

REPORTS

DATE:



EME Semu ECL

1R0427-166

DISCLOSURE

REPORT

RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

					BOX LOCA	TION					
	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	MENSIONS	- FEET	
	EME		Р	15	20S	37E	1.00	Length	Width	Depth	
		SEMU EOL	٣	15	203	3/E	Lea	mo	oved 25 ft so	buth	
	LAND TYPE: E	BLMST/	ATE	FEE LAND	OWNER	S & W Ca	ttle Co.	OTHER		· · · ·	_
	Depth to Grour	ndwater	78 *	feet	NMOCD	SITE ASS	ESSMENT F	RANKING SO	CORE:	10	
	Date Started	8/2/20	04	Date Cor	mpleted	8/16/2004		Nitness		No	
	Soil Excavated	360	cubic yar	ds Exc	avation Le	ngth 27	Width	30	Depth	12	feet
	Soil Disposed	0	cubic yar	ds Off	isite Facility	r	n/a	Location		n/a	
۶I	NAL ANALY	TICAL RE	SULTS:	Samp	le Date	8/6/200	4	Sample	Depth	12 ft	

Procure 5-point composite sample of the excavation bottom. TPH and chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	<u>Benzene</u> ppm	<u>Toluene</u> mg/kg	Ethyl Benzene mg/kg	<u>Total Xylenes</u> mg/kg	<u>GRO</u> mg/kg	<u>DRO</u> mg/kg	<u>Chloride</u> mg/kg
bottom @ 12 ft	bottom @ 12 ft 0.0391 0.531 1.57 6.09					1610	1150
remediated backfill	ediated backfill PID = 48.9					504	702

General Description of Remedial Action:	This end-of-line (EOL) box was located
southwest of an active production facility. The junction	on was moved 25 ft south with the pipeline
replacement and a new watertight box was built. The	e old box was delineated using a backhoe
while PID screenings and chloride field tests were pe	rformed at regular intervals. Although
chloride concentrations declined laterally from the jun	ction, concentrations did not decline with
depth. NMOCD TPH guidelines were not met within	the 27 x 30 x 12-ft-deep excavation.
The excavated soil was blended on site and then bac	kfilled into the excavation. The disturbed
surface has been seeded with a blend of native vege	tation. NMOCD has been notified of
potential groundwater impact at this site. An identific	ation plate has been placed on the surface
to mark the location of the former junction box for fut	ure environmental considerations.
ADDITIONAL EVALUATION	NIS <u>MEDIUM</u> PRIORITY
* According to several sources, there are no confirm	ed groundwater level measurements in this
area. The reported groundwater depth is an estimation of the second seco	ate based on regional gradient.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
	6	1574
	7	1874
	8	2150
vertical at junction box	9	2115
Juneaen Dex	10	1982
	11	2147
	12	2301
4-wall comp.	n/a	1385
bottom comp.	12	887
remed. backfill	n/a	633

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

enclosures: chloride graph, photos, lab results, PID field screenings

	Joe Gatts SIGNATURE_	An Satt	COMPANYRICE Operating Company
REPORT ASSEMBLED BY	Kristin Farris Pope	SIGNATURE KD12	tin Jania Pope
DATE	12/29/2004	TITLE	Project Scientist

* This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

EME SEMU EOL

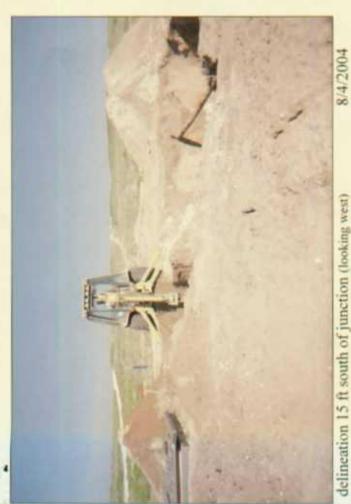
unit 'P', sec. 15, T20S, R37E

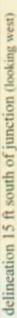




new junction and plumbing moved 25 ft south of former 6/11/2004



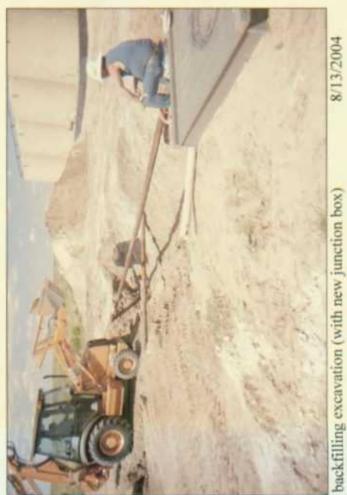






final 27 x 30 x 12 ft excavation

8/6/2004





RICE Operating Company

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CHLORIDE CONCENTRATION CURVE

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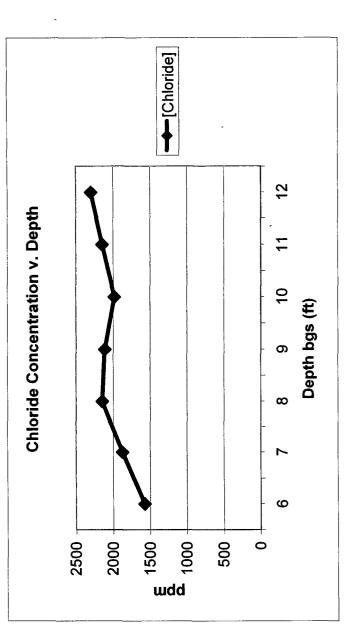
EME SEMU EOL

