INVESTIGATION & CHARACTERIZATION PLAN – AMENDMENT

BD A-27 Release Site T22S, R37E, Section 27, Unit Letter A Lea County, New Mexico

Prepared for:

RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240

R. T. HICKS CONSULTANTS, LTD.

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CERTIFIED MAIL RETURN RECIEPT NO. 7099 3400 0017 1737 2121

July 13, 2005

Mr.Paul Sheeley New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

RE: INVESTIGATION & CHARACTERIZATION PLAN - AMENDMENT BD A-27 Release Site T22S-R37E-Section 27, Unit Letter A

Mr. Sheeley:

RICE Operating Company (ROC) has retained R.T. Hicks Consultants, Ltd. (Hicks Consultants) to address potential environmental concerns at the above-referenced site. As explained in more detail below, we plan to conduct the following activities:

ROC is the service provider (operator) for the Blinebry Drinkard (BD) SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental projects of this magnitude require System Partner AFE approval and work begins as funds are received. In general, project funding is not forthcoming until NMOCD approves the work plan. Therefore, your timely review of this submission is requested.

For all environmental projects, ROC will choose a path forward that:

- o protects public health,
- o provides the greatest net environmental benefit,
- o complies with NMOCD Rules, and
- is supported by good science.

Each site shall have three submissions or a combination of:

- 1. This amended <u>Investigation and Characterization Plan</u> (ICP) is a proposal for data gathering and site characterization and assessment.
- 2. Upon evaluating the data and results from this ICP, a recommended remedy will be submitted in a <u>Corrective Action Plan</u> (CAP).
- 3. Finally, after implementing the remedy, a <u>closure report</u> with final documentation will be submitted.

BD A-27 Release Site Page 2

SITE LOCATION AND LAND USE

The A-27 Release site is located at township 22 south, range 37 east, section 27, unit letter A approximately 4 miles south-southeast of Eunice, NM as shown on the attached Site Location Map (Figure 1). The surface landowner is Mr. Irwin Boyd. Land in the site area is primarily utilized for crude oil production and cattle ranching. Area crude oil production is operated by Moriah Resources, Inc., Lewis B. Burleson Inc., Texaco Exploration and Production Inc., Chevron USA Inc., Yarbrough Oil LP, Encore Operating LP, Anadarko Petroleum Corp, Apache Corp., John H. Hendrix Corp., and Arch Petroleum Inc.

On June 10, 2005, depth to groundwater was measured at 49 feet below ground surface. The measurement was obtained from a cathodic protection well located approximately 500 feet northeast of the site.

SITE HISTORY

ROC discovered an accidental discharge at the above-mentioned site that occurred on January 27, 2005. The NMOCD was notified of the release on January 27, 2005. High temperature in the 2-inch PVC line coming from the Santa Rita Battery's heater caused the line to swell and separate from its fittings. The line and fittings were replaced as a permanent repair. The volume of the release was estimated at 800 barrels (bbls). The size of the affected area was approximately 66,400 square feet. By January 28, 2005, ROC recovered 730 bbls for disposal into the BD SWD system. The initial C-141 form was submitted to the OCD Hobbs office on February 7, 2005. ROC submitted an Investigation and Characterization Plan (ICP) on March 28, 2005, which was denied by Mr. Paul Sheeley of the NMOCD office in Hobbs in his letter dated April 13, 2005. The amended ICP herein addresses those concerns expressed by Mr. Sheeley.

SUMMARY OF CHLORIDE CONCENTRATIONS IN SOIL

On January 31, 2005 and February 9, 2005, soil samples were collected using a backhoe in four areas where the major pooling of produced water occurred. The samples were field-tested for chloride content using the titration method in accordance with procedures explained in QP-01. In each area sampled the chloride concentrations decreased with depth to levels below 250 ppm at 10 feet below ground surface, with the exception of sample location C (Figure 2).

On February 17, 18, and 21, 2005, soil samples were collected with a hand auger over the affected area using a 25-foot grid spacing (Figure 3) for a more complete delineation of horizontal extent of chloride impact. The results of the soil sampling are summarized in Table 1 and depicted in Figures 3, 4, 5, and 6. Based on the chloride results versus depth from the preliminary field analysis, the chloride penetration was found to exceed 4 feet below ground surface only in low-lying areas.

At the request of Paul Sheeley (NMOCD Hobbs office), a sample of the produced water representative of the release was taken from the Santa Rita EOL location on May 16, 2005, and submitted to the lab for chloride analysis. The chloride concentration of this sample was 84,800 mg/l

BD A-27 Release Site Page 3

RECOMMENDATION FOR FURTHER ACTIONS

The repair of the line and fittings has minimized the threat of additional impact to the vadose zone, however further investigation and characterization of the site shall be conducted to confirm that the groundwater is not threatened by this release. The additional assessment will also assist ROC in selecting the appropriate environmental remedy, if necessary.

