AP - 59

G-35 ANNUAL GW MONITORING REPORT

DATE: 2006

R. T. HICKS CONSULTANTS, LTD.

AP-59 G-35 Annual GW Mon Report 2006 901 Rio Grande Blvd NW 🛦 Suite F-142 🛦 Albuquerque, NM 87104 🛦 505.266.5004 🛦 Fax: 505.266-0745

February 12, 2007

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

RE: 2006 Annual Ground Water Monitoring Report G-35 SWD, Sec 35, T17S, R35E, Unit "G" NMOCD Case #: AP-59

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the G-35 SWD site located in the Vacuum Salt Water Disposal System (SWD). This report consists of the following sections:

- 1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
- 2. Graphs showing chemical concentration vs. time for chloride and TDS.
- 3. Laboratory data sheets associated with the routine sampling for 2006.
- 4. Potentiometric surface map.

The Vadose Zone Remedy Plan was submitted to NMOCD on November 15, 2006. The Vadose Zone Remedy Plan is pending NMOCD approval.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of the annual report. If you have any guestions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely, R.T. Hicks Consultants, Ltd.

Randall T. Hicks Principal

Copy: Hobbs NMOCD office; Rice Operating Company

	Comments			oil skim	oil skim			oil skim; yellow	oil skim; yellow													mod. odor; gray	mod. odor; gray	mod. odor; gray	mod. odor; gray	mod. odor; gray; sheen	mod. odor; gray; sheen		
	Total Xylenes (ug/L)	0.0550	0.0550	0.0650	0.0650	0.2530	0.2530	0.1310	0.1310	0.0270	0.0270	0.0270	0.0270	0.0320	0.0320	0.0030	0.0030	0.0070	0.0070	0.3190	0.3190	0.1382	0.1382	0.0717	0.0717	0.2862	0.2862	693	693
	EthylBenzene (ug/L)	0.034	0.034	0.131	0.131	0.209	0.209	0.154	0.154	0.018	0.018	0.120	0.120	0.307	0.307	060.0	060.0	0.350	0.350	0.357	0.357	0.346	0.346	0.133	0.133	0.399	0.399	672	672
	Toluene (ug/L)	0.0220	0.0220	0.0570	0.0570	0.5980	0.5980	0.0780	0.0780	0.0100	0.0100	0.0020	0.0020	0.0040	0.0040	0.0020	0.0020	<0.002	<0.002	0.3080	0.3080	0.0525	0.0525	0.0226	0.0226	0.2470	0.2470	466	466
	Benzene (ug/L)	0.011	0.011	0.414	0.414	0.705	0.705	0.921	0.921	0.713	0.713	0.583	0.583	0.689	0.689	0.012	0.012	0.059	0.059	1.170	1.170	1.110	1.110	0.881	0.881	2.760	2.760	2490	2490
	TDS (mg/L)	1284	1284	3260	3260	3850	3850	6740	6740	4770	4770	7320	7320	8850	8850	3590	3590	5000	5000	4188	4188	8270	8270	10400	10400	9190	9190	10700	10700
	Sulfate (mg/L)	23	23	2.1	2.1	7	7	5.8	5.8	24.6	24.6	5.3	5.3	3.5	3.5	20.9	20.9	1.49	1.49	2.15	2.15	17.7	17.7	799	799	136	136	9.75	9.75
	Chloride (mg/L)	568	568	1950	1950	1950	1950	3630	3630	2730	2730	3860	3860	5010	5010	1930	1930	2579	2579	1899	1899	4700	4700	5200	5200	5750	5750	5890	5890
	DTW (ft)	53.60	53.60	52.89	52.89	53.02	53.02	53.08	53.08	53.06	53.06	53.20	53.20	53.21	53.21	53.29	53.29	53.30	53.30	52.90	52.90	52.60	52.60	52.91	52.91	52.40	52.40		
	Date	1/10/2002	1/10/2002	5/15/2002	5/15/2002	8/19/2002	8/19/2002	11/11/2002	11/11/2002	2/28/2003	2/28/2003	5/22/2003	5/22/2003	8/21/2003	8/21/2003	11/19/2003	11/19/2003	2/18/2004	2/18/2004	5/27/2004	5/27/2004	9/7/2004	9/7/2004	11/24/2004	11/24/2004	3/21/2005	3/21/2005	5/11/2005	5/11/2005
G-35 SWD	Well Name	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	1-WW	1-WM	MW-1	MW-1	MW-1						

Table 1: chemistry over time

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Thursday, February 08, 2007

Comments			light skim ali: strang septic adar	light skim oil: strong septic odor	light skim oil: strong septic odor	light skim oil: strong septic odor			light skim oil: strong septic odor clear turning dark gray	Light				Clear	Clear / Slight Odor	
Total Xylenes (ug/L)	0.2417	0.2417	0.0839	0.0839	0.0229	0.0229	0.0282	0.0282	0.0045	0.0438	0.0044	0.0044	<0.001	<0.001	<0.001	
EthylBenzene (ug/L)	0.396	0.396	0.146	0.146	0.078	0.078	0.093	0.093	0.030	0.0774	j[0.000385]	J[0.000385]	<0.001	<0.001	<0.001	
Toluene (ug/L)	0.2260	0.2260	0.0607	0.0607	J[0.00537]	J[0.00537]	0.0143	0.0143	<0.001	0.0204	J[0.000839]	J[0.000839]	<0.001	<0.001	<0.001	
Benzene (ug/L)	1.070	1.070	0.799	0.799	0.141	0.141	0.749	0.749	0.130	0.394	<0.001	<0.001	<0.001	<0.001	<0.001	
TDS (mg/L)	6960	6960	4420	4420	3540	3540	3280	3280	2175	2800	286	286	309	264	994	
Sulfate (mg/L)	126	126	166	166	80.5	80.5	67.4	67.4	24.9	45.2	24.7	24.7	24.9	22.8	41.9	
Chloride (mg/L)	4430	4430	2360	2360	1960	1960	1540	1540	1160	1350	17.4	17.4	19.3	13.4	370	
DTW (ft)	52.35	52.35	52.51	52.51	52.46	52.46	52.70	52.70	52.88	52.88	52.08	52.08	52.18	52.35	52.72	
Date	8/15/2005	8/15/2005	10/25/2005	10/25/2005	1/23/2006	1/23/2006	4/25/2006	4/25/2006	8/3/2006	10/25/2006	6/6/2006	6/6/2006	8/3/2006	10/25/2006	12/4/2006	
Well Name	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	1-WW	MW-2	MW-2	MW-2	MW-2	MW-3	

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G-35 S

Table 1: chemistry over time

Thursday, February 08, 2007

Ground Water Quality at G-35



Chloride Over Time





Site Name G-35 SWD









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Analytical Report

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

Project: Vacuum G-35 SWD Project Number: None Given Location: Lea County

Lab Order Number: 6A25019

Report Date: 02/01/06

Rice Operating Co.Project:Vacuum G-35 SWDFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope02/01/06 10:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	-	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1		6A25019-01	Water	01/23/06 13:30	01/25/06 13:25

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Rice Operating Co.	Project:	Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	02/01/06 10:16

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A25019-01) Water			· · · · · · · · · · · · · · · · · · ·						
Benzene	0.141	0.0100	mg/L	10	EA62618	01/26/06	01/27/06	EPA 8021B	
Toluene	J [0.00537]	0.0100				"	۳.	и	
Ethylbenzene	0.0784	0.0100			"	n		n	
Xylene (p/m)	0.0105	0.0100	۳		"	*			
Xylene (0)	0.0124	0.0100	"	н	"	•	**	"	
Surrogate: a,a,a-Trifluorotoluene		95.8 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-12	0	"	· <i>n</i>	"	"	

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Rice Operating Co.Project:Vacuum G-35 SWD122 W. TaylorProject Number:None GivenHobbs NM, 88240Project Manager:Kristin Farris-Pope

Reported: 02/01/06 10:16

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well #1 (6A25019-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	400	2.00	mg/L		EA62406	01/26/06	01/26/06	EPA 310.1M	
Chloride	1960	25.0	"	50	EA63004	01/30/06	01/30/06	EPA 300.0	
Total Dissolved Solids	3540	5.00	"	1	EA63003	01/26/06	01/27/06	EPA 160.1	
Sulfate	80.5	25.0		50	EA63004	01/30/06	. 01/30/06	EPA 300.0	

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Rice Operating Co.	Project:	Vacuum G-35 SWD	Fax: (505) 397-147)
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	02/01/06 10:16
11000311111, 08240			

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well #1 (6A25019-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.2	0.100	mg/L	10	EA62615	01/26/06	01/26/06	EPA 6010B	<u>.</u>
Magnesium	19.3	0.0100	н	"	· "	"	'n		
Potassium	11.8	0.500		. "			"	**	
Sodium	1230	5.00	"	500				н	

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Rice Operating Co.		Рг	oject: Va	icuum G-35 S	SWD				Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: No	one Given					Repo	rted:
Hobbs NM, 88240	<u></u>	Project Mai	nager: Ki	istin Farris-P	ope				02/01/0	5 10:16
	0	rganics by	GC - (Quality Co	ontrol					
		Environm	iental I	lab of Tex	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA62618 - EPA 5030C (GC)										
Blank (EA62618-BLK1)				Prepared: (01/26/06 A	nalyzed: 01	/27/06			
Benzene	ND	0.00100	mg/L	-						
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	п							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	ч							
Surrogate: a,a,a-Trifluorotoluene	38.5		ug/l	40.0		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	80-120			
LCS (EA62618-BS1)				Prepared: (01/26/06 A	nalyzed: 01	/27/06			
Benzene	0.0566	0.00100	mg/L	0.0500		113	80-120			
Toluene	0.0557	0.00100		0.0500		111	80-120			
Ethylbenzene	0.0547	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.102	0.00100	п	0.100		102	80-120			
Xylene (0)	0.0538	0.00100	"	0.0500		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	32.8		" ·	40.0		82.0	80-120			
Calibration Check (EA62618-CCV1)				Prepared: (01/26/06 A	nalyzed: 01	/28/06			
Benzene	51.3		ug/l	50.0		103	80-120			
Toluene	52.5			50.0		105	80-120			
Ethylbenzene	54.5	,		50.0		109	80-120			
Xylene (p/m)	101			100		101	80-120			
Xylene (o)	55.6			50.0		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.3		"	40.0		85.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			
Matrix Spike (EA62618-MS1)	Sou	arce: 6A24010-	-01	Prepared: (01/26/06 A	nalyzed: 01	/27/06			
Benzene	0.0559	0.00100	mg/L	0.0500	ND	112	80-120			
Toluene	0.0548	0.00100		0.0500	ND	110	80-120			
Ethylbenzene	0.0515	0.00100		0.0500	ND	103	80-120			
Xylene (p/m)	0.0835	0.00100		0.100	ND	83.5	80-120			
Xylene (o)	0.0512	0.00100	и и	0,0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.5		ug/l	40.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	80-120			

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122 W. Taylor Project Number: None Given	Reported:
Hobbs NM, 88240 Project Manager: Kristin Farris-Pope	02/01/06 10:16

Organics by GC - Quality Control

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

Batch EA62618 - EPA 5030C (GC)

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Matrix Spike Dup (EA62618-MSD1)	Sou	rce: 6A24010-	01	Prepared: 0					
Benzene	0.0482	0.00100	mg/L	0.0500	ND	96.4	80-120	15.0	20
Toluene	0.0484	0.00100	н	0.0500	ND	96.8	80-120	12.8	20
Ethylbenzene	0.0456	0.00100		0.0500	ND	91.2	80-120	12.2	20 -
Xylene (p/m)	0.0841	0.00100		0.100	ND	84.1	80-120	0.716	20
Xylene (o)	0.0448	0.00100		0.0500	ND	89.6	80-120	12.9	20
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/l	40.0		82.5	80-120		
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120		

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Rice Operating Co.		a .	roject Va	acuum G-35 S	SWD				Fax: (505)	397-147
122 W. Taylor		Project Nu	mber: N	one Given					Reno	rted:
Hobbs NM, 88240		Project Manager: Kristin Farris-Pope							02/01/0	6 10:16
General	Chemistry Para	imeters by Environn	/ EPA / nental l	Standard	Methoo	ls - Qua	lity Con	trol		
		Paporting		Snike	Source		%PEC			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA62406 - General Preparatio	»n (WetChem)									
Blank (EA62406-BLK1)				Prepared &	Analyzed:	0 ₁ /26/06				
Total Alkalinity	ND	2.00	mg/L			- · · ·				
LCS (EA62406-BS1)				Prepared &	Analyzed:	01/26/06				
Bicarbonate Alkalinity	220		mg/L	200		110	85-115			
Duplicate (EA62406-DUP1)	Sou	rce: 6A19005	-01	Prepared &	Analyzed:	01/26/06				
Total Alkalinity	258	2.00	mg/L		256			0.778	20	
Reference (EA62406-SRM1)				Prepared &	Analyzed:	01/26/06				
Total Alkalinity	97.0		mg/L	100	χ	97.0	90-110			
Batch EA63003 - General Preparatio	on (WetChem)									
Blank (EA63003-BLK1)				Prepared: ()1/26/06 A	nalyzed: 01	/27/06			
Total Dissolved Solids	ND	5.00	mg/L				-			
Duplicate (EA63003-DUP1)	Sou	rce: 6A25018	-01	Prepared: (
Total Dissolved Solids	2020	5.00	mg/L		2080			2.93	5	
Batch EA63004 - General Preparatio	on (WetChem)									
Blank (EA63004-BLK1)				Prepared &	Analyzed:	01/30/06				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	в							
LCS (EA63004-BS1)		•	•	Prepared &	z Analyzed:	01/30/06				
Sulfate	9.61	0.500	mg/L	10.0		96.1	80-120			
Chloride	8.40	0.500		10.0		84.0	80-120			

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Rice Operating Co.	Project: Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/01/06 10:16

General Chemistry Parameters 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 EA63004 - General Preparation (V	WetChem)					· · · ·				
Calibration Check (EA63004-CCV1)				•						
Sulfate	9.82		mg/L	10.0		98.2	80-120			
Chloride	8.64		"	10.0		86.4	80-120			
Duplicate (EA63004-DUP1)	Sour	Prepared &	Analyzed:	01/30/06						
Sulfate	84.4	25.0	mg/L		88.2			4.40	20	
Chloride	879	25.0			886			0.793	20	

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

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Project: Vacuum G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

02/01/06 10:16

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 EA62615 - 6010B/No Digestion										
Blank (EA62615-BLK1)				Prepared &	2 Analyzed:	01/26/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500	· •							
Sođium	ND	0.0100	"							
Calibration Check (EA62615-CCV1)				Prepared &	2 Analyzed:	01/26/06				·
Calcium	2.12		mg/L	2.00		106	85-115			
Magnesium	1.99		"	2.00		99.5	85-115			
Potassium	1.88		"	2.00		94.0	85-115			
Sodium	1.94		"	2.00		97.0	85-115			
Duplicate (EA62615-DUP1)	Sou	rce: 6A19005	-01	Prepared &	2 Analyzed:	01/26/06				
Calcium	224	0.500	mg/L		222			0.897	20	
Magnesium	115	0.0500	· "		120			4.26	20	
Potassium	14.6	0.500	"		15.2			4.03	20	
Sodium	306	0.500			313			2.26	20	

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Rice Operating Co.	Project: Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/01/06 10:16

Notes and Definitions

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:

Raland K. Juli

2/1/2006

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.

