	"	11	**	n	**	м	
Xylene (p/m)	ND	0.00100	п	u	19	и	"	"	
Xylene (o)	ND	0.00100	н	**	и	"	н	**	
Surrogate: a,a,a-Trifluorotoluene		100 %	80	-120	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80	-120	"	"	n	"	

122 W. Taylor Hobbs NM, 88240 Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6114012-05) Water				·					
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ЙD	0.00100	'n	**	**	н	u ·	**	
Ethylbenzene	ND	0.00100	11	"	"	n	"	"	
Xylene (p/m)	ND	0.00100	II .	"	и	"	н	u	
Xylene (o)	ND	0.00100	ų	ч	n	**	n	**	
Surrogate: a,a,a-Trifluorotoluene		94.5 %	80-12	0	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-12	0	"	n	"	н	

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

## General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

	n 1.	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6114012-01) Water		· · · · · · · · · · · · · · · · · · ·		_					
Total Alkalinity	164	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	•
Chloride	430	12.5	**	25	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	1260	10.0	*1	1	E161818	09/15/06	09/18/06	EPA 160.1	
Sulfate	194	12.5	"	25	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #2 (6114012-02) Water									
Total Alkalinity	148	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	1130	25.0	"	50	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	2560	10.0	n	1	E161818	09/15/06	09/18/06	EPA 160.1	
Sulfate	166	· 25.0	п	50	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #3 (6[14012-03) Water			•						
Total Alkalinity	180	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	28.0	5.00	**	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	610	10.0	n.	í	E161818	09/15/06	09/18/06	EPA 160.1	
Sulfate	170	5.00	"	ίō	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #4 (6114012-04) Water									
Total Alkalinity	178	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	31.3	5.00	, 0	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	746	10.0	ч	i	EI61818	09/15/06	09/18/06	EPA 160.1	•
Sulfate	180	5.00	**	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #5 (6114012-05) Water									
Total Alkalinity	142	2.00	mg/L	1	E162015	09/20/06	09/20/06	EPA 310.1M	
Chloride	209	5.00	"	10	E161815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	984	10.0	**	1	E161818	09/15/06	09/18/06	EPA 160.1	
Sulfate	186	5.00	**	10	EI61815	09/15/06	09/19/06	EPA 300.0	

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Total Metals by EPA / Standard Methods Environmental Lab of Texas

		Reporting							
Analyte .	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6I14012-01) Water									
Calcium	118	4.05	mg/L	50	E161801	09/18/06	09/18/06	EPA 6010B	
Magnesium	57.1	0.360	н	10	п	u	11	**	
Potassium	8.77	0.600	••	, .	11	u	11		
Sodium	166	2.15	**	50	п			"	
Monitor Well #2 (6114012-02) Water					_				
Calcium	317	4.05	mg/L	50	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	158	1.80	и	н	"	н	0	er e	
Potassium	13.8	0.600	и	10	н	н	п	н	
Sodium	190	2.15	tt	50	11	н	n	*	
Monitor Well #3 (6114012-03) Water									
Calcium	45.9	0.810	mg/L	10	E161801	09/18/06	09/18/06	EPA 6010B	
Magnesium	25.1	0.360	n			"	п	н	
Potassium	5.06	0.600	п	**	15	н	**	"	
Sodium	64.6	0.430	ш	"	"	n .	**	tt	
Monitor Well #4 (6114012-04) Water		•							
Calcium	42.5	018.0	mg/L	10	E161801	09/18/06	09/18/06	EPA 6010B	
Magnesium	23.8	0.360		D)	"	"	и	n	
Potassium	5.05	0.600	"	h	,	"	"	n	
Sodium	65.3	0.430	п	te	п	n	20	u.	
Monitor Well #5 (6114012-05) Water									
Calcium	88.8	0.810	mg/L	10	E161801	09/18/06	09/18/06	EPA 6010B	
Magnesium	36.5	0.360	**	"	,,	n	н	11	
Potassium	5.21	0.600	**	11	"	"	и	n	
Sodium	81.9	0.430	**	"	n	11	n	D	