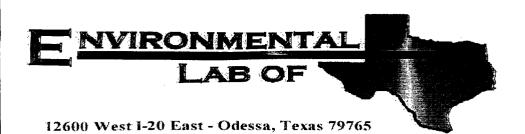
unit 'P', Sec. 15, T20S, R37E

Vertical Delineation at Source

[CI] ppm	1574	1874	2150	2115	1982	2147	2301
Depth bgs (ft)	9	<i>L</i>	8	6	10	11	12

Groundwater = 78 ft





Analytical Report

Prepared for:

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

Project: EME Conoco SEMU EOL Project Number: None Given Location: EME

Lab Order Number: 4H12002

Report Date: 08/17/04

Rice Operating Co.Project:EME Conoco SEMU EOLFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Roy Rascon08/17/04 16:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lab Comp. West Wall 2,3	4H12002-01	Soil	08/06/04 09:17	08/12/04 07:45
↓ West Wall Comp.	4H12002-02	Soil	08/06/04 10:40	08/12/04 07:45
♥North Wall #3	4H12002-03	Soil	08/06/04 08:30	08/12/04 07:45
√ North Wall Comp.	4H12002-04	Soil	08/06/04 10:35	08/12/04 07:45
Lab Comp. East Wall 3,4	4H12002-05	Soil	08/06/04 09:18	08/12/04 07:45
√East Wall Comp.	4H12002-06	Soil	08/06/04 10:25	08/12/04 07:45
√Remd. Backfill	4H12002-07	Soil	08/06/04 11:00	08/12/04 07:45

The Remodiated Backfill composite sample ("Remd. Backfill") Was field-collocted; results are valid. The other samples wore collected incorrectly and results are considered invalid.

KP 12-29-04

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME Conoco SEMU EOL Project Number: None Given Project Manager: Roy Rascon							Fax: (505) 397-1471 Reported: 08/17/04 16:00	
		Or	ganics k	v GC					<u>-</u>
		Environn	0	•	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Lab Comp. West Wall 2,3 (4H12002-	01) Soil	<u></u>			·· <u></u>		-* * <u></u>	** <u>***</u>	
Benzene	0.227	0.0500	mg/kg dry	50	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	1.77	0.0500	"	"	H	"	Ħ	n	
Ethylbenzene	1.97	0.0500	"	**		н	"		
Xylene (p/m)	12.0	0.0500	"	"	"	"	n	"	
Xylene (o)	2.50	0.0500	*	*	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		142 %	80	120	"	"	"	"	S-0
Surrogate: 4-Bromofluorobenzene		139 %	80	120	"	"	"	"	S-0
West Wall Comp. (4H12002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	0.0419	0.0250	"	"		n	**	"	
Ethylbenzene	0.0506	0.0250		н	**	"	**	н	
Xylene (p/m)	0.247	0.0250		"		"		"	
Xylene (0)	0.0383	0.0250	н	n		n	"	u	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	99.5	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	515	10.0	"	11	81	n	n	n	
Total Hydrocarbon C6-C35	614	10.0	U U	"	*	11	n	**	
Surrogate: 1-Chlorooctane		. 111%	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-	130	"	"	"	"	

Benzene	ND	0.0250 m	ng/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	ND	0.0250	**	н	11	۳	"	H	
Ethylbenzene	ND	0.0250	n	*	n	н	"	u	
Xylene (p/m)	ND	0.0250		n	n	11	"	"	
Xylene (o)	ND	0.0250	"	*	n	"	"	41	
Surrogate: a,a,a-Trifluorotoluene		87.7 %	80-12	0	17	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %	80-12	20	"	"	"	11	

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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.

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	Organics by GC Environmental Lab of Texas	
Hobbs NM, 88240	Project Manager: Roy Rascon	08/17/04 16:00
122 W. Taylor	Project Number: None Given	Reported:
Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-147

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
North Wall Comp. (4H12002-04) Soil	·			·					
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Foluene	ND	0.0250	н	"	"	н	"	"	
Ethylbenzene	ND	0.0250	н	n	H	11	"	n	
Xylene (p/m)	ND	0.0250	11	"	11	"	"	"	
Xylene (0)	ND	0.0250	"	11	"	"		"	
Surrogate: a,a,a-Trifluorotoluene		80.4 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.7 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	65.9	10.0	"	"	н	н	"	n	
Total Hydrocarbon C6-C35	65.9	10.0	n	"	tr	"	"	"	
Surrogate: 1-Chlorooctane		86.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.6 %	70-1	130	"	"	"	"	
Lab Comp. East Wall 3,4 (4H12002-0	95) Soil								
Benzene	0.453	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	3.89	0.0250	n	u	11	"	н	"	
Ethylbenzene	6.69	0.0250		n	"		N	"	
Xylene (p/m)	14.4	0.0250		n	"	11	"		
Xylene (o)	5.15	0.0250		"	"	"	Ħ	U	
Surrogate: a,a,a-Trifluorotoluene		664 %	80-1	120	"	"	"	"	S-1
Surrogate: 4-Bromofluorobenzene		142 %	80-1	120	"	"	"	"	<i>S</i> -
East Wall Comp. (4H12002-06) Soil						*			
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	0.0721	0.0250	n	н	"	11	"	n	
Ethylbenzene	0.108	0.0250	II	u	"	"	"	87	
Xylene (p/m)	0.422	0.0250	**		v	n	"	**	
Xylene (o)	0.118	0.0250	"		"	"	*1	17	
Surrogate: a,a,a-Trifluorotoluene		96.3 %	80	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	171	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	704	10.0	н	n	"			"	
Total Hydrocarbon C6-C35	875	10.0	м	n	н	"	"	"	
Total Hydrocal Doll CO-C55									
Surrogate: 1-Chlorooctane		110 %	70-	130	"	"	"	"	