Date:

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Page 10 of 10

Project Name: Vacuum G-35 SWD	Project #:	Project Loc: Lea County	P0 #			Analyze For:			BTEX 8021 Br5030 N.O.R.M. Toral Dissolved Solida	×									Z Z C C C C C C C C C C C C C C C C C C	not-for		
Project Name: Vacuum G-35 SWD	Project #:	Project Loc: Lea County	i# Od			Analyze For:	×		1015X 80218/5030 NO,R,M. Dissolved Solida	×					_		-			4 0 4 C		
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Environmental Lab of Texas Váriance / Corrective Action Report – Sample Log-In

Client:	Rive Op.
Date/Time:	1/25/06 13:26
Order #:	425019
Initials:	Cle

Sample Receipt Checklist -2.5 Temperature of container/cooler? Yes No С Shipping container/cooler in good condition? No YES. Custody Seals intact on shipping container/cooler? No Not present ŧ Yaş Custody Seals intact on sample bottles? Xes | No Not present Chain of custody present? No ¥35] Sample Instructions complete on Chain of Custody? No 1 ¥es, Chain of Custody signed when relinquished and received? X=5 | No Chain of custody agrees with sample label(s) Xes 1 No No Container labels legible and intact? XES Sample Matrix and procerties same as on chain of custody? Xes | No Samples in procer container/bottle? Va I No Samples procerly preserved? X= I No Sample bottles intact? X25 | No Preservations documented on Chain of Custody? Xe,s∣ No Containers documented on Chain of Custody? 125 No Sufficient sample amount for indicated test? YES No All samples received within sufficient hold time? NG YESI VOC samples have zero headspace? Not Applicable X28 | No

Other observations:

Variance Documentation:

Contact Person: -	Date/Time:	Contacted by:	
Regarding:			

Corrective Action Taken:



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Analytical Report

Prepared for:

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

Project: Vacuum G-35 SWD Project Number: None Given Location: Lea County

Lab Order Number: 6D27014

Report Date: 05/04/06

Rice Operating Co.	Project:	Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	05/04/06 14:08

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6D27014-01	Water	04/25/06 12:45	04/27/06 10:30

Page 1 of 10

Rice Operating Co.	Project:	Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	05/04/06 14:08

Organics by GC

Environmental Lab of Texas

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	D k	Reporting	11.1						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D27014-01) Water		·						<u>.</u>	
Benzene	0.749	0.00500	mg/L	5	ED62807	04/28/06	05/01/06	EPA 8021B	
Toluene	0.0143	0.00500	14	м	"	"	"	п	
Ethylbenzene	0.0929	0.00500	It.	"		"	4	н	
Xylene (p/m)	0.0190	0.00500	**				н		
Xylene (0)	0.00922	0.00500	ı ,	n		n	•	н	
Surrogate: a.a.a-Trifluorotoluene		109 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-12	0	"	"	"	"	

Environmental Lab of Texas

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Rice Operating Co.	Project: Vacuum G-	35 SWD Fax: (505) 397-1471	
122 W. Taylor	Project Number: None Given	Reported:	
Hobbs NM, 88240	Project Manager: Kristin Farr	is-Pope 05/04/06 14:08	
Hobbs NM, 88240	Project Manager: Kristin Farr	1s-Pope 05/04/06 1	14:08

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D27014-01) Water									······
Total Alkalinity	462	2.00	mg/L	1	EE60301	05/03/06	05/03/06	EPA 310.1M	
Chloride	1540	25.0		50	EE60116	05/01/06	05/01/06	EPA 300.0	
Total Dissolved Solids	3280	5.00		1	EE60115	04/27/06	04/28/06	EPA 160.1	
Sulfate	67.4	25.0		50	EE60116	05/01/06	05/01/06	EPA 300.0	

Environmental Lab of Texas

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Rice Operating Co.	Project: Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/04/06 14:08

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D27014-01) Water									
Calcium	58.6	0,500	mg/L	50	ED62719	04/27/06	04/27/06	EPA 6010B	
Magnesium	21.6	0.0500		. "		. "	"		L.
Potassium	11.7	0.500		10			н	"	
Sodium	1200	5.00		500	н		н	"	

Environmental Lab of Texas

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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.

Page 4 of 10

Rice Operating Co.		Pr	oiect: Va	acuum G-35 S	WD				Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: No	one Given					Repo	orted:
Hobbs NM, 88240		Project Ma	nager: Ki	istin Farris-P	ope				05/04/0	6 14:08
	0	rganics by	GC - (Quality Co	ntrol					
		Environm	nental I	Lab of Te	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62807 - EPA 5030C (GC)										
Blank (ED62807-BLK1)				Prepared: 0)4/28/06 A	nalyzed: 04	4/30/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"	÷						
Ethylbenzene	ND	0.00100	n							
Xvlene (p/m)	ND	0.00100	н.							
Xylene (0)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		n	40.0		106	80-120			
LCS (ED62807-BS1)				Prepared: 0	04/28/06 A	nalyzed: 04	1/30/06			
Benzene	0.0599	0.00100	mg/L	0.0500		120	80-120			
Toluene	0.0580	0.00100	n	0.0500		116	80-120			
Ethylbenzene	0.0551	0.00100	"	0,0500		110	80-120			
Xylene (p/m)	0.120	0.00100	, "	0.100		120	80-120			
Xylene (0)	0.0596	0.00100		0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.0		ug/l	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		"	40.0		106	80-120			
Calibration Check (ED62807-CCV1)				Prepared: 0	04/28/06 A	nałyzed: 05	5/01/06			
Benzene	55.0		ug/l	50.0		110	80-120			
Toluene	53.0		"	50.0		106	80-120			
Ethylbenzene	55.9		n	50.0		112	80-120			
Xylene (p/m)	110			100	•	110	80-120			
Xylene (o)	55.9			50.0		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.0		"	40.0		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	80-120			
Matrix Spike (ED62807-MS1)	Sou	irce: 6D27008-	-01	Prepared: 0)4/28/06 A	nalyzed: 05	5/01/06			
Benzene	0.0576	0.00100	mg/L	0.0500	ND	115	80-120			
Toluene	0.0568	0.00100	"	0.0500	ND	114	80-120			
Ethylbenzene	0.0587	0.00100	11	0,0500	ND	117	80-120			
Xylene (p/m)	0.120	0.00100		0.100	ND	120	80-120			

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Xylene (o)

Surrogate: a,a,a-Trifluorotoluene

Surrogate: 4-Bromofluorobenzene

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ug/l

0.0500

40.0

40.0

ND

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80-120

80-120

80-120

Rice Operating Co.	Project:	Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	05/04/06 14:08

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 ED62807 - EPA 5030C (GC)

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Matrix Spike Dup (ED62807-MSD1)	Source: 6D27008-01			Prepared: 04/28/06 Analyzed: 05/01/06					
Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120	3.42	20
Toluene	0.0579	0.00100		0.0500	ND	116	80-120	1.74	20
Ethylbenzene	0.0585	0.00100	"	0.0500	ND	117	80-120	0.00	20
Xylene (p/m)	0.120	0.00100	**	0.100	ND	120	80-120	0.00	20
Xylene (o)	0.0598	0.00100	"	0.0500	ND	120	80-120	0.00	20
Surrogate: a,a,a-Trifluorotoluene	43.5		ug/l	40.0		109	80-120		
Surrogate: 4-Bromofluorohenzene	46.4		"	40.0		116	80-120		

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Page 6 of 10

Rice Operating Co.		Pr	oject: Va	acuum G-35 S	WD				Fax: (505)	397-1471			
122 W. Taylor		Project Nu	mber: No	one Given					Repo	rted:			
Hobbs NM, 88240		Project Mar	nager: Ki	ristin Farris-P	ope				05/04/06 14:08				
General Ch	emistry Para	ameters by	EPA /	Standard	Method	s - Qua	lity Con	trol					
		Environm	ental I	Lab of Tex	kas								
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
Batch EE60115 - General Preparation (V	VetChem)					``````````````````````````````````````	,						
Blank (EE60115-BLK1)				Prepared: (04/27/06 Ar	nalyzed: 04	/28/06						
Fotal Dissolved Solids	ND	5.00	mg/L										
Duplicate (EE60115-DUP1)	Sou	irce: 6D27015-	01	Prepared: 0	04/27/06 Ar	nalyzed: 04	/28/06						
Fotal Dissolved Solids	3020	5.00	mg/L		3040			0,660	5				
Batch EE60116 - General Preparation (V	VetChem)												
Blank (EE60116-BLK1)				Prepared &	Analyzed:	05/01/06							
Chloride	ND	0.500	mg/L										
Sulfate	ND	0.500	"										
LCS (EE60116-BS1)				Prepared &	Analyzed:	05/01/06							
Sulfate	9.47	0.500	mg/L	10.0		94.7	80-120						
Chloride	9.71	0.500	. 11	10.0		97.1	80-120						
Calibration Check (EE60116-CCV1)				Prepared &	Analyzed:	05/01/06							
Chloride	9.86		mg/L	10.0		98.6	80-120						
Sulfate	8.11		н	10.0		81.1	80-120						
Duplicate (EE60116-DUP1)	Sou	rce: 6D27008-	01	Prepared &	Analyzed:	05/01/06							
Sulfate	80.0	2.50	mg/L		79.2			1.01	20				
Chloride	49.3	2.50			49.0			0.610	20				
Batch EE60301 - General Preparation (V	VetChem)												
Blank (EE60301-BLK1)				Prepared &	Analyzed:	05/03/06							
		2.00	0										

Environmental Lab of Texas

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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.

Rice Operating Co.	Project: Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/04/06 14:08

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 EE60301 - General Preparati	on (WetChem)									
LCS (EE60301-BS1)				Prepared &	Analyzed:	05/03/06				
Bicarbonate Alkalinity	214		mg/L	200		107	85-115			
Duplicate (EE60301-DUP1)	Sourc	e: 6D26006-	-01	Prepared &	Analyzed:	05/03/06				
Total Alkalinity	29.0	2.00	mg/L		28.0			3.51	20	
Reference (EE60301-SRM1)				Prepared &	Analyzed:	05/03/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

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Page 8 of 10

Rice Operating Co.	Project: Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/04/06 14:08

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 ED62719 - 6010B/No Digestion										<u></u>
Blank (ED62719-BLK1)				Prepared &	Analyzed:	04/27/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (ED62719-CCV1)				Prepared &	Analyzed:	04/27/06				
Calcium	2.08		mg/L				85-115			
Magnesium	2.16						85-115			
Potassium	1.94						85-115			
Sodium	1.96		"				85-115			
Duplicate (ED62719-DUP1)	Sou	rce: 6D26006-	01	Prepared &	Analyzed:	04/27/06				
Calcium	0.0366	0.0100	mg/L		0.0367			0.273	20	
Magnesium	ND	0.00100	"		ND	,			20	
Potassium	0.275	0.0500			0.275			0.00	20	
Sodium	13.0	0.100			12.1			7.17	20	

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Rice Ope 122 W. T Hobbs N	erating Co. 'aylor M, 88240	Project: Project Number: Project Manager:	Vacuum G-35 SWD None Given Kristin Farris-Pope	Fax: (505) 397-1471 Reported: 05/04/06 14:08
		Notes and De	finitions	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting limit			
NR	Not Reported			
dry	Sample results reported on a dry weight hasis			
RPD	Relative Percent Difference			
LCS	Laboratory Control Spike			
MS	Matrix Spike			

Dup Duplicate

Report Approved By:

Raland K Junes

5/4/2006

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.

Date:

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

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.

