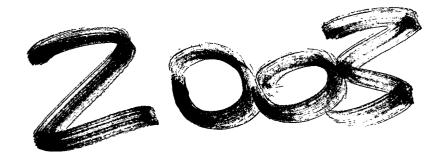
GW - 57

# GENERAL CORRESPONDENCE

YEAR(S):





Pinnacle Lab ID number November 17, 2003 310136

INTERA 6501 AMERICAS PRKWY NE STE.820 ALBUQUERQUE, NM 87110

NMOCD 1220 South St. Francis Drive Santa Fe, NM 87505

Project Name

**ARAHO** 

**Project Number** 

ARAHO

Attention:

JOE TRACY/MARTYNE KIELING

On 10/24/03 Pinnacle Laboratories Inc., (ADHS Lincense No. AZ0643), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8015/8021 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All remaining analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.

General Manager, Pinnacle Laboratories, Inc.

MR: jt

Enclosure



CLIENT	: INTERA	PINNACLE ID	: 310136
PROJECT#	: ARAHO	DATE RECEIVED	: 10/24/03
PROJECT NAME	: ARAHO	REPORT DATE	: 11/17/03
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
310136 - 01	T6-3B	NON-AQ	10/23/03
310136 - 02	T3-2	NON-AQ	10/23/03
310136 - 03	T3-4	NON-AQ	10/23/03
310136 - 04	T1W-1	NON-AQ	10/23/03
310136 - 05	T1E-1	NON-AQ	10/23/03
310136 - 06	RS1-3	NON-AQ	10/23/03
310136 - 07	RS2-2	NON-AQ	10/23/03
310136 - 08	T2-3	NON-AQ	10/23/03
310136 - 09	T1/3-3	NON-AQ	10/23/03
310136 - 10	T4-2B	NON-AQ	10/23/03
310136 - 11	RS3-3	NON-AQ	10/23/03
310136 - 12	T4-2	NON-AQ	10/23/03
310136 - 13	T5-2	NON-AQ	10/23/03
310136 - 14	T6-3	NON-AQ	10/23/03
310136 - 15	S6-2	NON-AQ	10/23/03
310136 - 16	RS4-3.5	NON-AQ	10/23/03
310136 - 17	RS5-1	NON-AQ	10/23/03
310136 - 18	DL1-2	NON-AQ	10/23/03
310136 - 19	S9-2	NON-AQ	10/23/03
310136 - 20	S15	NON-AQ	10/23/03
310136 - 21	S1-1N	NON-AQ	10/23/03
310136 - 22	S85	NON-AQ	10/23/03
310136 - 23	DL1-2B	NON-AQ	10/23/03
310136 - 24	C-1	NON-AQ	10/24/03
310136 - 25	C-3	NON-AQ	10/24/03
310136 - 26	C-5	NON-AQ	10/24/03
310136 - 27	C-7	NON-AQ	10/24/03
310136 - 28	C-8	NON-AQ	10/24/03
310136 - 29	C-6	NON-AQ	10/24/03
310136 - 30	C-4	NON-AQ	10/24/03
310136 - 31	C-2	NON-AQ	10/24/03
310136 - 32	C-9	NON-AQ	10/24/03
310136 - 33	C-10	NON-AQ	10/24/03
310136 - 34	C-11	NON-AQ	10/24/03
310136 - 35	C-13	NON-AQ	10/24/03



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021B MODIFIED - METHANOL PRESERVATION

**CLIENT** 

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

ANALYST : BP

**PROJECT NAME** 

: ARAHO

	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	T6-3B		NON-AQ	10/23/03	NA	10/27/03	1
02	T3-2		NON-AQ	10/23/03	NA	10/29/03	5
03	T3-4		NON-AQ	10/23/03	NA	10/27/03	1
PARAME	ETER	DET. LIMIT	UN	IITS	T6-3B	T3-2	T3-4
BENZEN	IE	0.025	MG	/KG	< 0.025	0.15	< 0.025
TOLUEN	ΙE	0.025	MG	S/KG	< 0.025	0.24	< 0.025
ETHYLB	ENZENE	0.025	MG	s/KG	< 0.025	0.78	< 0.025
TOTAL >	XYLENES	0.050	MG	S/KG	< 0.050	0.73	< 0.050
SURRO		<b>-</b> (0()			400	444	
	FLUOROBENZENI GATE LIMITS	E (%) (80 - 120)			102	111	112
DRY WE	IGHT (%)	,			79	88	81

CHEMIST NOTES:



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021B MODIFIED - METHANOL PRESERVATION

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

ANALYST : BP

**PROJECT NAME** 

: ARAHO

TROOLOT	147 (171)	. 7110110					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	T1W-1		NON-AQ	10/23/03	NA	10/27/03	1
05	T1E-1		NON-AQ	10/23/03	NA	10/27/03	1
06	RS1-3		NON-AQ	10/23/03	NA	10/29/03	2
PARAMET	ER	DET. LIMIT	UN	IITS	T1W-1	T1E-1	RS1-3
BENZENE		0.025	MG	G/KG	< 0.025	< 0.025	< 0.050
TOLUENE		0.025	MG	S/KG	< 0.025	< 0.025	< 0.050
ETHYLBE	NZENE	0.025	MG	i/KG	< 0.025	0.030	< 0.050
TOTAL XY	LENES	0.050	MG	G/KG	< 0.050	< 0.050	< 0.10
	ATE: LUOROBENZEN ATE LIMITS	E (%) ( 80 - 120 )			116	111	106
DRY WEI		(13 1-0)			85	81	92

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8021B MODIFIED - METHANOL PRESERVATION

**CLIENT** 

: INTERA

PINNACLE I.D. : 310136

PROJECT#

: ARAHO

ANALYST : BP

PROJECT NAME

· ARAHO

PROJEC	INAME	: ARAHO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	RS2-2		NON-AQ	10/23/03	NA	10/27/03	1
08	T2-3		NON-AQ	10/23/03	NA	10/29/03	5
09	T1/3-3		NON-AQ	10/23/03	NA	10/27/03	1
PARAME	TER	DET. LIMIT	UN	IITS	RS2-2	T2-3	T1/3-3
BENZEN	E	0.025	MG	/KG	< 0.025	0.43	< 0.025
TOLUEN	E	0.025	MG	i/KG	< 0.025	0.17	< 0.025
ETHYLBI	ENZENE	0.025	MG	KG	< 0.025	3.6	< 0.025
TOTAL X	YLENES	0.050	MG	s/KG	< 0.050	8.6	< 0.050
	SURROGATE:						
	LUOROBENZEN	` '			104	105	99
	SATE LIMITS	( 80 - 120 )					
DRY WEI	IGHT (%)				88	85	84

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021B MODIFIED - METHANOL PRESERVATION

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

ANALYST : BP

PRO.	JECT	NAME	

: ARAHO

SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
10	T4-2B		NON-AQ	10/23/03	NA	10/29/03	2
11	RS3-3		NON-AQ	10/23/03	NA	10/28/03	1
12	T4-2		NON-AQ	10/23/03	NA NA	10/29/03	2
PARAMETE	R	DET. LIMIT	UN	ITS	T4-2B	RS3-3	T4-2
BENZENE		0.025	MG	/KG	< 0.050	< 0.025	< 0.050
TOLUENE		0.025	MG	/KG	< 0.050	< 0.025	< 0.050
ETHYLBEN	ZENE	0.025	MG	/KG	< 0.050	< 0.025	< 0.050
TOTAL XYL	ENES	0.050	MG	/KG	< 0.10	< 0.050	< 0.10
SURROGA BROMOFLI SURROGA	JOROBENZENE (%)	) (80 - 120)			115	98	111 .
DRY WEIG		(00 - 120)			80	87	80

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8021B MODIFIED - METHANOL PRESERVATION

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT #

: ARAHO

ANALYST : BP

PROJECT NAME

· ARAHO

PROJECT	NAME	: ARAHU					
SAMPLE				DATE	DATE	DATE	DIL.
1D. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
13	T5-2		NON-AQ	10/23/03	NA	10/28/03	2
14	T6-3		NON-AQ	10/23/03	NA	10/29/03	2
15	S6-2		NON-AQ	10/23/03	NA	10/29/03	11
PARAMET	ΓER	DET. LIMIT	UN	IITS	T5-2	T6-3	S6-2
BENZENE		0.025	MG	6/KG	< 0.050	< 0.050	< 0.025
TOLUENE		0.025	MG	s/KG	< 0.050	< 0.050	< 0.025
ETHYLBE	NZENE	0.025	MG	i/KG	0.074	< 0.050	0.046
TOTAL X	YLENES	0.050	MG	/KG	< 0.10	< 0.10	0.12
SURROG	ATE: LUOROBENZEN	F (%)			113	115	117
SURROG	ATE LIMITS	(80 - 120)					
DRY WER	(%) ا H <i>ق</i>	,			81	80	87

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021B MODIFIED - METHANOL PRESERVATION

**CLIENT** 

: INTERA

. 1

: ARAHO

ANALYST : BP

PINNACLE I.D.: 310136

PROJECT NAME

PROJECT#

: ARAHO

1110000	1 47 (tvt -	. / 11 0 11 10					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
16	RS4-3.5		NON-AQ	10/23/03	NA	10/28/03	1
17	RS5-1		NON-AQ	10/23/03	NA	10/28/03	1
18	DL1-2		NON-AQ	10/23/03	NA	10/28/03	5
PARAMET	ER	DET. LIMIT	UN	IITS	RS4-3.5	RS5-1	DL1-2
BENZENE		0.025	MG	S/KG	< 0.025	< 0.025	< 0.13
TOLUENE		0.025	MG	S/KG	< 0.025	< 0.025	< 0.13
ETHYLBE	NZENE	0.025	MG	KG	< 0.025	< 0.025	0.61
TOTAL XY	<b>YLENES</b>	0.050	MG	s/KG	< 0.050	< 0.050	1.8
	ATE: LUOROBENZEN ATE LIMITS	E (%) ( 80 - 120 )			105	108	111
DRY WEI		(80 - 120)			90	92	81

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021B MODIFIED - METHANOL PRESERVATION

**CLIENT** 

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

(80 - 120)

ANALYST : BP

88

94

PROJECT NAME : ARAHO							
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
19	S9-2		NON-AQ	10/23/03	NA	10/28/03	1
20	S15		NON-AQ	10/23/03	NA	10/28/03	1
21	S1-1N		NON-AQ	10/23/03	NA	10/28/03	1
PARAMETE	ER	DET. LIMIT	UN	IITS	S9-2	S15	S1-1N
BENZENE		0.025	MG	KG	< 0.025	< 0.025	< 0.025
TOLUENE		0.025	MG	S/KG	< 0.025	< 0.025	< 0.025
ETHYLBEN	ZENE	0.025	MG	s/KG	< 0.025	< 0.025	< 0.025
TOTAL XYL	ENES	0.050	MG	s/KG	< 0.050	< 0.050	< 0.050
SURROGATE:							
BROMOFLUOROBENZENE (%)					105	106	105

84

**CHEMIST NOTES:** 

SURROGATE LIMITS

DRY WEIGHT (%)



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8021B MODIFIED - METHANOL PRESERVATION

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO · ARAHO ANALYST : BP

PROJEC	CT NAME	: ARAHO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
22	S85		NON-AQ	10/23/03	NA	10/28/03	1
23	DL1-2B		NON-AQ	10/23/03	NA	10/29/03	5
PARAM	ETER	DET. LIMIT	UN	NITS	S85	DL1-2B	
BENZE	ΝE	0.025	MG	9/KG	< 0.025	< 0.13	
TOLUE	ΝE	0.025	MG	9/KG	< 0.025	< 0.13	
ETHYLE	BENZENE	0.025	MG	S/KG	< 0.025	1.9	
TOTAL	XYLENES	0.050	MG	s/KG	< 0.050	5.8	
SURRO	GATE:						
	FLUOROBENZEN	E (%)			98	118	
	GATE LIMITS	( 80 - 120 )					
DRY WE	EIGHT (%)				88	83	

CHEMIST NOTES:



#### GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	:	310136
BLANK I. D.	: 102703	DATE EXTRACTED	:	N/A
CLIENT	: INTERA	DATE ANALYZED	:	10/27/03
PROJECT#	: ARAHO	SAMPLE MATRIX	:	FP
PROJECT NAME	: ARAHO	ANALYST	:	BP
PARAMETER	UNITS			
BENZENE	MG/KG	<0.025		
TOLUENE	MG/KG	<0.025		
ETHYLBENZENE	MG/KG	<0.025		
TOTAL XYLENES	MG/KG	<0.050		
SURROGATE:				
BROMOFLUOROBENZENE (%)		99		

SURROGATE LIMITS:

CHEMIST NOTES:



# GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BLANK I. D.	: 102803A	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/28/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	ANALYST	: BP
PARAMETER	UNITS		
BENZENE	MG/KG	<0.025	
TOLUENE	MG/KG	<0.025	
ETHYLBENZENE	MG/KG	<0.025	
TOTAL XYLENES	MG/KG	<0.050	
SURROGATE:			
BROMOFLUOROBENZENE (%)		96	

SURROGATE LIMITS:

CHEMIST NOTES:



N/A

# GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

TEST BLANK I. D. CLIENT PROJECT # PROJECT NAME	: EPA 8021B MODIFIED : 102803B : INTERA : ARAHO : ARAHO	PINNACLE I.D. DATE EXTRACTED DATE ANALYZED SAMPLE MATRIX ANALYST	: : : : : : : : : : : : : : : : : : : :	310136 N/A 10/29/03 FP BP
PARAMETER	UNITS			
BENZENE	MG/KG	<0.025		
TOLUENE	MG/KG	<0.025		
ETHYLBENZENE	MG/KG	<0.025		
TOTAL XYLENES	MG/KG	<0.050		
SURROGATE: BROMOFLUOROBENZENE (%) SURROGATE LIMITS: CHEMIST NOTES:		97		



## GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

**TEST** : EPA 8021B MODIFIED PINNACLE I.D. 310136 BLANK I. D. : 102903 DATE EXTRACTED N/A CLIENT : INTERA DATE ANALYZED 10/29/03 PROJECT# : ARAHO SAMPLE MATRIX FΡ **PROJECT NAME** : ARAHO **ANALYST** BP PARAMETER UNITS BENZENE MG/KG < 0.025 **TOLUENE** MG/KG < 0.025 ETHYLBENZENE MG/KG < 0.025 **TOTAL XYLENES** MG/KG < 0.050 SURROGATE: **BROMOFLUOROBENZENE (%)** 103

SURROGATE LIMITS:

CHEMIST NOTES:



# GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST BATCH # CLIENT PROJECT #	: EPA 8021B N : 102703 : INTERA : ARAHO	ODIFIED			PINNACLE I DATE EXTR DATE ANAL SAMPLE MA	ACTED YZED	: : :	310136 N/A 10/27/03 FP	
PROJECT NAME	: ARAHO				UNITS		:	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	< 0.025	1.00	1.05	105	1.04	104	1	(80 - 120)	20
TOLUENE	< 0.025	1.00	1.03	103	1.03	103	0	(80 - 120)	20
ETHYLBENZENE	< 0.025	1.00	1.06	106	1.05	105	1	(80 - 120)	20
TOTAL XYLENES	< 0.050	3.00	3.17	106	3.14	105	1	(80 - 120)	20

CHEMIST NOTES: N/A

% Recovery =

(Spike Sample Result - Sample Result)

Spike Concentration

RPD (Relative Percent Difference) = (Sample Result - Duplicate Result) ------ X 100



#### GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

**TEST** : EPA 8021B MODIFIED PINNACLE I.D. 310136 BATCH# : 102803A DATE EXTRACTED N/A CLIENT : INTERA DATE ANALYZED 10/28/03 PROJECT# : ARAHO SAMPLE MATRIX FΡ **UNITS** PROJECT NAME : ARAHO MG/KG SAMPLE CONC SPIKED % DUP DUP REC RPD PARAMETER RESULT **SPIKE** SAMPLE **REC** SPIKE % REC **RPD** LIMITS LIMITS **BENZENE** < 0.025 1.00 1.02 102 1.02 102 0 (80 - 120)20 **TOLUENE** < 0.025 1.00 1.01 101 100 (80 - 120) 1.00 1 20 **ETHYLBENZENE** < 0.025 1.00 1.03 103 1.02 102 (80 - 120)20 TOTAL XYLENES < 0.050 3.00 3.06 102 101 3.03 (80 - 120)20

**CHEMIST NOTES:** N/A

(Spike Sample Result - Sample Result) % Recovery = -----X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

Average Result

----- X 100

310136



# GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

PINNACLE I.D.

BATCH #	: 102803B				DATE EXTR	RACTED	:	N/A	
CLIENT	: INTERA				DATE ANAL	YZED	:	10/29/03	
PROJECT#	: ARAHO				SAMPLE MA	ATRIX	:	FP	
PROJECT NAME	: ARAHO				UNITS		:	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.025	1.00	1.03	103	1.06	106	3	(80 - 120)	20
TOLUENE	< 0.025	1.00	1.01	101	1.03	103	2	(80 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.04	104	1.05	105	1	(80 - 120)	20
TOTAL XYLENES	< 0.050	3.00	3.10	103	3.14	105	1	(80 - 120)	20

CHEMIST NOTES: N/A

**TEST** 

(Spike Sample Result - Sample Result)

% Recovery =

-----X 100

: EPA 8021B MODIFIED

Spike Concentration

(Sample Result - Duplicate Result)



#### GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST BATCH # CLIENT PROJECT #	: EPA 8021B N : 102903 : INTERA : ARAHO	ODIFIED			PINNACLE I DATE EXTR DATE ANAL' SAMPLE MA	ACTED YZED	: : :	310136 N/A 10/29/03 FP	
PROJECT NAME	: ARAHO	· · · · · · · · · · · · · · · · · · ·			UNITS		:	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.025	1.00	1.02	102	1.03	103	1	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.01	101	1.01	101	0	(80 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.04	104	1.03	103	1	(80 - 120)	20
TOTAL XYLENES	<0.050	3.00	3.06	102	3.02	101	1	(80 - 120)	20

**CHEMIST NOTES:** N/A

(Spike Sample Result - Sample Result) % Recovery = -----X 100

Spike Concentration

(Sample Result - Duplicate Result) RPD (Relative Percent Difference) =



## GAS CHROMATOGRAPHY QUALITY CONTROL MS/MSD

TEST	: EPA 8021B M	ODIFIED			PINNACLE I	.D.	:	310136	
MSMSD#	: 310136-01				DATE EXTR	ACTED	:	N/A	
CLIENT	: INTERA				DATE ANAL	YZED	:	10/27/03	
PROJECT#	: ARAHO				SAMPLE MA	ATRIX	:	FP	
PROJECT NAME	: ARAHO				UNITS		:	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.025	1.00	1.07	107	1.06	106	1	(80 - 120)	20
TOLUENE	<0.025	1.00	1.07	107	1.05	105	2	(80 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.10	110	1.08	108	2	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.27	109	3.19	106	2	(80 - 120)	20

---- X 100

CHEMIST NOTES: N/A

(Spike Sample Result - Sample Result)

% Recovery = ------ X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

310136



## GAS CHROMATOGRAPHY QUALITY CONTROL MS/MSD

PINNACLE I.D.