122 W. Taylor Hobbs NM, 88240 Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI61906 - EPA 5030C (GC)										
Blank (EI61906-BLK1)				Prepared: 0	9/19/06 A	nalyzed: 09	/20/06			
Benzene	ND	0.00100	mg/L		,					
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	41.7	· · · · · · · · · · · · · · · · · · ·	ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			
LCS (EI61906-BS1)				Prepared &	Analyzed:	: 09/19/06				
Benzene	0.0553	0.00100	mg/L	0.0500		111	80-120			
Toluene	0.0473	0.00100	n	0.0500		94.6	80-120			
Ethylbenzene	0.0437	0.00100	11	0.0500		87.4	80-120			
Xylene (p/m)	0.105	0.00100	n	0.100		105	80-120			
Xylene (o)	0.0506	0.00100	"	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/I	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120			
Calibration Check (E161906-CCV1)				· Prepared: 0	19/19/06 A	nalyzed: 09	0/20/06			
Benzene	0.0540		mg/L	0.0500		108	80-120			
Toluene	0.0482		ч	0.0500		96.4	80-120			
Ethylbenzene	0.0489		m.	0.0500		97.8	80-120			
Xylene (p/m)	0.0966		**	0.100		96.6	80-120			
Xylene (o)	0.0480		**	0.0500		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.1		ug/l	40.0		100	80-120			
Surrogate: 4-Bromofluorohenzene	43.3		"	40.0		108	80-120			
Matrix Spike (El61906-MS1)	Sou	rce: 6114005-0	D1	Prepared: 0	)9/19/06 A	.nalyzed: 09	9/20/06			
Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120			
Toluene	0.0503	0.00100	n	0.0500	ND	101	80-120			
Ethylbenzene	0.0502	0.00100		0.0500	ND	100	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120			_
Xylene (o)	0.0511	0.00100		0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/I	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	46.6		. "	40.0		116	80-120			

Hobbs NM, 88240

122 W. Taylor

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Organics by GC - Quality Control **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI61906 - EPA 5030C (GC)										
Matrix Spike Dup (EI61906-MSD1)	Sou	rce: 6[14005-(	01	Prepared: (	09/19/06 A:	nalyzed: 09	/20/06			
Benzene	0.0580	0.00100	mg/L	0.0500	ND	116	80-120	2.55	20	
Toluene	0.0510	0.00100	"	0.0500	ND	102	80-120	0.985	20	
Ethylbenzene	0.0506	0.00100	11	0.0500	ND	101	80-120	0.995	20	
Xylene (p/m)	0.106	0.00100	11	0.100	ND	106	80-120	0.00	20	
Xylene (o)	0.0534	0.00100	n	0.0500	ND	107	80-120	4.78	20	
Surrogate: a,a,a-Trifluorotoluene	40.0		ug/I	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			

Project: Justis H-2 SWD

Fax: (505) 397-1471

Project Number: None Given

Project Manager: Kristin Farris-Pope

122 W. Taylor Hobbs NM, 88240

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI61815 - General Preparation (V	VetChem)									
Blank (EI61815-BLK1)				Prepared: (	09/15/06 Aı	nalyzed: 09	/19/06			
Sulfate	ND	0.500	mg/L		,					
Chloride	ND	0.500	85							
LCS (EI61815-BS1)				Prepared:	09/15/06 Aı	nalyzed: 09	/19/06			
Chloride	9.83	0,500	mg/L	10.0		98.3	80-120			
Sulfate	10.1	0.500	н	10.0		101	80-120			
Calibration Check (EI61815-CCV1)				Prepared:	09/15/06 Ai	nalyzed: 09	/19/06			
Chloride	9.86		mg/L	10.0		98.6	80-120			
Sulfate	10.2		"	10.0		102	80-120			
Duplicate (EI61815-DUP1)	Sour	ce: 6113001-(	)1	Prepared:	09/15/06 Ai	nalyzed: 09	/19/06			
Chloride	223	5.00	mg/L		221			0.901	20	
Sulfate .	80.6	5.00	**		80.7			0.124	20	
Duplicate (EI61815-DUP2)	Sour	ce: 6114014-0	)2	Prepared:	09/15/06 A	nalyzed: 09	7/19/06			
Chloride	547	12.5	mg/L		546			0.183	20	
Sulfate	306	12.5	"	•	306			0.00	20	
Matrix Spike (EI61815-MS1)	Sour	ce: 6113001-0	)1	Prepared:	09/15/06 A	nalyzed: 09	0/19/06			
Chloride	33.1	5.00	mg/L	100	221	110	80-120			
Sulfate	185	5.00	rr	100	80.7	104	80-120			
Matrix Spike (EI61815-MS2)	Sour	ce: 6114014-0	02	Prepared:	09/15/06 A	nalyzed: 09	9/19/06			
Chloride	829	12.5	mg/L	250	546	113	80-120			
Sulfate	579	12.5	н	250	306	109	80-120			