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	08/17/04 16:00

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Remd. Backfill (4H12002-07) Soil		<u> </u>							
Gasoline Range Organics C6-C12	35.0	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	504	10.0	11	"	11	U.	n	n	
Total Hydrocarbon C6-C35	539	10.0	"	"	"	11	"	"	
Surrogate: 1-Chlorooctane		109 %	70-1	130	"	"	"	11	
Surrogate: 1-Chlorooctadecane		127 %	70-1	130	"	"	"	"	

Environmental Lab of Texas

	Rice Operating Co.	Project: EME Conoco	SEMU EOL	Fax: (505) 397-1471
1	122 W. Taylor	Project Number: None Given		Reported:
	Hobbs NM, 88240	Project Manager: Roy Rascon		08/17/04 16:00

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Lab Comp. West Wall 2,3 (4H12002-01) Soil								
% Solids	82.0		%	1	EH41301	08/12/04	08/12/04	% calculation	<u></u>
West Wall Comp. (4H12002-02) Soil									
Chloride	510	20.0 n	ng/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	95.0		%	1	EH41301	08/12/04	08/12/04	% calculation	
North Wall #3 (4H12002-03) Soil									
% Solids	86.0		%	1	EH41301	08/12/04	08/12/04	% calculation	
North Wall Comp. (4H12002-04) Soil									
Chloride	2870	20.0 n	ng/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	95.0		%	1	EH41301	08/12/04	08/12/04	% calculation	
Lab Comp. East Wall 3,4 (4H12002-05)) Soil								
% Solids	81.0		%	1	EH41301	08/12/04	08/12/04	% calculation	
East Wall Comp. (4H12002-06) Soil									
Chloride	617	20.0 m	ng/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	92.0		%	1	EH41301	08/12/04	08/12/04	% calculation	
Remd. Backfill (4H12002-07) Soil		,							
Chloride	702	20.0 m	ng/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	98.0		%	1	EH41301	08/12/04	08/12/04	% calculation	

Environmental Lab of Texas

Rice Operating Co.		Pr	oject: EMI	E Conoco	SEMU EC	DL			Fax: (505)	397-147
122 W. Taylor		Project Nu	mber: Non	e Given					Repo	rted:
Hobbs NM, 88240		Project Mar	ager: Roy	Rascon					08/17/0	4 16:00
	•	anics by	-	•						
	E	nvironm	ental La	ab of T	exas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41207 - Solvent Extraction	(GC)									
Blank (EH41207-BLK1)				Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0								
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	70-130			
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89.0	70-130			
Blank (EH41207-BLK2)				Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	**							
Surrogate: 1-Chlorooctane	43.3	· · · ·	mg/kg	50.0		86.6	70-130			
Surrogate: 1-Chlorooctadecane	44.7		"	50.0		89.4	70 -13 0			
LCS (EH41207-BS1)				Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	484	10.0	н	500		96.8	75-125			
Total Hydrocarbon C6-C35	924	10.0		1000		92.4	75-125			
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130			
LCS (EH41207-BS2)				Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125			
Diesel Range Organics >C12-C35	410 .	10.0	"	500		82.0	75-125			
Total Hydrocarbon C6-C35	824	10.0	"	1000		82.4	75-125			
Surrogate: 1-Chlorooctane	36.3		mg/kg	50.0		72.6	70-130			
Surrogate: 1-Chlorooctadecane	39.4		"	50.0		78.8	70-130			
Calibration Check (EH41207-CCV1)				Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12	442		mg/kg	500		88.4	80-120			
Diesel Range Organics >C12-C35	496		n	500		99.2	80-120			
Total Hydrocarbon C6-C35	938		"	1000		93.8	80-120			
Surrogate: 1-Chlorooctane	49.5		"	50.0	• • • ••	99.0	70-130	·	<u>, , , , , , , , , , , , , , , , , , , </u>	
Surrogate: 1-Chlorooctadecane	40.4		"	50.0		80.8	70-130			

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Rice Operating Co. 122 W. Taylor		Project Nur Project Mar	nber: Noi		SEMU E	JL			Fax: (505) Repo 08/17/0	rted:
Hobbs NM, 88240		Project Man	ager: Roy	/ Rascon					08/1//0	4 10:00
	Or	ganics by	GC - Q	uality (Control					
]	Environm	ental L	ab of T	exas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41207 - Solvent Extraction	(GC)									
Calibration Check (EH41207-CCV2)				Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	465		mg/kg	500		93.0	80-120			
Diesel Range Organics >C12-C35	513		"	500		103	80-120			
Fotal Hydrocarbon C6-C35	978		H	1000		97.8	80-120			
Surrogate: 1-Chlorooctane	51.9			50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89.0	70-130			
Matrix Spike (EH41207-MS1)	So	urce: 4H120	02-04	Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12	518	10.0	mg/kg dry	526	ND	98.5	75-125			
Diesel Range Organics >C12-C35	684	10.0	-	526	65.9	118	75-125			
Total Hydrocarbon C6-C35	1200	10.0	17	1050	65.9	108	75-125			
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	59.2		"	50.0		118	70-1 3 0			
Matrix Spike (EH41207-MS2)	Sa	ource: 4H120	08-07	Prepared:	: 08/12/04	Analyzed	i: 08/13/04			
Gasoline Range Organics C6-C12	587	10.0	mg/kg dry	575	ND	102	75-125			
Diesel Range Organics >C12-C35	643	10.0		575	ND	112	75-125			
Total Hydrocarbon C6-C35	1230	10.0	۳	1150	ND	107	75-125			
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	51.7		"	50.0		103	70-130			
Matrix Spike Dup (EH41207-MSD1)	So	ource: 4H120	02-04	Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	526	ND	103	75-125	4.34	20	
Diesel Range Organics >C12-C35	667	10.0	"	526	65.9	114	75-125	2.52	20	
Total Hydrocarbon C6-C35	1210	10.0		1050	65.9	109	75-125	0.830	20	
Surrogate: 1-Chlorooctane	61.2		mg/kg	50.0		122	70-130	<u> </u>	· - · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	<i>57.9</i>		"	50.0		116	70-130			
Matrix Spike Dup (EH41207-MSD2)	So	ource: 4H120	08-07	Prepared	: 08/12/04	Analyzed	d: 08/13/04	ļ		
Gasoline Range Organics C6-C12	583	10.0	mg/kg dry	575	ND	101	75-125	0.684	20	
Diesel Range Organics >C12-C35	630	10.0	"	575	ND	110	75-125	2.04	20	
Total Hydrocarbon C6-C35	1210	10.0	0	1150	ND	105	75-125	1.64	20	
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	70-130		· · · • •	
Surrogate: 1-Chlorooctadecane	53.7		"	50.0		107	70-130			