MSMSD # CLIENT PROJECT #	: 310136-16 : INTERA : ARAHO				DATE EXTR DATE ANAL SAMPLE MA	YZED	: : :	N/A 10/28/03 FP	
PROJECT NAME	: ARAHO				UNITS		:	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	< 0.025	1.00	1.07	107	1.04	104	3	(80 - 120)	20
TOLUENE	< 0.025	1.00	1.08	108	1.03	103	5	(80 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.09	109	1.06	106	3	(80 - 120)	20
TOTAL XYLENES	< 0.050	3.00	3.26	109	3.17	106	3	(80 - 120)	20

CHEMIST NOTES: N/A

**TEST** 

% Recovery = (Spike Sample Result - Sample Result)

Spike Concentration

: EPA 8021B MODIFIED

(Sample Result - Duplicate Result)

----- X 100

RPD (Relative Percent Difference) =



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

**CLIENT** 

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

ANALYST : VPH

PROJECT NAME

: ARAHO

FROJECT	NAIVIE	. ARADO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	T6-3B		NON-AQ	10/23/03	10/27/03	10/29/03	1
02	T3-2		NON-AQ	10/23/03	10/27/03	10/29/03	5
03	T3-4		NON-AQ	10/23/03	10/27/03	10/29/03	1
PARAME	TER	DET. LIMIT	UI	NITS	T6-3B	T3-2	T3-4
FUEL HY	DROCARBONS, C6-C10	10	M	G/KG	< 10	380	< 10
FUEL HY	DROCARBONS, C10-C22	10	M	G/KG	17	2100	120
FUEL HY	DROCARBONS, C22-C36	10	MO	G/KG	46	1400	360
CALCULA	ATED SUM:				63	3880	480
	ATE: IENYL (%) ATE LIMITS	( 70-130 )			102	92	89

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

ANALYST : VPH

PROJECT NAME

: ARAHO

INCOLO	I INCHIL	. AIVALIO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	T1W-1		NON-AQ	10/23/03	10/27/03	10/29/03	5
05	T1E-1		NON-AQ	10/23/03	10/27/03	10/28/03	1
06	RS1-3		NON-AQ	10/23/03	10/27/03	10/28/03	11
PARAME	TER	DET. LIMIT	UI	NITS	T1W-1	T1E-1	RS1-3
<b>FUEL HY</b>	DROCARBONS, C6-C10	10	M	G/KG	150	11	11
<b>FUEL HY</b>	DROCARBONS, C10-C22	10	M	G/KG	2500	250	50
<b>FUEL HY</b>	DROCARBONS, C22-C36	10	M	G/KG	1400	77	45
CALCULA	ATED SUM:				4050	338	106
	SATE: HENYL (%) SATE LIMITS	( 70-130 )			85	78	102

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

PINNACLE I.D.: 310136

PROJECT#

: INTERA

ANALYST : VPH

PROJECT NAME

: ARAHO · ARAHO

PROJECT	NAME	: ARAHO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	RS2-2		NON-AQ	10/23/03	10/27/03	10/29/03	2
80	T2-3		NON-AQ	10/23/03	10/27/03	10/29/03	10
09	T1/3-3		NON-AQ_	10/23/03	10/27/03	10/28/03	1
PARAMET	ER	DET. LIMIT	UI	VITS	RS2-2	T2-3	T1/3-3
FUEL HYD	DROCARBONS, C6-C10	10	M	G/KG	23	870	< 10
FUEL HYD	DROCARBONS, C10-C22	10	M	G/KG	1800	4500	57
FUEL HYD	DROCARBONS, C22-C36	10	M	G/KG	1100	1900	120
CALCULA	TED SUM:				2923	7270	177
SURROGA	ATE:						
O-TERPHI	ENYL (%)				84	110	96
SURROGA	ATE LIMITS	(70-130)					

**CHEMIST NOTES:** 



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: INTERA

PINNACLE I.D. : 310136

PROJECT#

: ARAHO

PROJECT NAME

: ARAHO

ANALYST : VPH

- KOJEC I	INAIVIE	. ARADO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
10	T4-2B		NON-AQ	10/23/03	10/27/03	10/28/03	1
11	RS3-3		NON-AQ	10/23/03	10/27/03	10/28/03	1
12	T4-2		NON-AQ	10/23/03	10/27/03	10/28/03	1
PARAMET	TER	DET. LIMIT	UI	NITS	T4-2B	RS3-3	T4-2
FUEL HY	DROCARBONS, C6-C10	10	M	G/KG	< 10	< 10	18
<b>FUEL HYI</b>	DROCARBONS, C10-C22	10	M	G/KG	60	180	610
FUEL HY	DROCARBONS, C22-C36	10	M	G/KG	120	290	270
CALCULA	ATED SUM:				180	470	898
SURROG O-TERPH	IENYL (%)	(70.420)			99	86	93
SURRUG	ATE LIMITS	( 70-130 )					

CHEMIST NOTES:



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

: ARAHO

ANALYST : VPH

PROJECT NAME

· ARAHO

(70-130)

PROJECT	INAME	: ARAHO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
13	T5-2		NON-AQ	10/23/03	10/28/03	10/29/03	1
14	T6-3		NON-AQ	10/23/03	10/28/03	10/30/03	1
15	S6-2		NON-AQ	10/23/03	10/28/03	10/30/03	20
PARAMETI	ER	DET. LIMIT	U	VITS	T5-2	T6-3	S6-2
FUEL HYD	ROCARBONS, C6-C10	10	M	G/KG	77	< 10	210
FUEL HYD	ROCARBONS, C10-C22	10	M	G/KG	1100 D2	17	10000
FUEL HYD	ROCARBONS, C22-C36	10	M	G/KG	51	15	760
CALCULAT	TED SUM:				1228	32	10970
SURROGA	TE:						
O-TERPHE	ENYL (%)				94	95	<b>S</b> 3

#### **CHEMIST NOTES:**

**SURROGATE LIMITS** 

D2 = Reported from a 2x dilution run on 10/30/03.

S3 = Surrogate diluted out.



#### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

PROJECT NAME

: ARAHO · ARAHO ANALYST : VPH

PROJECT	INAIVIE	: ARAHU					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
16	RS4-3.5		NON-AQ	10/23/03	10/28/03	10/29/03	1
17	RS5-1		NON-AQ	10/23/03	10/28/03	10/29/03	1
18	DL1-2		NON-AQ	10/23/03	10/28/03	10/29/03	1
PARAMET	TER	DET. LIMIT	UI	NITS	RS4-3.5	RS5-1	DL1-2
FUEL HY	DROCARBONS, C6-C10	10	М	G/KG	< 10	< 10	340
FUEL HY	DROCARBONS, C10-C22	10	MO	G/KG	< 10	370	6300 D10
FUEL HY	DROCARBONS, C22-C36	10	M	G/KG	< 10	830	850
CALCULA	ATED SUM:					1200	7490
SURROG	ATE:						
O-TERPH	IENYL (%)				98	88	99
SURROG	ATE LIMITS	(70-130)					

**CHEMIST NOTES:** 

Reported from a 10x dilution run on 10/30/03.



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: INTERA

PINNACLE I.D.: 310136

PROJECT#

ANALYST : VPH

PROJECT NAME

: ARAHO

: ARAHO

FROJECT	INVINE	. ARAHO					
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
19	S9-2		NON-AQ	10/23/03	10/28/03	10/30/03	1
20	S15		NON-AQ	10/23/03	10/28/03	10/30/03	10
21	S1-1N		NON-AQ	10/23/03	10/28/03	10/30/03	1
PARAMET	ER	DET. LIMIT	<u>U</u> I	VITS	S9-2	S15	S1-1N
FUEL HYDROCARBONS, C6-C10		10	MC	3/KG	10	100	< 10
FUEL HYD	DROCARBONS, C10-C22	10	MC	G/KG	340	1800	130
FUEL HYD	DROCARBONS, C22-C36	10	MC	G/KG	800	2900	310
CALCULA	TED SUM:				1150	4800	440
SURROGA	ATE:						
O-TERPHI	ENYL (%)				79	106	81
SURROGA	ATE LIMITS	(70-130)					

CHEMIST NOTES:



#### GAS CHROMATOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

PINNACLE I.D.: 310136

PROJECT#

: INTERA

ANALYST : VPH

PROJECT NAME

: ARAHO

: ARAHO

SAMPLE DATE DATE DIL. DATE ID.# CLIENT I.D. FACTOR **MATRIX** SAMPLED **EXTRACTED** ANALYZED 22 S8-.5 NON-AQ 10/23/03 10/28/03 10/30/03 1 23 **DL1-2B NON-AQ** 10/23/03 1 10/28/03 10/29/03 **PARAMETER** DET. LIMIT UNITS S8-.5 DL1-2B **FUEL HYDROCARBONS, C6-C10** 10 MG/KG 380 < 10 **FUEL HYDROCARBONS, C10-C22** 10 MG/KG 300 8400 D10 **FUEL HYDROCARBONS, C22-C36** 10 MG/KG 700 990 CALCULATED SUM: 1000 9770 SURROGATE: O-TERPHENYL (%) 81 111 (70-130)SURROGATE LIMITS

**CHEMIST NOTES:** 

Reported at a 10x dilution run on 10/30/03.



# GAS CHROMATOGRAPHY RESULTS EXTRACTION BLANK

TEST : EPA 8015 MODIFIED (DIRECT INJECT) PINNACLE I.D.

INACLE I.D. : 310136

BLANK I.D. : 102803 CLIENT : INTERA DATE EXTRACTED : 10/28/03 DATE ANALYZED : 10/29/03

PROJECT # : ARAHO PROJECT NAME : ARAHO

SAMPLE MATRIX : NON-AQ ANALYST : VPH

PARAMETER UNITS

FUEL HYDROCARBONS, C6-C10 MG/KG < 10

FUEL HYDROCARBONS, C10-C22 MG/KG < 10

FUEL HYDROCARBONS, C22-C36 MG/KG < 10

SURROGATE:

O-TERPHENYL (%)

96

SURROGATE LIMITS

(70-130)

CHEMIST NOTES:

96



# GAS CHROMATOGRAPHY RESULTS EXTRACTION BLANK

**TEST** : EPA 8015 MODIFIED (DIRECT INJECT) PINNACLE I.D. : 310136 BLANK I.D. : 102703 DATE EXTRACTED : 10/27/03 CLIENT : INTERA DATE ANALYZED : 10/28/03 PROJECT# SAMPLE MATRIX : ARAHO : NON-AQ PROJECT NAME : ARAHO ANALYST : VPH UNITS **PARAMETER** FUEL HYDROCARBONS, C6-C10 MG/KG < 10 FUEL HYDROCARBONS, C10-C22 < 10 MG/KG FUEL HYDROCARBONS, C22-C36 MG/KG < 10

SURROGATE:

O-TERPHENYL (%)

SURROGATE LIMITS

(70-130)

**CHEMIST NOTES:** 



## GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8015 MC	DIFIED (DI	RECT INJECT	)	PINNACLE I	:	310136		
LCS/LCSD#	: 102703	DATE EXTRACTED :			10/27/03				
CLIENT	: INTERA	'ERA				YZED	:	10/28/03	
PROJECT#	: ARAHO				SAMPLE MA	ATRIX	:	NON-AQ	
PROJECT NAME	: ARAHO				UNITS		:	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
FUEL HYDROCARBONS	<10	200	204	102	203	102	0	(70-130)	20

CHEMIST NOTES: N/A

(Spike Sample Result - Sample Result)

X 100

-----X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =



# GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8015 MC	ODIFIED (DI	IRECT INJECT	)	PINNACLE I.D.			310136	
LCS/LCSD#	: 102803				DATE EXTR	RACTED	:	10/28/03	
CLIENT	: INTERA				DATE ANAL	YZED	:	10/29/03	
PROJECT #	: ARAHO				SAMPLE MA	ATRIX	:	NON-AQ	
PROJECT NAME	JECT NAME : ARAHO			UNITS		:	MG/KG		
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
FUEL HYDROCARBONS	<10	200	183	92	194	97	6	(70-130)	20

CHEMIST NOTES: N/A

(Spike Sample Result - Sample Result)

X 100

----- X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

PINNACLE LABORATORIES 2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

## GAS CHROMATOGRAPHY QUALITY CONTROL MSMSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)				PINNACLE I.D. :			310136	
MSMSD#	: 310136-01				DATE EXTR	ACTED	:	10/27/03	
CLIENT	: INTERA				DATE ANAL	YZED	;	10/28/03	
PROJECT#	: ARAHO				SAMPLE MATRIX			NON-AQ	
PROJECT NAME	: ARAHO				UNITS		: <u> </u>	MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
FUEL HYDROCARBONS	<10	200	196	98	211	106	7	(70-130)	20

CHEMIST NOTES: N/A

(Spike Sample Result - Sample Result)

X 100

-----X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

PINNACLE LABORATORIES 2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

# GAS CHROMATOGRAPHY QUALITY CONTROL MSMSD

TEST	: EPA 8015 MG	DDIFIED (D	_)	PINNACLE !	I.D.	:	310136		
MSMSD #	: 310136-17	•	DATE EXTRACTED :			10/28/03			
CLIENT	: INTERA	ERA				DATE ANALYZED :			
PROJECT#	: ARAHO				SAMPLE MA	ATRIX	:	NON-AQ	
PROJECT NAME	: ARAHO				UNITS			MG/KG	
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
FUEL HYDROCARBONS	370	200	659	145 <b>M4</b>	607	119	8	(70-130)	20

**CHEMIST NOTES:** 

M4 = % Recovery is outside of PLI criteria.

(Spike Sample Result - Sample Result)

X 100

----- X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =



STL Pensacola

3355 McLemore Drive - Pensacola FL 32514 Telephone: (850) 474-1001 Fax: (850) 478-2671

#### **Analytical Report**

For: Ms. Jacinta Tenorio
Pinnacle Laboratories

2709-D Pan American Freeway Northeast

Albuquerque, NM 87107

CC:

Order Number: C310776

SDG Number: Client Project ID:

Project: 310136, NMOCD-ARAHO

Report Date: 11/12/2003 Sampled By: Client

Sample Received Date: 10/28/2003

Requisition Number:

Purchase Order: 310136

Lance Larson, Project Manager

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

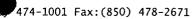


Client: Pinnacle Laboratories Project: 310136, NMOCD-ARAHO Order: C310776 Date Received: 10/28/2003

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
T6-3B/310136-01	C310776*1	Solid	10/23/2003 11:44
T3-2/310136-02	C310776*2	Solid	10/23/2003 12:06
T3-4/310136-03	C310776*3	Solid	10/23/2003 12:12
T1W-1/310136-04	C310776*4	Solid	10/23/2003 12:25
T1E-1/310136-05	C310776*5	Solid	10/23/2003 12:48
RS1-3/310136-06	C310776*6	Solid	10/23/2003 13:45
RS2-2/310136-07	C310776*7	Solid	10/23/2003 13:57
T2-3/310136-08	C310776*8	Solid	10/23/2003 14:10
T1/3-3/310136-09	C310776*9	Solid	10/23/2003 14:35
T4-2B/310131-10	C310776*10	Solid	10/23/2003 15:09
RS3-3/310136-11	C310776*11	Solid	10/23/2003 16:41
T4-2/310136-12	C310776*12	Solid	10/23/2003 17:00
T5-2/310136-13	C310776*13	Solid	10/23/2003 17:13
T6-3/310136-14	C310776*14	Solid	10/23/2003 17:27
F6-2/310136-15	C310776*15	Solid	10/23/2003 17:39
RS4-3.5/310136-16	C310776*16	Solid	10/23/2003 17:52
RS5-1/310136-17	C310776*17	Solid	10/23/2003 18:00
DL1-2/310136-18	C310776*18	Solid	10/23/2003 18:20
S9-2/310136-19	C310776*19	Solid	10/23/2003 18:33
S15/310136-20	C310776*20	Solid	10/23/2003 18:47
S1-1N/310136-21	C310776*21	Solid	10/23/2003 18:55
S85/310136-22	C310776*22	Solid	10/23/2003 18:25
DL1-2B/310136-23	C310776*23	Solid	10/23/2003 19:20
C-1/310136-24	C310776*24	Solid	10/24/2003 08:30
C-3/310136-25	C310776*25	Solid	10/24/2003 08:33
C-5/310136-26	C310776*26	Solid	10/24/2003 08:36
C-7/310136-27	C310776*27	Solid	10/24/2003 08:42
C-8/310136-28 .	C310776*28	Solid	10/24/2003 08:47
C-6/310136-29	C310776*29	Solid	10/24/2003 08:54
C-4/310136-30	C310776*30	Solid	10/24/2003 08:58
C-2/310136-31	C310776*31	Solid	10/24/2003 09:03
C-9/310136-32	C310776*32	Solid	10/24/2003 09:10
C-10/310136-33	C310776*33	Solid	10/24/2003 09:15
C-11/310136-34	C310776*34	Solid	10/24/2003 09:20
C-13/310136-35	C310776*35	Solid	10/24/2003 09:28

Lab Sample ID	Description				Matrix	Date Recei	ived Date S	ampled SDG#
10776-1	T6-3B/310136-01				Solid	10/28/03	10/23/0	3 11:44
10776-2	T3-2/310136-02				Solid	10/28/03	10/23/0	3 12:06
10776-3	T3-4/310136-03				Solid	10/28/03	10/23/0	3 12:12
10776-4	T1W-1/310136-04				Solid	10/28/03	10/23/0	3 12:25
10776-5	T1E-1/310136-05				Solid	10/28/03	10/23/0	3 12:48
			Lab :	Sample IDs				
Parameter		Units	10776-1	10776-2	1077	76-3	10776-4	10776-5
Chloride		ma/ka dw	7300	2700	5800	<b>)</b>	990	2700
Chloride		mg/kg dw	7300	2700	5800		990	2700
Percent Solids			79	86	77 50		80	80
Dilution Facto	or		100	50	50		50	50
Prep Date			10/30/03	10/30/03	-	•	10/30/03	10/30/03
Analysis Date			10/30/03	10/30/03	10/3	30/03	10/30/03	10/30/03
Batch ID			CKS077S	CKS077S	CKSC	)7 <b>7</b> S	CKS077S	CKS077S
Prep Method			SOP 885	SOP 885	SOP	885	SOP 885	SOP 885
Analyst			CR	CR	CR		CR	CR