122 W. Taylor

Hobbs NM, 88240

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	, Not
Batch EI61818 - Filtration Preparation										
Blank (E161818-BLK1)				Prepared: (	09/15/06 A	nalyzed: 09	/18/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EI61818-DUP1)	Sour	ce: 6I14012-0	)1	Prepared: (	09/15/06 A	nalyzed: 09	/18/06			
Total Dissolved Solids	1250	10.0	mg/L		1260			0.797	5	
Dunillanta (ELC1919 DUD3)	Sour	ce: 6I14014-0		Prepared: (	09/15/06 A	nalyzed: 09	/18/06			
Duplicate (EI61818-DUP2)	5041									
Total Dissolved Solids	564	10.0	mg/L	·	562			0.355	5	
	564		mg/L		562	. 104001 0. 1 1 0		0.355	5	
Total Dissolved Solids	564		mg/L		562 & Analyzed:	09/20/06		0.355	5	
Total Dissolved Solids Batch EI62015 - General Preparation (	564		mg/L			09/20/06		0.355	5	
Total Dissolved Solids Batch EI62015 - General Preparation ( Blank (EI62015-BLK1)	564 WetChem)	10.0		Prepared &				0.355	5	
Total Dissolved Solids  Batch EI62015 - General Preparation ( Blank (EI62015-BLK1)  Total Alkalinity	564 WetChem)	10.0		Prepared &	k Analyzed:		85-115	0.355	5	
Total Dissolved Solids  Batch E162015 - General Preparation ( Blank (E162015-BLK1)  Total Alkalinity  LCS (E162015-BS1)	564 WetChem) ND 170	2.00	mg/L mg/L	Prepared &	k Analyzed:	85.0	85-115	0.355	5	
Total Dissolved Solids  Batch EI62015 - General Preparation ( Blank (EI62015-BLK1)  Total Alkalinity  LCS (EI62015-BS1)  Total Alkalinity	564 WetChem) ND 170	2.00	mg/L mg/L	Prepared &	λ Analyzed: λ Analyzed:	85.0	85-115	0.355	20	
Total Dissolved Solids  Batch EI62015 - General Preparation ( Blank (EI62015-BLK1)  Total Alkalinity  LCS (EI62015-BS1)  Total Alkalinity  Duplicate (EI62015-DUP1)	564  WetChem)  ND  170  Sour	2.00 2.00 2.00	mg/L mg/L	Prepared & 200 Prepared &	¿ Analyzed: ¿ Analyzed: ¿ Analyzed	09/20/06 85.0 09/20/06	85-115			

122 W. Taylor

Hobbs NM, 88240

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Total Metals by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI61801 - 6010B/No Digestion									•	
Blank (EI61801-BLK1)				Prepared &	Analyzed	09/18/06				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	и							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EI61801-CCV1)				Prepared &	. Analyzed:	09/18/06				
Calcium	1.89		mg/L	2.00		94.5	85-115	-		
Magnesium	2.15		"	2.00		108	85-115			
Potassium	1.74		n	2.00		87.0	85-115			
Sodium	1.73		п	2.00		86.5	85-115			
Duplicate (E161801-DUP1)	Sou	rce: 6114005-0	01	Prepared &	Ł Analyzed	: 09/18/06				
Calcium	40.2	0.810	mg/L		44.3			9.70	20	
Magnesium	18.0	0.360	**		17.6			2.25	20	
Potassium	8.88	0.600	**		8.96			0.897	20	
Sodium	48.5	0.430	ij		44.7			8.15	20	

Rice Operating Co.
Project: Justis H-2 SWD
Fax: (505) 397-1471
122 W. Taylor
Project Number: None Given
Hobbs NM, 88240
Project Manager: Kristin Farris-Pope

### **Notes and Definitions**

DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported dry Sample results reported on a dry weight basis Relative Percent Difference RPD Laboratory Control Spike LCS MS Matrix Spike Dup Duplicate