NAL YSIS REQUEST	e: Vacuum G-35 SWD	天	e: Lea County	Ť			Analyze For: TCLP: X	9	4 TAT 4	Anions (C SAR / ESI Metals: As Semivotat RCI N.O.R.M. RCI N.O.R.M. Semivotat RCI N.O.R.M. Scientes RCI N.O.R.M.	X X X					sample Containers. Intact? N abels on container? N Oustody Seals: Containers? Goolef Cemperature Upon Receipt:	aboratory Comments:			
ECORD AND A	Project Nam	Project	Project Le	Od				L L L	שי אפי אסי אסי אסי אסי פטוצאי אסטק אסטק אסטק אפנעא):	Solf Other (sp Cations (C	×			 			Time	10:0	1030	
r CUSTODY R								Matc	beci(y)	Other (5 Water	×					eswd.con	Date	10/12/4	Almbu	
CHAIN OI					5) 397-1471			Preservative	0 nư glass vials	изон но но но но но но но но и но и но и	X 2 1					& mfranks@ric	1000			
					Fax No: (50	\sim			bəlqms 2000 2001	2 emiT No. of C	12:45 3	 				 Driceswd.com	na / Pour		i lee	
	Oriceswd.con					9310,	the the	22	pəldwe	Date S	4/25/2006	 				TO: kpope(Received by:	James(Johnson		
Lab of Texas Phone: 432-563-1800 Fax: 432-563-1713	in Farris Pope kpope(E Operating Company	W. Taylor Street	bs, New Mexico 88240) 393-9174	anne Johnson (505) 631-9	nne@valornet.com	<i>H</i>		FIELD CODE	#1					LEASE Email RESULTS	Date Time	00:07 moli2/k	1127106 1130	
Environmental 12600 West 1-20 East Odessa, Texas 79765	Project Manager: Krist	Company Name RICE	Company Address: 122	City/State/Zip: Hobl	Telephone No: (505	Sampler Signature: ROZE	Email: 102a		Anola	LOV LAB # (ab),use only)	Monitor Well					Special Instructions:	Relimentsheed by	Prozanne Jomsent &	Handusned by	

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

ent	Rice Op.	
te/Time	Alerlae 10:30	
der #: _	6027014	
tials:	CPC	

Sample Receipt Checklist

mperature of container/cooler?	Yes	No	20 CI
ipping container/cooler in good condition?	1 Yes 1	No 1	
stody Seals intact on shipping container/cooler?	Es	Na	Nct present
stody Seals intact on sample bottles?	Yas	No	Not present
ain of custody present?	1	No 1	
mple Instructions complete on Chain of Custody?	Yes.	No	······································
ain of Custody signed when relinquished and received?	A	No	
ain cricustody agrees with sample label(s)	XES	No I	
ntainer labels legible and intact?	YED	No	
mple Matrix and properties same as on chain of custody?	Yes	No	
mples in proper container/bottle?	Yes	No	
mples properly preserved?	Yes	I No	
mple bottles intact?	1XED	I No	
eservations documented on Chain of Custody?	1 Ves	No	
ontainers documented on Chain of Custody?	255	No	
ifficient sample amount for indicated test?	Ves	No	
samples received within sufficient hold time?	1000	No	
C samples have zero headspace?	YER	I NO	Not Applicable

ther observations:

10 11

Variance Documentation: ontact Person: -____ Date/Time: ____ Contacted by: _____ egarding: ______ crrective Action Taken: ______ ______



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Analytical Report

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

Project: Vacuum G-35 SWD Project Number: None Given Location: Lea County

Lab Order Number: 6F06021

Report Date: 06/19/06

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Vacuum G-35 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 #2	6F06021-01	Water	06/06/06 08:00	06/06/06 15:40

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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Rice Operating Co.	Project:	Vacuum G-35 SWD	,	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given		
Hobbs NM, 88240	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 #2 (6F06021-01) Water						- <u></u>			
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	EPA 8021B	
Toluene	1 [0.000839]	0.00100		n		"	n		
Ethylbenzene	J [0.000385]	0.00100	"			**	"	•	
Xylene (p/m)	0.00339	0.00100		R		n		"	
Xylene (0)	0.00105	0.00100	"	"		•	U.	"	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-12	0	"	"	"	н	
Surrogate: 4-Bromofluorobenzene		95.5 %	80-12	0	"	"	"	"	

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240

Project: Vacuum G-35 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 #2 (6F06021-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	174	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	· · · ·
Chloride	17.4	2.50	н	5	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	286	5.00		1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	24.7	2.50		5	EF60811	06/08/06	06/08/06	EPA 300.0	

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Project: Vacuum G-35 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	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6F06021-01) Water									
Calcium	53,9	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	10.3	0.0100	Þ	"		*	"		
Potassium	2.58	0.500	"	"	"	"		n	
Sodium	13.8	0.100	"	- 11	R	"	"	U.	

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Project: Vacuum G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Unite	Spike	Source Result	%REC	%REC	RPD	RPD Limit	Notes
	Kesui	Linit	Onits	Level	Result		Lanats		Linin	
Batch EF60716 - EPA 5030C (GC)										
Blank (EF60716-BLK1)				Prepared: 0	6/07/06 A	nalyzed: 06	/09/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100								
Xylene (0)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/l	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.3		"	40.0		83.2	80-120			
LCS (EF60716-BS1)				Prepared: 0	6/07/06 A	nalyzed: 06	/08/06			
Benzene	0.0428	0.00100	mg/L	0.0500		85.6	80-120			
Toluene	0.0446	0.00100	*	0.0500		89.2	80-120			
Ethylbenzene	0.0420	0.00100	*	0.0500		84.0	80-120			
Xylene (p/m)	0.0893	0.00100		0.100		89.3	80-120			
Xylene (o)	0.0490	0.00100	н	0.0500		98.0	80-120			
Surrogate: a.a,a-Trifluorotoluene	32.8		ug/l	40.0		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.5		"	40.0		96.2	80-120			
Calibration Check (EF60716-CCV1)				Prepared: 0	6/07/06 A	nalyzed: 06	/09/06			
Benzene	48.5		ug/l	50.0		97.0	80-120			
Toluene	50.0			50.0		100	80-120			
Ethylbenzene	52.4			50.0		105	80-120			
Xylene (p/m)	98.3			100		98.3	80-120			
Xylene (o)	51.1			50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.0		n	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			
Matrix Spike (EF60716-MS1)	Sou	rce: 6F01010-	01	Prepared: 0	6/07/06 A	nałyzed: 06	/09/06			
Benzene	0.0479	0.00100	mg/L	0.0500	ND	95.8	80-120			
Toluene	0.0469	0.00100	**	0.0500	ND	93.8	80-120			
Ethylbenzene	0.0446	0,00100	*	0.0500	ND	89.2	80-120			
Xylene (p/m)	0.0979	0.00100		0.100	ND	97.9	80-120			
Xylene (0)	0.0519	0.00100	*	0.0500	ND	104	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.8		ug/l	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.0		"	40.0		110	80-120			

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Project: Vacuum G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EF60716 - EPA 5030C (GC)

Matrix Spike Dup (EF60716-MSD1)	Sou	ırce: 6F01010-(01	Prepared: 06	5/07/06 A	nalyzed: 0	5/09/06		
Benzene	0.0519	0.00100	mg/L	0.0500	ND	104	80-120	8.21	20
Toluene	0.0510	0.00100	н	0.0500	ND	102	80-120	8.38	20
Ethylbenzene	0.0480	0.00100	"	0.0500	ND	96.0	80-120	7.34	20
Xylene (p/m)	0.107	0.00100	я	0.100 .	ND	107	80-120	8.88	20
Xylene (0)	0.0565	0.00100	и	0.0500	ND	113	80-120	8.29	20
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	40.0		102	80-120		
Surrogate: 4-Bromofluorobenzene	44.1		"	40.0		110	80-120		

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.		Pr	oject: V	acuum G-35 S	SWD				Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: N	one Given						
Hobbs NM, 88240		Project Mar	nager: Ki	ristin Farris-P	ope					
General Ch	emistry Para	ameters by	EPA /	Standard	l Method	ls - Qua	lity Con	trol		
		Environm	iental l	Lab of Tex	xas					
	ı	Reporting		Spike	Source		%REC		RPD	•
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF60810 - Filtration Preparation										
Blank (EF60810-BLK1)				Prepared &	Analyzed:	06/07/06				
Total Dissolved Solids	ND	5.00	mg/L							·
Duplicate (EF60810-DUP1)	Sou	rce: 6F06018-	01	Prepared &	Analyzed:	06/07/06				
Total Dissolved Solids	542	5.00	mg/L		552			1.83	5	
Blank (EF60811-BLK1)				Prepared &	Analyzed:	06/08/06				
Sulfate	ND	0.500	mg/L						~	
Chloride	ND	0.500	4							
LCS (EF60811-BS1)				Prepared &	2 Analyzed:	06/08/06				
Chloride	9.87	0.500	mg/L	10.0		98.7	80-120			
Sulfate	8.09	0.500	n	10.0		80.9	80-120			
Calibration Check (EF60811-CCV1)				Prepared &	Analyzed:	06/08/06				
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	9.04		"	10.0		90.4	80-120			
Duplicate (EF60811-DUP1)	Sou	rce: 6F06018-	01	Prepared &	Analyzed:	06/08/06				
Sulfate	76.2	5.00	mg/L		76.6			0.524	20	
Chloride	38.5	5.00			38.5			0.00	20	
Duplicate (EF60811-DUP2)	Sou	rce: 6F08002-	01	Prepared &	Analyzed:	06/08/06				
Chloride	2030	50.0	mg/L		2150			5.74	20	
Sulfate	278	50.0			282			1 43	20	

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

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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 EF60811 - General Preparation	ı (WetChem)									
Matrix Spike (EF60811-MS1)	Sour	ce: 6F06018-	01	Prepared &	Analyzed:	06/08/06				
Chloride	132	5.00	mg/L	100	38,5	93.5	80-120			
Sulfate	142	5.00		100	76,6	65.4	75-125			QS-
Matrix Spike (EF60811-MS2)	Sour	ce: 6F08002-	01	Prepared &	Analyzed:	06/08/06				
Chloride	3330	50.0	mg/L	1000	2150	118	80-120			
Sulfate	923	50.0		1000	282	64.1	75-125			QS-
Sullate	225									
Batch EF60916 - General Preparation	n (WetChem)									
Batch EF60916 - General Preparation Blank (EF60916-BLK1)	n (WetChem)			Prepared &	Analyzed:	06/09/06				
Batch EF60916 - General Preparation Blank (EF60916-BLK1) Total Alkalinity	n (WetChem) ND	2.00	mg/L	Prepared &	2 Analyzed:	06/09/06				
Batch EF60916 - General Preparation Blank (EF60916-BLK1) Total Alkalinity LCS (EF60916-BS1)	n (WetChem)	2.00	mg/L	Prepared & Prepared &	2 Analyzed:	06/09/06				
Batch EF60916 - General Preparation Blank (EF60916-BLK1) Total Alkalinity LCS (EF60916-BS1) Bicarbonate Alkalinity	n (WetChem) ND 214	2.00	mg/L mg/L	Prepared & Prepared & 200	Analyzed:	06/09/06 06/09/06 107	85-115			
Batch EF60916 - General Preparation Blank (EF60916-BLK1) Total Alkalinity LCS (EF60916-BS1) Bicarbonate Alkalinity Duplicate (EF60916-DUP1)	n (WetChem) ND 214 Sour	2.00 2.00 ce: 6F06018-	mg/L mg/L 01	Prepared & Prepared & 200 Prepared &	2 Analyzed: 2 Analyzed: 2 Analyzed:	06/09/06 06/09/06 107 06/09/06	85-115		· · ·	
Batch EF60916 - General Preparation Blank (EF60916-BLK1) Total Alkalinity LCS (EF60916-BS1) Bicarbonate Alkalinity Duplicate (EF60916-DUP1) Total Alkalinity	n (WetChem) ND 214 Sour 206	2.00 2.00 ce: 6F06018- 2.00	mg/L mg/L 01 mg/L	Prepared & Prepared & 200 Prepared &	2 Analyzed: 2 Analyzed: 2 Analyzed: 207	06/09/06 06/09/06 107 06/09/06	85-115	0.484	20	
Batch EF60916 - General Preparation Blank (EF60916-BLK1) Total Alkalinity LCS (EF60916-BS1) Bicarbonate Alkalinity Duplicate (EF60916-DUP1) Total Alkalinity Reference (EF60916-SRM1)	n (WetChem) ND 214 Sour 206	2.00 2.00 ce: 6F06018- 2.00	mg/L mg/L D1 mg/L	Prepared & 200 Prepared & Prepared & Prepared &	2 Analyzed: 2 Analyzed: 2 Analyzed: 207 2 Analyzed:	06/09/06 06/09/06 107 06/09/06	85-115	0.484	20	

Environmental Lab of Texas

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Rice Operating Co.	Project: Vacuum G-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EF60804 - 6010B/No Digestion

Blank (EF60804-BLK1)				Prepared & Analy	zed: 06/08/06				
Calcium	ND	0.0100	mg/L						
Magnesium	ND	0.00100	n						
Potassium	ND	0.0500	"						
Sodium	ND	0.0100	11						~
Calibration Check (EF60804-CCV1)				Prepared & Analy	zed: 06/08/06				
Calcium	2.12		mg/L	2.00	106	85-115	-		
Magnesium	2.10		0	2.00	105	85-115			
Potassium	1.95		"	2.00	97.5	85-115			
Sodium	2.02		"	2.00	101	85-115			
Duplicate (EF60804-DUP1)	Sou	rce: 6F01010-	01	Prepared & Analy	zed: 06/08/06				
Calcium	102	0.100	mg/L	10	0		1.98	20	
Magnesium	10.5	0.0100	n	9.8	5		6.39	20	
Potassium	3,96	0,500	n	4.0	6		2.49	20	
Sodium	27.4	0.100	n	30.	6		11.0	20	

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.

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Rice Ope 122 W. T Hobbs N	erating Co. Taylor IM, 88240	Project: Vacuum G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471
		Notes and Definitions	
QS-1	The spike recovery value is outside Lat	oratory historical or method prescribed QC limits.	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the r	eporting limit	
NR	Not Reported		
dry	Sample results reported on a dry weight bas	S	
RPD	Relative Percent Difference		

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland KJut Date: 6/19/2006

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.