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project Nur Project Man	mber: No		SEMU E	OL			-	397-1471 rted: 4 16:00
	-	anics by		- •						
	F	Environm	ental I	ab of T	exas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41605 - EPA 5030C (GC)										
Blank (EH41605-BLK1)				Prepared	& Analyz	ed: 08/12/	04			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	н							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	86.4		ug/kg	100		86.4	80-120			
Surrogate: 4-Bromofluorobenzene	81.3		"	100		81.3	80-120			
LCS (EH41605-BS1)				Prepared:	08/12/04	Analyzed	1: 08/13/04			
Benzene	93.2		ug/kg	100		93.2	80-120			
Toluene	98.9		11	100		98.9	80-120			
Ethylbenzene	103		11	100		103	80-120			
Xylene (p/m)	217		н	200		108	80-120			
Xylene (o)	111		N	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	97.0		"	100		97.0	80-120			
Surrogate: 4-Bromofluorobenzene	98.5		"	100		98.5	80-120			
Calibration Check (EH41605-CCV1)				Prepared:	08/12/04	Analyzed	1: 08/14/04			
Benzene	93.5		ug/kg	100		93.5	80-120			
Toluene	97.9		Ħ	100		97.9	80-120			
Ethylbenzene	98.3		n	100		98.3	80-120			
Xylene (p/m)	212		н	200		106	80-120			
Xylene (o)	109 ·		"	100		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	96.7		-#	100		96.7	80-120	- <u></u>		
Surrogate: 4-Bromofluorobenzene	94.8		"	100		94.8	80-120			
Matrix Spike (EH41605-MS1)	So	urce: 4H120	02-03	Prepared	: 08/12/04	Analyze	d: 08/15/04			
Benzene	97.9		ug/kg	100	ND	97.9	80-120			
Toluene	95.0		н	100	ND	95.0	80-120			
Ethylbenzene	96.7		Ħ	100	ND	96.7	80-120			
Xylene (p/m)	206			200	ND	103	80-120			
Xylene (0)	103		"	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	88.2		"	100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	87.0		"	100		87.0	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. Page 8 of 11

Project: EME Conoco SEMU EOL Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 08/17/04 16:00

Organics by GC - Quality Control

Environmental Lab of Texas

		Domosting		Smiles	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
		2	0							

Batch EH41605 - EPA 5030C (GC)

Matrix Spike Dup (EH41605-MSD1)	Source:	4H12002-03	Prepared:	08/12/04	Analyzed	d: 08/15/04			
Benzene	98.4	ug/kg	100	ND	98.4	80-120	0.509	20	
Toluene	96.0		100	ND	96.0	80-120	1.05	20	
Ethylbenzene	97.6		100	ND	97.6	80-120	0.926	20	
Xylene (p/m)	209	**	200	ND	104	80-120	0.966	20	
Xylene (o)	105	11	100	ND	105	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	91.0	"	100		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	91.0	"	100		91 .0	80-120			

Environmental Lab of Texas

Rice Operating Co.		Project: EN	1E Conoco	SEMU E	OL			Fax: (505)	397-1471	
122 W. Taylor		Project Number: No						Repo	rted:	
Hobbs NM, 88240		Project Manager: Ro	y Rascon					08/17/04 16:00		
General Chemis	try Paran	neters by EPA /	Standar	rd Meth	nods - Q	Juality	Contro			
	I	Environmental L	ab of T	exas						
Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch EH41301 - General Preparation	(Prep)									
Blank (EH41301-BLK1)			Prepared	& Analyz	ed: 08/12/	'04				
% Solids	100	%								
Duplicate (EH41301-DUP1)	So	urce: 4H12001-01	Prepared	& Analyz	ed: 08/12/	'04				
% Solids	87.0	%		86.0			1.16	20		
Batch EH41709 - Water Extraction										
Blank (EH41709-BLK1)			Prepared	& Analyz	ed: 08/17/	′04				
Chloride	ND	20.0 mg/kg Wet			· · · · · · · · · · · · · · · · · · ·					
Matrix Spike (EH41709-MS1)	So	urce: 4H12001-04	Prepared	& Analyz	ed: 08/17/	/04				
Chloride	564	20.0 mg/kg Wet	500	74.4	97.9	80-120				
Matrix Spike Dup (EH41709-MSD1)	So	urce: 4H12001-04	Prepared	& Analyz	ed: 08/17/	′04				
Chloride	574	20.0 mg/kg Wet	t 500	74.4	99.9	80-120	1.76	20		
Reference (EH41709-SRM1)			Prepared	& Analyz	ed: 08/17/	/04				
Chloride	4840	mg/kg	5000	· • · • · • · • · • · • · • · • · • · •	96.8	80-120				

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	08/17/04 16:00

Notes and Definitions

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

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

Duplicate Dup

af an dK Just Report Approved By: Date: 18-04

Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

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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.