Lab Sample ID	Description				Matrix	Date Rece	ived Dat	te Sampled	SDG#
10776-6	RS1-3/310136-06				Solid	10/28/03	10,	/23/03 13:45	
10776-7	RS2-2/310136-07				Solid	10/28/03	10,	/23/03 13:57	
10776-8	T2-3/310136-08				Solid	10/28/03	10,	/23/03 14:10	
10776-9	T1/3-3/310136-0	9			Solid	10/28/03	10,	/23/03 14:35	
10776-10	T4-2B/310131-10				Solid	10/28/03	10,	/23/03 15:09	
			Lab 9	Sample IDs					
Parameter		Units	10776-6	10776-7	1077	<b>76-8</b>	10776-9	107	76-10
Chloride	(9251)								
Chloride		mg/kg dw	1300	2800	3600	)	5600	970	כ
Percent Solids	5		92	91	86		81	84	
Dilution Facto	or		50	50	50		50	250	
Prep Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/	30/03
Analysis Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/	30/03
Batch ID			CKS077S	CKS077S	CKSC	77S	CKS077S	CKS	077S
Prep Method			SOP 885	SOP 885	SOP	885	SOP 885	SOP	885
Analyst			CR	CR	CR		CR	CR	



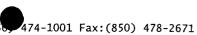
Lab Sample ID	Description				Matrix	Date Rece	rived	Date Sam	pled	SDG#
10776-11	RS3-3/310136-11	-		<del> </del>	Solid	10/28/03		10/23/03	16:41	
10776-12	T4-2/310136-12				Solid	10/28/03		10/23/03	17:00	
10776-13	T5-2/310136-13				Solid	10/28/03	:	10/23/03	17:13	
10776-14	T6-3/310136-14				Solid	10/28/03	;	10/23/03	17:27	
10776-15	F6-2/310136-15				Solid	10/28/03	:	10/23/03	17:39	
			Lab S	Sample 110s						
Parameter		Units	10776-11	10776-12	1077	<b>76-13</b>	10776	-14	10776	-15
Chloride		ma/ka du	6500	11000	6300		8000		2800	
Percent Solids	_	mg/kg dw	88	79	78	,	80		2800 88	
Dilution Facto			100	250	100		100		50	
Prep Date			10/30/03	10/30/03	10/3	80/03	10/30,	/03	10/30	/03
Analysis Date			10/30/03	10/30/03	10/3	0/03	10/30,	/03	10/30	/03
Batch ID			CKS077S	CKS077S	CKSC	77S	CKS07	7S	CKS07	7S
Prep Method			SOP 885	SOP 885	SOP	885	SOP 88	35	SOP 8	85
Analyst			CR	CR	CR		CR		CR	



Lab Sample ID	Description				Matrix	Date Rece	ived Date S	ampled SDG#
10776-16	RS4-3.5/310136-	16			Solid	10/28/03	10/23/0	3 17:52
10776-17	RS5-1/310136-17				Solid	10/28/03	10/23/0	3 18:00
10776-18	DL1-2/310136-18				Solid	10/28/03	10/23/0	3 18:20
10776-19	S9-2/310136-19				Solid	10/28/03	10/23/6	3 18:33
10776-20	S15/310136-20	1			Solid	10/28/03	10/23/0	3 18:47
			Lab S	Sample IDs				
Parameter		Units	10776-16	10776-17	1077	<b>/6-18</b>	10776-19	10776-20
Chloride	(9251)							
Chloride		mg/kg dw	2100	630	1500	1	5400	11000
Percent Solids	5		90	92	83		85	94
Dilution Facto	or		50	50	50		50	250
Prep Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/30/03
Analysis Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/30/03
Batch ID			CKS077S	CKS077S	CKSC	77S	CKS077S	CKS077S
Prep Method			SOP 885	SOP 885	SOP	885	SOP 885	SOP 885
Analyst			CR	CR	CR		CR	CR



Lab Sample ID	Description				Matrix	Date Rece	eived	Date Sam	pled SI	DG#
10776-21	S1-1N/310136-21				Solid	10/28/03	· · · · · · · · · · · · · · · · · · ·	10/23/03	18:55	
10776-22	S85/310136-22				Solid	10/28/03		10/23/03	18:25	
10776-23	DL1-2B/310136-2	3			Solid	10/28/03		10/23/03	19:20	
10776-24	C-1/310136-24				Solid	10/28/03		10/24/03	08:30	
10776-25	C-3/310136-25				Solid	10/28/03		10/24/03	08:33	
			Lab S	Sample IDs						
Parameter		Units	10776-21	10776-22	1077	<b>'6-23</b>	1077	5-24	10776-25	5
Chloride		mg/kg dw	3400	1100	1400	•	1800		4100	
Percent Solids	:	ilig/ kg uw	85	87	82		91		91	
Dilution Facto			50	50	50		50		50	
Prep Date			10/30/03	10/30/03	10/3	0/03	10/30	)/03	10/30/03	3
Analysis Date			10/30/03	10/30/03	10/3	0/03	10/30	0/03	10/30/03	3
Batch ID			CKS078S	CKS078S	CKS0	78S	CKS07	<b>'</b> 8S	CKS078S	
Prep Method			SOP 885	SOP 885	SOP	885	SOP 8	885	SOP 885	
Analyst			CR	CR	CR		CR		CR	



# STL'Pensacola

Lab Sample ID	Description				Matrix	Date Recei	ved Date Sa	empled :	SDG#
10776-26	C-5/310136-26				Solid	10/28/03	10/24/0	3 08:36	
10776-27	C-7/310136-27				Solid	10/28/03	10/24/0	03 08:42	
10776-28	C-8/310136-28				So1id	10/28/03	10/24/0	3 08:47	
10776-29	C-6/310136-29				Solid	10/28/03	10/24/0	3 08:54	
10776-30	C-4/310136-30				Solid	10/28/03	10/24/0	3 08:58	
			Lab S	ample IDs					
Parameter		Units	10776-26	10776-27	1077	<b>76-28</b>	10776-29	10776-3	30
Chloride	(9251)								
Chloride		mg/kg dw	9300	730	2400	,	3900	3000	
Percent Solids	5	9,9	96	95	98		36	95	
Dilution Facto	or		250	50	50	!	50	50	
Prep Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/30/0	)3
Analysis Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/30/0	)3
Batch ID			CKS078S	CKS078S	CKSC	785	CKS078S	CKS0789	5
Prep Method			SOP 885	SOP 885	SOP	885	SOP 885	SOP 885	5
Analyst			CR	CR	CR	(	CR	CR	



Lab Sample ID	Description				Matrix	Date Rece	rived Dat	te Sampled	SDG
10776-31	C-2/310136-31				Solid	10/28/03	10,	/24/03 09:03	
10776-32	C-9/310136-32				Solid	10/28/03	10/	/24/03 09:10	
10776-33	C-10/310136-33				Solid	10/28/03	10/	/24/03 09:15	
10776-34	C-11/310136-34				Solid	10/28/03	10/	/24/03 09:20	
10776-35	C-13/310136-35				Solid	10/28/03	10/	/24/03 09:28	
			Lab S	Sample IDs					
Parameter		Units	10776-31	10776-32	1077	<b>'6-33</b>	10776-34	1077	6-35
Chloride		mg/kg dw	11000	820	3000	•	2600	8900	
Percent Solids	•	ilig/ kg uii	95	95	85	•	97	95	
Dilution Facto			500	50	50		50	500	
Prep Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/3	0/03
Analysis Date			10/30/03	10/30/03	10/3	0/03	10/30/03	10/3	0/03
Batch ID			CKS078S	CKS078S	CKS0	78S	CKS078S	CKS0	78S
Prep Method			SOP 885	SOP 885	SOP	885	SOP 885	SOP	885
Analyst			CR	CR	CR		CR	CR	

# \_\_\_\_

Lab Sample ID	Description			Matrix	Date Re	ceived Date Sa	umpjed 2DG
10776-36	Method Blank			Solid	10/28/0	3	
10776-37	Lab Control Standard % R	ecovery		Solid	10/28/0	3	
10776-38	Matrix Spike % Recovery			Solid	10/28/0	3	
10776-39	Matrix Spike Duplicate %	Recovery		Solid	10/28/0	3	
10776-40	Method Blank			Solid	10/28/0	3	
		Lab 9	Sample IDs				
Parameter	Units	10776-36	10776-37	107	76-38	10776-39	10776-40
Chloride	(9251)						
Chloride	mg/kg dw	<100	100 %	94 9	6	94 %	<100
Dilution Facto	<b>.</b>	50					50
Prep Date		10/30/03					10/30/03
Analysis Date		10/30/03					10/30/03
Batch ID		CKS077S	CKS077S	CKS	)77S	CKS077S	CKS078S
Prep Method	· ·	SOP 885					SOP 885
Analyst		CR					CR



Lab Sample ID	Description			Matrix	Date Received Date Samp	led SDG#
10776-41	Lab Control Standard % Rec	overy		Solid	10/28/03	
10776-42	Matrix Spike % Recovery			Solid	10/28/03	
10776-43	Matrix Spike Duplicate % R	ecovery		Solid	10/28/03	
		Lab S	Sample IDs			
Parameter	Units	10776-41	10776-42	1077	76-43	
Chloride	(9251)					
Chloride Batch ID	%	100 % CKS078S	96 % CKS078S	97 % CKS0		

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

# STL Pensacola PROJECT SAMPLE INSPECTION FORM





Lab	Order #:	C31077	6			Da	ate Received:	10/286	I	
1.	Was there a C	Chain of Custody?	Yes	No*		8.	Were samples chec preservative? (Check requiring preservative (S 917) except VOA vials to	c pH of all H2O TL-PN SOP	Yes	No* N/A
2.	Was Chain of filled out and	Custody properly	Yes	No*		9.	zero headspacel* Is there sufficient ve analysis requested?	olume for (	Yes	No* N/A
3.	Were all samp	les properly	Yes	No⁴		10.	Were samples received Holding Time? (REFER T		Yes	No*
4.	Were samples	received cold? °C: STL-SOP 1055)	Yes	No⁴	N/A	11.	Is Headspace visible diameter in VOA via	> ¼ " in	Yes*	No (N/A
5.	Did samples re	equire splitting or	Yes*(	No		12.	Were Trip Blanks Re	eceived?	Yes	No N/A
	compositing*?	)				13.	If sent, were matrix bottles returned?	spike	Yes	No* (N/A
6.	Were samples proper contain requested?	received in ners for analysis	(Yes)	No⁴		14.	If sent, were T-Hand returned?	dles	Yes	No <sup>+</sup> N7A
7.	Were all samp received intac		Yes	No*		15.	If any issues, how v notified?	vas PM	PSIF [	Verbal C
		Events and Insp le ID/COC disc			nents	(list s	ample IDs/Tests v	where appr	opriat	e):
		ce Delay in		-						
	•	e Split 🛭 Con stainers (ID/Size	•		Reque	ested	by: Client D PN	1 🛘 Other	•	
7. B	roken bottle	s/Test:								
8. Ir	ncorrect pH:									
	est/Matrix/V					<u>.</u>				· · · · · · · · · · · · · · · · · · ·
10.	Out of Holdi	ing Time/Test:						·		<del></del>
	VOA headsp ~size)	Jace > 1/4								
		omments by al	pove nui	mber:				<del></del>	· 	<del></del>
							(USE BACK OF PSIFFOR	ADDITIONAL MOTES	ND COASSA	NITE I PO
•					,		103E BAUK OF FOIFFOR	ADDITIONAL NUTES A	TAD COMME	413/
insp	ected By:	Milks	Date:(	10/08	<del>/3</del> _	Lo	gged By: LLK	Date:_¿	28-0	CT-03

Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.

All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"

All pH results for North Carolina, New York, and other requested samples are to be recorded on the pH log provided (STL-SOP 938).

According to EPA, ¼" of headspace is acceptable in 40 ml vials requiring volatile analysis.



## **Organic Data Qualifiers for Final Report**

B The analyte was detected in the method blank and in the client's sample.

D The result was obtained from a dilution.

E The result exceeds the calibration range.

J Estimated value because the analyte concentration is less than the reporting limit.

M A matrix effect was present.

N Presumptive evidence of a compound. The compound was identified qualitatively or as a Tentatively

Identified Compound.

N/C Not Calculable. Either the sample spiked was > 4X spike concentration, or the compound was diluted out, or

the results of sample duplicate analysis were <RL.

P Second-column or detector confirmation exceeded method criteria. Appropriate value is reported and data

is flagged/qualified as instructed by method/regulation.

U or < or ND The analyte was not detected.

\* The result is not within control limit(s).

### **Inorganic Data Qualifiers for Final Report**

B The analyte was detected in the method blank and in the client's sample.

E The reported value is estimated because of the presence of interference.

J Estimated value because the analyte concentration is less than the reporting limit.

N The spiked sample recovery is not within control limits.

N/C Not Calculable. Either the sample spiked was > 4X spike concentration, or the compound was diluted out, or

the results of sample duplicate analysis were <RL.

U or < or ND The analyte was not detected.

Duplicate analysis not within control limits
 The duplicate injection precision was not met.

S The reported value was determined by the Method of Standard Addition (MSA).

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is

less than 50% of spike absorbance and post spike recovery is greater than or equal to 40%, the sample is

flagged with a "W" and no further action is required.

The Standard Additions Correlation Coefficient is <0.995.</li>

It is permissible to submit an Qut-of-Control Events/Corrective Action form and/or Case Narrative in lieu of using above qualifiers.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation.

NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

### **Abbreviations**

NO Not Detected at or above the STL Pensacola reporting limit (RL)

NS Not Submitted NA Not Applicable

MDL . STL Pensacola Method Detection Limit RL STL Pensacola Reporting Limit

NoMS Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

### Florida Projects Inorganic/Organic

Refer to FL DEP 62-160; Table 4 Data Qualifier Codes. FL DEP Rule 62-160, Table 1 lists the Florida sites which require data qualifiers.

### **Arizona DEQ Projects**

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

#### Severn Trent Laboratories Inc.

**STL Pensacola** • 3355 McLemore Dr • Pensacola, FL 32514 Tel 850 474 1001 Fax 850 484 5315 • www.stl-inc.com

Revised/Effective: 10-24-03



## STL PENSACOLA Certifications, Memberships & Affiliations

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (88-0689) (Environmental)

California Department of Health Services, ELAP Laboratory ID No. I-2510 (Hazardous Waste and Wastewater)

Connecticut Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater)

Florida DOH, NELAP Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)

Florida DEP/DOH CompQAP # 980156

Illinois Environmental Laboratory Accreditation Program (ELAP), NELAP Laboratory ID No. 200041 (Wastewater and Hazardous Waste)

Iowa Department of Natural Resources, Laboratory ID No. 367 (WW & UST)

Kansas Department of Health & Environment, NELAP Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Kentucky NR&EPC, Laboratory ID No. 90043 (Drinking Water)

Louisiana DEQ, LELAP, NELAP Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental)

Maryland DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Massachusetts DEP, Laboratory ID No. M-FL094 (Wastewater)

Michigan Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES ELAP, NELAP Laboratory ID No. 250502 (Drinking Water & Wastewater)

New Jersey DEP&E, NELAP Laboratory ID No. FL006 (Wastewater and Hazardous Waster)

North Carolina DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida)

Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Pennsylvania Department of Environmental Resources, NELAP Laboratory ID No. 68-467 (Drinking Water & Wastewater)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

West Virginia DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater)

AIHA (American Industrial Hygiene Association) Accredited Laboratory, Laboratory ID No. 100704. Participant in AIHA sponsored Laboratory PAT Rounds

EPA ICR (Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031

NFESC (Naval Facilities Engineering Services Center)

USACE (United States Army Corps. of Engineers), MRD

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist|condcert.lst revised 10/15/03

Total Pages of Report

Interlab Chain of Custody

Pinnacle Laboratories, Inc.

Date: 10.22 Page: 1 of S

рғ соитыиева พกห tl-OI Date: Time: **Gross Alpha/Beta** Radium 226+228 1. RELINQUISED BY Uranium (ICP-MS) RECEIVED BY: Base/Neutral Acid Compounds GC/MS Printed Name: Signature Signature 8260 (TCLP 1311) ZHE 2MIS 0728/(0188) ANG Time: [ \$22 rime: &/ Herbicides (615/8151) **ANALYSIS REQUEST** Pesticides/PCB (608/8081/8082) Pinnacle Laboratories, Inc. COD RELINQUISED BY BOD RECEIVED BY: Signature ( Luk. ) Volatile Organics GC/MS (8260) Gen Chemistry: TOC PENSACOLA - STL-FL SAMPLES SENT TO ATEL - MELMORE ATEL - MARION Dissolved Fe, Mn, Pb (6010) U OF MIAMI ATEL - AZ ESL - OR (Slatsle-TAL (S3 Metals) 표 GEL Metals-13 PP List TCLP RCRA (8) Metals Metals (8) RCRA LAB ID 25 TOT 26 Total Number of Containers Received Good Cond./Cold SAMPLE RECEIPT Chain of Custody Seals Jacinta Tenorio TIME MATRIX 1310136-01 10.23 NYY NACO Received Intact? LAB NUMBER: 2709-D Pan American Freeway, NE 2002 X **92** 450 135 1425 3% R COMMENTS: DATE BLANK Network Project Manager: Pinnacle Laboratories, Inc. Albuquerque, NM 87107 Fax (505) 344-4413 1310131-10 40-" 70 - " S 5 118 MSD 1-0% 400 S の名かれ 0 0 PROJECT INFORMATION RUSHII **=** DUE DATE: A WAICH ? = ω SAMPLE 1D RUSH SURČHARGE: STANDARD 13-31 14-2B 15-20 C-253 2-3 505) 344-3777 OC REQUIRED 3 PROJ. NAME: PROJECT #: OC LEVEL:

Date:

Printed Name

Oate 10 (13/5)

Printed Name

WCAS

SPECIAL CERTIFICATION

CLIENT DISCOUNT:

REQUIRED: YES NO

Company

Company

Interlab Chain of Custody

Date: 1027 Page: 2 of

Pinnacle Laboratories, Inc.