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713



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

	RICE DE	/
Date/Time:	ce/ce/oce	340
Order #:	6F06021	
Initials:	CK	

Sample Receipt Checklist

Yes	<u>No </u>	C
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LES	No	Not present ()
_ <u>ZES</u>	No	Not present
255	No	
des !!	No	· · · · · · · · · · · · · · · · · · ·
Xes	No	
YES	No	
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Tes	No	
	No	
125	No	
Yes	i No	
1 735	No	
1 Ales	No	
1835	No	······································
XES	No	
YER	No	Not Apolicable
		Yes No No No No No No No No No No No No No N

Other observations:

Variance Documentation:

Regarding:

Corrective Action Taken:

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Contact Person: -_____ Date/Time: ______ Contacted by: _____

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MULLIUM TRACE ANALYSIS, INC. MULLIUM

6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79932 888•588•3443 E-Mail lab@traceanalysis.com 806 • 794 • 1296 FAX 806 • 794 • 1298 915 • 585 • 3443 FAX 915 • 585 • 4944

Analytical and Quality Control Report

Kristin Farris-Pope Rice Operating Company 122 W Taylor Street Hobbs, NM, 88240

Project Location:Lea County,NMProject Name:Vacuum G-35 SWDProject Number:Vacuum G-35 SWD

Report Date: August 24, 2006

Work Order: 6080431

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
98079	Monitor #1	water	2006-08-03	08:10	2006-08-04
98080	Monitor #2	water	2006-08-03	09:50	2006-08-04

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Report Date: August 24, 2006 Vacuum G-35 SWD

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Analytical Report

Sample: 98079 - Monitor #1

Analysis:	Alkalinity		Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	28900		Date Analyzed:	2006-08-10	Analyzed By:	LJ
Prep Batch: 25245			Sample Preparation:	2006-08-10	Prepared By:	LJ
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Hydroxide A	Ikalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate A	lkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate	Alkalinity		590	mg/L as CaCo3	1	4.00
Total Alkalin	nity		590	mg/L as CaCo3	1	4.00

Sample: 98079 - Monitor #1

Analysis:	BTEX		Analytical M	ethod:	S 8021B		Prep Me	thod: S 5030B
QC Batch:	28847		Date Analyze	ed:	2006-08-09		Analyze	d By: KB
Prep Batch:	25227		Sample Prepa	aration:	2006-08-09		Prepared By:	
			RJ	L				
Parameter	Flag		Resu	lt	Units		Dilution	RL
Benzene	······		0.13	0	mg/L		1	0.00100
Toluene			< 0.0010	0	mg/L		1	0.00100
Ethylbenzene			0.030	3	mg/L		1	0.00100
Xylene			0.0045	0	mg/L	<u> </u>	1	0.00100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.0691	mg/L	1	0.100	69	67.2 - 121.3
4-Bromofluo	robenzene (4-BFB)		0.0772	mg/L	1	0.100	77	35.2 - 122.7

Sample: 98079 - Monitor #1

Analysis: QC Batch: Prep Batch:	Cations 28886 25206		Analytical Method: Date Analyzed: Sample Preparation:	S 6010B 2006-08-10 2006-08-09	Prep Method: Analyzed By: Prepared By:	S 3005A TP TS
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Dissolved Ca	lcium		49.8	mg/L	1	0.500
Dissolved Po	tassium		15.1	mg/L	1	1.00
Dissolved Ma	agnesium		13.8	mg/L	1	1.00
Dissolved So	dium		842	mg/L	10	1.00

Sample: 98079 - Monitor #1

Analysis:	lon Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28875	Date Analyzed:	2006-08-08	Analyzed By:	WB
Prep Batch:	25189	Sample Preparation:	2006-08-07	Prepared By:	WB

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		RL					
Parameter Flag		Result		Units		Dilution	RL
Chloride		1160		mg/L		100	0.500
Sulfate		24.9		mg/L		10	0.500
					, ,		
Sample: 98079 - Monitor #1							
Analysis: TDS		Analytical	Method:	SM 2540C		Pre	p Method: N/A
QC Batch: 28836		Date Anal	yzed:	2006-08-09		An	alyzed By: SM
Prep Batch: 25194		Sample Pr	eparation	2009-08-08		Pre	pared By: SM
			RL				
Parameter	Flag	F	Result	Unit	ts	Dilution	
Total Dissolved Solids			2175	mg/	L	5	10.00
Sample: 98080 - Monitor #2							
Analysis: Alkalinity		Analytic	al Method	1: SM 2320B		Pre	p Method: N/A
QC Batch: 28900		Date An	alyzed:	2006-08-10		An	alyzed By: LJ
Prep Batch: 25245		Sample I	Preparatio	on: 2006-08-10		Pre	pared By: LJ
		Ā	21				
Parameter	Flag	Resi	ult		Units	Dilution	RL
Hydroxide Alkalinity		<1.0	00	mg/L as (CaCo3	1	1.00
Carbonate Alkalinity		<1.	00	mg/L as (CaCo3	1	1.00
Bicarbonate Alkalinity		24	46	mg/L as (CaCo3	1	4.00
Total Alkalinity		24	46	mg/L as (CaCo3	1	4.00
Sample: 98080 - Monitor #2						τ.	
Analysis: BTEX		Analytical M	fethod:	S 8021B		Prep M	ethod: S 5030B
QC Batch: 28847		Date Analyz	ed:	2006-08-09		Analyz	ed By: KB
Prep Batch: 25227		Sample Prep	aration:	2006-08-09		Prepare	d By: KB
		R	L				
Parameter Fla	3	Resu	lt	Units		Dilution	RL
Benzene		< 0.0010	0	mg/L		1	0.00100
Toluene		< 0.0010	0	mg/L		1	0.00100
Ethylbenzene		< 0.0010	10	mg/L		1	0.00100
Xylene		< 0.0010	0	mg/L		<u>l</u>	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	1	0.0634	mg/L	1	0.100	63	67.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.0614	mg/L	1	0.100	61	35.2 - 122.7

¹TFT surrogate recovery outside normal limits due to matrix interference. BFB surrogate recovery shows the method to be in control.

Report Date: August 24, 2006	Work Order: 6080431	Page Number: 4 of 13
Vacuum G-35 SWD	Vacuum G-35 SWD	Lea County,NM

Sample: 98080 - Monitor #2

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Analysis:	Cations		Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	28886		Date Analyzed:	2006-08-10	Analyzed By:	TP
Prep Batch:	25206		Sample Preparation: 2006-08-09 Prepared I		Prepared By:	TS
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Dissolved Ca	alcium		64.5	mg/L	1	0.500
Dissolved Po	otassium		4.34	mg/L	1	1.00
Dissolved M	agnesium		9.91	mg/L	1	1.00
Dissolved So	odium		12.8	mg/L	1	1.00

Sample: 98080 - Monitor #2

Analysis:	Ion Chromatography	Analytical	Method: E 300.0		Prep Method:	N/A
QC Batch:	28875	Date Analy	yzed: 2006-08-08		Analyzed By:	WB
Prep Batch:	25189	Sample Pro	eparation: 2006-08-07		Prepared By:	WB
		RL				
Parameter	Flag	Result	Units	Dilution		RL
Chloride		19.3	mg/L	5		0.500
Sulfate		24.9	mg/L	5		0.500

Sample: 98080 - Monitor #2

Analysis:	TDS		Analytical Method:	SM 2540C		Prep Method:	N/A
QC Batch:	28836		Date Analyzed:	2006-08-09		Analyzed By:	SM
Prep Batch:	25194		Sample Preparation:	2009-08-08		Prepared By:	SM
			RL				
Parameter		Flag	Result	Units	Dilution		RL
Total Dissolv	ed Solids		309.0	mg/L	1	· · · · · · · · · · · · · · · · · · ·	10.00

Method Blank (1) QC Batch: 28836

QC Batch:	28836	Date Ana	lyzed: 2006-08-09		Analyzed By:	SM
Prep Batch:	25194	QC Prep	aration: 2006-08-08		Prepared By:	SM
			MDL			
Parameter		Flag	Result	Units		RL
Total Dissolv	ved Solids		< 5.000	mg/L		10

Method Blank (1) QC Batch: 28847

QC Batch:	28847	Date Analyzed:	2006-08-09	Analyzed By:	KB
Prep Batch:	25227	QC Preparation:	2006-08-09	Prepared By:	KB

Report Date: August 24, 2006	Work Order: 6080431
Vacuum G-35 SWD	Vacuum G-35 SWD

Page Number: 5 of 13 Lea County,NM

		MDL			
Parameter	Flag	Result	Unit	IS	RL
Benzene	······································	< 0.000255	mg/2	L	0.001
Toluene		< 0.000210	mg/2	L	0.001
Ethylbenzene		< 0.000317	mg/l	L	0.001
Xylene		< 0.000603	mg/l	L	0.001
			Spike	Percent	Recovery

Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.0926	mg/L	1	0.100	93	79.3 - 116
4-Bromofluorobenzene (4-BFB)		0.0596	mg/L	1	0.100	60	47.6 - 122

Method Blank (1) QC Batch: 28875

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QC Batch: Prep Batch:	28875 25189		Date Analyzed: QC Preparation:	2006-08-08 2006-08-07		Analyzed By: Prepared By:	WB WB
				MDL			
Parameter		Flag	I	Result	Units		RL
Chloride	·····		<0	0.0181	mg/L		0.5
Sulfate			<0	0.0485	mg/L		0.5

Method Blank (1) QC Batch: 28886

QC Batch:	28886	Date A	Analyzed: 2006-08-10		Analyzed By:	ТР
Prep Batch:	25206	QC Pr	eparation: 2006-08-09		Prepared By:	TS
			MDL			
Parameter		Flag	Result	Units		RL
Dissolved Ca	lcium		< 0.0950	mg/L		0.5
Dissolved Por	tassium		< 0.377	mg/L		1
Dissolved Ma	Ignesium		< 0.704	mg/L		1
Dissolved So	dium		<0.261	mg/L		1

Method Blank (1) QC Batch: 28900

QC Batch:	28900		Date Analyzed:	2006-08-10		Analyzed By:	LJ
Prep Batch:	25245		QC Preparation:	2006-08-10		Prepared By:	LJ
			Ν	1DL			
Parameter		Flag	R	esult	Units		RL
Hydroxide A	lkalinity		<	1.00	mg/L as CaCo3		1
Carbonate Al	kalinity		<	1.00	mg/L as CaCo3		1
Bicarbonate A	Alkalinity		<	4.00	mg/L as CaCo3		4
Total Alkalin	ity		<	4.00	mg/L as CaCo3		4

Report Date: August 24, 2006 Vacuum G-35 SWD		Work Or Vacuum	der: 6080 G-35 SV	0431 WD			Page	Number Lea Cou	: 6 of 13 inty,NM
Duplicates (1)									
QC Batch: 28836 Prep Batch: 25194	I	Date Analyzed: QC Preparation:	2006-03 2006-03	8-09 8-08			Anal Prep	yzed By ared By:	r: SM : SM
Param	Duplicate Result	e Sample Result	e	Units	Dilutio	on	RPD)	RPD Limit
Total Dissolved Solids	748.0	636.0		mg/L	1		16		17.2
Duplicates (1)									
QC Batch: 28900 Prep Batch: 25245		Date Analyzed: QC Preparation:	2006-0 2006-0	18-10 18-10			An: Pre	alyzed B pared By	y: LJ 7: LJ
Param	Duplicate Result	Sample		Units	Dil	ution	RÞ	D	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mø		DII	1			20
Carbonate Alkalinity	<1.00	<1.00	mg/	L as CaCo3		1.	0	1	20
Bicarbonate Alkalinity	160	156	mg/	L as CaCo3		1	2		12.6
Total Alkalinity	160	156	mg/	'L as CaCo3		1	2		11.5
Laboratory Control Spike (LCS- QC Batch: 28847 Prep Batch: 25227	-1) 	Date Analyzed: QC Preparation:	2006-03 2006-03	8-09 8-09			Ana Prep	lyzed By ared By	7: KB : KB
	LCS			Spike	Matr	ix			Rec.
Param	Result	Units	Dil.	Amount	Resu	lt	Rec.		Limit
Benzene	0.103	mg/L	1	0.100	< 0.000	255	103	82	.2 - 119
Toluene	0.101	mg/L	1	0.100	<0.000	210	101	81	.2 - 119
Etnyibenzene Xvlene	0.100	mg/L mg/L	1	0.100	<0.000	517 603	100	81	0 - 122 .3 - 123
Percent recovery is based on the sp	oike result. RPD is	s based on the spi	ke and s	pike duplicate i	esult.				
	LCSD	:	Spike	Matrix		R	ec.		RPD
Param	Result Ur	nits Dil. A	mount	Result	Rec.	Li	mit	RPD	Limi
Benzene	0.0990 mg	g/L 1	0.100	< 0.0 00255	103	82.2	- 119	4	20
Toluene	0.0987 mg	g/L 1	0.100	< 0.000210	101	81.2	- 119	2	20
Ethylbenzene	0.0977 mg	g/L 1 (0.100	< 0.000317	100	80 -	- 122	2	20
Xylene	0.302 mg	g/L 1	0.300	< 0.000603	103	81.3	- 122	3	20
Percent recovery is based on the sp	oike result. RPD is	s based on the spi	ke and sj	pike duplicate i	result.				
	LCS	LCSD		Sni	ke	LCS	LCSD		Rec

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	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0988	0.0975	mg/L	1	0.100	99	98	81.8 - 114
4-Bromofluorobenzene (4-BFB)	0.104	0.103	mg/L	1	0.100	104	103	72.7 - 116

Report Date: August 24, 2006	Work Order: 6080431	Page Number: 7 of 13
Vacuum G-35 SWD	Vacuum G-35 SWD	Lea County,NM

Laboratory Control Spike (LCS-1)

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Xylene

QC Batch:	28875	Date Analyzed:	2006-08-08	Analyzed By:	WB
Prep Batch:	25189	QC Preparation:	2006-08-07	Prepared By:	WB

LCS			Spike	Matrix		Rec.
Result	Units	Dil.	Amount	Result	Rec.	Limit
11.2	mg/L	1	12.5	< 0.0181	90	90 - 110
11.3	mg/L	1	12.5	< 0.0485	90	90 - 110
	LCS Result 11.2 11.3	LCS Result Units 11.2 mg/L 11.3 mg/L	LCS Result Units Dil. 11.2 mg/L 1 11.3 mg/L 1	LCSSpikeResultUnitsDil.11.2mg/L111.3mg/L112.5	LCS Spike Matrix Result Units Dil. Amount Result 11.2 mg/L 1 12.5 <0.0181	LCS Spike Matrix Result Units Dil. Amount Result Rec. 11.2 mg/L 1 12.5 <0.0181

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	11.6	mg/L	1	12.5	< 0.0181	90	90 - 110	4	20
Sulfate	11.5	mg/L	1	12.5	< 0.0485	90	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 28	8886	Date Analyzed:	2006-08-10	Analyzed By:	TP
Prep Batch: 25	5206	QC Preparation:	2006-08-09	Prepared By:	TS

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Dissolved Calcium	54.1	mg/L	1	50.0	< 0.0950	108	85 - 115
Dissolved Potassium	54.1	mg/L	1	50.0	< 0.377	108	85 - 113
Dissolved Magnesium	52.3	mg/L	1	50.0	< 0.704	105	85 - 113
Dissolved Sodium	53.5	mg/L	1	50.0	< 0.261	107	85 - 111