Page 11 of 11

ENTE Courses SENILL Fe. TAT bisbrist Pre-Schedule) TAT H2UR (20) stiller 6 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Missigh J 3 emperature Upon Receipto らてビス o. VSample Containers Infact? Analyze For aboratory Comments: X × X X BTEX 80218/5030 × × ENE Semicorimes 510 s semiero/ **.**. As Ag 8a Cd Cr Pb Hg Se TCLP: X \times 5 TOTAL 8015M GRO/DRO X HdJ Project Name: Project Loc: PO #: Project #: 9001/2001 XT H91 18:00 1.914 HGT SHLO Time Tine DB (Cr, Lawey EC X X × × East WALL #3 HY Other (specify): 8-12-64 $\prec \times$ \times \prec \times \prec Matrix lioS Sindge Vater ŝ Fax No: (505) 397-147 Other (Specify) anoM Preservative 'OS^zH HOPN IDH ONH Lean manuar Compasite × X X X aoj 5 × × \prec 553 No. of Containers to zo 10: 25 10:40 11:00 9117 3:30 10:35 9:15 N (x) belqms2 emiT MITEL 0 ¢ ed by ELOT BTEX ON IY Time Received by: 816104 816104 816 104 816104 516/04 516104 816109 816104 816 104 Environmental Lab of Texas, Inc. Date Sampled 38240 Company Name RICE ODICATING 4:30 Company Address: 122 N. Taylor lime Ч Г Ray Rascon Fax: 915-563-1713 Phone: 915-563-1800 # 3 COMP Comp Telephone No:(SOS) 393-917 c Comp city/State/Zip: Hobbs, NM N ₩ N 8/11/04 M ₽ Ħ NALL # 4 BACKFIL Date FIELD CODE μ Ψ d WHLL WALL علاب North WALZ WALL UAL2 tast WALL WALL REMD. East East test West North Vest Project Manager: Sampler Signature: Lomp West Relinquished by: Odessa, Texas 79763 12600 West I-20 East 🙏 🗚 🖁 🕮 🕹 🖓 🕹 200 CI HIT Special Instructions: - 04 01 501 r D I 151 90 6 Relingu/shed by 01

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

Client:	hice O	peratina	<u></u>
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Date/Time: 08-12-04@0830

JMM

Order #: _______

Initials:

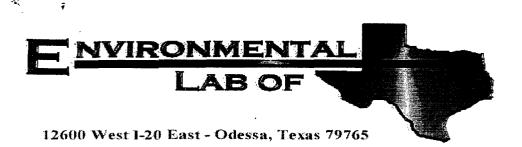
Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	115 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?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	Res	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Tes)	No	
Container labels legible and intact?	res	No	
Sample Matrix and properties same as on chain of custody?	(Tes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	Tes	No	
Sample bottles intact?	Ves	No	
Preservations documented on Chain of Custody?	Tes	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

_

Contact Person: Regarding:	Variance Documentation: Date/Time:	_ Contacted by:
Corrective Action Taken:		



Analytical Report

Prepared for:

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

Project: EME Conoco SEMU EOL Project Number: None Given Location: EME

Lab Order Number: 4H12001

Report Date: 08/17/04

Rice Operating Co.Project: EME Conoco SEMU EOLFax: (505) 397-1471122 W. TaylorProject Number: None GivenReported:Hobbs NM, 88240Project Manager: Roy Rascon08/17/04 16:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lab Comp. Bottom 2,3,4,5	4H12001-01	Soil	08/06/04 09:07	08/12/04 07:45
√Bottom Comp. at 12' bgs	4H12001-02	Soil	08/06/04 10:00	08/12/04 07:45
., Lab Comp. South Wall 2,4,5	4H12001-03	Soil	08/06/04 09:30	08/12/04 07:45
South Wall Comp.	4H12001-04	Soil	08/06/04 10:20	08/12/04 07:45

Bottom field composite ("Bottom Comp. at 12' bgs") is valid. The other samples were collected incorrectly. KP 12-29-04

Rice Operating Co.		Р	roject: EN	IE Conoc	SEMU E	OL		Fax: (505) 397-1471		
122 W. Taylor			imber: No					Repor	ted:	
Hobbs NM, 88240		Project Ma	08/17/04 16:00							
			ganics b	-						
		Environn	nental L	ab of 1	exas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
Lab Comp. Bottom 2,3,4,5 (4H12001-	01) Soil									
Benzene	2.08	0.0500	mg/kg dry	50	EH41605	08/12/04	08/13/04	EPA 8021B		
Toluene	24.9	0.0500	11	н	"	"	ч	**		
Ethylbenzene	25.1	0.0500	"	11	"	"	н	It		
Xylene (p/m)	38.0	0.0500	N	11	"	11	11	11		
Xylene (o)	20.0	0.0500	"		11		**	18		
Surrogate: a,a,a-Trifluorotoluene		716 %	80-1	120	"	"	"	"	S-0	
Surrogate: 4-Bromofluorobenzene		100 %	80-1	120	"	"	"	n		
Bottom Comp. at 12' bgs (4H12001-0	2) Soil									
Benzene	0.0391	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B		
Toluene	0.531	0.0250			"	"	n	u		
Ethylbenzene	1.57	0.0250			11	"	"	n		
Xylene (p/m)	4.10	0.0250	18	н	11	n	"	11		
Xylene (o)	1.99	0.0250		n	"	"	"	Ħ		
Surrogate: a,a,a-Trifluorotoluene		127 %	80	120	"	"	"	"	S-0	
Surrogate: 4-Bromofluorobenzene		108 %	80	120	"	"	"	"		
Gasoline Range Organics C6-C12	394	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M		
Diesel Range Organics >C12-C35	1610	10.0	w	п	11	"	"	Ð		
Total Hydrocarbon C6-C35	2000	10.0		41	n	"	"	n		
Surrogate: 1-Chlorooctane		, 110 %	70	130	"	"	"	"	<u> </u>	
Surrogate: 1-Chlorooctadecane		129 %	70	130	"	"	"	"		
Lab Comp. South Wall 2,4,5 (4H1200)1-03) Soil									
Benzene	1.25	0.0500	mg/kg dry	50	EH41605	08/12/04	08/13/04	EPA 8021B		
Toluene	8.95	0.0500	11	"	"	**		n		
Ethylbenzene	3.55	0.0500	41	n	n	"	n	6 7		
Xylene (p/m)	27.5	0.0500	u	н	n	"	u	и		
Xylene (o)	10.3	0.0500	11	н	u	Ħ	н	n		
Surrogate: a,a,a-Trifluorotoluene		700 %	80-	120	"	"	"	"	S-0	
Surrogate: 4-Bromofluorobenzene		135 %	80-	120	"	**	"	"	S-0	