SE CONTAINERS

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\$1-0T Date: Date: Gross Alpha/Beta Radium 226+228 1. RELINQUISED BY (CM-901) muins1U RECEIVED BY Base/Neutral Acid Compounds GC/MS Printed Name: Printed Name: Signature: Signature Company 8560 (TCLP 1311) ZHE 2MIS 0728\(0168) ANG 10,27.03 Date: 1013/2 3 Time: STANDS Herbicides (615/8151) **ANALYSIS REQUEST** Time: Pesticides/PCB (608/8081/8082) Pinnacle Laboratories, Inc. Signature: Surfan COD RELINQUISED BY THE NOWSE BOD RECEIVED BY: Volatile Organics GC/MS (8260) rinted Name Printed Name Company Gen Chemistry: TOC PENSACOLA - STL-FL SAMPLES SENT TO ATEL - MELMORE ATEL - MARION Dissolved Fe, Mn, Pb (6010) J OF MIAMI ATEL - AZ ESL - OR Metals-TAL (S3 Metals) WCAS WOHL 표 명 Metals-13 PP List TCLP RCRA (8) Metals Metals (8) RCRA LAB ID Total Number of Containers Received Good Cond./Cold SAMPLE RECEIPT Chain of Custody Seals 1310776 Jacinta Tenorio TIME MATRIX Received Intact? LAB NUMBER: 75 78 R B 2709-D Pan American Freeway, NE (61) 789 88 COMMENTS: 1310136-11/10.23 DATE BLANK Network Project Manager: Pinnacle Laboratories, Inc. Albuquerque, NM 87107 Fax (505) 344-4413 1210136-24 ンパー 17 MSD であれる PROJECT INFORMATION RUSH 20 BB SPECIAL CERTIFICATION S SAMPLE 1D REQUIRED: YES NO RUSH SURCHARGE: STANDARD ر 19 CLIENT DISCOUNT: 505) 344-3777 AC REQUIRE PROJ. NAME: PROJECT #: DUE DATE: 83-3 OC JEVET 57 KSA 89-6 1

Interlab Chain of Custody

Pinnacle Laboratories, Inc.

Date: D. M. Page: Sof

е соитыиека ผพบห p1-01 Gross Alpha/Beta Radium 226+228 Uranium (ICP-MS) SA/DD abruoqmoD bioA lettue GC/MS 8260 (TCLP 1311) ZHE 2MI2 0728\(0168) AN9 Herbicides (615/8151) ANALYSIS REQUEST Pesticides/PCB (608/8081/8082) COD BOD Volatile Organics GC/MS (8260) Gen Chemistry: **JO1** × Dissolved Fe, Mn, Pb (6010) Metals-TAL (23 Metals) Metals-13 PP List TCLP RCRA (8) Metals Metals (8) RCRA TIME | MATRIX LABID Jacinta Tenorio P. P. C. 1920 2709-D Pan American Freeway, NE 2836 1/480 -24 rul24 b830 6842 88 -22 10123 DATE 10/2 Network Project Manager: Pinnacle Laboratories, Inc. Albuquerque, NM 87107 (505) 344-3777 Fax (505) 344-4413 7 250 -25 310136-2 SAMPLE ID 310136 としかの なが 3 515

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISED BY: 1.	1. RELINQUISED BY: 2.
PROJECT #: 3,0,2 b	Total Number of Containers	PENSACOLA - STL-FL	Signaturé: / / Time; W	Signature: Time:
PROJ. NAME: -ARATTO	Chain of Custody Seals	ESL - OR	Miller 18	
QC LEVEL: 81D. IV	Received Intact?	ATEL - AZ	Printed Name/// Date:	Printed Name: Date:
CC REQUIRED MS MSD BL	BLANK Received Good Cond./Cold	ATEL - MARION	PM ( Shark 10.27. 3)	
TAT: STANDARD RUSH!!	LAB NUMBER:	ATEL - MELMORE	Pinnacle Laboratories, Inc.	Company
		EHL	RECEIVED BY: 1.	RECEIVED BY: 2.
DUE DATE: COM	COMMENTS:	GEL	Signature 1/1 Time:	Signature: Time:
RUSH SURCHARGE:		U OF MIAM!	(Willedampa) (000	
CLIENT DISCOUNT:		WCAS	Printed Name: Date:	Printed Name: Date:
SPECIAL CERTIFICATION		WOHL	(0/136)	
REQUIRED: YES NO			Company STAND	Сотрапу

Interlab Chain of Custody

Date: 16.27 Page: 4 of

Pinnacle Laboratories, Inc.

	Radium 226+228 Gross Alpha/Beta Humber of Containers					Í						2.	Time:		Date:		2.	Time:	Date:	
	Base/Neufral Acid Compounds GC/MS (625/8270) Uranium (ICP-MS)											RELINQUISED BY:	ture:		Printed Name:		Company RECEIVED BY:	lure:	Printed Name:	any
	8560 (TCLP 1311) ZHE											REL	Signature		Printe	_	Company	Signature	Printec	Сотрапу
	Herbicides (615/8151) PNA (8310)/8270 SIMS	-		<u> </u>	-		-	-	-							2	-	2	٠ اد	2 3
ANALYSIS REQUEST	Pesticides/PCB (608/8081/8082) Herbicides (616/8161)	<b>├</b>	-		-			-	-	$\vdash$	$\dashv$		1.00 E	.	Date:			Time:	Date:	5/2/01
REG	COD		<del>                                     </del>	-	-			<del> </del>			1		-	2	٠ ۵	7	ED BY:	3	,   a	
SIS	BOD										$\exists$	D BY	1	l	_	米	atorie ≺:	3	,	
\A	Volatile Organics GC/MS (8260)											RELINQUISED BY	1	$\downarrow$	<del>6 -</del>	<u>ک</u> ک	RECEIVED BY:	Signature: M. S.	j j j	
F			<u> </u>									LING	ature		Page N		RECEIV	ature;	Printed Name	Сотрапу
			-	_	-			_			_	RE	Sign	4	<u>ال</u> ع	7	7 R	Sign	Print	Cog
	Gen Chemistry:	_	-		ļ								1		+	+	-	$\vdash \vdash$	$\dashv$	
	2007 Je 33-5. J	7	\ <u>\</u>	X	Y.	×						Ö	STL-FL			,	ابد			
1	Dissolved Fe, Mn, Pb (6010)	-			_					$\vdash$	$\dashv$	SENT					S S	_	_	
1	Metals-TAL (23 Metals)	-	-		-			-			$\dashv$	SAMPLES SENT TO	PENSACOLA	-OR	7	ATEL - MARION	* MELMOKE	GEL	ינוא נס	
	Netals-13 PP List	<del> </del>						-			$\dashv$	SAME	PENS	ESL.	ATEL - AZ	A E	표표	GEL	WCAS	WOHL
	TCLP RCRA (8) Metals											Ť			1				1-51	
	Metals (8) RCRA																			
orio	76 IABID	~										SAMPLE RECEIPT	Total Number of Containers	Seals		ond./Cold				
Jacinta Tenorio	NE 310776	245					<b>)</b>					SAMPLE	mber of C	Chain of Custody Seals	Received Intact?	Received Good Cond./Cold	MULK:			
Jaci	ay, NE	090	800	85.X	22	366							Total Nu	Chain of	Receive	Receive	LAB NOMBER			
anager:	Inc. Freew? 3 DATE	10.24 0902	-			<u>-</u> /					 					BLANK		COMMENTS:		
Network Project Manager:	Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, NM 87107 (505) 344-3777 Fax (505) 344-4413	2 MIZL-31	١.	1-33	12-34	W -35						PROJECT INFORMATION	3 10136	,	S(0) IV	W W	DAKIN KUSHII		JUNT:	TIFICATION YES NO
DEPOSITION ST	Pinnacle 2709-D F Albuquer (505) 344-377	6 / 63		1019	1 3	C-13/						PROJEC	PROJECT #:	PROJ. NAME:	QC LEVEL:	Μ̈́	TAT: STANDARD	DUE DATE:	KUSH SURCHARGE: CLIENT DISCOUNT:	SPECIAL CERTIFICATION REQUIRED: YES NO

ANAGE Pinnacle Laboratories Inc.

DATE: 10 (23 63

CHAIN OF CUSTODY

310136

PLI Accession #:

CONTAINERS **NOMBER** 1 or 1 via 10/24/03 8 તાં Pinnacle Laboratories Inc Metals: Mond Date: RCRA Metals by TCLP (Method1311) RECEIVED BY: (LAB) RELINQUISHED BY RCRA Metals (8) Target Analyte List Metals (23) Priority Pollutant Metals (13) Printed Nam 2.25.2 Chloride Signature **C**ompany General Chemistry: Polynuclear Aromatics (610/8310/8270-SIMS) Base/Neutral/Acid Compounds GC/MS (625/8270) 10/24/63 Time: (\$50 Herbicides (615/8151) REQUES Pesticides/PCB (608/8081/8082) Date: Date: See Reverse side (Force Majeure) 8260 (Landfill) Volatile Organics RELINQUISHED BY: 8260 (CUST) Volatile Organics **ANALYSIS** RECEIVED BY Konad Clark 8260 (TCL) Volatile Organics Printed Name Printed Name Signature:/ Company: Signature: Conpany: 204.1 EDB □/DBCP □ (TSUS) 1508 (NORMAL) 8021 (HALO) □ DISSOLVED PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS □ OTHER 8021 (EDX) 8021 (TCL) 8021 (X3TB) 1208) □ AZ 8021 (BTEX)/8015 (Gasoline) MTBE ☐ TOTAL (M8015) Gas/Purge & Trap CI SDWA WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE METALS (MOD.8015) Diesel/Direct Inject Petroleum Hydrocarbons (418.1) TRPH □72hr\* N D MATRIX LABI.D. 0 Su. R. 820 (RUSH) □24hr\* □48hr\*
\*NOT AVAILABLE ON ALL ANALYSES 27110 METHANOL PRESERVATION CERTIFICATION REQUIRED OCD Attn: Martyne Kieling Ŕ Albuquerance NOM 1220 South St Francis Drive 1206 1435 1225 **学だ** 1345 1357 1509 81505 0H TIME 7171 6501 Americas Parkway NE COMMENTS 王 10/23/03 DATE <u>ج</u> 2 PROJECT MANAGER: JOE Tracy Ses 246-2600 one fack Square V/N/N/ 505 246-1600 N NOCD PROJECT INFORMATION Sarta SAMPLE RECEIPT SAMPLEID SHIPPED VIA: Delige Araho RECEIVED INTACT CUSTODY SEALS NO CONTAINERS T1/3-3 T4-28 RS2-2 RS1-3 12-3 16-38 COMPANY: 3:7 COMPANY: Tie - 1 ADDRESS: ADDRESS: 13.4 BLUE ICE/ICE T MI PROJ. NAME: BILL TO: PHONE PROJ. NO.: FAX P.O. NO.

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

CHAIN OF CUSTODY

PLI Accession #:

3/0/36

NUMBER CONTAINERS Metals: RCRA Metals by TCLP (Method1311) RCRA Metals (8) Target Analyte List Metals (23) Priority Pollutant Metals (13) General Chemistry: Polynuclear Aromatics (610/8310/8270-SIMS) Base/Neutral/Acid Compounds GC/MS (625/8270) Herbicides (615/8151) ANALYSIS REQUES Pesticides/PCB (608/8081/8082) 8260 (Landfill) Volatile Organics 8260 (CUST) Volatile Organics 8260 (TCL) Volatile Organics PIORIAE 2'525 204.1 EDB □/DBCP □ (TSUO) 1508 (OJAH) 1208 8021 (EDX) 8021 (TCL) 8021 (BTEX) DMTBE DTMB 3021 (BTEX)/8015 (Gasoline) 1208 (M8015) Gas/Purge & Trap WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE (MOD.8015) Diesel/Direct Inject Petroleum Hydrocarbons (418.1) TRPH MATRIX LABI.D 87/10 55.4 820 OCD Athy Martine Kieling Albusterave NM 1220 South St Francis Drive 1843 1752 280 **E** 177 13% 83 0781 1833 5501 Americas Parlamen NE 87505 10/23/03 DATE 37.38 505 ZHL - 1400 PROJECT MANAGER: JOE Tracy One Parksquare MMOCD るないと Sunt 500 SAMPLE ID 854-35 P55-1 R53-3 2-65 51-15 56-2 14-2 15-2 16-3 COMPANY: COMPANY: ADDRESS: ADDRESS: BILL TO: PHONE FAX:

SHADED AREAS ARE FOR LAB USE ONLY.

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						RELINGUISHED BY:	Signature: Time:		Printed Name: Date:	Company:		RECEIVED BY: (LAB)	1	MANGER HUMO 1600	Punted Name. Thuy of 10/2	Pinnacle Laboratories Inc.	
			×,			RELINQUISHED BY: 1.	Signature: Time:		Konso Clark to /24/03	Company:	See Reverse side (Force Majeure)	RECEIVED BY:	Signature: Time:		Printed Name: Date:	Сотраму:	1111 1 4 th 🔨 4 th 4 1 mm.tr
<>>		×	X X	✓	EASE INQUIRE.	REQUIRED FOR RUSH PROJECTS	* 🗅 1 WEEK (NORMAL) 🔏	CI SDWA CI AZ CI OTHER	METALS DIOTAL DISSOLVED								" 7 OLL LEO (19717 - TTTP NAL ALLO F "
132	002	87   0781	1833   <b>[6</b>	1843 4 20	N ADDITIONAL SURCHARGE - PLEAS	PRIOR AUTHORIZATION IS R	(RUSH) □24hr* □48hr* □72hr* not available on all analyses	CERTIFICATION REQUIRED   D NM	METHANOL PRESERVATION 🗖	COMMENTS:						6.4°	n American Freewou NE - Albumanana Naw Maxim
157-30	K35~1	DLI-2	2-65	51-,5	WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLE	PROJECT INFORMATION	PROJ. NO.:	PROJ. NAME: Arahi	P.O. NO.:	SHIPPED VIA: Delivered	CAMPIE DECEIPT		NO CONTAINERS	CUSTODY SEALS Y/N(NA)	RECEIVED INTACT VES	BLUE IOPIOE) 750	IIIN 2003 PI Imm Financia Laboratoriae Inc • 2700-Dan Amarican Erasurus ME • Menunicum Neur Menunicum costor - Israe Laboratoriae 1 aboratoriae Inc. 1 and 1
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PINNAGLE LABORATORES

CHAIN OF CUSTODY

310136

PLI Accession #:

NUMBER **CONTAINERS** Metals: RCRA Metals by TCLP (Method1311) RCRA Metals (8) Target Analyte List Metals (23) Priority Pollutant Metals (13) General Chemistry: Polynuclear Aromatics (610/8310/8270-SIMS) Base/Neutral/Acid Compounds GC/MS (625/8270) Herbicides (615/8151) ANALYSIS REQUEST Pesticides/PCB (608/8081/8082) 8260 (Landfill) Volatile Organics 8260 (CUST) Volatile Organics 8260 (Full) Volatile Organics DPBMS 8260 (TCL) Volatile Organics Chloride Z1528 204.1 EDB □/DBCP □ 8021 (CUST) (OJAH) 1208 8021 (EDX) 9 8021 (TCL) (8021 (BTEX) DMTBE CITMB CPCE 8021 (BTEX)/8015 (Gasoline) 1S08 (M8015) Gas/Purge & Trap WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUÍRE (MOD.8015) Diesel/Direct Inject Petroleum Hydrocarbons (418.1) TRPH MATRIX LABI.D. 7 ۶ Ž St Francis Drive 98380 258) | Edecator (825 Albranergue 0847 0854 TIME 833 0836 2480 10/24/03/0830 10/23/03 1920 Partury NE OCD ATA: Markyne 10/23/63 DATE 2 PROJECT MANAGER: JOE Tracky 246. 2680 505 246-1600 6501 Americas One Religiouse 1220 South NMCC D SAMPLEID DL1-28 N1-18 COMPANY: COMPANY: 58-15 ADDRESS: ADDRESS: 6.3 C-1 C-5 BILL TO: PHONE FΑΧ

SHADED AREAS ARE FOR LAB USE ONLY.