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

# Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

はいる。

世代職を

知事

ii, by

大

を指え

40.00

T. Walter

		M			F	•	<u> </u>		alubadə	2-sr9) TAT (		×	×	×	×	×					-				
		T26S-R37E-Sec2H - Lea County, NM	1			-					-	$\dashv$		1	_	$\dashv$		$\perp$	+	+		Z			
-	١	Con											$\downarrow$			$\Box$		_	4	_	_	, g	ľ		
		163				-				vi. issolved Solids	LA.O.M. O lesoT	×	Ÿ	<del>`</del> }	Ä	<u> </u>	$\dashv$	+	-			10	S) S		
	Ì	뉤			l	ان					RCI	十	-	-	-	$\dashv$	+	十	+	$\dashv$			7		
9		602			I	8 2	×	T		90218/5030	X318	×	×	×	×	×				寸		高い		ants:	
SS	1	77.5	}			Analyze For	I			səlüel	Semiro											an ers		Ē (	
Ŧ	- 1	-R3	l				+	1	- Co		e)titeloV		_	_			-		-}	_		ontai cont		წ ლ	
nsti	- 1	268	1			-			S VH VA J	As Ag Ba Cd (		$\dashv$	$\dashv$	_		-	-	-+	$\dashv$		{	Sample Containers Intact? Labels on container? Custody Seals Containers Temperature Upon Receipt.		Laboratory Comments	
ne: آر	#±	<b>-</b> 1	# O				TOTAL	-	, HĊO3)	(CI, 504, CO3		×	×	$\times$	×	×		十	1	+		Sam Labe Cust		Pap	
Project Name: Justis H-2 SWD	Project#:		ď						(A	(Ca, Mg, Na,	Cations	×	×	×	×	×								<b>6</b> :	Q
oject	ď.	ij			(			9	001 2001	M2108 1.8)		_	-				-	_	_		_			Time	Time
ō.		Project Loc:						×		:(Ajjoeds)	Soil	$\dashv$					-					_			10/45/0
		roje						Matrix		10.0	Sindge	-	$\dashv$			-	$\dashv$		-	-		E E		<u>0</u>	Date (4(0)()
1	1	٦	I	- [							Water	×	×	×	×	×						D.D	1	Dațe	Date
- {	- 1	l						Γ		Specify)	Other											MSE.			<u> </u>
	1	ŀ		1		ł		Į _ę	3	1) 1 Liter HDPI			-7	_	-,-	-	$\dashv$			4		<u> </u>			
	1	l		=				rvati	<del></del>		HOEN	$\dashv$	-	-		H		$\dashv$	<del></del>		_	© S	Ì		
	- 1	ĺ		4				Preservative	ste	iv azelg im Ob	$\overline{}$	~	2	77	2	2		_	_	+	·	E			
	1	]		397							€ОИН							$\Box$				量			
	l	Ì		2						······································	92	×	×	×	×	×			_			∞5			
	ļ			(2)		N				Containers	No. of	3	3	ო	3	3			_	_		nos			
		į		Fax No: (505) 397-1471	1			)	<b>)</b>	Sampled	emiT	15:50	13:20	9:35	10:50	12:05						kpope@riceswd.com & mfranks@riceswd.com ne@valornet.com			
kpope@riceswd.com					9310			7	0	Sampled <b>&gt;</b>	əted	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006						1 <del>-</del> H		Received by:	Received by ELOT.
)edody	oany		8240		Sampler Signature: Rozanne Johnson (505) 631-9310		E			7	,											PLEASE Email RESULTS TO:		Time (10,00)	Time
ايو	Som	reet	8		n (5		51.00												Ì			aii R		3	0
rris Pop	erating (	aylar St	ew Mex	-9174	Johnso		valorn				FIELD CODE			 								SE Em		9/14/02	Date
stin Fa	E Ope	2 W. Ta	obs, N	5) 393	zanne		anne@					· # 示	#2	E#3	##4	5#5						PLEA			
Project Manager: Kristin Farris Pope	сопралу Name RICE Operating Company	Company Address: 122 W. Taylor Street	city/state/Zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	fure: Ro		Email: rozanne@valornet.com					Monitor Well #	Monitor Well # 2	Monitor Well # 3	Monitor Well # 4	Monitor Well # 5									
พื่อกล	any N	Addr	State,	thone	Xiona(	3	ũ		\$1800X	28335418	68899	Į Ž	Į Š ķķ	¥     NN	<u>×</u>	Į Š	(8)	3/0	\$550	\(\frac{1}{2}\)	6,5	] ]	`	P	
aject	ў шо <u>х</u>	ipany	Ö	Telep	pler 5	_					omly											ig (	\		
Ď	Ų	Com			Sam					Si.	asn c			LA LA	1	K						str /	( )	To the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	ed by
											.AB.# (lab use only	9		To the second	P							Special Instructions:	\	Religious Johnson	Relinquished by:
									[ <u>254,53</u>		<u> </u>	13 <u>%</u>	14.6	1989	185	<u>)                                    </u>	15%	1.355.	13,74	(88)	<u>( %-</u>	ſα		Ta I Ma	<u>Ι</u> α
		٠.	•			-* -					,.· ·	: :	. • .		•	٠.		*							

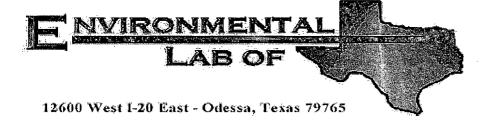
## Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