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Dissolved Calcium	52.8	mg/L	1	50.0	< 0.0950	108	85 - 115	2	20
Dissolved Potassium	50.8	mg/L	1	50.0	< 0.377	108	85 - 113	6	20
Dissolved Magnesium	50.2	mg/L	1	50.0	< 0.704	105	85 - 113	4	20
Dissolved Sodium	52.6	mg/L	1	50.0	< 0.261	107	85 - 111	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 98583

QC Batch: 28847			Date Analyze	ed: 2006		Analyz	zed By: KB	
Prep Batch: 25227			QC Preparati	on: 2006	-08-09		Prepar	ed By: KB
		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		0.101	mg/L	1	0.100	< 0.000255	101	70.9 - 126
Toluene		0.100	mg/L	1	0.100	< 0.000210	100	70.8 - 125
Ethylbenzene	e	0.102	mg/L	1	0.100	< 0.000317	102	74.8 - 125

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0.300

103

75.7 - 126

< 0.000603

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

mg/L

0.308

Report Date: August 24, 2006	Work Order: 6080431	Page Number: 8 of 13
Vacuum G-35 SWD	Vacuum G-35 SWD	Lea County,NM
		······

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	0.0932	mg/L	1	0.100	< 0.000255	93	70.9 - 126	8	20
Toluene	0.0926	mg/L	1	0.100	< 0.000210	93	70.8 - 125	8	20
Ethylbenzene	0.0947	mg/L	1	0.100	< 0.000317	95	74.8 - 125	7	20
Xylene	0.288	mg/L	1	0.300	< 0.000603	96	75.7 - 126	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	. Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2	0.0758	0.0708	mg/L	1	0.1	76	71	73.6 - 121
4-Bromofluorobenzene (4-BFB)		0.103	0.104	mg/L	1	0.1	103	104	81.8 - 114

Matrix Spike (MS-1) Spiked Sample: 98079

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QC Batch:	28875	Date Analyzed:	2006-08-08	Analyzed By:	WB
Prep Batch:	25189	QC Preparation:	2006-08-07	Prepared By:	WB

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	2400	mg/L	100	12.5	1160	99	25.4 - 171
Sulfate	1210	mg/L	100	12.5	24.9	95	0 - 677

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	2430	mg/L	100	12.5	1160	102	25.4 - 171	1	20
Sulfate	1230	mg/L	100	12.5	24.9	96	0 - 677	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 98074

QC Batch:	28886	Date Analyzed:	2006-08-10	Analyzed By:	TP
Prep Batch:	25206	QC Preparation:	2006-08-09	Prepared By:	TS

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Dissolved Calcium		133	mg/L	1	50.0	96.3	73	68.4 - 138
Dissolved Potassium		65.0	mg/L	1	50.0	10.8	108	82 - 129
Dissolved Magnesium		85.2	mg/L	1	50.0	49.3	72	61.2 - 135
Dissolved Sodium	3	201	mg/L	10	50.0	167	7	81.8 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Dissolved Calcium	146	mg/L	1	50.0	96.3	99	68.4 - 138	9	20
Dissolved Potassium	70.5	mg/L	1	50.0	10.8	119	82 - 129	8	20
Dissolved Magnesium	95.6	mg/L	1	50.0	49.3	93	61.2 - 135	12	20
continued				,					

²Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.

³Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: August 2: Vacuum G-35 SWD	4, 2006		Work Vacu	Order: 608043 um G-35 SWD	1		Page Numbe Lea Cc	r: 9 of 1: ounty,NN
<i>matrix spikes continuea</i> Param	1	MSD Result	Units Dil	Spike	Matrix Result	Rec. Limit	RPD	RPD Limi
Dissolved Sodium	4	223	$\frac{\text{mg/L}}{\text{mg/L}}$ 10	50.0	167	11 81.8 - 12	5 10	20
Percent recovery is base	ed on the spi	ke result. RPI	D is based on the	spike and spike	duplicate re	sult.		
Standard (ICV-1)								
QC Batch: 28836			Date Analyzed	: 2006-08-09			Analyzed B	y: SM
			ICVs	ICVs	ICVs	Percen	t	
			True	Found	Percen	t Recover	У	Date
Param	Flag	Units	Conc.	Conc.	Recover	y Limits	A	nalyzed
Total Dissolved Solids		mg/L	1000	1026	103	90 - 11	0 200	06-08-0
Standard (CCV-1) QC Batch: 28836			Date Analyzed	: 2006-08-09			Analyzed B	y: SM
			CCVs	CCVs	CCVs	Percen	t	
			True	Found	Percen	t Recover	гу	Date
Param	Flag	Units	Conc.	Conc.	Recover	y Limits	A	nalyzed
Total Dissolved Solids		mg/L	1000	1001	100	90 - 11	0 20	06-08-09
Standard (ICV-1) QC Batch: 28847			Date Analyzed	: 2006-08-09	ICVa	Deposit	Analyzed B	y: KE
			True	Found	Percent	Pecover	7	Data
Param	Flag	Units	Conc	Conc	Recovery	Limits	Δ	nalvzed
Benzene		mg/L	0.100	0.102	102	85 - 115	200	06-08-0
Toluene		mg/L	0.100	0.102	102	85 - 115	200	06-08-0
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	200	06-08-0
Xylene		mg/L	0.300	0.310	103	85 - 115	200	06-08-0
Standard (CCV-1)			Date Analyzed	· 2006-08-09			Analyzed B	v KF
x = 194104, 2007/			Sale Mary 200	. 2000 00 09			2 mary 200 D	<i>J</i> . KĽ
			CCVs	CCVs	CCVs	Percent		
n	-		True	Found	Percent	Recovery	7	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	A	nalyzed
Benzene		mg/L	0.100	0.0973	97	85 - 115	200	0-08-0
Totuene		mg/L	0.100	0.0965	96	85 - 115	200	J6-08-0
Etnylbenzene		mg/L	0.100	0.0978	98	85 - 115	200	06-08-0 06-08-0
Ayiene		mg/L	0.300	0.295	98	85 - 115	200	10-08-0

⁴Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

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Report Date: August 24, 2006 Vacuum G-35 SWD

Standard (ICV-1)

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QC Batch:	28875		Date Ana	lyzed: 2006-08	Analyzed By: WB		
			ICVs	lCVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2006-08-08
Sulfate		mg/L	12.5	11.5	92	90 - 110	2006-08-08

Standard (CCV-1)

QC Batch:	28875		Date Ana	Analyzed By: WB			
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2006-08-08
Sulfate		mg/L	12.5	11.3	90	90 - 110	2006-08-08

Standard (ICV-1)

QC Batch: 28886			Date Analyzed:	2006-08-10		Ana	lyzed By: TP
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium	····	mg/L	50.0	49.9	100	90 - 110	2006-08-10
Dissolved Potassium		mg/L	50.0	51.5	103	90 - 110	2006-08-10
Dissolved Magnesium		mg/L	50.0	51.0	102	90 - 110	2006-08-10
Dissolved Sodium		mg/L	50.0	53.1	106	90 - 110	2006-08-10

Standard (CCV-1)

QC Batch: 28886			Date Analyzed:	2006-08-10		Ana	lyzed By: TP
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium		mg/L	50.0	52.9	106	90 - 110	2006-08-10
Dissolved Potassium		mg/L	50.0	53.0	106	90 - 110	2006-08-10
Dissolved Magnesium		mg/L	50.0	48.2	96	90 - 110	2006-08-10
Dissolved Sodium		mg/L	50.0	52.7	105	90 - 110	2006-08-10

Standard (ICV-1)

QC Batch: 28900			Date Analyzed: 2006-08-10				Analyzed By: LJ		
				ICVs True	ICVs Found	ICVs Percent	Percent	Date	
				nue	Tound	Tercent	Recovery	Date	
Param	I	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Total Alkali	nity		mg/L as CaCo3	250	250	100	90 - 110	2006-08-10	

Report Date: Au Vacuum G-35 S	ugust 24, 2006 WD	4, 2006 Work Order: 6080431 Vacuum G-35 SWD				Work Order: 6080431 Page N Vacuum G-35 SWD		
Standard (CCV	/-1)							
QC Batch: 289	000	Dat	e Analyzed:	2006-08-10		An	alyzed By: LJ	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	2006-08-10	

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Report Date: August 24, 2006 Vacuum G-35 SWD

				Percentage	Error	10.2902639	23.97832511	
EC	μMHOs/cm			Anions	in meq/L	45.04	5.98	
TOS	mdd	2175	309	Cations	in meq/L	40.63	4.70	
Bromide	шdd			Bromide	in meq/L	0	0	
Fluoride	ppm			Fluoride	in meq/L	0	0	
Nitrate	bpm			Nitrate	in meq/L	0	0	
Chloride	bpm	1160	19.3	Chloride	In meq/L	32.72	0.54	
Sulfate	bpm	24.9	24.9	Sullate	in meq/L	0.52	0.52	
Alkalinity	ppm	590	246	Alkalinity	in meq/L	11.80	4.92	
Potassium	ррт	15.1	4.34	Polassium	in meq/L	0.39	0.11	
Sodium	bpm	842	12.8	Sodium	in meq/L	36.63	0.56	
Magnesium	nuq	13.8	9.91	Magnesium	in meq/L	1.14	0.82	
Calcium	ppm	49.8	64.5	Calcium	in meq/L	2.49	3.22	
Sample #		98079	98080	Sample #		98079	98080	

Cation-Anion Balance Sheet

8/24/2006

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98080

Work Order: 6080431
Vacuum G-35 SWD

Page Number: 13 of 13 Lea County,NM

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Brand Party

Analytical Report

Prepared for:

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

Project: Vacuum G-35/ F-35 Site Project Number: None Given Location: T17S- R35E- Sec 35 F/G, Lea County, NM

Lab Order Number: 6J27015

Report Date: 11/10/06

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Project: Vacuum G-35/ F-35 Site 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
F-35 SWD Monitor Well #1	6J27015-01	Water	10/24/06 14:40	10-27-2006 14:45
F-35 SWD Monitor Well #2	6J27015-02	Water	10/24/06 15:45	10-27-2006 14:45
G-35 SWD Monitor Well #1	6J27015-03	Water	10/25/06 16:10	10-27-2006 14:45
G-35 SWD Monitor Well #2	6J27015-04	Water	10/25/06 09:45	10-27-2006 14:45

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		P Project Ni Project Ma	roject: Va imber: No inager: Kr	cuum G-35/ one Given istin Farris-I	F-35 Site Pope			Fax: (505) 3	397-1471
	1774 - 2017	Or	ganics b	oy GC					
		Environn	nental l	.ab of Te	xas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
F-35 SWD Monitor Well #1 (6J27015-01) Water								
Benzene	0.462	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.489	0.00100		"	н	"	n	n	
Ethylbenzene	0.230	0.00100	n	*		n	n		
Xylene (p/m)	0.305	0.00100		и	"	"			
Xylene (o)	0.135	0.00100		н			11	"	
Surrogate: a,a,a-Trifluorotoluene		138 %	80-	120	"	"	"	11	S-0
Surrogate: 4-Bromofluorobenzene		108 %	80-	120	"	"	**	"	
F-35 SWD Monitor Well #2 (6J27015-02) Water								
Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	ND	0.00100					n	H	
Ethylbenzene	ND	0.00100	'n	"	"	"	14	"	
Xylene (p/m)	ND	0.00100			в	"	"		
Xylene (o)	ND	0.00100	н		14	"	"		
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-	120	"	"	"	"	

	G-35 SWD	Monitor	Well #1	(6J27015-03)) Water
--	----------	---------	---------	--------------	---------

Surrogate: 4-Bromofluorobenzene

And rates

Tran are a

Benzene	0.394	0.00500	mg/L	5	EJ63104	10/31/06	10/31/06	EPA 8021B
Toluene	0.0204	0.00500	"	"	٣	"	0	n
Ethylbenzene	0.0774	0.00500	"		"	"	"	"
Xylene (p/m)	0.0177	0.00500			"	и	"	n
Xylene (o)	0.0261	0.00500	11	н	"	"		н
Surrogate: a,a,a-Trifluorotoluene		94.5 %	80-120		"	"	"	"
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120		"	"	"	"

80-120

82.5 %

G-35 SWD Monitor Well #2 (6J27015-04) Water

Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	11/01/06	EPA 8021B	
Toluene	0.00308	0.00100			n	•		D.	
Ethylbenzene	ND	0.00100	п	,,	"	11			
Xylene (p/m)	ND	0.00100			в		н		
Xylene (o)	ND	0.00100	н	и		"	н	"	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-120		n	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		п	"	"	"	

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.

Page 2 of 10

ALS COMP.

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J27015-0	01) Water								
Total Alkalinity	432	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1460	25.0	н	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	3190	10.0		1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	45.2	25.0	**	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
F-35 SWD Monitor Well #2 (6J27015-	92) Water								
Total Alkalinity	314	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	89.1	5.00		10	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	598	10.0		1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	67.2	5.00	۳.	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #1 (6J27015-	03) Water								
Total Alkalinity	208	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	13.4	2.50	п	5	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	264	10.0		1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	22.8	2.50		. 5	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #2 (6J27015-	04) Water								
Total Alkalinity	476	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1350	25.0		50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	2800	10.0		1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	39.7	25.0		50	EJ62702	10/27/06	10/27/06	EPA 300.0	

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.