Task 1 Evaluate Concentrations of Constituents of Concern in the Vadose Zone

Additional subsurface soil samples are proposed for further characterization of the vertical extent (beyond 10 feet below ground surface) of chloride-impacted soil in areas where preliminary sampling results indicated the higher chloride concentrations. Soil samples will be and field-tested for chloride content using the titration method as explained in the attached quality procedure QP-02. Some of these samples will be submitted to a laboratory for chloride and moisture content. Samples will also be collected for headspace analysis using an organic vapor meter (OVM), which will be calibrated to assume a benzene response factor using quality procedure QP-07 (attached) Selected samples with headspace readings above 100 ppm will also be analyzed by a laboratory for the regulated constituents benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8260.

The following concentrations of analytes will be used to delineate the extent of impact to the vadose zone in the field:

- o 100 ppm OVM, and
- o 250 ppm chloride

Task 2 Evaluate Chloride Flux from the Vadose Zone to Ground Water

The HYDRUS-1D computer model will be used to evaluate the potential of any residual chloride mass in the vadose zone to materially impair groundwater quality at the site. HYDRUS-1D is used to simulate one-dimensional water flow, heat transport, and the movement of solutes involved in consecutive first-order decay reactions in variably-saturated soils. We will employ predictions of the migration of chloride ion zone to ground water in our selection of an appropriate remedy for the land surface and underlying vadose zone. If a threat to groundwater is confirmed, we will use the HYDRUS-1D model predictions to develop a remedy for the vadose zone. If necessary, we will simulate:

- 1. excavation, disposal and replacement of clean soil to remove the chloride and hydrocarbon mass,
- 2. installation of a low permeability barrier to minimize natural infiltration,
- 3. surface grading and seeding to eliminate any ponding of precipitation and promote evapotranspiration, thereby minimizing natural infiltration, and
- 4. a combination of the above potential remedies.

BD A-27 Release Site Page 4

The information gathered from tasks 1 and 2 will be evaluated and utilized to design a soil and/or ground water remedy if needed. The remedy that offers the greatest environmental benefit while causing the least environmental impairment will be selected. Such recommendations and findings will be presented to NMOCD in a subsequent Corrective Action Plan (CAP). When evaluating any proposed remedy or investigative work, ROC will confirm that there is a reasonable relationship between the benefits created by the proposed remedy or assessment and the economic and social costs.

We appreciate the opportunity to work with you on this project. Please feel free to call me at 432-638-8740 or Kristin Farris Pope at 505-393-9174, if you have any questions.

Sincerely,

Libert J. Van L

Gilbert J. Van Deventer, REM, PG, NMCS R.T. Hicks Consultants, Ltd.

cc: RTH, CDH, KFP, file

enclosures: site location map, photos, and sampling procedures

FIGURES

SITE LOCATION MAP

BD Jct. A-27 leak UL/A Sec. 27 T22S R37E N 32³ 22.19³ W 103³ 08.63³

In Eunice, NM, at the intersection of Hwy 234 and Hwy 18 proceed south 4 miles. Turn right and continue east 0.2 miles to Lewis Burles on Santa Rita Battery. Turn left and proceed 400 ft north to the leak size.





1909 Brunson Ave., Midland, Texas 79701-6924

FIGURE 3

BD JCT. A-27 RELEASE GRID



Number on each grid indicates a sampling point location.

Grids set up on 25-foot spacing







TABLES

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2

1909 Brunson Ave., Midland, Texas 79701

TABLE 1												
BD A-27 RELEASE SITE												
CHLORIDE CONCENTRATIONS												
Sampling Date: February 17, 18, & 21, 2005												
Sample Chloride (ppm)												
Sample												
Point Surface 2-3 ft bgs 3-4 ft bg												
1	458	2144	1002									
2	108	108	91									
3	89	78	74									
4	103	1000	1236									
5	894 1949 1164											
6	109	1215	1889									
7	181	1255	1382									
8	1246	719										
9	84	113	87									
10	174	185										
13	191	172	185									
14	1442	499										
15	1385	372										
16	1036	323										
17	187	326										
18	1063	433	296									
19	1116 432											
20	149	997	126									
23	216	1231										
24	1023	233										

TABLE 1												
DD A-27 RELEASE STIE												
CHLORIDE CONCENTRATIONS												
Sampling Date: February 17, 18, & 21, 2005												
Sample Chloride (ppm)												
Point Surface 2-3 ft bgs 3-4 ft bgs												
25	600	644										
26	1472	706										
27	1727	306										
29	1151	376										
32	451											
34	241	541	~									
35	114	103										
36	739	231	195									
37	415	664										
38	776	178										
40	1091	106										
42	1599	599	681									
43	363	0	1393									
44	783	371	685									
45	497	440	704									
46	428	113										
47	204	487										
48	172	315	440									
50	1025	408										
51	857	602	· ·									