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IMC	\ h-D	)	<b>№ 880</b>	30	<del>/</del>	*		×					
 ))	WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PL	AN ADDIT	IONAL SURCHARG	E - PLEASE	EASE INQUÍRE.	T.							
N	PROJECT INFORMATION	PRI	PRIOR AUTHORIZATION!		S REQUIRED FOR RUSH PROJECTS	RUSH	PROJECTS	RELINQUISHED BY:	SHED BY:	<del>-</del>	RELINOL	RELINQUISHED BY:	2
I M	PROJ. NO.:	(RUSH)	(RUSH) C24hr* C148hr* *NOT AVAILABLE ON ALL ANALYSES	□72hr* SES	□ 1 WEEK		(NORMAL)	Signature:	Time:	me: الاعکار	Signature:	Time:	
ЯC	PROJ. NAME: Acake	CERTIF	CERTIFICATION REQUIRED	N D	D SDWA	□ AZ	п отнея	Printed Name	A Ste	2/ 0	Depried Money		
 3 E	P.O. NO.:	METHA	METHANOL PRESERVATION	₽	METALS [] 1	□ TOTAL	□ DISSOLVED	Konnal Clark		50/12/01		e. Dale:	
SIH	SHIPPED VIA: Delivered	COMMENTS:	ENTS:					Company:			Company		
T	CAMPIE DECEIOT	I va						See Reverse side (Force Majeure)	Force Majeure	()			
7		বস্থা হয়ে						RECEIVED BY	) BY :	7	RECEIVE	RECEIVED BY: (LAB)	2.
113	NO CONTAINERS	25. 3						Signature:	Time:	i	Manature:	J. Jime: 1100	7.7.7
3	CUSTODY SEALS	22.1									JUMOCUM.	Lommo 11	8 5.
SA		1.00						Printed Name:	Date:		Finted Name	MACINE MICH Date.	24 3
<b>3</b> 76	BLUE ICEMCE) 6,3%	6.4	į			i		Company:			Pinnac	Pinnacle Laboratories Inc.	mc.
	List 2003 PL The Phradial Inhustrias Inc. • 2704.0 Ban American Fraeusu NE • diburuserus Mau Mavico 87107 • 1665 044 9775 - Exc. 1605 044 4410 - Exc. 1810 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	an Amarican	Froeway NF • Albumprous	Now Mavins	17107 . IENES 944 97	77 - Enu (En	E) 044 4440 - C	TIN 1 AD 8 ATT VICT					

American I		nt <b>el</b> Netwo	ork (NM)	), Inc.	• CH		CUSTODY uation Sheet)		
CLIENT: Inter	riq				PARAMETERS	PAGE 4 OF 4			
P.O. NUMBER				77/20/		7	OF		
AEN(NM) Accession #:	310136			2 /2/5 2 /2/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5					
CLIENT SAMPLE ID	LAB ID	DATE AND TIME	MATRIX		BOTTL	E TYPE & NO.	NET PRICE		
C-Z	3	10/24/03 090	3 Soil	X					
C-9	32	1 0910		X					
C-10	33	0915		X					
C-11	34	092		X					
C-13	35	1 092		X					
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	9								
SAMPLES RELINQUISHE		10/24/03 1550		SHED BY (SIGNATURE)		EMARKS ON SAMP Bottle Intact Preserved Chilled	LE RECEIPT  Custody Seals Seals Infact See Remarks		
SAMPLES RECEIVED BY		DATE AND TIME	SAMPLES RECEIVED  MUNICIPAL	BY (SIGNATURE) Aum 0	TO KEEP IT	EMARKS ON SAMP  Bottle Intact Preserved Chilled	LE RECEIPT  Custody Seals  Seals Intact  See Remarks		

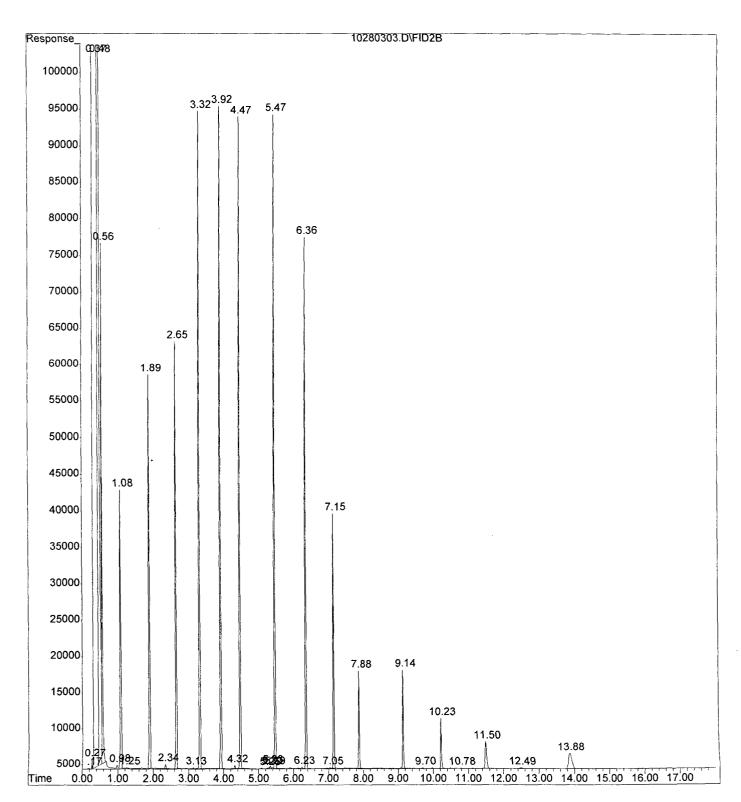
DISTRIBUTION: White - AEN (NM), Canary - Originator

File : C:\HPCHEM\2\DATA\102803F\10280303.D

Operator : VPH

Acquired: 28 Oct 2003 12:37 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: RT STD
Misc Info : GC4-118-01



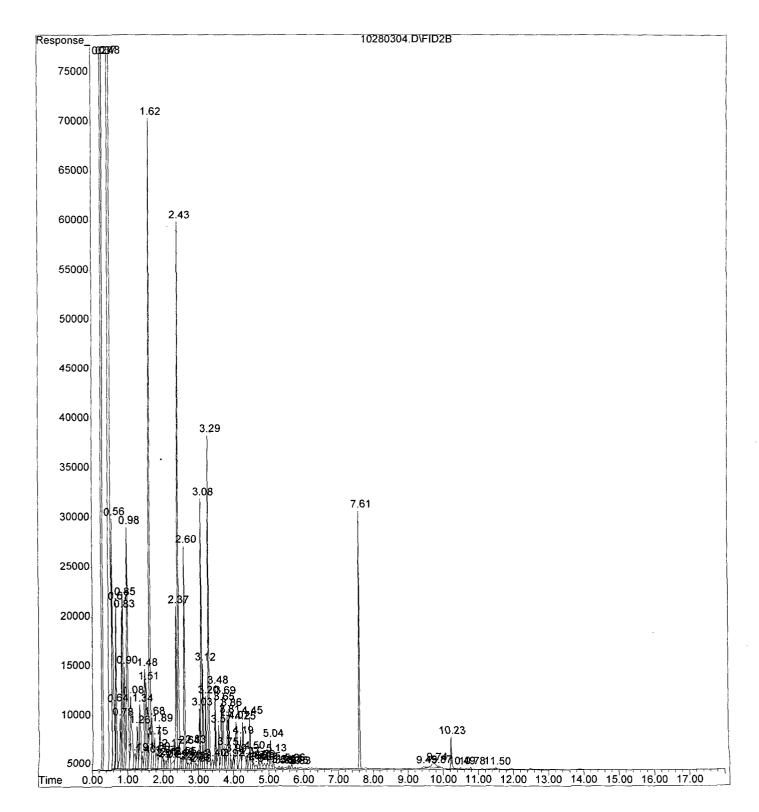
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Operator : VPH

Acquired : 28 Oct 2003 13:05 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: GRO CCV-200PPB Misc Info : GC4-121-10



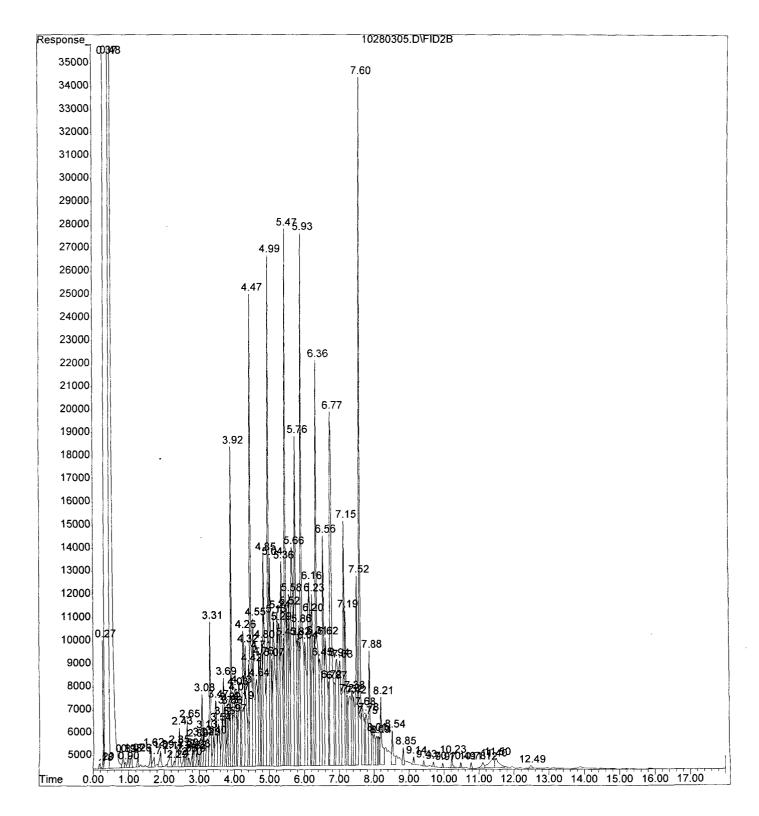
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Operator : VPH

Acquired : 28 Oct 2003 13:33 using AcqMethod TPH1027.M

Instrument: FID-1

Sample Name: DRO CCV-200PPB Misc Info : GC4-121-1-09



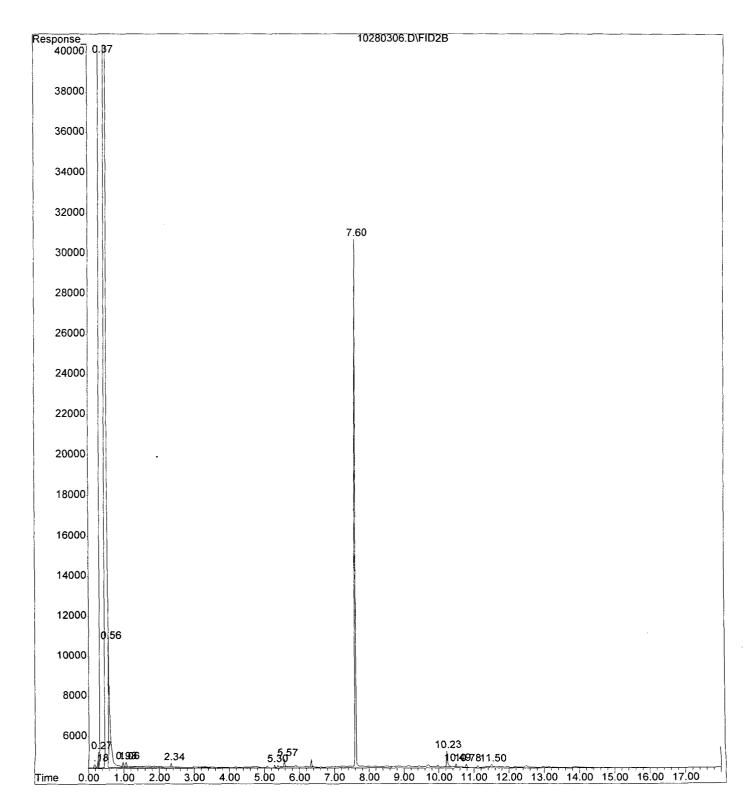
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Operator : VPH

Acquired: 28 Oct 2003 14:01 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: SRB 1027

Misc Info : 10G/10ML 10/27



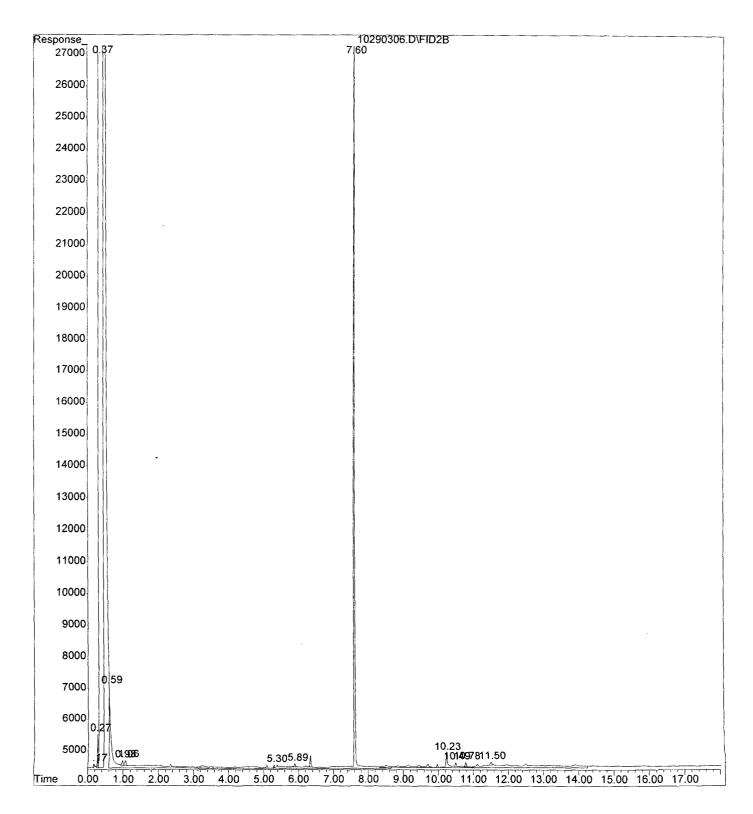
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Operator : VPH

Acquired : 29 Oct 2003 11:36 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: SRB 1028

Misc Info : 10G/10ML 10/28



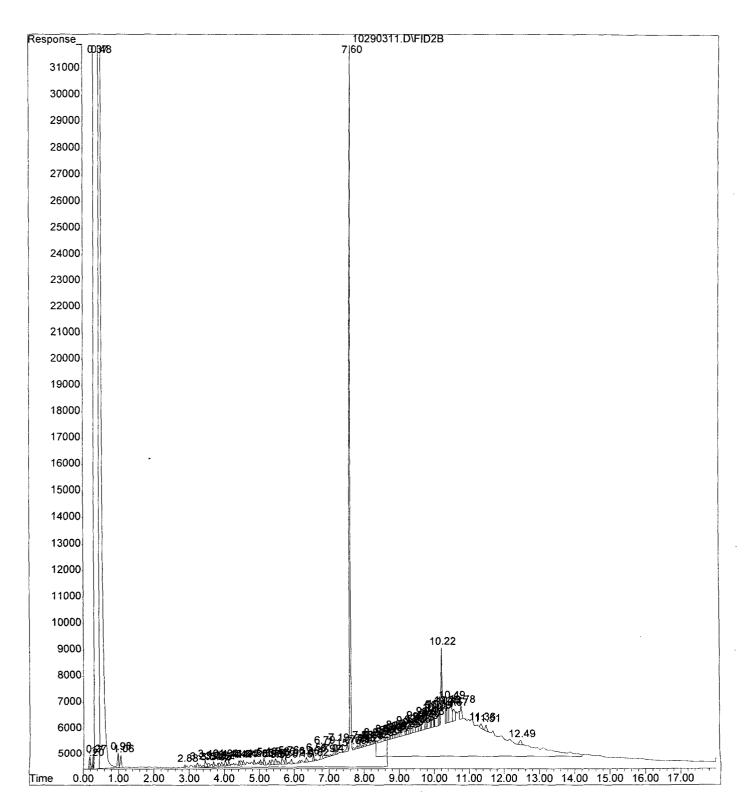
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Operator : VPH

Acquired : 29 Oct 2003 13:57 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-01 RR Misc Info : 10G/10ML 10/27



File : C:\HPCHEM\2\DATA\102903F\10290317.D

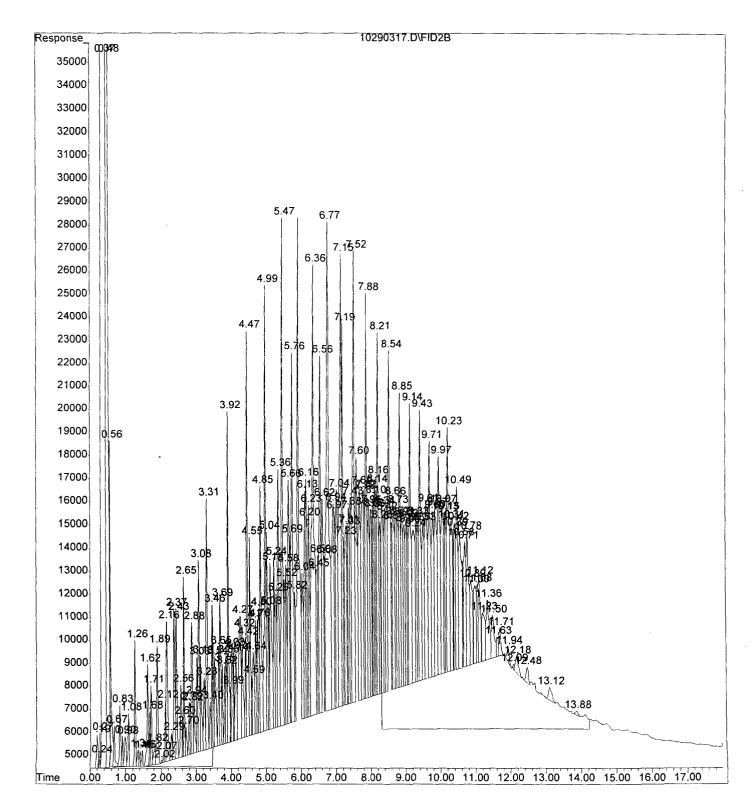
Operator : VPH

Acquired : 29 Oct 2003 16:45 using AcqMethod TPH1027.M

Instrument: FID-1

Sample Name: 310136-02 RR 5X

Misc Info : 10G/10ML 10/27 200UL/1ML



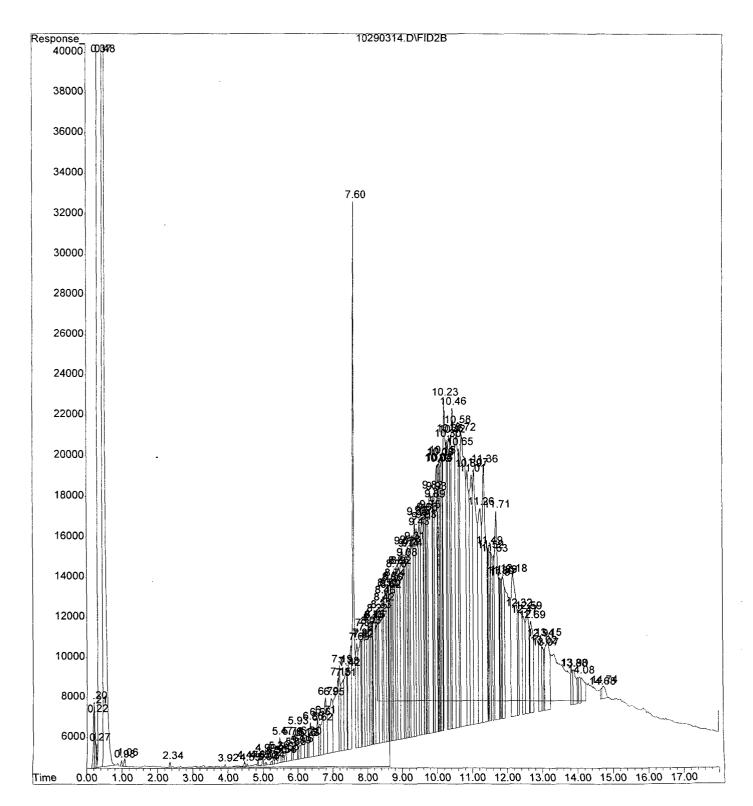
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Operator : VPH

Acquired : 29 Oct 2003 15:21 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-03 RR Misc Info : 10G/10ML 10/27