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

A h de		Reporting	11 4						
Analyte	Kesuit	Limit	Units	Dilution	Batch	Prepared	Anaiyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J27	015-01) Water								
Calcium	192	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	49.2	0.360		10		n	"	"	
Potassium	6.45	0.600		11		"	*1	"	
Sodium	816	10.8		250	"		и	11	
F-35 SWD Monitor Well #2 (6J27	015-02) Water								
Calcium	111	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	17.5	0.360		10		*	11	**	
Potassium	2.85	0.600				"	"	*1	
Sodium	32.8	0.430	в	"	н	n	"	н	
G-35 SWD Monitor Well #1 (6J27	7015-03) Water								
Całcium	49.2	018.0	mg/L	10	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	8.36	0.360		"		"	n		
Potassium	1.53	0.600	"	"	*1	P	н		
Sodium	8.18	0.430	"	**	"	*	"	"	
G-35 SWD Monitor Well #2 (6J27	7015-04) Water							-	
Calcium	50.9	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	18.3	0.360		10		•			
Potassium	9.76	0.600		n		•	н	"	
Sodium	908	10.8	0	250			н	U	

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental Lab of Texas

A 1	b I.	Reporting	11-5-	Spike	Source	0/DEC	%REC	חחם	RPD	Note
Алауте	Kesult	Limit	Unițs	Level	Kesult	%REC	Limits		Limit	Notes
Batch EJ63104 - EPA 5030C (GC)										
Blank (EJ63104-BLK1)				Prepared &	Analyzed	: 10/31/06				
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	36.2		ug/l	40.0		90.5	80-120			• •
Surrogate: 4-Bromofluorobenzene	32.9		"	40.0		82.2	80-120			
LCS (EJ63104-BS1)				Prepared &	Analyzed	: 10/31/06				
Benzene	0.0581	0.00100	mg/L	0.0500		116	80-120			
Toluene	0.0561	0.00100	"	0.0500		112	80-120			
Ethylbenzene	0.0545	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.118	0.00100		0.100		118	80-120			
Xylene (o)	0.0512	0.00100	"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0		101	80-120			
Calibration Check (EJ63104-CCV1)				Prepared: 1	0/31/06 A	nalyzed: 11	/01/06			
Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	45,6			50.0		91.2	80-120			
Ethylbenzene	46.4			50.0		92.8	80-120			
Xylene (p/m)	88.7		н	100		88.7	80-120			
Xylene (o)	40.4			50.0		80,8	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.6		"	40.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			
Matrix Spike (EJ63104-MS1)	Sou	ırce: 6J23009-	02	Prepared 1	0/31/06 A	nalyzed: 11	/01/06			
Benzene	0.0575	0.00100	mg/L	0.0500	ND	115	80-120			
Toluene	0.0530	0.00100		0.0500	ND	106	80-120			
Ethylbenzene	0.0524	0.00100	"	0.0500	ND	105	80-120			
Xylene (p/m)	0.107	0.00100	н	0.100	ND	107	80-120			
Xylene (0)	0.0456	0.00100	"	0.0500	ND	91.2	80-120			
Surrogate: a,a,u-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.0		"	40.0		108	80-120			

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.

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

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 EJ63104 - EPA 5030C (GC)

Matrix Spike Dup (EJ63104-MSD1)	Sou	rce: 6J23009-(02	Prepared: 1	0/31/06 A	nalyzed: 1	1/01/06		
Benzene	0.0564	0.00100	mg/L	0.0500	ND	113	80-120	1.75	20
Toluene	0.0524	0.00100		0.0500	ND	105	80-120	0.948	20
Ethylbenzene	0.0532	0.00100		0.0500	ND	106	80-120	0.948	20
Xylene (p/m)	0.105	0.00100	n	0.100	ND	105	80-120	1.89	20
Xylene (o)	0.0442	0.00100		0.0500	ND	88.4	80-120	3.12	20
Surrogate: a,a,a-Trifluorotoluene	35.8		ug/l	40.0		89.5	80-120		
Surrogate: 4-Bromofluorohenzene	37.7		"	40.0		94.2	80-120		

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.

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	KPD Limit	Notes
Putah E 162702 Concerni Deconoration (W-40)										
Battin EJ02/02 - General Preparation (Werth	iem)			,		· · · · · ·				
Blank (EJ62702-BLK1)				Prepared &	Analyzed:	10/27/06	_			
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	n							
LCS (EJ62702-BS1)				Prepared &	Analyzed:	10/27/06				
Sulfate	10.8	0.500	mg/L	10.0		108	80-120			
Chloride	10.8	0.500		10.0		108	80-120			
Calibration Check (EJ62702-CCV1)				Prepared &	Analyzed:	10/27/06				
Sulfate	10.8		mg/L	10.0		108	80-120			
Chloride	11.2		0	10.0		112	80-120			
Duplicate (EJ62702-DUPI)	Sou	rce: 6J26011-()2	Prepared & Analyzed: 10/27/06						
Sulfate	129	12.5	mg/L		129			0.00	20	
Chloride	643	12.5	"		645			0.311	20	
Duplicate (EJ62702-DUP2)	Sou	rce: 6J27017-0	05	Prepared &	Analyzed:	10/27/06				
Sulfate	223	25.0	mg/L		226			1.34	20	
Chloride	1310	25.0	"		1330			1.52	20	
Matrix Spike (EJ62702-MS1)	Sou	rce: 6J26011-(02	Prepared &	Analyzed:	10/27/06				
Sulfate	369	12.5	mg/L	250	129	96.0	80-120			
Chloride	934	12.5	"	250	645	116	80-120			
Matrix Spike (EJ62702-MS2)	Sou	rce: 6J27017-0	95	Prepared &	: Analyzed:	10/27/06				
Sulfate	716	25.0	mg/L	500	226	98.0	80-120			
Chloride	1930	. 25.0	н	500	1330	120	80-120			•

Environmental Lab of Texas

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

1	1	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ63006 - Filtration Preparat	tion						-,»			
Blank (EJ63006-BLK1)				Prepared:	10/30/06 A	nalyzed: 10)/31/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EJ63006-DUP1)	Sour	rce: 6J27015-	01	Prepared:	10/30/06 A	nalyzed: 10)/31/06			
Total Dissolved Solids	2860	10.0	mg/L		3190			10.9	5	R
Duplicate (EJ63006-DUP2)	Sour	rce: 6J27017-	03	Prepared: 1	10/30/06 A	nalyzed: 10)/31/06			
Total Dissolved Solids	1590	10.0	mg/L		1910			18.3	5	R
Batch EJ63107 - General Preparatio	on (WetChem)									
Blank (EJ63107-BLK1)				Prepared &	2 Analyzed:	: 10/31/06				
Total Alkalinity	ND	2.00	mg/L							
LCS (EJ63107-BS1)				Prepared &	Analyzed:	: 10/31/06				
Total Alkalinity	196	2.00	mg/L	200		98.0	85-115			
Duplicate (EJ63107-DUP1)	Sour	Source: 6J27015-01				10/31/06				
Total Alkalinity	424	2.00	mg/L		432			1.87	20	
Reference (EJ63107-SRM1)				Prepared &	Analyzed:	10/31/06				
Total Alkalinity	254		mg/L	250		102	90-110			

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

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 EK60223 - 6010B/No Digestion			ς							
Błank (EK60223-BLK1)				Prepared &	Analyzed:	11/02/06				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	н							
Calibration Check (EK60223-CCV1)				Prepared &	Analyzed:	11/02/06				
Calcium	2.22		mg/L	2.00		111	85-115			
Magnesium	2.07		11	2.00		104	85-115			
Potassium	1.80		n	2.00		90.0	85-115			
Sodium	1.98		"	2.00		99.0	85-115			
Duplicate (EK60223-DUP1)	Sou	rce: 6J27015-	01	Prepared &	Analyzed:	11/02/06				
Calcium	186	4.05	mg/L		192			3,17	20	
Magnesium	49.6	0.360	"		49.2		~	0.810	20	
Potassium	6.20	0.600	"		6.45			3.95	20	
Sodium	801	10.8			816			1.86	20	

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Rice Ope 122 W. T Hobbs N	perating Co. . Taylor NM, 88240	Project: Project Number: Project Manager:	Fax: (505) 397-1471	
		Notes and De	finitions	
S-04	The surrogate recovery for this sample is outs	ide of established control	limits due to a sample matrix effect.	
R2	The RPD exceeded the acceptance limit.			
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting	g 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:

Raland Kestuch 11/10/2006 Date:

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.

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Page 10 of 10

12600 West I-20 East - Odessa; Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

ANAL YSIS REQUEST	acuum F-35 SWD and G-35 SWD		7S-R35E-Sec 35 F/G, Lea County NM				TGLP: Analyza For:	3) 4	Aniones (CL, SCA, CO3, HCO SAR / ESP / CEC Metalic As Ag 6a Cd Cr Ph Hg 5 Votalites BTEX 80218/5030 RCI NO.R.M. Fotal Dissofived Schids Fotal Dissofived Schids	X X X	X X X	x x x	× × ×				Sample Containers Intact? O N Labeis on container? O N Custody Seals: <u>Contains</u> Coole. Temperature Upon Receipt:	Laboratory Comments:	
STODY RECORD AND	t Name:	t Number:	t Loc:	mbar.				Matrix (a)	Computer (1.5 Mar Mar M.) 1154F 4154 201209 (1662 (100 Ompter (25660/4)) 2009 2009 2009 800 800 800 800 800 800 800 800 800		×						d.com	Date Time	Date Time
CHAIN OF CU	Project	Project	Project	INN Od) 397-1471			Preservative	Maner (Specify) Maner (1) 1 Liber H13PE M2CO4 H2CO4 H2CO4 H2CO4 H2CO5 H2	X 2 1	X 2 1 1	X 2 1	2				mfranks@ricesw		<u>u</u>
	m.				Fax No: (505	1 - 2.	X		Time Sampled No. of Containers	14:40 3)	15:45 3 >	16:10 3 >	9:45 3 3				e@riceswd.com;		1, 100 V
<i>(</i> 0)	pe@riceswd.co					31-9310		J	Date Sampled	10/24/2006	10/24/2006	10/25/2006	10/25/2006			-	LTS TO: kpop et.com	Received by:	Received by ELC
10 Of Texas Phone: 432-663-1800 Fex: 432-663-1713	arris Pope kpo	serating Company	Taylor Street	Vew Mexico 88240	3-9174	e Johnson (505) 6:	@valornet.com	~	E CODE	sr Well #1	or Well #2	or Well #1	or Well #2		ي الإيرانية عن المراجع عن المراجع العربية المراجع عن المراجع المراجع المراجع المراجع المراجع عن المراجع المراجع		ASE Email RESU cozanne@valorn	Date Time 10-27-06	Data
imental La	t Manageri <u>Kristin Fi</u>	sany Name RICE Op	y Address: <u>122 W. T</u>	//State/Zlp: <u>Hobbs, N</u>	phone No: (505) 39;	Bignature: Rozanne	Emall: TOZGNN9(T	F-35 SWD Monito	E-35 SWD Monito	G-35 SWD Monito	G-35 SWD Monite				BLE ist		
EMVITON 12600 West I-20 E Odesea, Texas 79	Project	Comp	Сотралу	CIFY	Tele	Bamplert			MUN MAR# (Ide tas only)	ションション	No. Zor	(C)	AU				Special Instruction	Reinquered by:	Reingulshed by:

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

86	Client:	KICE Dp.
A CHANNEL	Date/ Time:	1027/04 2:45
	Lab ID # :	6321015
1 4 . 6 J	Initials:	CK

35 05 20

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Sample Receipt Checklist

				Cli	ent Initials
#1	Temperature of container/ cooler?	Yes	No	15 °C	
#2	Shipping container in good condition?	(95)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yeş	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	fes	No	Not Present	
#5	Chain of Custody present?	¥es	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	YES	No		
#8	Chain of Custody agrees with sample label(s)?	Veş	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Øes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Øes	No	ν.	
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Tes	No	See Below	
#13	Samples properly preserved?	¥ęs	No	See Below	
#14	Sample bottles intact?	Tes	No		
#15	Preservations documented on Chain of Custody?	YEs	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Res	No	See Below	
#19	VOC samples have zero headspace?	Tes	No	Not Applicable	

Variance Documentation

Conta	et:	Contacted by:		Date/ Time:	
Regar	ding:			 	
Соггес	tive Action Taken:		<u> </u>	 	
			· · · · · · · · · · · · · · · · · · ·	 	

Check all that Apply:

 See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



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Analytical Report

<u>Prepared for:</u> Kristin Farris-Pope Rice Operating Co.

122 W. Taylor Hobbs, NM 88240

Project: Vacuum G-35/ F-35 Site Project Number: None Given Location: T17S- R35E- Sec 35 F/G, Lea County, NM

Lab Order Number: 6J27015

Report Date: 12/01/06
Project: Vacuum G-35/ F-35 Site 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
F-35 SWD Monitor Well #1	6J27015-01	Water	10/24/06 14:40	10-27-2006 14:45
F-35 SWD Monitor Well #2	6J27015-02	Water	10/24/06 15:45	10-27-2006 14:45
G-35 SWD Monitor Well #1	6J27015-03	Water	10/25/06 16:10	10-27-2006 14:45
G-35 SWD Monitor Well #2	6J27015-04	Water	10/25/06 09:45	10-27-2006 14:45

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Rice Operating Co.	Project: Vacuum G-35/ F-35 Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	•

Organics by GC

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J27015-0	1) Water								
Benzene	0.462	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.489	0.00100	"	11	u	"	"	n	
Ethylbenzene	0.230	0.00100	"	"	11	"	"	11	
Xylene (p/m)	0.305	0.00100	"			"	"	и	
Xylene (o)	0.135	0.00100	"	11	"	n		H	
Surrogate: a,a,a-Trifluorotoluene		138 %	80-1	120	"	"	"	11	S-04
Surrogate: 4-Bromofluorobenzene		108 %	80-1	120	"	"	"	"	
F-35 SWD Monitor Well #2 (6 127015 A	7) Water	×							
		0.00100						ED 4 00010	
Denzene	ND	0.00100	mg/L	1	EJ03104	10/31/06	10/31/06	EFA 8021B	
Toruene	ND	0.00100	н						
	ND	0.00100							
Xylene (p/m)	ND	0.00100							
xylene (0)	ND	0.00100							
Surrogate: a,a,a-Trifluorotoluene		87.0%	80-1	120	0	"	n	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-1	120	"	"	"	"	
G-35 SW'D Monitor Well #1 (6J27015-0	3) Water								
Benzene	0.394	0.00500	mg/L	5	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.0204	0.00500					н	"	
Ethylbenzene	0.0774	0.00500		n		n	11	"	
Xylene (p/m)	0.0177	0.00500				n	н	"	
Xylene (o)	0.0261	0.00500		"		n	11	"	
Surrogate: a,a,a-Trifluorotoluene	·	94.5 %	80-1	120	77	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-1	120	"	"	"	"	
G-35 SWD Monitor Well #2 (6J27015-0	4) Water								
Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	11/01/06	EPA 8021B	
Foluene	0.00308	0.00100		"				"	
Ethylbenzene	ND	0.00100	н	. "	P	11	u	19	
Xylene (p/m)	ND	0.00100	н	"		н	"		
Xylene (o)	ND	0.00100	**		"	м		**	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-1	120	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-1	20	"	"	"	"	