	TAE BD A-27 RE	3LE 1 ELEASE SITH										
CHI	CHI ORIDE CONCENTRATIONS											
Sampling Date: February 17, 18, & 21, 2005												
Chlorida (nom)												
Sample Chloride (ppm)												
Point	Surface	2-3 ft bgs	3-4 ft bgs									
52	597	639										
55	329	525										
57	1017	1512										
58	739	178										
60 93 719 1050												
61	433	831										
63	361	247										
66	1039	320	863									
67	812	475	655									
69	798	551	304									
70	91	87	83									
72	89	89	131									
73	739	277										
74	243	87	80									
77	398	75	294									
79	1122	314	667									
81	844	198	384									
85	135	1157										
88	433	179	179									
92	1065	179										

Chloride analysis performed on site using chloride titration method (QP-03)

Produced water sample taken at Santa Rita EOL indicated a chloride concentration of 84,800 mg/L.

PHOTODOCUMENTATION

6701 Aberdeen Avenue, Suite 9 L 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 F/ 915•585•3443 F/

FAX 806•794•1298 FAX 915•585•4944

Analytical and Quality Control Report

Paul Sheeley OCD-Hobbs 1625 N. French Dr. Hobbs, NM 88240

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Report Date: April 15, 2005

Work Order: 5041202

Project Location: A-27-22-37 Project Name: RICE a-27 Project Number: 05128-050411

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
59682	0501281200	water	2005-01-28	12:00	2005-04-12
59683	0404111030	soil	2005-04-11	10:30	2005-04-12

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 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael a

Dr. Blair Leftwich, Director

Report Date: April 15, 2005 05128-050411

Work Order: 5041202 RICE a-27 Page Number: 2 of 4 A-27-22-37

Analytical Report

Sample: 59682 - 0501281200

Analysis: QC Batch:	Chloride (IC) 17323	Analytical Method: Date Analyzed:	E 300.0 2005-04-12		Prep Method: Analyzed By:	N/A WB
Prep Batch:	15270	RL	2005-04-12		Prepared By:	wв
Parameter	Flag	Result	Units	Dilution		RL
Chloride		25800	mg/L	1000	().500

Sample: 59683 - 0404111030

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method	: N/A
QC Batch:	17324 <i>a</i>	Date Analyzed:	2005-04-12	Analyzed By	: WB
Prep Batch:	15271	Sample Preparation:	2005-04-12	Prepared By	WB
^a Matrix spik	e not being reported. %EA= 108 a	und RPD is 1.			
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		37200	mg/Kg	5000	1.00

Method Blank (1) QC Batch: 17323

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		<0.337	mg/L	0.5

100

Matrix Blank (1) QC Batch: 17324

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		1.93	mg/Kg	1

Laboratory Control Spike (LCS-1) QC Batch: 17323

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	13.2	13.1	mg/L	1	12.5	< 0.337	106	1	90 - 110	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: 17324