	Sample Receipt	Checklist		Client I	nítials
Temperature of containe		Yes	No	26 °C	
Shipping container in go		∤res	No		
	shipping container/ cooler?	) ≱es	No	Not Present	
Custody Seals intact on	sample bottles/ container?	Xes	No	Not Present	
Chain of Custody preser		Xes	No		
	plete of Chain of Custody?	\ ∕€S	No		
	when relinquished/ received?	<u>Yes</u>	No		
Chain of Custody agrees		Yes	No	ID written on Cont./ Lid	
Container label(s) legible		Yes	No	Not Applicable	
Sample matrix/ properti	es agree with Chain of Custody?	Yes	No		
Containers supplied by		Yes	No		
Samples in proper cont		Ves.	No	See Below	
Samples properly prese	erved?	yes_	No	See Below	
Sample bottles intact?	7.00	\ Yes	No		
	nted on Chain of Custody?	Yes	. No		
Containers documente	d on Chain of Custody?	Yes	No		
Sufficient sample amou		Yes	No	See Below	
All samples received w	ithin sufficient hold time?	Yes	No	See Below	
VOC samples have zer	ro headspace?	Yes	No	Not Applicable	
ntact: garding:	Variance Docui	mentation		Date/ Time:	
rective Action Taken:					

Lab Analysis

12/19/2006



# Analytical Report

### Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Justis H-2 SWD

Project Number: None Given

Location: T26S R37E Sec. 2H- Lea County, NM

Lab Order Number: 6L07013

Report Date: 12/19/06

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6L07013-01	Water	12/05/06 11:20	12-07-2006 10:50
Monitor Well #2	6L07013-02	Water	12/05/06 11:25	12-07-2006 10:50
Monitor Well #3	6L07013-03	Water	12/05/06 12:20	12-07-2006 10:50
Monitor Well #4	6L07013-04	Water	12/05/06 13:10	12-07-2006 10:50
Monitor Well #5	6L07013-05	Water	12/05/06 13:55	12-07-2006 10:50

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

# Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6L07013-01) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	**	**	н	и	**	11	
Ethylbenzene	ND	0.00100	n	***	**	ш	n	"	
Xylene (p/m)	ND	0.00100	п	II.	11	tr	u	"	
Xylene (o)	ND	0.00100		н	11	"	u	"	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-1	120	"	"	n	"	
Monitor Well #2 (6L07013-02) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene .	ND	0.00100	"	"	**	u	H	u	
Ethylbenzene	ND	0.00100	и	11	n	**	. "	"	
Xylene (p/m)	ND	0.00100	II	n	n	"	**	"	
Xylene (o)	ND	0.00100	u	tt	"	11	**	u	
Surrogate: a,a,a-Trifluorotoluene		119 %	80	120	n	"	"	n	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-	120	n	"	"	"	
Monitor Well #3 (6L07013-03) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/18/06	EPA 8021B	
Toluene	ND	0.00100	"	11	**	. "	**	"	
Ethylbenzene	ND	0.00100	H	н	И	11	."	п	
Xylene (p/m)	ND	0.00100	9	11	U	n	ш	"	
Xylene (o)	ND	0.00100	II.	"	п	u	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-	120	"	"	"	"	
Monitor Well #4 (6L07013-04) Water									
Benzene	ND	0.00100	mg/L	l	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"		и	п	н	н	
Ethylbenzene	ND	0.00100	11	•	u	п	**	ι¢	
Xylene (p/m)	ND	0.00100	"	п	tt	н	**	и	
Xylene (o)	ND	0.00100	n	**		"	**	**	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-	120	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	80-	120	"	"	"	"	

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

# Organics by GC

### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6L07013-05) Water		- 1							
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"	n	11	"	"	"	
Ethylbenzene	ND	0.00100	u	"	P	"	и	п	
Xylene (p/m)	ND	0.00100	"	11	**	11	ш	"	
Xylene (o)	ND	0.00100	"	11	**	ш	"	и	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-12	0	"	"	"	n .	
Surrogate: 4-Bromofluorobenzene		81.5 %	80-12	0	"	"	"	"	

122 W. Taylor Hobbs NM, 88240 Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

# General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte  Monitor Well #1 (6L07013-01) Water  Total Alkalinity Chloride Total Dissolved Solids Sulfate  Monitor Well #2 (6L07013-02) Water  Total Alkalinity	80.0 223 512 47.6	2.00 5.00 10.0 5.00	mg/L	Dilution  1 10 1	EL60807 EL60801 EL60803	12/07/06 12/07/06	12/07/06 12/07/06	EPA 310.1M EPA 300.0	Notes
Total Alkalinity Chloride Total Dissolved Solids Sulfate Monitor Well #2 (6L07013-02) Water	223 512 47.6	5.00 10.0	11	10	EL60801				
Chloride Total Dissolved Solids Sulfate Monitor Well #2 (6L07013-02) Water	223 512 47.6	5.00 10.0	11	10	EL60801				
Total Dissolved Solids Sulfate Monitor Well #2 (6L07013-02) Water	512 47.6	10.0	+1	1		12/07/06	12/07/06	FPA 300 0	
Sulfate  Monitor Well #2 (6L07013-02) Water	47.6				E1 60803			271 300.0	
Monitor Well #2 (6L07013-02) Water		5.00	**	10	ELOUGUS	12/07/06	12/08/06	EPA 160.1	
	150			10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Alkalinity	150								
•		2.00	mg/L	ı	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	1240	25.0	н	50	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	2300	10.0	п	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	156	25.0	"	50	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #3 (6L07013-03) Water						···			
Total Alkalinity	178	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	26.1	5.00	н	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	486	10.0	"	l	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	164	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #4 (6L07013-04) Water									
Total Alkalinity	218	2.00	mg/L	l	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	30.0	5.00	11	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	476	10.0	п	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	176	5.00	II.	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #5 (6L07013-05) Water									
Total Alkalinity	158	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	186	5.00	n	10	EL60801	12/07/06	12/07/06	EPA 300.0	
<b>Total Dissolved Solids</b>	748	10.0	п	1	EL60803	12/07/06	12/08/06	EPA 160,1	
Sulfate	173	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	