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J270)	15-01) Water					<u></u>			
Total Alkalinity	432	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1460	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	3190	10.0	u	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	45.2	25.0	n	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
F-35 SWD Monitor Well #2 (6J270)	15-02) Water								ć
Total Alkalinity -	314	2.00	mg/L	I	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	89.1	5.00	••	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	598	10.0	•	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	67.2	5.00	•	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #1 (6J270	15-03) Water					~ .			
Total Alkalinity	476	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1350	25.0		50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	2800	10.0		ł	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	39.7	25.0	v	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #2 (6J270	15-04) Water		-						
Total Alkalinity	208	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	13.4	2.50	*	5	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	264	10.0	*	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	22.8	2.50	"	5	EJ62702	10/27/06	10/27/06	EPA 300.0	

Environmental Lab of Texas

Rice Operating Co.		P	roject: V	acuum G-35/	F-35 Site			Fax: (505) 3	97-1471
122 W. Taylor		Project Ni	imber: N	one Given					
Hobbs NM, 88240		Project Ma	nager: Ki	ristin Farris-l					
ann an	Tot	al Metals by	EPA /	Standard	l Methoo	ls			
		Environn	nental l	Lab of Te	exas				
	· · ·	Reporting		,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J2)	7015-01) Water								· · · ·
Calcium	192	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	49.2	0.360	и	10	U	"	10	н	
Potassium	6.45	0.600	"	•		"		n	
Sodium	816	10.8	"	250	и	*	υ	11	
F-35 SWD Monitor Well #2 (6J2)	7015-02) Water								
Calcium	111	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	17.5	0.360		10		н "	'n	D	
Potassium	2.85	0.600		. "		n	n		
Sodium	32.8	0.430	"		"	"	D	u	
G-35 SWD Monitor Well #1 (6J2	7015-03) Water								
Calcium	50.9	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	18.3	0 360	•	10			N	0	

0.600

10.8

0.810

0.360

0.600

0.430

mg/L

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Potassium

G-35 SWD Monitor Well #2 (6J27015-04) Water

Sodium

Calcium

Magnesium

Potassium

Sodium

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Pr Project Nu Project Mar	oject: Va mber: No nager: Kr	acuum G-35/ one Given ristin Farris-P	F-35 Site ope				Fax: (505)	397-1471
	O	rganics by Environm	GC - (iental I	Quality Co Lab of Tex	ontrol xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ63104 - EPA 5030C (GC)										
Blank (EJ63104-BLK1)				Prepared &	Analyzed:	10/31/06				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	μ							
Xylene (p/m)	ND	0.00100								
Xylene (0)	ND	0.00100	н							
Surrogate: a,a,a-Trifluorotoluene	36.2		ug/l	40.0		90.5	80-120			

LCS (EJ63104-BS1)				Prepared & Anal	yzed: 10/31/06	
Benzene	0.0581	0.00100	mg/L	0.0500	116	80-120
Toluene	0.0561	0.00100		0.0500	112	80-120
Ethylbenzene	0.0545	0.00100	"	0.0500	109	80-120
Xylene (p/m)	0.118	0.00100		0.100	118	80-120
Xylene (0)	0.0512	0.00100		0.0500	102	80-120
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0	99.5	80-120
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0	101	80-120

40.0

82.2

80-120

32.9

Calibration Check (EJ63104-CCV1)				Prepared: 1	0/31/06	Analyzed: 1	1/01/06
Benzene	51.6		ug/l	50.0		103	80-120
Toluene	45.6		•	50.0		91.2	80-120
Ethylbenzene	46.4			50,0		92.8	80-120
Xyiene (p/m)	88.7		•	100		88.7	80-120
Xylene (o)	40.4		•	50.0		80.8	80-120
Surrogate: a,a,a-Trifluorotoluene	34.6		"	40.0		86.5	80-120
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120
Matrix Spike (EJ63104-MS1)	Sou	rce: 6J23009-	02	Prepared: 1	0/31/06	Analyzed: 1	1/01/06
Benzene	0.0575	0.00100	mg/L	0.0500	NÐ	115	80-120
Toluene	0.0530	0.00100	P	0.0500	ND	106	80-120
Ethylbenzene	0.0524	0.00100	٣	0.0500	ND	105	80-120

Xylene (p/m)	0,107	0.00100	"	0.100	ND	107	80-120	
Xylene (o)	0.0456	0.00100	"	0.0500	ND	91.2	80-120	
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120	
Surrogate: 4-Bromofluorobenzene	43.0		"	40.0		108	80-120	

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Surrogate: 4-Bromofluorobenzene

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Project: Vacuum G-35/ F-35 Site 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 EJ63104 - EPA 5030C (GC)

Matrix Spike Dup (EJ63104-MSD1)	Sou	Prepared: 1							
Benzene	0.0564	0.00100	mg/L	0.0500	ND	113	80-120	1.75	20
Toluene	0.0524	0.00100		0.0500	ND	105	80-120	0.948	20
Ethylbenzene	0.0532	0.00100	"	0.0500	ND	106	80-120	0.948	20
Xylene (p/m)	0.105	0.00100	n	0.100	ND	105	80-120	1.89	20
Xylene (o)	0.0442	0.00100	н	0.0500	ND	88.4	80-120	3.12	20
Surrogate: a,a,a-Trifluorotoluene	35.8		ug/l	40.0		89.5	80-120		
Surrogate: 4-Bromofluorohenzene	37.7		"	40.0		94.2	80-120		

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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 EJ62702 - General Preparation (V	VetChem)							<u></u>		
Blank (EJ62702-BLK1)				Prepared &	Analyzed:	10/27/06				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0,500	"							
LCS (EJ62702-BS1)				Prepared &	Analyzed:	10/27/06				
Sulfate	10.8	0.500	mg/L	10.0		108	80-120			
Chloride	10.8	0.500	и	10.0		108	80-120			
Calibration Check (EJ62702-CCV1)				Prepared &	Analyzed:	10/27/06				
Sulfate	10.8		mg/L	10.0		108	80-120			
Chloride	11.2		н	10.0		112	80-120			
Duplicate (EJ62702-DUP1)	Sou	rce: 6J26011-	02	Prepared &	Analyzed:	10/27/06				
Sulfate	129	12.5	mg/L		129		•	0.00	20	
Chloride	643	12.5	"		645			0.311	20	
Duplicate (EJ62702-DUP2)	Sou	rce: 6J27017-	05	Prepared &	Analyzed:	10/27/06				
Sulfate	223	25.0	mg/L		226			1.34	20	
Chloride	1310	25.0			1330			1.52	20	
Matrix Spike (EJ62702-MS1)	Sou	rce: 6J26011-(02	Prepared &	Analyzed:	10/27/06				
Sulfate	369	12.5	mg/L	250	129	96.0	80-120			•
Chloride	934	12.5	14	250	645	116	80-120			
Matrix Spike (EJ62702-MS2)	Sou	rce: 6J27017-(05	Prepared &	Analyzed:	10/27/06				
Sulfate	716	25.0	mg/L	500	226	98.0	80-120			
Chloride	1930	25.0	"	500	1330	120	80-120			

Environmental Lab of Texas

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

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 EJ63006 - Filtration Preparation	0 n							<u></u>		. <u></u>
Blank (EJ63006-BLK1)				Prepared:	10/30/06 A	nalyzed: 10)/31/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EJ63006-DUP1)	Sou	rce: 6J27015-	D1	Prepared:	10/30/06 A	nalyzed: 10)/31/06			
Total Dissolved Solids	2860	10.0	mg/L		3190			10.9	5	R
Duplicate (EJ63006-DUP2)	Sou	rce: 6J27017-(03	Prepared:	10/30/06 A	nalyzed: 10)/31/06			
Total Dissolved Solids	1590	10.0	mg/L		1910			18.3	5	R
Batch EJ63107 - General Preparation	ı (WetChem)									
Blank (EJ63107-BLK1)				Prepared &	Analyzed:	10/31/06				
Total Alkalinity	ND	2.00	mg/L							
LCS (EJ63107-BS1)				Prepared &	z Analyzed:	10/31/06				
Total Alkalinity	196	2.00	mg/L	200		98.0	85-115			
Duplicate (EJ63107-DUP1)	Sou	rce: 6J27015-0	01	Prepared &	Analyzed:	10/31/06				
Total Alkalinity	424	2.00	mg/L		432			1.87	20	
Reference (EJ63107-SRM1)				Prepared &	z Analyzed:	10/31/06				
Total Alkalinity	254		mg/L	250		102	90-110			

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Project: Vacuum G-35/ F-35 Site Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK60223 - 6010B/No Digestion									· ·	
Blank (EK60223-BLK1)		,		Prepared &	Analyzed:	11/02/06				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	. "	•						
Calibration Check (EK60223-CCV1)				Prepared &	Analyzed:	11/02/06				
Calcium	2.22		mg/L	2.00		111	85-115			
Magnesium	2.07		"	2.00		104	85-115			
Potassium	1.80		*1	2.00		90.0	85-115			
Sodium	1.98		"	2.00		99.0	85-115			
Duplicate (EK60223-DUP1)	Sou	rce: 6J27015-(01	Prepared &	Analyzed:	11/02/06				
Calcium	186	4.05	mg/L		192			3.17	20	
Magnesium	49.6	0.360	ч		49.2			0.810	20	
otassium	6.20	0.600	51		6.45			3.95	20	
Sodium	801	10.8	"		816			1.86	20	

Rice Oper 122 W. T Hobbs NM	Dperating Co.Project:Vacuum G-35/ F-35 SiteV. TaylorProject Number:None Givens NM, 88240Project Manager:Kristin Farris-Pope	Fax: (505) 397-1471
	Notes and Definitions	
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.	
R2	The RPD exceeded the acceptance limit.	
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:

Raland K Junits Date:

e: 12/1/2006

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.

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, Variance/ Corrective Action Report- Sample Log-In

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ite/ Time:	1/21/04 2:45	
biD#:	(32/10/15	
tials:	Cék	

Sample Receipt Checklist

ß					ment initials
1	Temperature of container/ cooler?	Yes	No	1.5 °C	
n 2	Shipping container in good condition?	Yes	No		
3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4	Custody Seals intact on sample bottles/ container?	tes	No	Not Present	
5	Chain of Custody present?	Yes	No		
6	Sample instructions complete of Chain of Custody?	Yes	No		
7	Chain of Custody signed when relinquished/ received?	Yes	No		
8	Chain of Custody agrees with sample label(s)?	Ves	No	ID written on Cont./ Lid	
:9	Container label(s) legible and intact?	Øres s	No	Not Applicable	
:10	Sample matrix/ properties agree with Chain of Custody?	Æes	No		
-11	Containers supplied by ELOT?	Yes	No		
:12	Samples in proper container/ bottle?	Afes	No	See Below	
:13	Samples properly preserved?	¥es	No	See Below	
±14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
¥16	Containers documented on Chain of Custody?	Yes	No		
<u>#17</u>	Sufficient sample amount for indicated test(s)?	Ves	No	See Below	
#18	All samples received within sufficient hold time?	Res	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	1

Variance Documentation

1	Contact:	Contacted by:	Date/ Time:
Service and the service of the servi	Regarding:		· · · · · · · · · · · · · · · · · · ·
	Corrective Action Taken:		

Check all that Apply:

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See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



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Analytical Report

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

Project: Vacuum G-35 SWD Project Number: None Given Location: T22S-R37E Sec15 E- Lea Co, NM

Lab Order Number: 6K20007

Report Date: 11/21/06

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Project: Vacuum G-35 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 #2	6K20007-01	Water	11/17/06 07:45	11-17-2006 17:50

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Project: Vacuum G-35 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	Notes
Monitor Well #2 (6K20007-01) Water	···								
Benzene	ND	0.00100	mg/L	1	EK61905	11/20/06	11/20/06	EPA 8021B	
Toluene	ND	0.00100		н	н	н		Ð	
Ethylbenzene	ND	0.00100	9			н	*1	n	
Xylene (p/m)	ND	0.00100			н		н		
Xylene (o)	ND	0.00100	a	н	в	11	н	ю	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-12	0	"	"	"	**	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-12	0	"	"	"	"	

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Project: Vacuum G-35 SWD 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
	Kesut				Result	/01/02	Lunts			
Batch EK61905 - EPA 5030C (GC)			· · · -							
Blank (EK61905-BLK1)				Prepared: 1	1/19/06 Ar	nalyzed: 11	/20/06			
Benzene	ND	0.0250	mg/L							
Toluene	ND	0.0250	н							
Ethylbenzene	ND	0.0250	D.							
Xylene (p/m)	ND	0.0250								
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	32.3		"	40.0		80.8	80-120			
LCS (EK61905-BS1)				Prepared: 1	1/19/06 Ar	nalyzed: 11	/20/06			
Benzene	0.0577	0.0250	mg/L	0.0500		115	80-120			
Toluene	0.0527	0.0250		0.0500		105	80-120			
Ethylbenzene	0.0540	0.0250		0.0500		108	80-120			
Xylene (p/m)	0.0933	0.0250		0.100		93.3	80-120			
Xylene (0)	0.0481	0.0250		0.0500		96.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.6		ug/l	40.0		119	80-120			
Surrogate: 4-Bromofluorobenzene	46.3		"	40.0		116	80-120			
Calibration Check (EK61905-CCV1)				Prepared: 1	1/19/06 Ai	nalyzed: 11	/20/06			
Benzene	55.0		ug/l	50,0		110	80-120			
Toluene	47.2		"	50.0		94.4	80-120			
Ethylbenzene	40.3			50.0		80.6	80-120			
Xylene (p/m)	80.7		**	100		80.7	80-120			
Xylene (o)	41.6		"	50.0		83.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.3		"	40.0		95.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.6		"	40.0		84.0	80-120			
Matrix Spike (EK61905-MS1)	Sou	irce: 6K16005-	-05	Prepared: 1	1/19/06 Ai	nałyzed: 11	/21/06			
Benzene	0,0516	0,00100	mg/L	0.0500	-	103	80-120			
Toluene	0.0462	0.00100		0.0500		92.4	80-120			
Ethylbenzene	0.0477	0.00100		0.0500		95.4	80-120			
Xylene (p/m)	0.0821	0.00100		0.100		82.1	80-120			
Xylene (0)	0.0408	0.00100	"	0.0500		81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.4		ug/l	40.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	45.6		"	40.0		114	80-120			

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Project:Vacuum G-35 SWDProject Number:None GivenProject 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 EK61905 - EPA 5030C (GC)

Matrix Spike Dup (EK61905-MSD1)	Sou	rce: 6K16005-	05	Prepared: 11/19	/19/06 Analyzed: 11/20/06				
Benzene	0.0506	0.00100	mg/L	0.0500	101	80-120	1.96	20	
Toluene	0.0456	0.00100	11	0.0500	91.2	80-120	1.31	20	
Ethylbenzene	0.0471	0.00100		0.0500	94.2	80-120	1.27	20	
Xylene (p/m)	0.0801	0.00100	н	0.100	80.1	80-120	2.47	20	
Xylene (o)	0.0407	0.00100	"	0.0500	81.4	80-120.	0.245	20	
Surrogate: a,a,a-Trifluorotoluene	47.1		ug/l	40.0	118	80-120			
Surrogate: 4-Bromofluorobenzene	44.4		"	40.0	111	80-120			

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Rice Operat 122 W. Tay Hobbs NM,	ing Co. Ior 88240	Project: Project Number: Project Manager:	Vacuum G-35 SWD None Given Kristin Farris-Pope	Fax: (505) 397-1471
		Notes and De	finitions	
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:

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Raland K Junes

11/21/2006

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.