File : C:\HPCHEM\2\DATA\102903F\10290319.D

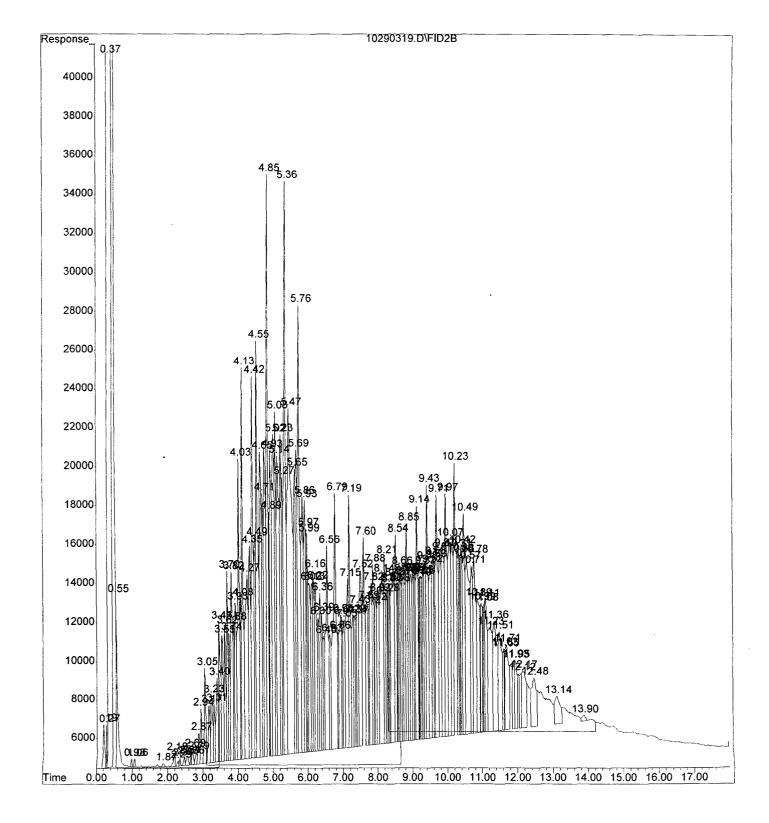
Operator : VPH

Acquired: 29 Oct 2003 17:42 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-04 RR 5X

Misc Info : 10G/10ML 10/27 200UL/1ML



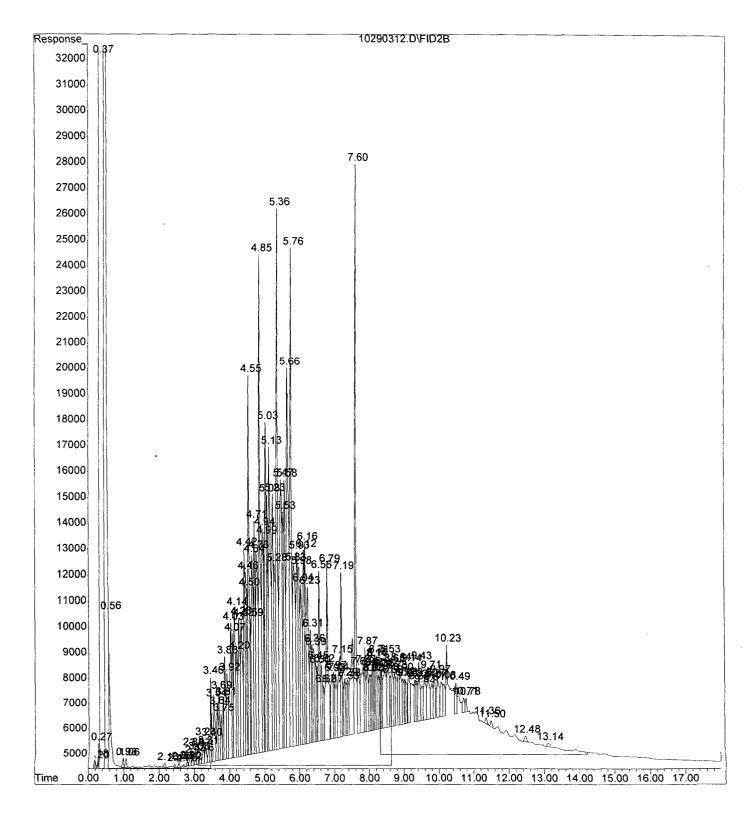
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Operator : VPH

Acquired : 29 Oct 2003 14:25 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-05 RR Misc Info : 10G/10ML 10/27

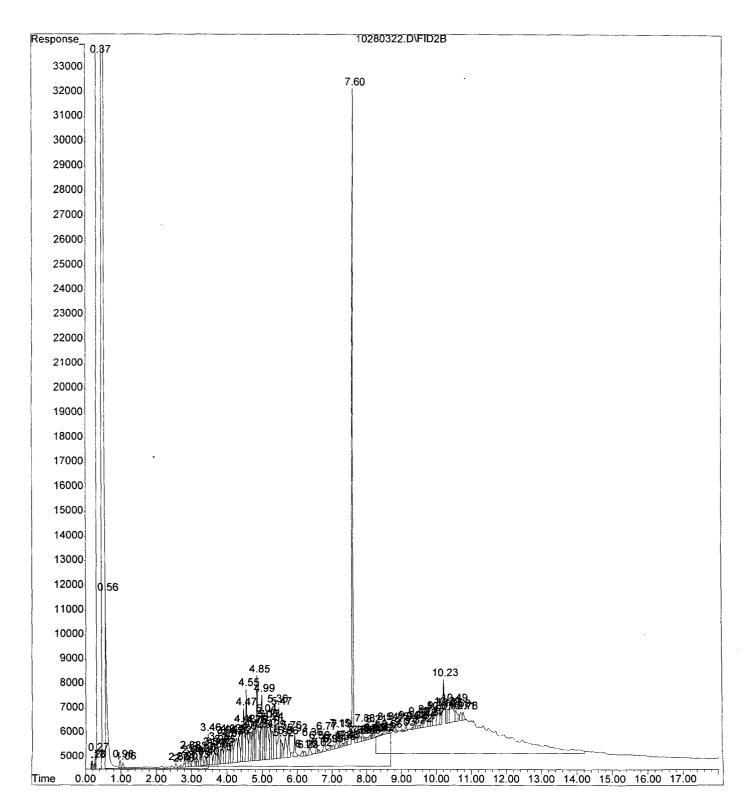


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Operator : VPH

Acquired : 28 Oct 2003 21:30 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-06
Misc Info : 10G/10ML 10/27



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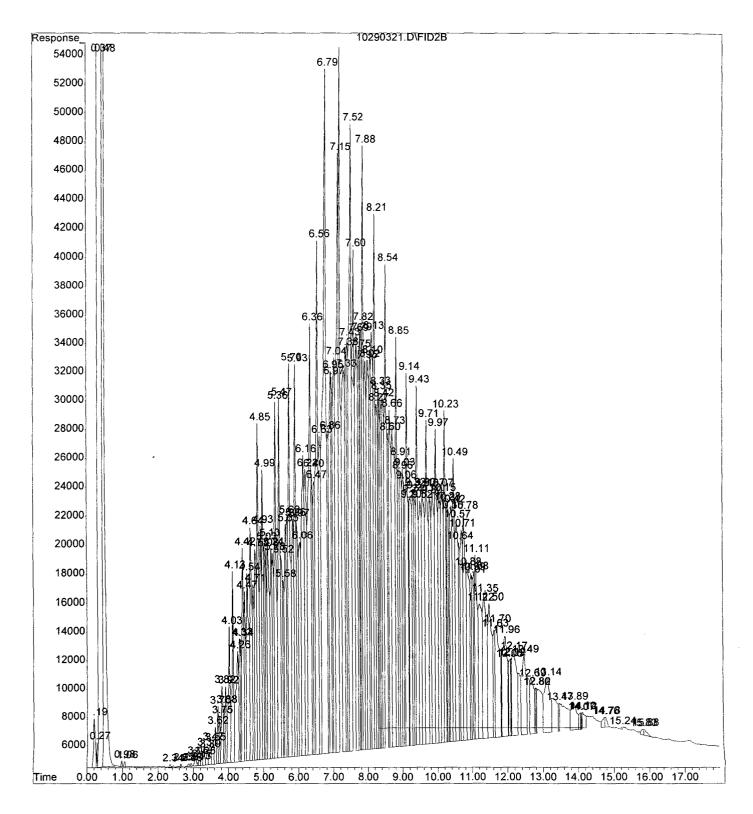
Operator : VPH

Acquired : 29 Oct 2003 18:38 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-07 RR 2X

Misc Info : 10G/10ML 10/27 500UL/1ML



File : C:\HPCHEM\2\DATA\102803F\10280332.D

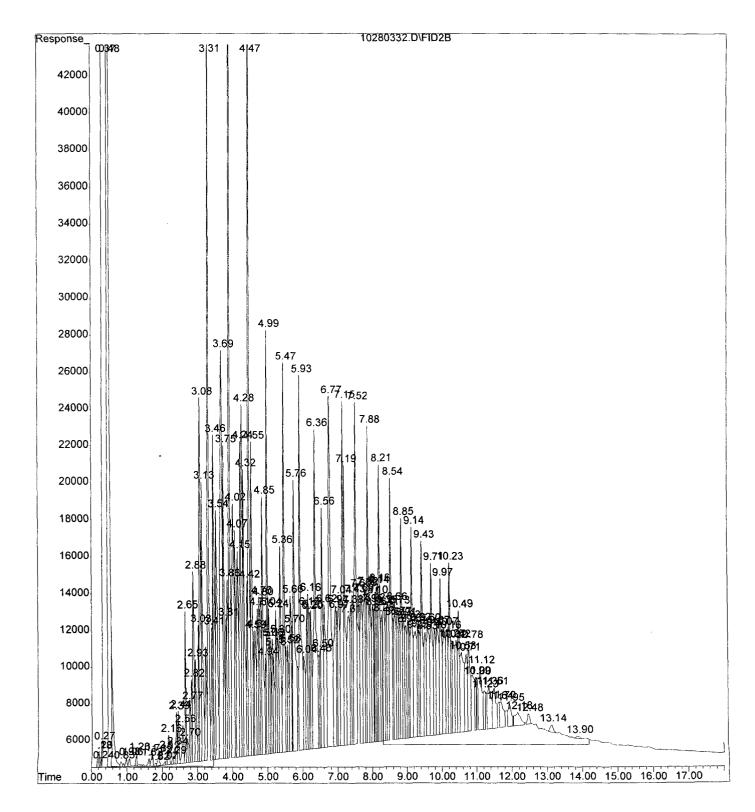
Operator : VPH

Acquired : 29 Oct 2003 2:14 using AcqMethod TPH1027.M

Instrument: FID-1

Sample Name: 310136-08 10X

Misc Info : 10G/10ML 10/27 100UL/1ML



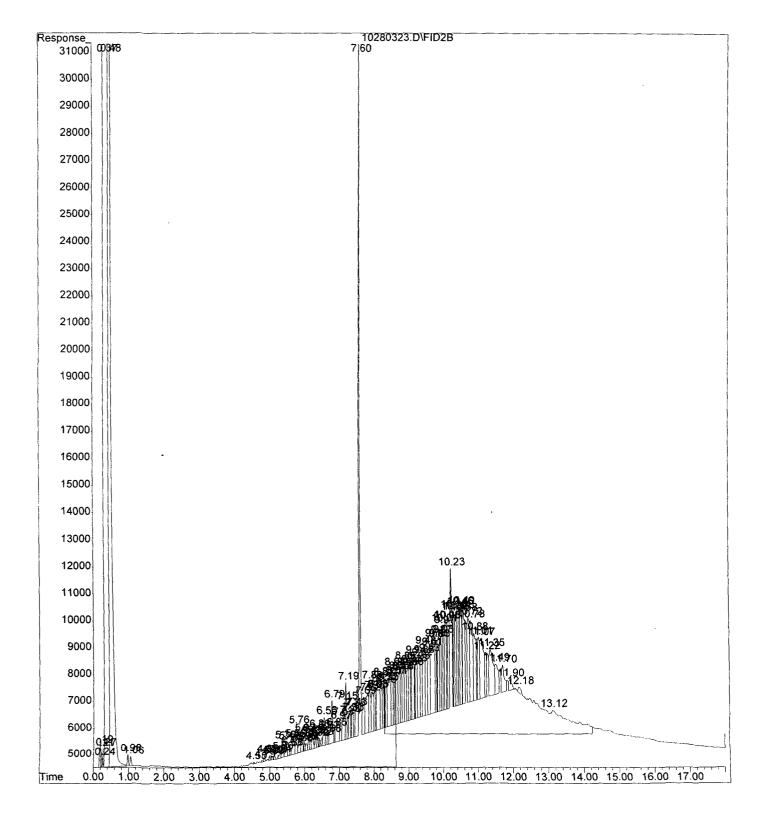
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Operator : VPH

Acquired : 28 Oct 2003 21:58 using AcqMethod TPH1027.M

Instrument: FID-1
Sample Name: 310136-09

Misc Info : 10G/10ML 10/27

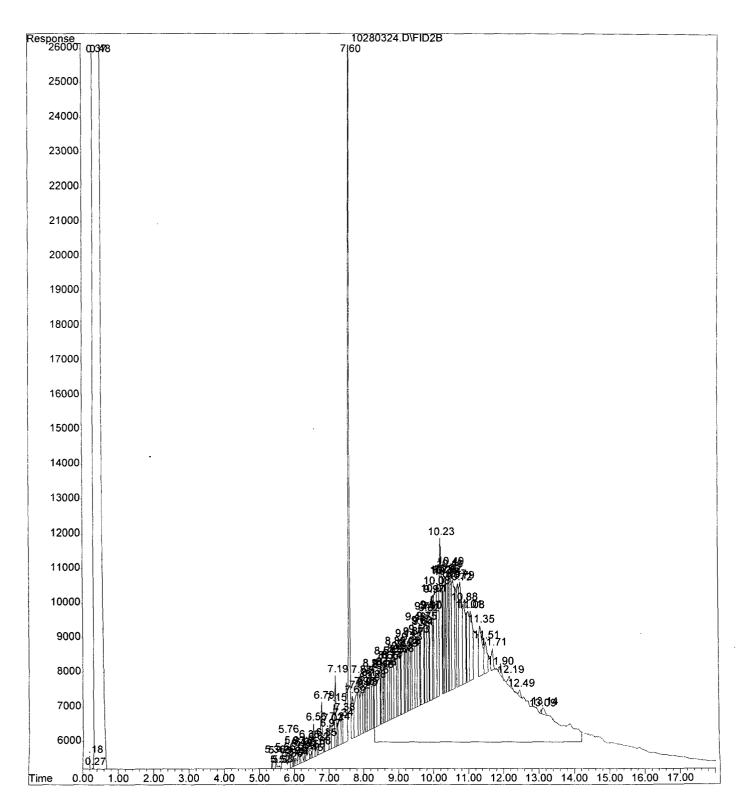


File : C:\HPCHEM\2\DATA\102803F\10280324.D

Operator : VPH

Acquired: 28 Oct 2003 22:27 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-10
Misc Info : 10G/10ML 10/27



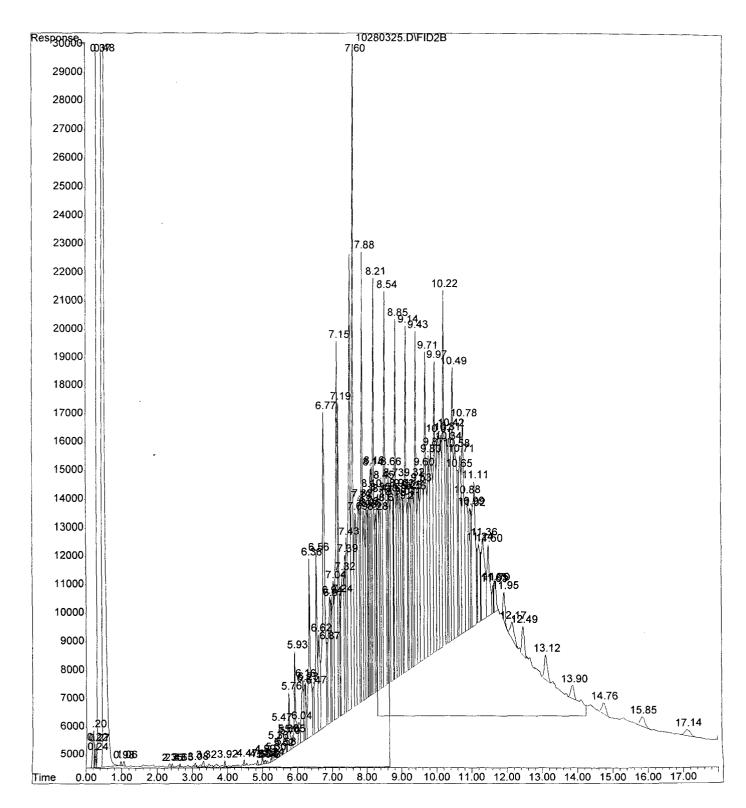
: C:\HPCHEM\2\DATA\102803F\10280325.D File

Operator : VPH

Acquired : 28 Oct 2003 22:55 using AcqMethod TPH1027.M

Instrument : FID-1 Sample Name: 310136-11

Misc Info : 10G/10ML 10/27

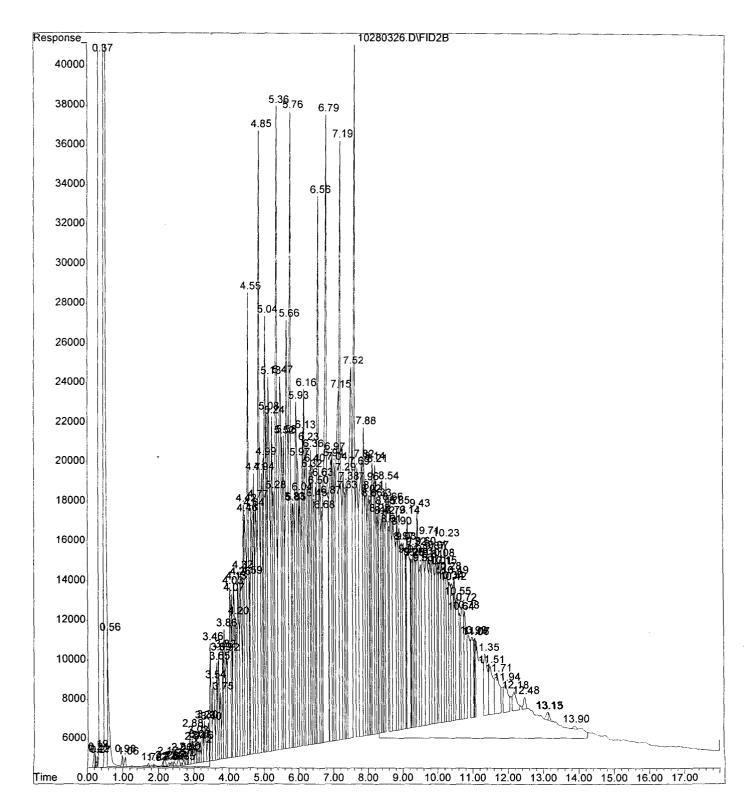


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Operator : VPH

Acquired : 28 Oct 2003 23:23 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-12
Misc Info : 10G/10ML 10/27