Project: Justis H-2 SWD

Project Number: None Given

Fax: (505) 397-1471

Project Manager: Kristin Farris-Pope

### Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Diluie	Datah	Duamanad	المساسية	Mashad	Ne+
Monitor Well #1 (6L07013-01) Water	- Kestili	Linit	Onto	Dilution	Batch	Prepared	Analyzed	Method	Notes
				<del> </del>		<del> </del>			
Calcium	61.1	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	23.7	0.360	11	10	**	II .	"	"	
Potassium	4.82	0.600	п	ii ii	**	ti .	tt	н	
Sodium	76.4	2.15	"	50	n	и	"	и	
Monitor Well #2 (6L07013-02) Water									
Calcium	366	8.10	mg/L	100	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	181	1.80	**	50	и	"	**	н	
Potassium	18.6	0.600	"	10	41	11	"	ıt	
Sodium	278	4.30	"	100	"	**	H	п	
Monitor Well #3 (6L07013-03) Water									
Calcium	52.2	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	25.7	0.360	U	10	н	и	п	11	
Potassium	5.08	0.600	u	"	п	tt	**	"	
Sodium	63.8	2.15	ц	50	11	11	"	II	
Monitor Well #4 (6L07013-04) Water									
Calcium	48.2	0.810	mg/L	10	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	25.2	0.360	11	n	"	n	и	"	
Potassium	5.66	0.600	п	п	11	н	"	"	
Sodium	67.7	2.15	н	50	"	ti	"	"	
Monitor Well #5 (6L07013-05) Water									
Calcium	95.8	4.05	ıng/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	40.7	0.360	**	10	и	и	11	n	
Potassium	6.82	0.600	н	"	"	"	u	**	
Sodium	83.1	2.15	*1	50	u	jı.	n .	и.	

Project:

Project: Justis H-2 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

### Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL61404 - EPA 5030C (GC)	·		<del></del>			·····				
Blank (EL61404-BLK1)				Prepared &	Analyzed	: 12/14/06				
Benzene	ND	0.00100	ıng/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	u u							
Xylene (p/m)	ND	0.00100	II.							
Xylene (o)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	45.2		ug/l	40.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	34.5		"	40.0		86.2	80-120			
LCS (EL61404-BS1)				Prepared &	Analyzed	: 12/14/06	;			
Benzene	0.0423	0.00100	mg/L	0.0500		84.6	80-120			
Toluene	0.0430	0.00100	47	0.0500		86.0	80-120			
Ethylbenzene	0.0426	0.00100	"	0.0500		85.2	80-120			
Xylene (p/m)	0.0962	0.00100	"	0.100		96.2	80-120			
Xylene (o)	0.0469	0.00100	"	0.0500		93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.6		ug/l	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.8		u	40.0		82.0	80-120			
Calibration Check (EL61404-CCV1)				Prepared: 1	2/14/06 A	nalyzed:	12/15/06			
Benzene	54.4		ug/l	50.0		109	80-120			
Toluene	55.1		e	50.0		110	80-120			
Ethylbenzene	59,3		**	50.0		119	80-120			
Xylene (p/m)	116		"	100		116	80-120			
Xylene (o)	58.7		**	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.9		"	40.0		120	80-120			
Surrogate: 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			
Matrix Spike (EL61404-MS1)	Sou	ırce: 6L05006-	-10	Prepared: 1	12/14/06 A	Analyzed:	12/18/06			
Benzene	0.0402	0.00100	mg/L	0.0500	ND	80.4	80-120			
Toluene	0.0407	0.00100	n	0.0500	ND	81.4	80-120			
Ethylbenzene	0.0487	0.00100	17	0.0500	ND	97.4	80-120			
Xylene (p/m)	0.0853	0.00100	17	0.100	ND	85.3	80-120			
Xylene (o)	0.0444	0.00100	11	0.0500	ND	88.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.6	=_,	ug·1	40.0		81.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