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Report Date: A	April 15, 2005			Wo	rk Order: 504 RICE a-27	1202			Page Num A	ber: 3 of -27-22-3
Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPI Lim
Chloride	14.4	< 0.0602	mg/Kg	1	12.5	1.93	100		90 - 110	20
Matrix Spike	(MS-1) QC	Batch: 1732	.3 Spike	ed Sample	: 59679	•				•
	MS	MSD			Spike	Matrix			Rec.	RP
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Lin
Chloride	80.1	79.0	mg/L	5	12.5	11.1	110	1	70.7 - 124	2(
Param Chloride	Flag	Units mg/L	Tru Cor 12.	ie ic. 5	Found Conc. 12.9	Percer Recove	nt ery	Recovery Limits 90 - 110	2	Date Analyze 005-04-
Standard (CC	CV-1) QC E	Batch: 17323	CC.	Vs	CCVs	CCV	s nt	Percent Recovery	,	Date
			Tn	ie	Found	1 01001				2
Param	Flag	Units	Tn Cor	1e 1c.	Found Conc.	Recove	ry	Limits		Analyze
Param Chloride	Flag	Units mg/L	Tn Cor 12	1e nc. 5	Found Conc. 13.0		ery	Limits 90 - 110	2	Analyze
Param Chloride Standard (IC	Flag	Units mg/L atch: 17324	Tn Cor 12.	ie ic. 5	Found Conc. 13.0		ery	Limits 90 - 110	2	Analyze
Param Chloride Standard (IC	Flag (V-1) QC B	Units mg/L atch: 17324	Tn Cor 12 IC Ti	ic. 5 Vs ue	Found Conc. 13.0 ICVs Found	ICV Perce	s nt	Limits 90 - 110 Percent Recover	2 y	Analyze 005-04- Date
Param Chloride Standard (IC Param	Flag V-1) QC B Flag	Units mg/L atch: 17324 Units	Tn Cor 12 IC Ti Cc	ic. 5 Vs ue onc.	Found Conc. 13.0 ICVs Found Conc.	ICV Recove 104 ICV Perce Recov	s s nt ery	Limits 90 - 110 Percent Recover Limits	2 y	Analyze 005-04- Date Analyze
Param Chloride Standard (IC Param Chloride	Flag V-1) QC B Flag	Units mg/L atch: 17324 Units mg/Kg	Tn Cor 12 IC Th Cc 12	Vs vs vc. vc. vc. vc. vc. vc. vc. vc. vc. vc.	Found Conc. 13.0 ICVs Found Conc. 13.1	ICV Recove IO4 ICV Perce Recov	s nt ery	Limits 90 - 110 Percent Recover Limits 90 - 110	2 y) 2	Analyza 005-04 Date Analyza 005-04
Param Chloride Standard (IC Param Chloride Standard (CC	Flag (V-1) QC B Flag (CV-1) QC F	Units mg/L atch: 17324 Units mg/Kg Batch: 17324	Tr Cor 12 IC Tr Cc	Vs ue 2.5	Found Conc. 13.0 ICVs Found Conc. 13.1	ICV Recove IO4 ICV Perce Recov 105	s s nt ery	Limits 90 - 110 Percent Recover Limits 90 - 110	y) 2	Analyze 005-04 Date Analyze
Param Chloride Standard (IC Param Chloride Standard (Co	Flag EV-1) QC B Flag EV-1) QC B	Units mg/L atch: 17324 Units mg/Kg Batch: 17324	Tri Cor 12 IC Tri Cc 12	Vs vvs ue onc. 2.5	Found Conc. 13.0 ICVs Found Conc. 13.1	ICV Recove IO4 ICV Perce Recov 105	s nt ery	Limits 90 - 110 Percent Recover Limits 90 - 110 Percent	y) 2	Date Analyze Date Analyze
Param Chloride Standard (IC Param Chloride Standard (Co	Flag (V-1) QC B Flag (CV-1) QC B	Units mg/L atch: 17324 Units mg/Kg Batch: 17324	Tri Cor 12 IC Tri Cc 12 CC Tri	Vs vs ue nc. 2.5 CVs rue	Found Conc. 13.0 ICVs Found Conc. 13.1 CCVs Found	ICV Recove 104 ICV Perce Recov 105	s nt ery 7s nt	Limits 90 - 110 Percent Recover Limits 90 - 110 Percent Recover	y) 2 y	Date Analyza Date Analyza 005-04
Param Chloride Standard (IC Param Chloride Standard (Co Param	Flag (V-1) QC B Flag (CV-1) QC F Flag	Units mg/L atch: 17324 Units mg/Kg Batch: 17324 Units	Tri Cor 12 IC Tri Cc Tri Cc	Vs vvs ue onc. 2.5	Found Conc. 13.0 ICVs Found Conc. 13.1 CCVs Found Conc.	ICV Recove 104 ICV Perce Recov 105	s nt ery 7s ery	Limits 90 - 110 Percent Recover Limits 90 - 110 Percent Recover Limits	2 y) 2 y	Date Analyza Date Analyza 005-04 Date Analyza

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Report Date: April 15, 2005 05128-050411

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Work Order: 5041202 RICE a-27

Page Number: 4 of 4 A-27-22-37

LABORATORY REPORTS

AND

CHAIN OF CUSTODY DOCUMENTATION

Analytical Report

Prepared for:

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

Project: BD Santa Rita Eol Produce Water Project Number: None Given Location: None Given

Lab Order Number: 5E17003

Report Date: 05/23/05

Rice Operating Co.	Project:	BD Santa Rita Eol Produce Water	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Roy Rascon	05/23/05 11:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Produce Water @ Santa Rita Eol	5E17003-01	Water	05/16/05 14:29	05/17/05 07:35

the operating	Project: BD Santa Rita Eoi Produce water	1.ax. (303) 337-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	05/23/05 11:38

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analy zed	Method	Notes
Produce Water @ Santa Rita Eol (5E17	003-01) Water								
Benzene	0.549	0.0100	mg/L	10	EE51708	05/17/05	05/17/05	EPA 8021B	
Toluene	0.477	0.0100	N	n	n		"	R	
Ethylbenzene	0.0670	0.0100		н	n		"		
Xylene (p/m)	0.231	0.0100		*	n		*	"	
Xylene (o)	0.162	0.0100	n		п			u .	
Surrogate: a,a,a-Trifluorotoluene		214 %	80-12	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		360 %	80-12	20	"	"	"	"	S-04

Environmental Lab of Texas

Rice	e Operating Co.	Project:	BD Santa Rita Eol Produce Water	Fax: (505) 397-1471
122	W. Taylor	Project Number:	None Given	Reported:
Hob	obs NM, 88240	Project Manager:	Roy Rascon	05/23/05 11:38

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Produce Water @ Santa Rita Eol (5E17003-01) Water					·			
Chloride	84800	2500	mg/L	5000	EE52003	05/19/05	05/19/05	EPA 300.0	