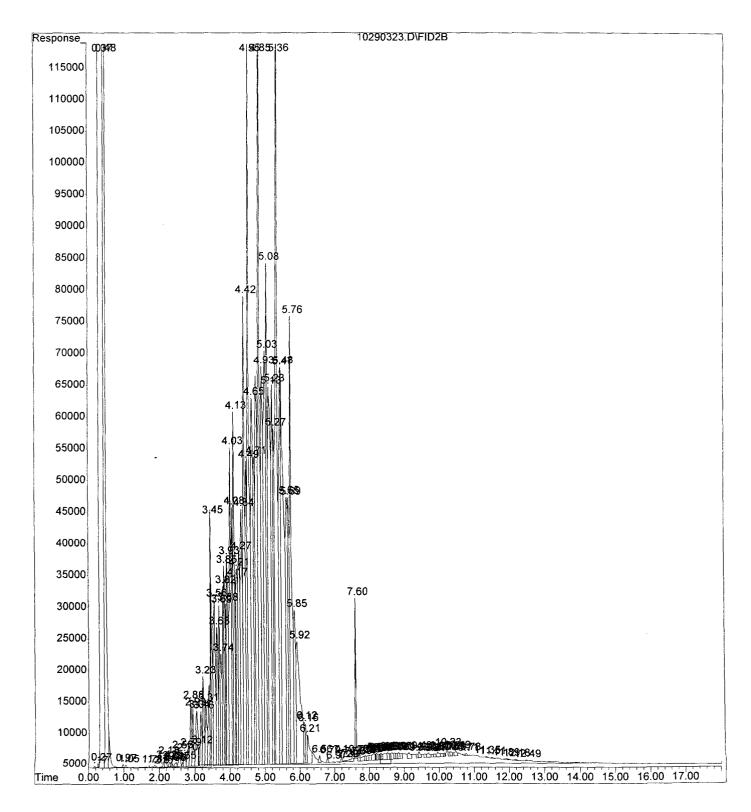
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Operator : VPH

Acquired : 29 Oct 2003 19:35 using AcqMethod TPH1027.M

Instrument : FID-1 Sample Name: 310136-13

Misc Info : 10G/10ML 10/28



File

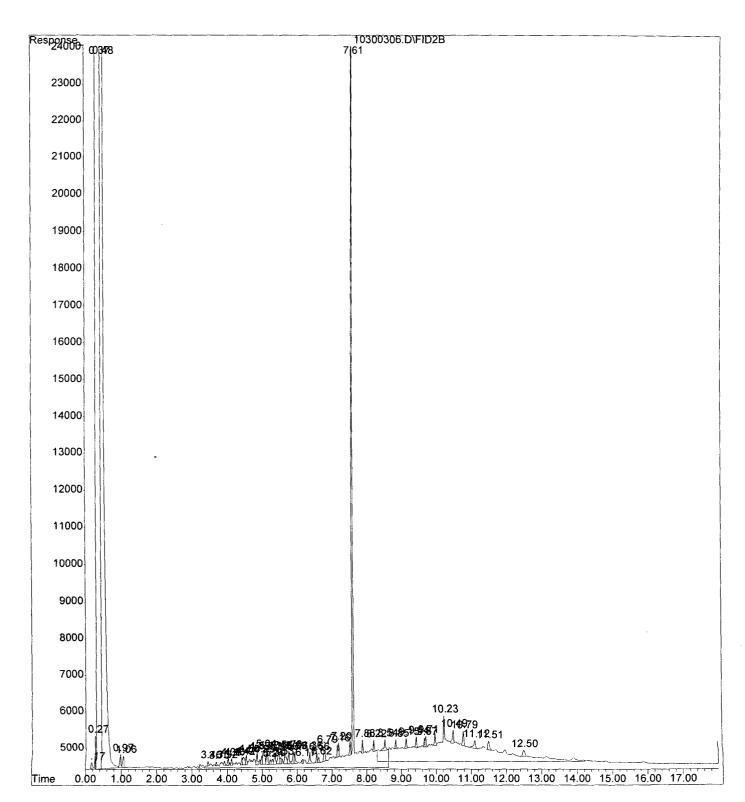
: C:\HPCHEM\2\DATA\103003F\10300306.D

Operator : VPH

Acquired : 30 Oct 2003 10:59 using AcqMethod TPH1027.M

Instrument : FID-1 Sample Name: 310136-14

Misc Info : 10G/10ML 10/28



File : C:\HPCHEM\2\DATA\102903F\10290339.D

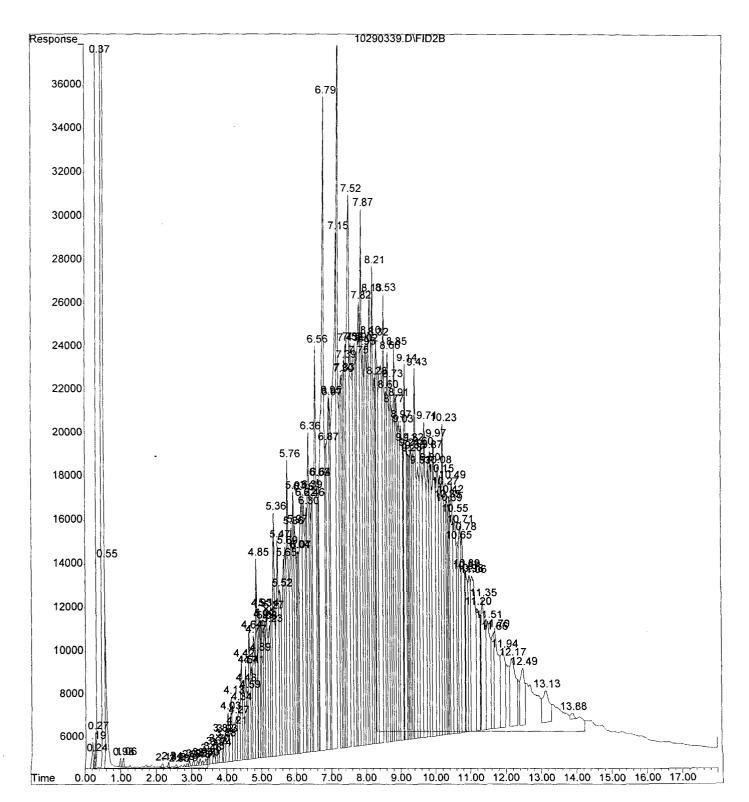
Operator : VPH

Acquired: 30 Oct 2003 3:05 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-15 20X

Misc Info : 10G/10ML 10/28 150UL/1ML



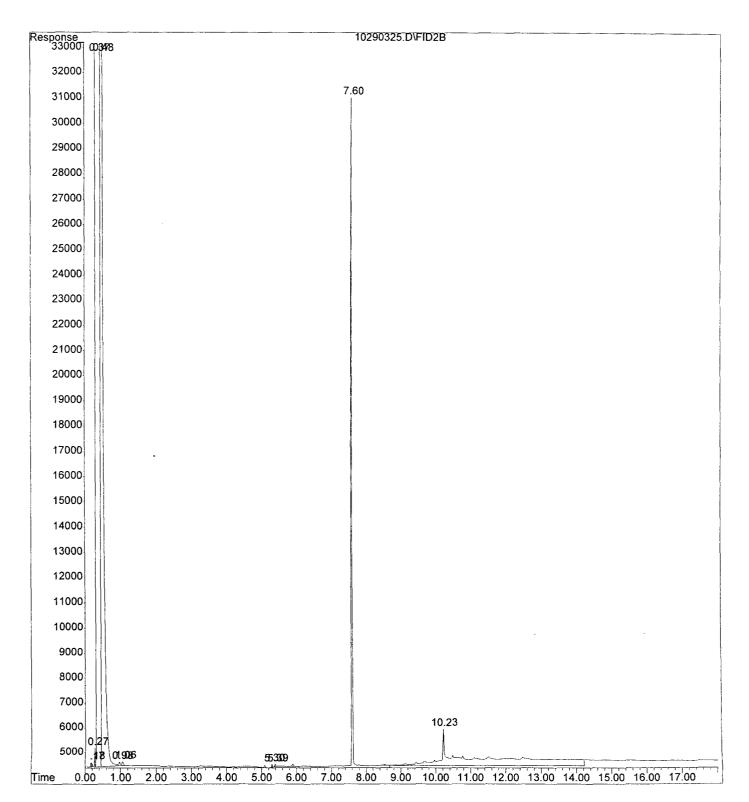
File : C:\HPCHEM\2\DATA\102903F\10290325.D

Operator : VPH

Acquired : 29 Oct 2003 20:31 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-16

Misc Info : 10G/10ML 10/28



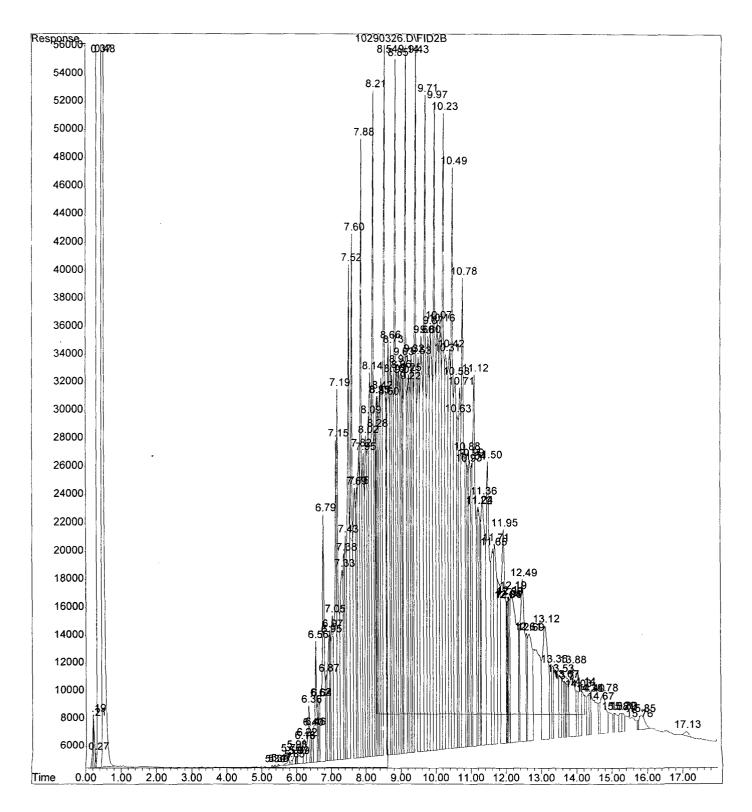
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Operator : VPH

Acquired : 29 Oct 2003 20:59 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-17

Misc Info : 10G/10ML 10/28

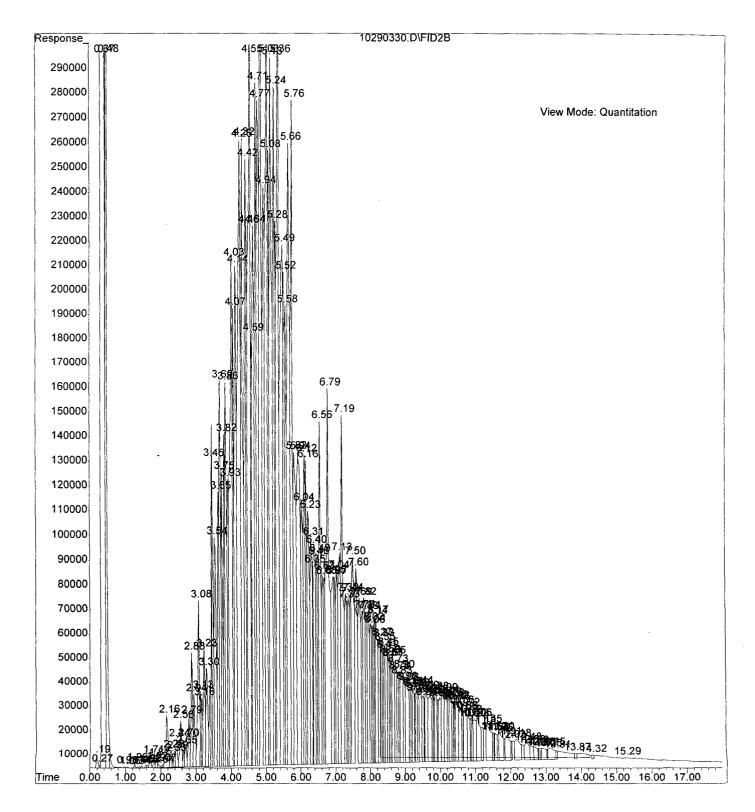


File : C:\HPCHEM\2\DATA\102903F\10290330.D

Operator : VPH

Acquired : 29 Oct 2003 22:52 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-18
Misc Info : 10G/10ML 10/28

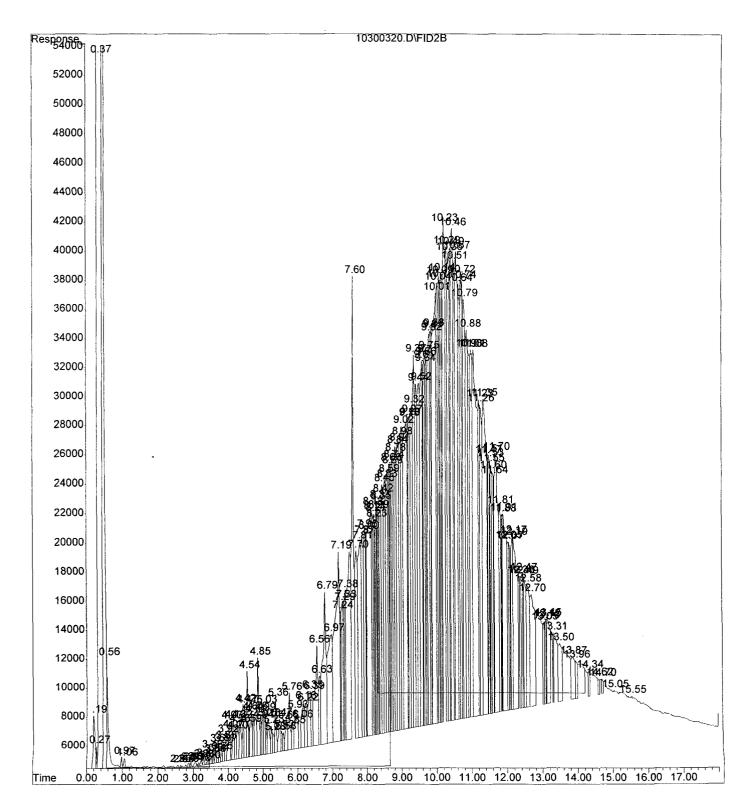


File : C:\HPCHEM\2\DATA\103003F\10300320.D

Operator : VPH

Acquired: 30 Oct 2003 17:33 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-19
Misc Info : 10G/10ML 10/28



File : C:\HPCHEM\2\DATA\102903F\10290336.D

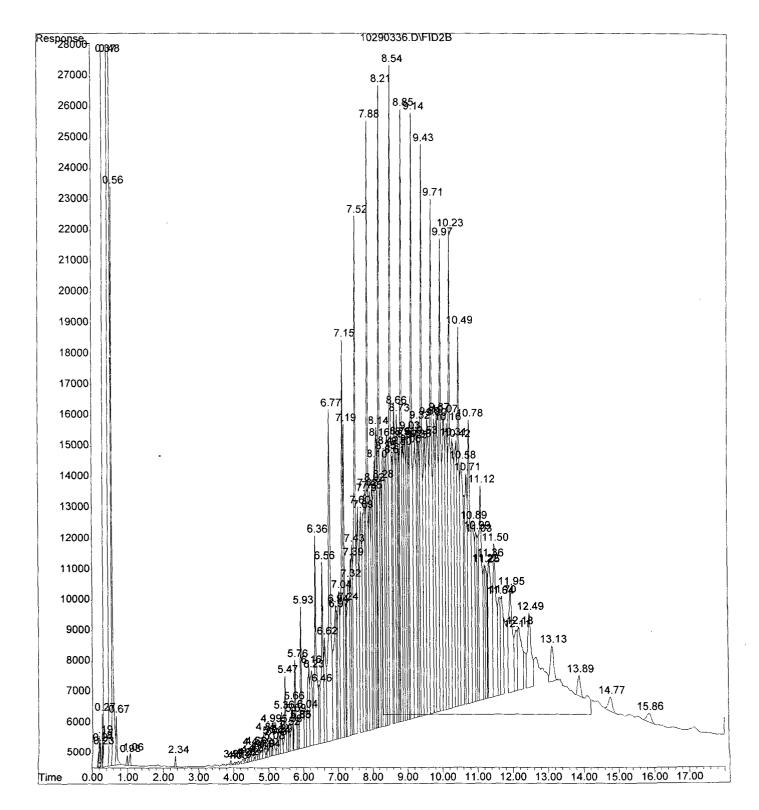
Operator : VPH

Acquired : 30 Oct 2003 1:40 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-20 10X