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1	Rice Operating Co.	Project:	EME Conoco SEMU EOL	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	Reported:
	Hobbs NM, 88240	Project Manager:	Roy Rascon	08/17/04 16:00

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Wall Comp. (4H12001-04) Soil									
Benzene	0.0839	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	0.649	0.0250	"	"	"	н	11	*1	
Ethylbenzene	0.507	0.0250	u	"	11	"	"	"	
Xylene (p/m)	5.90	0.0250	н			"	**	*1	
Xylene (0)	1.46	0.0250	"		"	14	н	v	
Surrogate: a,a,a-Trifluorotoluene		137 %	80-1	20	"	n	"	"	S-04
Surrogate: 4-Bromofluorobenzene		131 %	80-1	20	"	"	"	"	S-04
Gasoline Range Organics C6-C12	891	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	2950	10.0	N	"	"	"	"	"	
Total Hydrocarbon C6-C35	3840	10.0	"	"	H	**	n		
Surrogate: 1-Chlorooctane		126 %	70-1	30	"	".	"	"	
Surrogate: 1-Chlorooctadecane		161 %	70-1	30	n	"	"	"	S-04

Environmental Lab of Texas

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	08/17/04 16:00

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lab Comp. Bottom 2,3,4,	5 (4H12001-01) Soil	- <u></u>				<u> </u>		
% Solids	86.0	%	1	EH41301	08/12/04	08/12/04	% calculation	
Bottom Comp. at 12' bgs	(4H12001-02) Soil							
Chloride	1150	20.0 mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	88.0	%	1	EH41301	08/12/04	08/12/04	% calculation	
Lab Comp. South Wall 2	,4,5 (4H12001-03) Soil							
% Solids	84.0	%	1	EH41301	08/12/04	08/12/04	% calculation	
South Wall Comp. (4H12	001-04) Soil							
Chloride	74.4	20.0 mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	91.0	%	1	EH41301	08/12/04	08/12/04	% calculation	

Environmental Lab of Texas

Rice Operating Co.		Pr	oject: EMI	E Conoco	SEMU EC	DL			Fax: (505)	397-147
122 W. Taylor		Project Nu	•						Repo	rted:
Hobbs NM, 88240		Project Mar	nager: Roy	Rascon				08/17/04 16:00		
	Org	anics by	GC - Q	uality (Control					
	E	nvironm	ental La	ab of T	exas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41207 - Solvent Extraction	(GC)									
Blank (EH41207-BLK1)				Prepared	& Analyze	d: 08/12/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	70-130			
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89 .0	70-130			
Blank (EH41207-BLK2)				Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet	· · · · · · · · · · · · · · · · · · ·						
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	н							
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	70-130			
Surrogate: 1-Chlorooctadecane	44.7		"	50.0		89.4	70-130			
LCS (EH41207-BS1)				Prepared	& Analyza	ed: 08/12/	04			
Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	484	10.0	"	500		96.8	75-125			
Total Hydrocarbon C6-C35	924	10.0	"	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130			
LCS (EH41207-BS2)				Prepared	& Analyze	ed: 08/12/				
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125			
Diesel Range Organics >C12-C35	410 -	10.0	11	500		82.0	75-125			
Total Hydrocarbon C6-C35	824	10.0	м	1000		82.4	75-125			
Surrogate: 1-Chlorooctane	36.3	· · ·	mg/kg	50.0		72.6	70-130			
Surrogate: 1-Chlorooctadecane	39.4		"	50.0		78.8	70-130			
Calibration Check (EH41207-CCV1)				Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12	442		mg/kg	500		88.4	80-120			
Diesel Range Organics >C12-C35	496		н	500		99.2	80-120			
Total Hydrocarbon C6-C35	938		n	1000		93.8	80-120			
Surrogate: 1-Chlorooctane	49.5		"	50.0		99.0	70-130			
Surrogate: 1-Chlorooctadecane	40.4		"	50.0		80.8	70-130			