Environmental Lab of Texas

122 W. Taylor		Project Nu	mber: No	one Given					Repo	rted:
Hobbs NM, 88240		Project Mar	nager: Ro	y Rascon					05/23/0	5 11:38
	0	rganics by	GC - Q	Quality Co	ontrol					
		Environm	nental I	ab of Te	as					
· · · - ·		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE51708 - EPA 5030C (GC)										
Blank (EE51708-BLK1)				Prepared &	Analyzed	05/17/05				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	88							
Xylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	"							
Surrogate: a, a, a-Trifluorotoluene	18.9		ug/l	20.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	23.0		<i>11</i> ·	20.0		115	80-120			
LCS (EE51708-BS1)				Prepared &	: Analyzed	05/17/05				
Benzene	94.7		ug/l	100		94.7	80-120			
Toluene	108			100		108	80-120			
Ethylbenzene	109			100		109	80-120			
Xylene (p/m)	223			200		112	80-120			
Xylene (0)	110		н	100		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.2		"	20.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	22.3		"	20.0		112	80-120			
Calibration Check (EE51708-CCV1)				Prepared &	: Analyzed	: 05/17/05				
Benzene	97.6		ug/l	100		9 7 .6	80-120			
Toluene	100			100		100	80-120			
Ethylbenzene ,	101		N	100		101	80-120			
Xylene (p/m)	207		н	200		104	80-120			
Xylene (0)	103			100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.9		"	20.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			
Matrix Spike (EE51708-MS1)	Sou	ırce: 5E13028-	-08	Prepared &	: Analyzed	: 05/17/05				
Benzene	400		ug/l	100	293	107	80-120			
Toluene	113		"	100	ND	113	80-120			
Ethylbenzene	113			100	ND	113	80-120			
Xylene (p/m)	228		н	200	ND	114	80-120			
Xylene (o)	110			100	ND	110	80-120			
Surrogate: a, a, a Trifluorotoluene	22.7	· · ·	"	20.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	23.9		"	20.0		120	80-120			

Project: BD Santa Rita Eol Produce Water

Rice Operating Co.

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.

Fax: (505) 397-1471

Rice Operating Co.	Project: BD Santa I	Rita Eol Produce Water	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Give	en	Reported:
Hobbs NM, 88240	Project Manager: Roy Rasco	on	05/23/05 11:38

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51708 - EPA 5030C (GC)				``						

Matrix Spike Dup (EE51708-MSD1)	Source: 51	Source: 5E13028-08			Prepared & Analyzed: 05/17/05				
Benzene	397	ug/l	100	293	104	80-120	2.84	20	
Toluene	109	"	100	ND	109	80-120	3.60	20	
Ethylbenzene	111	н	100	ND	111	80-120	1.79	20	
Xylene (p/m)	221	м	200	ND	110	80-120	3.57	20	
Xylene (o)	108	•	100	ND	108	80-120	1.83	20	
Surrogate: a, a, a-Trifluorotoluene	21.2	"	, 20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	21.4	"	20.0		107	80-120			

Environmental Lab of Texas

Rice Operating Co.	Project:	BD Santa Rita Eol Produce Water	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Roy Rascon	05/23/05 11:38

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 EE52003 - General Preparation	(WetChem)			<u>-</u>	-					
Blank (EE52003-BLK1)				Prepared 8	z Analyzed:	: 05/19/05				
Chloride	ND	0.500	mg/L							
LCS (EE52003-BS1)				Prepared &	Analyzed	: 05/19/05				
Chloride	10.4		mg/L	10.0		104	80-120			
Calibration Check (EE52003-CCV1)				Prepared 8	Analyzed	: 05/19/05				
Chloride	10.4		mg/L	10.0		104	80-120			
Duplicate (EE52003-DUP1)	Sou	rce: 5E19001-	-01	Prepared &	z Analyzed	: 05/19/05				
Chloride	217	5.00	mg/L		223			2.73	20	

Environmental Lab of Texas

Rice Op	erating Co.	Project: BD Santa Rita Eol Produce Water	Fax: (505) 397-1471
122 W. 1	laylor	Project Number: None Given	Reported:
HODDS N	NM, 88240	Project Manager: Koy Rascon	05/23/05 11:38
		Notes and Definitions	
S-04	The surrogate recovery for this sample i	is outside of established control limits due to a sample matrix effect.	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the re	porting limit	
NR	Not Reported		
dry	Sample results reported on a dry weight basi	s	
RPD	Relative Percent Difference		
LCS	Laboratory Control Spike		·
MS	Matrix Spike		

Dup Duplicate

Report Approved By:

Raland K truts Date: 5/23/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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

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

Environmental Lab of Texas

Environmental Lab of Texas, Inc.