Project: Justis H-2 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		.RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	EL61404 -	EPA 5030C	(GC)
-------	-----------	-----------	------

Matrix Spike Dup (EL61404-MSD1)	Sou	Prepared: 13	2/18/06						
Benzene	0.0422	0.00100	mg/L	0.0500	ND	84.4	80-120	4.85	20
Toluene	0.0446	0.00100	0	0.0500	ND	89.2	80-120	9.14	20
Ethylbenzene	0.0464	0,00100	II.	0.0500	ND	92.8	80-120	4.84	20
Xylene (p/m)	0.102	0.00100	H	0.100	ND	102	80-120	17.8	20
Xylene (o)	0.0513	0.00100	**	0.0500	ND	103	80-120	14.8	20
Surrogate: a,a,a-Trifluorotoluene	38.2		ug/l	40.0		95.5	80-120		
Surrogate: 4-Bromofluorabenzene	37.7		"	40.0		94.2	80-120		

122 W. Taylor

Hobbs NM, 88240

Project: Justis H-2 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

**Environmental Lab of Texas** 

Fax: (505) 397-1471

# General Chemistry Parameters by EPA / Standard Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL60801 - General Preparation (Wet	Chem)									
Blank (EL60801-BLK1)				Prepared &	k Analyzed:	12/08/06				
Chloride	ND	0.500	mg/L							
Sulfate	0.623	0.500	"							1
LCS (EL60801-BS1)				Prepared &	k Analyzed:	12/08/06				
Sulfate	10.3	0.500	mg/L	10.0		103	80-120			
Chloride	10.0	0.500	**	10.0		100	80-120			
Calibration Check (EL60801-CCV1)				Prepared &	k Analyzed:	12/08/06				
Chloride	10.4		mg/L	10.0		104	80-120			
Sulfate	11.6		**	10.0		116	80-120			
Duplicate (EL60801-DUP1)	Sou	rce: 6L07005-	01	Prepared &	& Analyzed:	12/08/06				
Sulfate	13.4	2.50	mg/L		13.4			0.00	20	
Chloride	129	2.50	н		130			0.772	20	
Matrix Spike (EL60801-MS1)	Sou	rce: 6L07005-	01	Prepared &	& Analyzed:	12/08/06				
Sulfate	61.4	2.50	mg/L	50.0	13.4	96,0	80-120			
Chloride	189	2.50	"	50.0	130	118	80-120			
Batch EL60803 - Filtration Preparation										
Blank (EL60803-BLK1)				Prepared:	12/07/06 A	nalyzed: 12	2/08/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EL60803-DUP1)	Sou	rce: 6L07005-	01	Prepared:	12/07/06 A	.nalyzed: 12	2/08/06			

266

10.0

Total Dissolved Solids

246

7.81

20

Rice Operating Co. 122 W. Taylor

.

Project: Justis H-2 SWD

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL60807 - General Preparation (	WetChem)	·								
Blank (EL60807-BLK1)				Prepared &	Analyzed:	12/07/06				
Total Alkalinity	ND	2.00	mg/L							-
LCS (EL60807-BS1)				Prepared &	Analyzed:	12/07/06				
Bicarbonate Alkalinity	186	2.00	mg/L	200		93.0	85-115			
Duplicate (EL60807-DUP1)	Sou	rce: 6L07012-	01	Prepared &	Analyzed:	12/07/06				
Total Alkalinity	182	2.00	mg/L		184			1.09	20	
Reference (EL60807-SRM1)				Prepared &	Analyzed:	12/07/06				
Total Alkalinity	246		mg/L	250		98.4	90-110			

Project: Justis H-2 SWD

Project: Justis 11-2 5 W

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

# Total Metals by EPA / Standard Methods - Quality Control

### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL60805 - 6010B/No Digestion										
Blank (EL60805-BLK1)				Prepared: 1	12/08/06 A	nalyzed: 12	2/11/06			
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	**							
Potassium	ND	0.0600	n							
Sodium	ND	0.0430	п							
Calibration Check (EL60805-CCV1)				Prepared: 1	12/08/06 A	nalyzed: 12	2/11/06			
Calcium	2.02		mg/L	2.00		101	85-115	-		
Magnesium	2.03		11	2.00		102	85-115			
Potassium	1.77		"	2.00		88.5	85-115			
Sodium	2.00		ч	2.00		100	85-115			
Duplicate (EL60805-DUP1)	Sou	rce: 6L07012-	01	Prepared: 1	12/08/06 A	nalyzed: 12	2/11/06			
Calcium	61.4	4.05	mg/L		66.4			7.82	20	
Magnesium	13.4	0.360	**		12.5			6.95	20	
Potassium	3.81	0.600	11		3.24			16.2	20	
Sodium	73.2	2.15	II.		78.4			6.86	20	

Rice Operating Co.