3

Rice Operating Co.		Pr	oject: EM	E Conoco	SEMU EC	DL			Fax: (505)	397-147
122 W. Taylor		Project Nur	•						Repo	rted:
Hobbs NM, 88240		Project Man	ager: Roy	/ Rascon					08/17/0	4 16:00
<u></u>	Org	anics by	GC - Q	uality (Control					
	0	nvironm	-	•						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH41207 - Solvent Extraction	(GC)									
Calibration Check (EH41207-CCV2)				Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	465	<u> </u>	mg/kg	500		93.0	80-120			
Diesel Range Organics >C12-C35	513		11	500		103	80-120			
Total Hydrocarbon C6-C35	978		11	1000		97.8	80-120			
Surrogate: 1-Chlorooctane	51.9			50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89.0	70-130			
Matrix Spike (EH41207-MS1)	Sou	rce: 4H120	02-04	Prepared	& Analyze	ed: 08/12/	04			
Gasoline Range Organics C6-C12	518	10.0	mg/kg dry	526	ND	98.5	75-125			
Diesel Range Organics >C12-C35	684	10.0	u.	526	65.9	118	75-125			
Total Hydrocarbon C6-C35	1200	10.0	ų	1050	65.9	108	75-125			
Surrogate: 1-Chlorooctane	56.9	· · · · ·	mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	59.2		"	50.0		118	7 0-13 0			
Matrix Spike (EH41207-MS2)	Sou	rce: 4H120	08-07	Prepared:	08/12/04					
Gasoline Range Organics C6-C12	587	10.0	mg/kg dry	575	ND	102	75-125			
Diesel Range Organics >C12-C35	643	10.0	"	575	ND	112	75-125			
Total Hydrocarbon C6-C35	1230	10.0	11	1150	ND	107	75-125			
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	51.7		"	50.0		103	70-130			
Matrix Spike Dup (EH41207-MSD1)	Sou	rce: 4H120	02-04	Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	526	ND	103	75-125	4.34	20	
Diesel Range Organics >C12-C35	667 🦂	10.0	n	526	65.9	114	75-125	2.52	20	
Total Hydrocarbon C6-C35	1210	10.0	"	1050	65.9	109	75-125	0.830	20	
Surrogate: I-Chlorooctane	61.2		mg/kg	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	57.9		"	50.0		116	70-130			
Matrix Spike Dup (EH41207-MSD2)	Sou	rce: 4H120	08-07	Prepared	: 08/12/04	Analyzed	1: 08/13/04			
Gasoline Range Organics C6-C12	583	10.0	mg/kg dry	575	ND	101	75-125	0.684	20	
Diesel Range Organics >C12-C35	630	10.0	11	575	ND	110	75-125	2.04	20	
Total Hydrocarbon C6-C35	1210	10.0	H	1150	ND	105	75-125	1.64	20	
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	53.7		"	50.0		107	70-130			

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project Nur Project Mar	nber: No		SEMU E	DL			-	397-1471 orted: 4 16:00
	•	ganics by Environm		- •						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH41605 - EPA 5030C (GC)										
Blank (EH41605-BLK1)				Prepared	& Analyze	ed: 08/12/	04			
Benzene	ND	0.0250	mg/kg we	l						
Toluene	ND	0.0250	n							
Ethylbenzene	ND	0.0250	n							
Xylene (p/m)	ND	0.0250	н							
Xylene (0)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	86.4		ug/kg	100		86.4	80-120			
Surrogate: 4-Bromofluorobenzene	81.3		"	100		81. 3	80-120			
LCS (EH41605-BS1)										
Benzene	93.2		ug/kg	100		93.2	80-120			
Toluene	98.9	•	u	100		98.9	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	217			200		108	80-120			
Xylene (o)	111		11	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	97.0			100		97.0	80-120			
Surrogate: 4-Bromofluorobenzene	98.5		"	100		98.5	80-120			
Calibration Check (EH41605-CCV1)				Prepared:	08/12/04	Analyzed	i: 08/14/04			
Benzene	93.5		ug/kg	100	<u> </u>	93.5	80-120			
Toluene	97.9		"	100		97.9	80-120			
Ethylbenzene	98.3		н	100		98.3	80-120			
Xylene (p/m)	212		0	200		106	80-120			
Xylene (o)	109 ·			100		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	96.7		"	100		96.7	80-120			
Surrogate: 4-Bromofluorobenzene	94.8		"	100		94.8	80-120			
Matrix Spike (EH41605-MS1)	So	urce: 4H120	02-03	Prepared	: 08/12/04	Analyzed	1: 08/15/04			
Benzene	97.9		ug/kg	100	ND	97.9	80-120			
Toluene	95.0			100	ND	95.0	80-120			
Ethylbenzene	96.7		н	100	ND	96.7	80-120			
Xylene (p/m)	206		u	200	ND	103	80-120			
Xylene (o)	103		n	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	88.2	· · · ·		100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	87.0		"	100		87.0	80-120			

Rice Operating Co.	Project:	EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Roy Rascon	08/17/04 16:00

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 EH41605 - EPA 5030C (GC)

Matrix Spike Dup (EH41605-MSD1)	Source:	4H12002-03	Prepared:	08/12/04	Analyzed	1: 08/15/04		
Benzene	98.4	ug/kg	100	ND	98.4	80-120	0.509	20
Toluene	96.0	"	100	ND	96.0	80-120	1.05	20
Ethylbenzene	97.6	"	100	ND	97.6	80-120	0.926	20
Xylene (p/m)	209	*	200	ND	104	80-120	0.966	20
Xylene (o)	105	u	100	ND	105	80-120	1.92	20
Surrogate: a,a,a-Trifluorotoluene	91.0	"	100	<u> </u>	91.0	80-120		
Surrogate: 4-Bromofluorobenzene	91.0	"	100		91 .0	80-120		