300 West I-20 East essa, Texas 79763	Phone: 915-563-1800 Fax: 915-563-1713											СН/	AIN C	of C	usti	ΟDY	REC	COR	D AI	ND .	AN/	ALY	SIS I	REQI	UES	г		
Project Mana	_{ger:} Roy Rascon											•	F	'rojø	ct N	ame	: <u>BI</u>	2 <	Gen	ta	ß	ite	<u></u>	E <u>ol</u>	Ĺ	cod	<u>uc 7</u>	· l
Company Na	ame Rice Operating Company		100000-00-00-00-00-00-00-00-00-00-00-00-									-		f	roje	ict #	:			····-								
Company Addre	ess: 122 W Taylor									Project Loc:																		
City/State/	zip: Hobbs, NM 88240											_			P	°O#	۱ <u></u>											
Telephone Sampler Signati	No: 505-393-9174		Fax No:	50	5-38	97-'	<u>147</u>	'1				•									*	P P	on erc	ot	nur	n B ed e	5TE 2-0	N na
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		Date Sampled	Time Sampled	No. of Containers	Cee	HNO ₃	HCI	Hoan Han	None	Other (Specify)	Water	Skudge	Sol ²	unar (spearity):	TPH 418.1	1PH TX 1005/1006	TPH BIN5M GRONDRO	Metabs: As Ag Ba Cd Cr Ph Hg S	Voltatiles	Serraivolatiles	BTEX 80218/5030	ic, cec. sar, esp	lajor cations/antons, TDS				NSH TAT (Pre-Schedule)	kandard TAT
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Jeanne McMurrey

From:"Roy Rascon" <πoyriceswd@leaco.net>To:"Jeanne McMurrey" <jeanne@elabtexas.com>Sent:Wednesday, May 18, 2005 12:37 PMSubject:BD Santa Rita water sample

Jeanne

Please do not run the BETX on this sample. Thank you, Roy

Roy R. Rascon RICE Operating Company 122 W. Taylor Hobbs, NM 88240 505-393-9174

This message has been scanned for viruses and dangerous content by MailScanner at <u>BasinBroadBand.com</u>, and is believed to be clean.

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

Sec.

Client: Rice Operating Co.

Date/Time: 05-11-05 @ 0135

Jmm

Order #: 5E17003

Initials:

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1.0 C	
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	(Yes)	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Ves>	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Ves	No		1
Container labels legible and intact?	(es)	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/cottle?	Yes	(No)	BTEX Should be	Inclass Witchierline
Samples properly preserved?	Yes	NO	BTEX should be	reserved W/ fich
Sample bottles intact?	(res)	No		1
Preservations documented on Chain of Custody?	(Tes	No		
Containers documented on Chain of Custody?	res	No		
Sufficient sample amount for indicated test?	res	No		
All samples received within sufficient hold time?	Yes	No]
VOC samples have zero headspace?	Yes	(No)	Not Applicable]

Other observations:

Variance Documentation:

Contact Person: - <u>RoyRas</u> Regarding:	Date/Time: <u>os-11-os</u>	Contacted by: Jeone McMurra
proper 5a	mple Preservation	· · · · · · · · · · · · · · · · · · ·
Corrective Action Taken:	on voice mail and e-mail	ed
05.171-05 Lab preserve 1	n house Bitex	
ſ		

QUALITY PROCEDURES

Quality Procedure Soil Samples for Transportation to a Laboratory

1.0 Purpose

This procedure outlines the methods to be employed when obtaining soil samples to be taken to a laboratory for analysis.

2.0 Scope

This procedure is to be used when collecting soil samples intended for ultimate transfer to a testing laboratory.

3.0 Preliminary

- 3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the soil. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.
- 3.2 If collecting TPH, BTEX, RCRA 8 metals, cation /anions or O&G, the sample jar may be a clear 4 oz. container with Teflon lid. If collecting PAH's, use an amber 4 oz. container.

4.0 Chain of Custody

- 4.1 Prepare a Sample Plan. The plan will list the number, location and designation of each planned sample and the individual tests to be performed on the sample. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.
- 4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.
- 4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label.) Affix the labels to the jars.

5.0 Sampling Procedure

5.1.Do not touch the soil with your bare hands. Use new latex gloves with each sample to help minimize any cross-contamination.

- 5.2.Go to the sampling point with the sample container. If not analyzing for ions or metals, use a trowel to obtain the soil.
- 5.3.Pack the soil tightly into the container leaving the top slightly domed. Screw the lid down tightly. Enter the time of collection onto the sample collection jar label.
- 5.4.Place the sample directly on ice for transport to the laboratory if required.
- 5.5.Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

6.0 Documentation

- 6.1 The testing laboratory shall provide the following minimum information:
 - a. Project and sample name.
 - b. Signed copy of the original Chain of Custody Form including the time the sample was received by the lab.

- c. Results of the requested analyses
- d. Test Methods employed
- e. Quality Control methods and results

Rice Operating Company

QUALITY PROCEDURE Sampling and Testing Protocol for VOC in Soil

1.0 Purpose

This procedure is to be used to determine the concentrations of Volatile Organic Compounds in soils.