Project: Justis H-2 SWD

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

### Notes and Definitions

B Analyte is found in the associated blank as well as in the sample (CLP B-flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:	Kaland Kitub

Date:

12/19/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

# Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

State of

を変

1000

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax; 432-563-1713

TAT brebnet2 × × Lone Star □ NPDES ZINST AT (Pie-Schedde) 24, 48, 72 hz ç Project Loc: T26S R37E Sec2H ~ Lea County New Mexico 120 Total Dissolved Solids × × TRRP M.R.O.Y 占 Custody seals on cooler(s) BCI Sample Containers Infact? Eabels on container(s):
Custody seals on container(s) Sample Hand Delivered by Sample of Client Rep. ? Temperature Upon Receipt: BTEX 80218/6030 or BTEX 8260 × × × VOCs Frée of Héadspace? For Laboratory Comments: Project Name: Justis H-2 SWD Analyze XStandard Nefsia: Ya Ya Ba Ca Cr Pb Hg Se TOTAL SAR / ESP / CEC Anions (Cl, SO4, Alkalinity) ₽O #: Project #: × ×  $\overline{\times}$ × × Cations (Ca, Mg, Na, K) Report Format: V Sel 100.00 9001 XT 9001 XT :Hal Time Time Time 80158 W9108 1.814 Hd1 GW ΘW βV გ 80 SW: Groundwater S-Soil/Soild 12/1/20 egbul∂::J& 1eleY gnilknin⊡:V/⊡ Date Date Огрег ( Specify) rozanne@valornet.com None (1) 1 Liter HDPE 4 ¢O52SEN rozanne@valornet.com HOEN (505) 397-1471 OS^zH HCI (S) 40 ml dissa viala N N N N 90  $\times$ S n ന n ന erentaineD to .# leto benetitit bleiax No: e-mail: 13:10 11:20 11:25 12:20 13:55 mfranks@riceswd.com Time Sampled kpope@riceswd.com Received by ELOT Jacks States 12/5/2006 12/5/2006 12/5/2006 12/5/2006 12/5/2006 Received by: Received by: Date Sampled Ending Depth Hobbs, New Mexico 88240 Time Co.70 RICE Operating Company Sampler Signature: Rozanne Johnson (505)631-9310 Beginning Depth kpope@riceswd.com 122 W. Taylor Street Date 12-7-02 Kristin Farris Pope Date (505) 393-9174 FIELD CODE Please email to: CINO19 Company Address: Project Manager: Company Name Monitor Well #3 Monitor Well #2 Monitor Well #4 Monitor Well #5 Monitor Well #1 Telephone No: City/State/Zip: Special Instructions: Refinquished by: Refinquished by: (lab use only) ORDER #: (Isb use only)

## Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Dent QUE OD.					
Date/ Time: 12 11 NG 10:50					
ab ID# (1L070/3					
nitrals.					
	<b></b>				
Sample Receipt	Checklist			<b>0</b> 11	
Temperature of container/ cooler?	Yes	No	-200	Client Initials	
Shipping container in good condition?	(Yes)	No			
Custody Seals intact on shipping container/ cooler?	Xes	No	Not Present		
Custody Seals intact on sample bottles/ container?	Xes	No	Not Present		
Chain of Custody present?	yes	No	1400111000110		
Sample instructions complete of Chain of Custody?	(es	No	<del></del>		
Chain of Custody signed when relinquished/ received?	Xes.	No			
Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ L	id	
Container label(s) legible and intact?	Xes	No	Not Applicable	10	
Sample matrix/ properties agree with Chain of Custody?	₹8\$	No	Mot Applicable	-	
1 Containers supplied by ELOT?	æs,	No			
2 Samples in proper container/ bottle?	Yes	No	See Below		
	Yes	No	See Below	<del></del>	
#13 Samples properly preserved? #14 Sample bottles intact?		No	See pelow		
Preservations documented on Chain of Custody?	Yes	No			
16 Containers documented on Chain of Custody?	1	No			
77 Sufficient sample amount for indicated test(s)?	//es	No	See Below		
18 All samples received within sufficient hold time?	763	No	<del> </del>		
	Yes	No	See Below		
19 Subcontract of sample(s)? 20 VOC samples have zero headspace?	Yes	No	Not Applicable		
20 VOC samples have zero headspace?	1 (60	OPI	Not Applicable		
Variance Docu	mentation				
Contacted by:			Date/ Time:		
!egarding:					
orrective Action Taken:		<del></del>	······································		
		·-·			
5	·····		·		
neck all that Apply: See attached e-mail/ fax					
Client understands and wor	uld like to pro	ceed with	n analysis		
Cooling process had begun	shortly after	sampling	j event		