Environmental Lab of Texas

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	08/17/04 16:00

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 EH41301 - General Preparation	ı (Prep)									
Blank (EH41301-BLK1)				Prepared	& Analyze	ed: 08/12/	04			
% Solids	100		%							
Duplicate (EH41301-DUP1)	Sou	rce: 4H1200	1-01	Prepared	& Analyze	ed: 08/12/	04			
% Solids	87.0		%		86.0			1.16	20	
Batch EH41709 - Water Extraction				Durana	Q. A	4.09/17/				
Blank (EH41709-BLK1)				4	& Analyze	21: 08/1 //				
Chloride	ND	20.0 m	ng/kg Wet	[
Matrix Spike (EH41709-MS1)	Sou	rce: 4H1200	1-04	Prepared	& Analyze	ed: 08/17/	04			
Chloride	564	20.0 m	ng/kg Wet	t 500	74.4	97.9	80-120			
Matrix Spike Dup (EH41709-MSD1)	Sou	rce: 4H1200	1-04	Prepared	& Analyzo	ed: 08/17/	04			
Chloride	574	20.0 m	ng/kg Wei	t 500	74.4	99.9	80-120	1.76	20	
Reference (EH41709-SRM1)				Prepared	& Analyze	ed: 08/17/	04			
							80-120			

Environmental Lab of Texas

122 W. Taylor Hobbs NM, 88240	Project Number: None Given Project Manager: Roy Rascon	Reported: 08/17/04 16:00				
Notes and Definitions						

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

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

Report Approved By: Date: 6-18-64

Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

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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.

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10/ TAT bisbrield RUSH TAT (Pre-Schedule Project Name: EWE Couro SEWU z Coloropsild (op) 4.3. Marsher (4.1) CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST l'emperature Upon Receipt Sample Containers Infact? aboratory Comments: Analyze For X \times X × BTEX 80218/5030 X Semivolaties EWE 1.5% 510 2911610V Metals: As Ag Ba Cd Cr Pb Hg Se × X TOTAL: CROIDRD MOIDRO Project Loc: PO #: Projecl #: 9001/2001 XT H91 SHL J 1.814 H9T 14:00 LEX ON/Y Time Time HZHHHS <u>ل</u>لا ابد Ofher (specify): \times \times X X × $\boldsymbol{\times}$ 12-04 × \times lioS × Matrix 11/04 Dale SInqüe Dale \mathbb{M} Vater 797-147 ¢ Other (Specify) South with Composite anoM 'osªH Preservative HOeN HCI Cylence WENnemer 'ONH Fax No: (SOS) X ¥ X × X X X aoj × ايد 553/5204 Il theyru No. of Containers BTEROWIN 01.6 9:30 10:20 00:00 9:07 9.27 9:00 2:04 9:25 beigms2 emiT Received by ELOT 5702-18:2) 816104 816104 816104 10101 816104 816104 816104 16104 816104 Received by Environmental Lab of Texas, Inc. baiqme2 ais0 BRAYO t † € 00 COMPANY NAME RICE ODICATING 4:30 レットン Time J 290 Time Company Address: 122 W. Taylor Ray Rascon Phone: 915-563-1800 Fax: 915-563-1713 COIN D # 年 2 2 ナサ M Telephone No: (SOS) 393-9179 # ¥ 21 IS Μ #5 サキ city/state/zip: Hobbs, NM 112404 8/11/04 24 Φ Date Date η FIELD CODE Ņ N \mathbf{r} N JUALL 21414 P WALI # VAU 0220 5.4 +5 Bettom ډ Buttow いたので ter South B. Hom Swith 5 * 4 + 4 South Project Manager: Sampler Signature: Relinquished by: Odessa, Texas 79763 12600 West I-20 East Э, 100z1Hm) Special Instructions: LAB # (lab use only) 200-102 Relinquis

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

Client: <u>RiceOperating</u>
Date/Time: 08-12-04 @ 0830
Order #: 4 H 1 Z OG 1

JMM

Initials:

G

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	1,5 C
Shipping container/cooler in good condition?	(es)	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?	(Yes	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(res)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	(es)	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Jes,	No	
Preservations documented on Chain of Custody?	Yes,	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	(es)	No	
All samples received within sufficient hold time?	(es)	No	
VOC samples have zero headspace?	(res)	No	Not Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: Date/Time:	Contacted by:
Corrective Action Taken:		

RICE OPERATING COMPANY

122 WEST TAYLOR HOBBS, NEW MEXICO 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 VOC FIELD TEST REPORT FORM MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S CALIBRATION GAS GAS COMPOSITION: ISOBUTYLENE AIR LOT NO: 02-22-30 EXP. DATE: 11/20/04 METER READING ACCURACY: 1001

SERIAL NO: 10 4490

100 PPM BALANCE FILL DATE: <u>5/20/03</u> ACCURACY: <u>+ or - 290</u>

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Conoco SEM4 Eol	P.	15	20	37

- · ·	and the second sec	•	a and a second sec
SAMPLE	PID RESULT	SAMPLE	PID RESULT
15'N. WALL COMP	21.5	N. WALL #4	32,1
12'S. WALL COMP	499	N.WALL #5	45.6
15 F. WALLCOMP	263	S. WALL #1	17.4
15 U. WALL	188	S. WALL #2	1068
12' Bott. comp	1172	5. WALL #3	1310
Bott. #1 12'	<i>35</i> , 2	S. WALL #4	788
130++. #2 12'	1012	S. WALL #5	32,6
Bott. # 3 12'	457	W. WALL #1	- 45.6
Bott. #4 12	374	W. WALL # C	1274
Bott. #5 12'	170	W. WALL #3	506
N. WALL #1	2.5	W. WALL #4	314
N. WALL #2	14.6	W. WALL #5	21.5
N. WALL #3	267	REMO BACKFIN	48.9

12'

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Signature

816/04