2.0 Scope

This procedure is to be used as the standard field measurement for soil VOC concentrations. It is not to be used as a substitute for full spectrographic speciation of organic compounds.

3.0 Procedure

- 3.1 Sample Collection and Preparation
 - 3.1.1 Collect at least 500 g. of soil from the sample collection point. Take care to insure that the sample is representative of the general background to include visible concentrations of hydrocarbons and soil types. If necessary, prepare a composite sample of soils obtained at several points in the sample area. Take care to insure that no loose vegetation, rocks or liquids are included in the sample(s).
 - 3.1.2 The soil sample(s) shall be immediately inserted into a one-quart or larger polyethylene freezer bag and sealed. When sealed, the bag should contain a nearly equal space between the soil sample and trapped air. Record the sample name and the time that the sample was collected on the Field Analytical Report Form.
 - 3.1.3 The sealed samples shall be allowed to set for a minimum of five minutes at a temperature of between 10-15 Celsius, (59-77°F). The sample temperatures may be adjusted by cooling the sample in ice, or by heating the sample within a generally controlled environment such as the inside of a vehicle. The samples should not be placed directly on heated surfaces or placed in direct heat sources such as lamps or heater vents.
 - 3.1.4 The sealed sample bag should be massaged to break up any clods, and to provide the soil sample with as much exposed surface area as practically possible.

- 3.2 Sampling Procedure
 - 3.2.1 The instrument to be used in conducting VOC concentration testing shall be an Environmental Instruments 13471 OVM / Datalogger or a similar PID-type instrument. (Device will be identified on VOC Field Test Report Form.) Prior to use, the instrument shall be zeroed-out in accordance with the appropriate maintenance and calibration procedure outlined in the instrument operation manual. The PID device will be calibrated each day it's used.
 - 3.2.2 Carefully open one end of the collection bag and insert the probe tip into the bag taking care that the probe tip not touch the soil sample or the sidewalls of the bag.
 - 3.2.3 Set the instrument to retain the highest result reading value. Record the reading onto the Field Test Report Form.
 - 3.2.4 If the instrument provides a reading exceeding 100 ppm, proceed to conduct BTEX Speciation in accordance with QP-02 and QP-06. If the reading is 100 ppm or less, NMOCD BTEX guideline has been met and no further testing for BTEX is necessary. File the Field Test Report Form in the project file.

4.0 Clean-up

After testing, the soil samples shall be returned to the sampling location, and the bags collected for off-site disposal. IN NO CASE SHALL THE SAME BAG BE USED TWICE. EACH SAMPLE CONTAINER MUST BE DISCARDED AFTER EACH USE.

	District 1 1625 N. French 1 District III 1301 W. Grand 1 District III 1000 Rio Brazos District IV 1220 S. St. France	Dr., Hobbs, I Avenue, Arte s Road, Azteo cis Dr., Santa	NM 88240 zsia, NM 88210 c, NM 87410 a Fe, NM 87505	FC 5-3	Energy Mir -07 Oil C 1220 Sa	ate of l nerals a Conserv South inta Fe	New Mex and Natura vation Div St. Franc , NM 875	ico l Resources vision is Dr. 505		Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form						
-	Release Notification and Corrective Action															
	OPERATOR Initial Report Final Re										Final Report					
	Name of Co	mpany: R	ice Operating	g Compa	ny	(Contact: Br	yan Clay								
	Address: 12	2 W. Tayl	or Hobbs	, New M	exico		Telephone 1	No.: 505-393-91	74			·				
	Facility Nar	ne: BD					Facility Typ	e: SWD Gather	ing Lin	le						
	Surface Ow	ner: Irwin	Boyd		Mineral C)wner				Lease N	lo.					
			*		LOCA	TION										
	Unit Letter A	Unit LetterSectionTownshipRangeFeet from theA2722S37E				North/	South Line	Feet from the	East/V	West Line	County Lea					
	Latitude: <u>32*22.19 N</u> Longitude: <u>103*08.63 W</u> NATURE OF RELEASE															
	Type of Release: Volume of Release: Volume Recovered:															
	Source of Release: Date and Hour of Occurrence: Date and Hour of Discovery:								<i>r</i> :							
	Pipeline Was Immedia	ata Nation (1-27-05	W/hom?		1-27-05 (ā) 3:30 p.m.					
	was mimeur	ale Notice V		Yes [] No 📋 Not R	equired	Gary Wink	K K								
	By Whom? Date and Hour:															
	Bryan Ulay 1-27-05 (a) 4:49 p.m. Was a Watercourse Reached? If VES Volume Importing the Watercourse								· · · · · · · · · · · · · · · · · · ·							
	$\square Yes \boxtimes No$									l						
	If a Watercourse was Impacted, Describe Fully.*															
	Describe Cau High tempera near by dispo	use of Probl ature in the osal station.	em and Reme 2-inch pvc lin	dial Actio e, cause tl	n Taken.* he line to swell an	d separa	te from its fit	ttings. The release	d freest	anding flui	d was picke	d up an	id hauled to a			
	Describe Are The affected Remediation	a Affected area was ar Work Plan	and Cleanup A oproximately 6 with this C-14 information gi	Action Tal 56,400 squ 41 Form. ven above	ken.* aare feet mainly in e is true and comp	pasture	land. ROC w	vill be submitting	a NEW	MEXICO (Generic Spi	ll and L	.eak rules and			
	regulations a	ll operators	are required to	o report a	nd/or file certain r	elease no	otifications a	nd perform correct	ctive act	ions for rel	eases, whic	h may e	endanger			

regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Book	<u>OIL CON</u>	SERVATION DIVISION
Printed Name: Bryan Clay	Approved by District Supervis	sor:
Title: Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: bcriceswd@leaco.net	Conditions of Approval:	Attached
Date: February 7, 2005 Phone: 505-393-9174		

* Attach Additional Sheets If Necessary

NEW MEXICO Generic Spill and Leak Remediation Work Plan SWD Systems Operated by Rice Operating Company

Rice Operating Company (ROC) realizes that a remediation work plan is required for significant spill and leak discharges to demonstrate that contaminants have not and will not migrate vertically so as to cause groundwater to exceed standards. In the future, C-141 reports describing significant discharges will be accompanied with this generic remediation work plan. It is understood that each spill and leak site must be handled as a unique event, therefore this generic plan is subject to alteration when appropriate for specific event sites.

NOTIFICATION AND DELINEATION

- 1. C-141 completed and filed pursuant to NMOCD guidelines and Rule 116.
- 2. Site assessment for groundwater depth, area water sources, etc. as is defined with NMOCD's site assessment guidelines.
- 3. Notification to NMOCD 24 hours in advance of major site delineation activities.
- 4. Perimeter and center delineation of the visibly impacted area to define horizontal and vertical extent of TPH and Chloride impact.
- 5. Confirmation of field results by a certified laboratory.
- 6. Delineation results reported to NMOCD within 60 days of spill or leak discovery accompanied by an estimated timeline for remediation activities.

REMEDIATION / CLEAN-UP MAY INCLUDE:

- 1. Excavation and proper disposal/blending of highly impacted soils as is practical.
- 2. Compacted clay layer application as is practical for impeding the downward migration of any remaining contaminants. Backfill with clean or appropriately blended (meets NMOCD guidelines for depth to groundwater) soils.
- 3. Where appropriate, incorporate enhanced surface remediation activities consisting of salt flushing/leaching below root zone; application of microbes or nutrients to decompose hydrocarbons; basic application of gypsum, fertilizer, etc. to enhance re-growth of natural vegetation or re-seeding as needed. Topsoils of major chloride impact and shallow groundwater may require replacement with clean topsoil before re-seeding.
- 4. Final report of remediation activities to be filed with NMOCD.

ROC is the service provider (operator) for Seven Salt Water Disposal Systems in Lea County, New Mexico: Eunice-Monument-Eumont (EME) SWD System, Blinebry Drinkard (BD) SWD System, Justis SWD System, Abo SWD System, Vacuum SWD System, Hobbs SWD System, and Hobbs East SWD System. ROC has no ownership of any portion of pipelines, wells, equipment or facilities. Each System is owned by a unique consortium of oil producers called System Partners, who provide all operating capital on a percentage ownership/usage basis.

Major projects require System Partner AFE approval and work begins as funds are received. Any environmental projects that require extensive remediation involvement must have System Partner approval and funding prior to commencement of work.

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

February 7, 2005

Paul Sheeley NMOCD Hobbs Office 1625 N. French Dr. Hobbs, NM 88240

Re: BD Salt Water Disposal (SWD) System UL / A Sec. 27 T22S R37E Lea County, New Mexico

Dear Mr. Sheeley:

Rice Operating Company (ROC) wishes to notify NMOCD of the actions implemented on the above-mentioned release site. On January 27, 2005, the site located in the BD SWD System experienced an accidental discharge of produced water. High temperature in the 2-inch pvc line coming from the Santa Rita Battery's heater, cause the line to swell and separate from its fittings. The line and fittings were replaced as a permanent repair.

The release occurred on land owned by Irwin Boyd who was notified. Immediate notification was given to NMOCD on January 27, 2005. The volume of the release was 800 bbls and 730 bbls were recovered. The size of the affected area was approximately 66,400 square feet. The depth to ground water is approximately 58 feet bgs.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has no ownership of any portion of the pipeline, well or facility. The BD System is owned by a consortium of oil producers called Systems Partners, who provide all operating capital on a percentage / usage basis.

ROC requests approval of this C-141 form as an initial report. If you have any questions please do not hesitate to call me at the number above.

Sincerely,

Bryan Clay Environmental Technician

FER 2005 h-L.VED

Enclosed: C-141 Initial Report Generic Spill and Leak Remediation Work Plan ROC Spill Report Drawing