Date:

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	line Dp.
Date/ Time:	11/17/060 117:50
Lab ID # :	\underline{iki}
Initials:	<u> </u>

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Sample Receipt Checklist

	•				Client Initial
#	1	Temperature of container/ cooler?	Yes	No	4.0 °C
# # # # # # #	2	Shipping container in good condition?	Yes	No	
#	:3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#	4	Custody Seals intact on sample bottles/ container?	Yes,	No	Not Present
#	5	Chain of Custody present?	Yes	No	
#	6	Sample instructions complete of Chain of Custody?	YES	No	
#	:7	Chain of Custody signed when relinquished/ received?	Yes	No	
#	8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#	9	Container label(s) legible and intact?	Yes	No	Not Applicable
#	10	Sample matrix/ properties agree with Chain of Custody?	Xes	No	
#	11	Containers supplied by ELOT?	Yes	No	
#	12	Samples in proper container/ bottle?	Yes	No	See Below
#	13	Samples properly preserved?	Yes	No	See Below
#	14	Sample bottles intact?	Yes	No	
1 #	15	Preservations documented on Chain of Custody?	Yes	No	
#	16	Containers documented on Chain of Custody?	Yes	No	
#	£17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#	£18	Ali samples received within sufficient hold time?	Yes	No	See Below
#	¢19	Subcontract of sample(s)?	Yes	No	Not Applicable
D #	¢20	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

	Contact:	 Contacted by:	Date/ Time:	
La B. Sacher	Regarding:	 		
- S.S. M	Corrective Action Taken:	 		
1 . Jackson .				
12. Em	Check all that Apply:	See attached e-mail/ fax Client understands and would like to pr	oceed with analysis	ngh
15 1		Cooling process had begun shortly alte	a sampang event	



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Analytical Report

Prepared for:

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

Project: Vacuum F-35 SWD & G-35 SWD Project Number: None Given Location: T17S R35E Sec. 35 F&G- Lea County, NM

Lab Order Number: 6L07012

Report Date: 12/20/06

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Project: Vacuum F-35 SWD & G-35 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
F-35 SWD Monitor Well #3	61.07012-01	Water	12/04/06 10:45	12-07-2006 10:50
G-35 SWD Monitor Well #3	6L07012-02	Water	12/04/06 12:20	12-07-2006 10:50

** The presence of toluene in Sample 6L07012-01 was confirmed by GC/MS. The spectrum also showed the presence of methyl ethyl ketone, (MEK). MEK is often found in plastic glues and/or primers used when installing PVC pipe.

	Rice Operating Co.	Project:	Vacuum F-35 SWD & G-35 SWD	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	
	Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	
- 1				

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #3 (6L07012-	01) Water								
Benzene	0.000370	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	0.0150	0.00100			tr.	•		"	
Ethylbenzene	ND	0.00100			μ	"			
Xylene (p/m)	ND	0.00100			п	"			
Xylene (o)	ND	0.00100				*	"		
Surrogate: a,a,a-Trifluorotoluene		128 %	80-	120	n	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		93.2 %	80-	120	"	"	"	n	
G-35 SWD Monitor Well #3 (6L07012-	02) Water								
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100		w			н		
Ethylbenzene	ND	0.00100		**	"	n		"	

Xylene (p/m)	ND	0.00100			"		n		
Xylene (o)	ND	0.00100	"	"	"	"	n	IN .	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-120		"	"	"	n	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120	1	"	"	"	u	

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Project: Vacuum F-35 SWD & G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #3 (6L070	12-01) Water								
Total Alkalinity	184	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	80.1	5.00		10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	450	10.0	*	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	81.5	5.00	n	10	EL60801	12/07/06	12/07/06	EPA 300.0	
G-35 SWD Monitor Well #3 (6L070)12-02) Water								
Total Alkalinity	262	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	370	12.5		25	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	994	10.0		1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	41.9	12.5	••	25	EL60801	12/07/06	12/07/06	EPA 300.0	

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Project: Vacuum F-35 SWD & G-35 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	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #3 ((6L07012-01) Water		<u> </u>	-					<u> </u>
Calcium	66.4	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	<u></u>
Magnesium	12.5	0.360	н	10	"	"	μ		
Potassium	3.24	0.600	e	"	"	•		.,	
Sodium	78.4	2.15	н	50	"	*	11	N	
G-35 SWD Monitor Well #3	(61.07012-02) Water	,							
Calcium	119	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	15.7	0.360	"	10	"	**	"	"	
Potassium	5.33	0.600	"			u	"	R	
Sodium	242	2.15		50			P	89	

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Project: Vacuum F-35 SWD & G-35 SWD 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
Poteb EL 61404 EDA 5030C (CC)								,		
Datch EL01404 - ErA 5050C (GC)	<u></u>					10/14/65				
Blank (EL61404-BLK1)				Prepared &	Analyzed	12/14/06				
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	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	"	0.0500		86.0	80-120			
Ethylbenzene	0.0426	0.00100	n	0.0500		85.2	80-120			
Xylene (p/m)	0.0962	0.00100	۲	0.100		96.2	80-120			
Xylene (0)	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		<i>n</i>	40.0		82.0	80-120			
Calibration Check (EL61404-CCV1)				Prepared: 1	2/14/06 A	Analyzed: 1	2/15/06			
Benzene	54.4		ug/l	50.0		109	80-120			
Toluene	55.1		"	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	rce: 6L05006-	10	Prepared: 1	2/14/06 A	analyzed: 1	2/18/06			
Benzene	0.0402	0.00100	mg/L	0.0500	ND	80.4	80-120			
Toluene	0.0407	0.00100		0.0500	ND	81.4	80-120			
Ethylbenzene	0.0487	0.00100		0.0500	ND	97,4	80-120			
Xylene (p/m)	0.0853	0.00100	н	0,100	ND	85,3	80-120			
Xylene (0)	0.0444	0.00100		0.0500	ND	88.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.6		ug/l	40.0		81.5	80-120			<u></u>
Surrogate: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

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Project: Vacuum F-35 SWD & G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

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	rce: 6L05006-	10	Prepared: 1	2/14/06 A	nalyzed: 1	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		0.0500	ND	89.2	80-120	9.14	20
Ethylbenzene	0.0464	0.00100	n	0.0500	ND	92.8	80-120	4.84	20
Xylene (p/m)	0.102	0.00100	и	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-Bromofluorobenzene	37.7		"	40.0		94.2	80-120		

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source	R/DEO	%REC	0.00	RPD	NL /
Analyte	Kesult	Limit	Units	Level	Result	%REC	Limits	KPD	Limit	Notes
Batch EL60801 - General Preparation (WetChem)					_				
Blank (EL60801-BLK1)				Prepared &	2 Analyzed	12/08/06				
Chloride	ND	0.500	mg/L							
Sulfate	0.623	0.500	"							1
LCS (EL60801-BS1)				Prepared &	2 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 &	2 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 &	2 Analyzed:	12/08/06				
Sulfate	13.4	2.50	mg/L		13.4			0.00	20	
Chloride	129	2.50	"		130			0.772	20	
Matrix Spike (EL60801-MS1)	Sou	rce: 6L07005-	01	Prepared &	k 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 Analyzed: 12/08/06						
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			
Total Dissolved Solids	266	10.0	mg/L		246			7.81	20	

Environmental Lab of Texas

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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 Preparatio	on (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			

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Project: Vacuum F-35 SWD & G-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

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 EL60805 - 6010B/No Digestion

				Deserved: 12/08/06	Analyzade 1	5/11/06			
Blank (EL60805-BLK1)				Prepared: 12/08/06	Analyzed: 1.	2/11/06			
Calcium	ND	0.0810	mg/L						
Magnesium	ND	0.0360	р						
Potassium	ND	0.0600	"						
Sodium	ND	0.0430	"						
Calibration Check (EL60805-CCV1)				Prepared: 12/08/06	Analyzed: 12	2/11/06			
Calcium	2.02		mg/L	2.00	101	85-115			
Magnesium	2.03		"	2.00	102	85-115			
Potassium	1.77			2.00	88.5	85-115			
Sodium	2.00		"	2.00	100	85-115			
Duplicate (EL60805-DUP1)	Sour	ce: 6L07012-	01	Prepared: 12/08/06	Analyzed: 1	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	п	3.24			16.2	20	
Sodium	73.2	2.15		78.4			6.86	20	

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.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co. Project: Vacuum F-35 SWD & G-35 SWD 122 W. Taylor Project Number: None Given Hobbs NM, 88240 Project Manager: Kristin Farris-Pope

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

Analyte DETECTED DET

- 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:

Raland K Junes 12/20/2006 Date:

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.

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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. Page 10 of 10

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

T 563-1800 563-1713	D & G-35 SWD		3 ~ Lea County New Mexico		J TRRP 🗌 NPDES			5J4 2		RCI RCI N.O.R.M. Total Dissolved Solids RUSH TAT (Pre-Scholue) 24.	×							er(s)		
D ANALYSIS REQUES: Phone: 432-5 Fax: 432-6	1e: Vacuum F-35 SWI	¥.	oc: T178-R35E-Sec35 F&C	:#:	X Standard		TCLP.	TOTAL	92 gł	Cations (Ca, Mg, Va, K) Anions (CJ, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb H Volatiles Semivolatiles				-			Laboratory Comments: Sample Containers Intact	Labels on container(s) Custody seals on contain	Sample Hand Delivered by Sample from Rep	
STODY RECORD ANI	Project Nam	Project	Project Lo	PO	Report Format:			Mostrix 1 m	90	ДЬН: 1X 1002 1X 100 ЦЬН: 418 1 801800 СА: сболифазик 22 сощосона С	GW	GW					7 100	Date Time	Date Time	Data I Time
<i>CHAIN OF CU</i> 00 West I-20 East sssa, Texas 79765					397-1471	ne@valornet.com		Distantian Bat Partition	Preservation & # of E-ontainers	HNO ₅ HO2 Na ₂ S ₂ O ₄ H ₂ SO ₄ H ₂ SO ₄ None (1) 1 Liter HDPE	2	2					e@valomet.com			
138 04.28	e			,	Fax No: (505)	e-mail: <u>rozar</u>				Time Sampled Field Filtered Folsi #. of Containers Ice	10:45 3 X	12:20 3 X	 				d.com rozanr			
	pe@riceswd.cor			VV	TAU	V/V	Sal			belgme2 eieG	12/4/2006	12/4/2006		 			mfranks@ricesw	Received by:	Received by:	
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vironmen	Project Manager:	Company Name	Company Address	City/State/Zip:	Telephone No:	Sampler Signature	only)	101 M		· ·	F-35 SWD Monitor	G-35 SWD Monito					Instructions: Please em	A LA	Johnson Johnson	
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Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client:	Rive Op.
Date/ Time:	12/11/Ne 10:50
Lab ID #	10L01012
Initials	<u> </u>

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Sample Receipt Checklist

æ				•	(Client Initials
	#1	Temperature of container/ cooler?	Yes	No	~2.0 °C	
20	#2	Shipping container in good condition?	(FES)	No		
	#3	Custody Seals intact on shipping container/ cooler?	Hes	No	Not Present	
19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#4	Custody Seals intact on sample bottles/ container?	(es	No	Not Present	
-iji-	#5	Chain of Custody present?	Yes	No		
	#6	Sample instructions complete of Chain of Custody?	es	No		
X	#7	Chain of Custody signed when relinquished/ received?	X o s	No		
1	#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	<u></u>
	#9	Container label(s) legible and intact?	(es	No	Not Applicable	
	#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
10. 1	#11	Containers supplied by ELOT?	tes,	No		
	#12	Samples in proper container/ bottle?	Yes	No	See Below	
	#13	Samples properly preserved?	Xes	No	See Below	
	#14	Sample bottles intact?	∦7€ş	No		
đ	#15	Preservations documented on Chain of Custody?	Nes	No		
	#16	Containers documented on Chain of Custody?	Yes	No		
1.5	#17	Sufficient sample amount for indicated test(s)?	Xes	No	See Below	
	418	All samples received within sufficient hold time?	109	No	See Below	
	#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
s	# #20	VOC samples have zero headspace?	Yeş	No	Not Applicable	

Variance Documentation

	Contact.	Contacted by:	Date/ Time:
	Regarding:		- -
1	Corrective Action Taken:		
*****	heck all that Apply:	see attached e-mail/ fax	
		Client understands and would like to proceed with and Cooling process had begun shortly after sampling eve	alysis ant