Misc Info : 10G/10ML 10/28 100UL/1ML



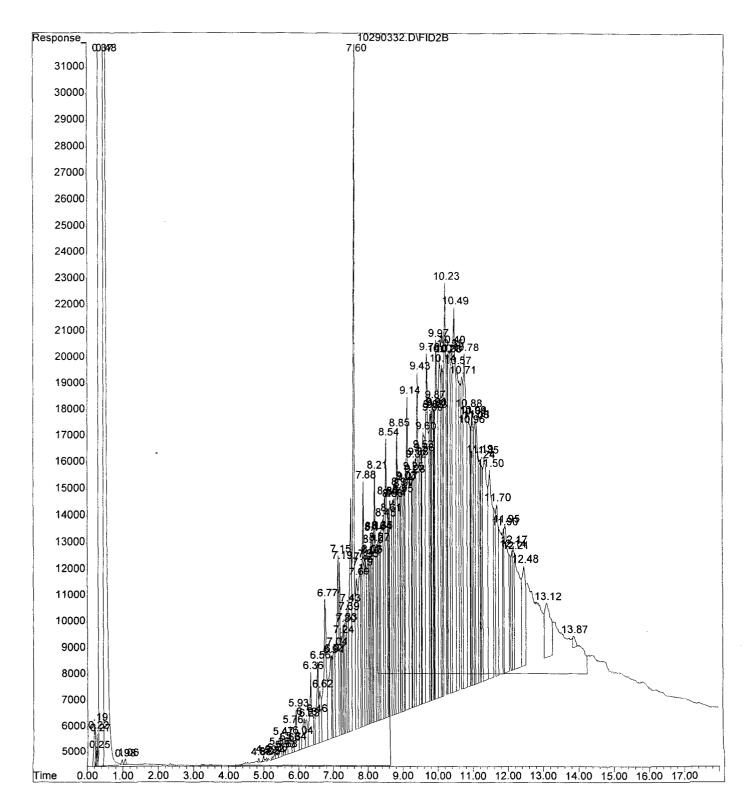
File : C:\HPCHEM\2\DATA\102903F\10290332.D

Operator : VPH

Acquired : 29 Oct 2003 23:48 using AcqMethod TPH1027.M

Instrument : FID-1
Sample Name: 310136-21

Misc Info : 10G/10ML 10/28



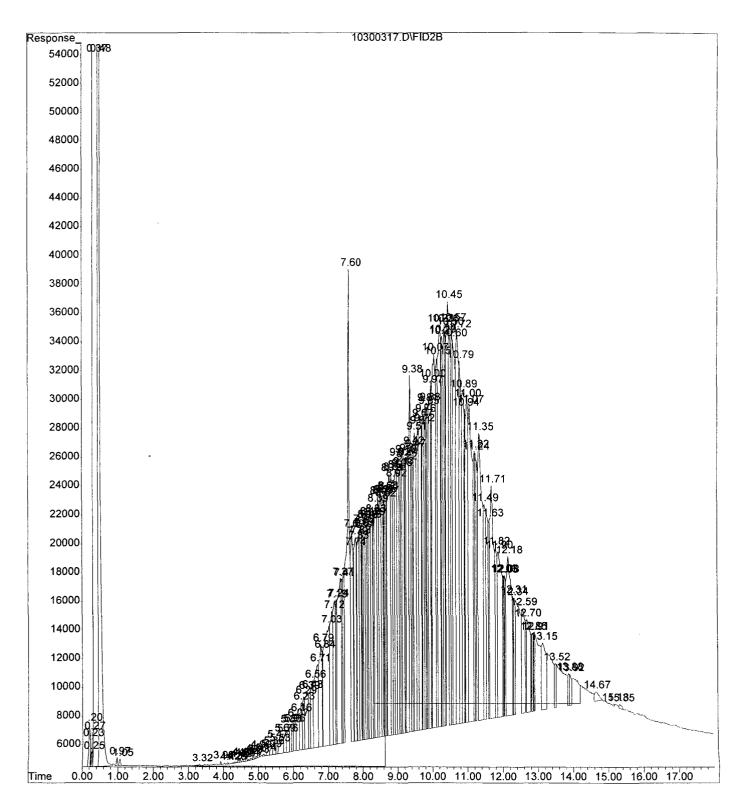
: C:\HPCHEM\2\DATA\103003F\10300317.D File

Operator : VPH

: 30 Oct 2003 16:09 using AcqMethod TPH1027.M Acquired

Instrument : FID-1 Sample Name: 310136-22

Misc Info : 10G/10ML 10/28



File : C:\HPCHEM\2\DATA\103003F\10300313.D

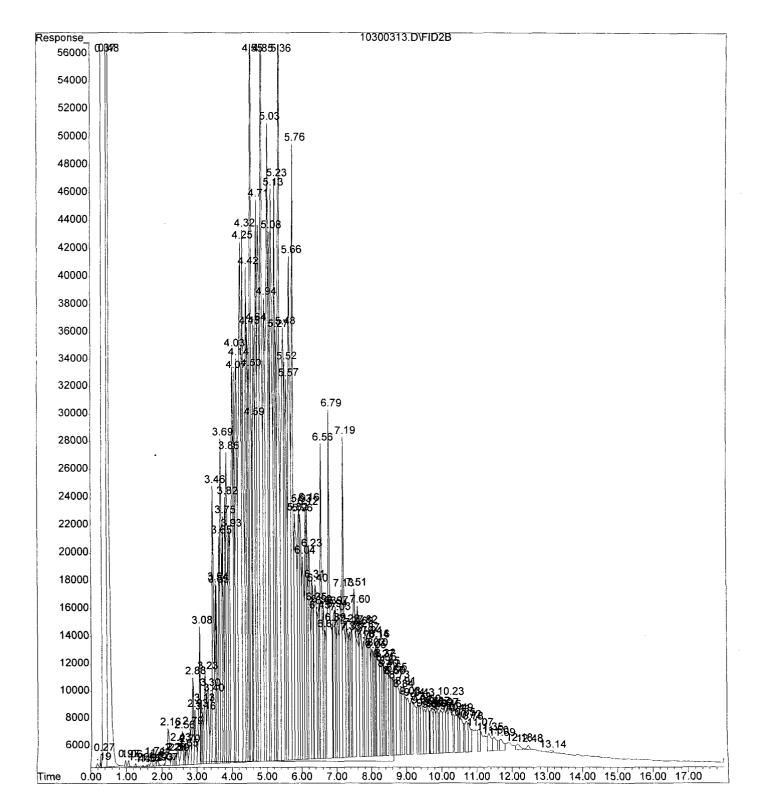
Operator : VPH

Acquired: 30 Oct 2003 14:16 using AcqMethod TPH1027.M

Instrument : FID-1

Sample Name: 310136-23 10X

Misc Info : 10G/10ML 10/28 100UL/1ML





## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

### **BILL RICHARDSON**

Governor
Joanna Prukop
Cabinet Secretary

December 30, 2003

Lori Wrotenbery
Director
Oil Conservation Division

Mr. Pat Wise City Manager City of Lovington P.O. Box 1269 Lovington, NM 88260

RE: Araho, Inc. Former Injection Well Disposal Facility – Phase I Investigation and Remediation Final Report.

Dear Mr. Wise:

The New Mexico Oil Conservation Division (OCD) has completed the Phase I investigation and remediation of the Araho, Inc. former injection well disposal facility. Enclosed please find a copy of the final report for Phase I. If you should have any questions regarding this report please give me a call at 505-476-3488.

Sincerely,

Martyne J. Kieling

**Environmental Geologist** 

cc: File GW-037



Intera Incorporated

One Park Square, Suite 820 6501 Americas Parkway NE Albuquerque, NM 87110 Telephone: 505 246 1600 505 246 2600

Fax:

November 11, 2003

Ms. Martyne J. Kieling **Environmental Geologist** New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, NM 87505

RE: Invoice No. 11-03-39

Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to work with the New Mexico Oil Conservation Division. Enclosed you will find INTERA Invoice No. 11-03-39, submitted to you for the work conducted through the end of October 2003 at the Araho, Inc. Facility in Lovington, New Mexico. The costs on the enclosed invoice reflect those charges associated with the project management, NORM survey, and field work portion of the project (Tasks 1, 2, and 3).

A final report is currently being prepared by INTERA for your review (Task 4). If you have any questions regarding the enclosed invoice, please do not hesitate to contact me at (505) 246-1600 ext. 219. Thank you very much.

Sincerely,

**INTERA Inc.** 

Joseph Tracy, PG Project Manager

Enclosure: Invoice No. 11-03-39 with back-up



### **Intera Incorporated**

9111A Research Boulevard

Austin, Texas 78758

Telephone: 512 425 2000

Fax: 512 425 2099

New Mexico Oil Conservation Division

Attn: Martyne Kieling

1220 South Saint Francis Drive

Santa Fe, NM 87505

November 3, 2003

PROJECT NO: NMO-ARA

To Invoice for services rendered.

RE: Phase I Surface Investigation and Clean-up at ARAHO, Inc

Contract#308050918056 PO#03-199-000799

Billing Period: 6-1-2003/10-31-2003 Project Manager: Joseph Tracy

**Professional Services** 

Total Task 1 Total Task 2

Total Task 3

Total Charges-detail attached

NMGRT 5.8125%

**Total Invoice** 

Invoice No 11-03-39

\$ 2,604.00

\$ 92,983.40

\$3,722.00

\$99,309.40

<u>5,772</u>.36

\$105,081.76

Approved by:

Please remit payment to:

**INTERA Inc** 

9111A Research Blvd.

Austin, TX 78758

Approved Fore Forgrand

Approved Fore Forgrand

Mater 23-03

Professional Services	Contract Line Item 0001 0003 0004	Rate 100.00 67.00 52.00	k Preparation Unit hour hour hour hour	# of	Total S	300.00 268.00 2,546.00 208.00
Staff Scientist/Engineer Field Technician II	0004	52.00	hour	8	8	208.00
Subtotal Professional Labor					S	3,722.00
SUBTOTAL TASK 1:					S	3,722.00
NMGRT @ 5.8125%					S	216.34
GRAND TOTAL TASK 1:					S	3,938.34
Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey  Contract Line	rform Natural	lly Occurrin	g Radioactiv	e Materials (No	ORM) Survey	
Professional Services	Item	Rate	Unit	# of Units	Total	
Staff Scientist/Engineer	0004	52.00	hour	2	\$	104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$	800.00
Field Technician II	0005	50.00	hour	8	S	400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	0	S	*
Subtotal Professional Labor					S	1,304.00
	Contract Line					
Expenses	Item	Rate	Unit	# of Units	Total	
NORM Survey	"At Cost"	1,300.00	each	1	S	1,300.00
Subtotal Expenses					S	1,300.00
SUBTOTAL TASK 2:					S	2,604.00
NMGRT @ 5.8125%					S	151.36
GRAND TOTAL TASK 2:					S	2,755.36

13,799.45	443 \$	yard	31.15	0045	Land-Farm of Solid Waste at Rhino's OCD Permitted Facility
800.00	200 \$	yard	4.00	"At Cost"	
200.00		each	200.00	"At Cost"	Mixing of Dry On-Site Material
600.00	2 \$	each	300.00	"At Cost"	Delivery of Two 20 Yard Roll-Off Containers
847.80	6 \$	day	141.30	0026	Backhoe Medium Duty
40.00	1 8	ton	40.00	"At Cost"	Disposal of Miscellaneous Trash
480.00	12 \$	ton	40.00	"At Cost"	Disposal of Miscellaneous Trash
195.00	1 8	load	195.00	"At Cost"	Tanks) below NORM allowable limits
					Transportation and Disposal of Materials (Scrap Metals, Piping,
1,170.00	6 \$	load	195.00	"At Cost"	Tanks) below NORM allowable limits
					Transportation and Disposal of Materials (Scrap Metals, Piping,
646.00	- 5	day	646.00	0030	Trackhoe Heavy Duty
3,876.00	6 \$	day	646.00	0030	Trackhoe Heavy Duty
2,451.25	26.5	hour	92.50	"At Cost"	Hot Oil Truck
	0 \$	day	750.00	"At Cost"	Vacuum/Jet Truck (additional costs to be determined)
4,500.00	6 \$	day	750.00	"At Cost"	Vacuum/Jet Truck
38,502.00	3,565 \$	barrel	10.80	0044	Disposal of Contaminated Fluids (Product)
1,100.75	629 \$	mile	1.75	0047	Mobilization of Equipment
Total	# of Units	Unit	Rate	Item	Expenses
				Contract Line	
17,873.00	S				Subtotal Professional Labor
ř	0 \$	hour	30.00	0100	Hourly Secretary
2,240.00	112 \$	hour	20.00	0006	Field Technician I - Laborer
2,400.00	120 \$	hour	20.00	0006	Field Technician I - Laborer
1,500.00	60 \$	hour	25.00	0006	Field Technician I - Equipment Operator Backhoe
350.00	10 \$	hour	35.00	0006	Field Technician I - Equipment Operator Trackhoe
2,100.00	60 \$	hour	35.00	0006	Field Technician I - Equipment Operator Trackhoe
3,000.00	60 \$	hour	50.00	0005	Field Technician II - Foreman
675.00	13.5	hour	50.00	0005	Field Technician II - Fieldwork - INTERA Rep
4,500.00	90 \$	hour	50.00	0005	Field Technician II - Fieldwork - INTERA Rep
572.00	11 \$	hour	52.00	0004	Staff Scientist/Engineer
536.00	8 \$	hour	67.00	0003	Project Scientist/Engineer/Manager
Total	# of Units	Unit	Rate	Item	Professional Services
9	Poont man company	A STATE OF STATE AND ADDRESS OF THE PARTY AND	Sund r bung	Contract I inc	rash 5. Field Illycongation: rath Actional Cica
o/Trenching	nosal and Samuli	Removal/Dis	l and Pining	ning/Disnosa	Task 3 Field Investigation: Tank Removal/Cleaning/Disposal and Pining Removal/Disposal and Sampling/Trenching

5,404.60	so so					NMGRT @ 5.8125% GRAND TOTAL TASK 3:
75,110.40 92.983.40	s					Subtotal Expenses SUBTOTAL TASK 3:
65.00	S		day	65.00	0043	Per Diem
390.00	S	6	day	65.00	0043	Per Diem
200.00	8	800	mile	0.25	0042	Mileage
60.00	S	6	day	10.00	0021	Photoionization Detector (PID)
30.00	S	6	day	5.00	"At Cost"	Hand-Held GPS Unit
1,500.00	S	5	day	300.00	"At Cost"	Fresh Air/Safety Trailer/Personal Air Samplers
300.00	S	6	day	50.00	0012	Combustible Gas Indicator (CGI) with O2, H2S, CO2
3,422.1	69	1	project	3,422.15	"At Cost"	Fresh Water Transport and Use

PROJECT GRAND TOTAL:

105,081.76

Notes:

NMGRT = New Mexico Gross Receipts Tax

	CALSIVE C					
Task 1. Project Coordination and Fieldwork Preparation	Coordination a	nd Fieldwor	rk Preparati	on		
	Contract Line					
Professional Services	Item	Rate	Unit	# of Units	Total	
Principal	0001	100.00	hour	3	S	300.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	59	268.00
Project Scientist/Engineer/Manager	0003	67.00	hour	38	S	2,546.00
Staff Scientist/Engineer	0004	52.00	hour	4	S	208.00
Field Technician II	0005	50.00	hour	00	S	400.00
Subtotal Professional Labor					S	3,722.00
SUBTOTAL TASK 1:				Acres and Acres	S	3,722.00
NMGRT @ 5.8125%					S	216.34
GRAND TOTAL TASK 1:					S	3,938.34
Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radi	erform Natural	lly Occurrin	g Radioactiv	oactive Materials (NORM) Survey	ORM) Survey	
	Contract Line					
Professional Services	Item	Rate	Unit	# of Units	Total	_
Staff Scientist/Engineer	0004	52.00	hour	2	S	104.00
Field Technician II - Mobilization	0005	50.00	hour	16	69	800.00
Field Technician II	0005	50.00	hour	8	S	400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	0	S	*
Subtotal Professional Labor					S	1,304.00
	Contract Line					
Expenses	Item ay	Rate	Unit	# of Units	Total	
NORM Survey	"At Cost" V	1,300.00	each	1	S	1,300.00
Subtotal Expenses					S	1,300.00
SUBTOTAL TASK 2:				San	S	2,604.00
NMGRT @ 5.8125%					S	151.36
GRAND TOTAL TASK 2:					S	2,755.36

Though

RHINO ENVIRONMENTS-SERVICES INC. P.O.BOX 57180 ALBUQUERQUE, NM 87187-7180



Customer No.: INTERA INC.

Invoice No.: 6295

Bill To: INTERA INC- JOE TRACY

SUITE 820

6501 AMERICAS PARKWAY NE ALBUQUERQUE, NM 87110 Ship To: ARAHO INC.

INJECTION WELL DISPOSAL FACILITY, LEA COUNTY, NM.

10/31/03	Ship Via	F.O.B.	Terms Net 30	
Purchase Order Number	Order Date	Sales Person	Our Order	Number
1 digitable Oraci Manipor	10/31/03	Calco 1 closii		28
Quantity Required Shipped B.O.	Item Number	Description	Unit Price	Amount
	0047	MOBILIZATION/DEMOBILIZATION		1100.00
565.000	0044	DISPOSAL OF LIQUID 3,565 GALLONS AT \$10.80/GAL	10.80	38502.00
60.000	" AT COST"	VACUUM/JET TRUCK 1/2 60 HOURS AT \$75.00/HOUR	75.00	4500.00`
6.000	0030	TRACKHOE/TANK DEMOLITIONS 6 DAYS AT \$646.00/DAY	646.00	3876.00
6.000	0086	TRACKHOE/OPERATOR- \$35.00/HOUR OR \$350.00 PER DAY- (6 DAYS/10 HOURS EACH)	350.00	2100.00
5.000	"AT COST	FRESH AIR/SAFETY TRAILER AND GAS MONITOR-5 DAYS AT \$300.00 PER DAY	300.00	1500.00
6.000	0005	HEALTH AND SAFETY OFFICER/ FOREMAN-\$50.00/HR-(6 DAYS/10 HR DAYS) \$500.00 PER DAY	500.00	3000.00
6.000	0006	LABOR- 2 LABORERS FOR 6 DAYS AT \$20.00/HR OR \$400.00/DAY- 10 HOUR DAYS	400.00	2400.00
6.000	0026	BACKHOE AND LOADER 6 DAYS AT \$141.30 PER DAY	141.3000	847.80
6.000	0006	BACKHOE OPERATOR 6 DAYS AT \$250.00 PER DAY	250.00	1500.00
11.000	"AT COST"	GARBAGE/TRANSPORTATION DISPOSAL-48 CUBIC YARDS OR 11 TONS AT \$40.00/TON	40.00	440.00
6.000	"AT COST"	DISPOSAL OF SCRAP METALS- INCLUDES TANKS-AND PIPING 6 LOADS AT \$195.00/LOAD	195.00	1170.00
1.000	"AT COST"	DELIVERY OF (2) 20 CUBIC YARD ROLL-OFFS	600.00	600.00
200.000	" AT COST"	CLEAN SAND-200 CUBIC YARDS AT \$4.00 CUBIC YARD	4.00	800.00

Thank You



From: David Boyer [dgboyer@sesi-nm.com]

Sent: Friday, October 31, 2003 7:26 AM

To: mkieling@state.nm.us

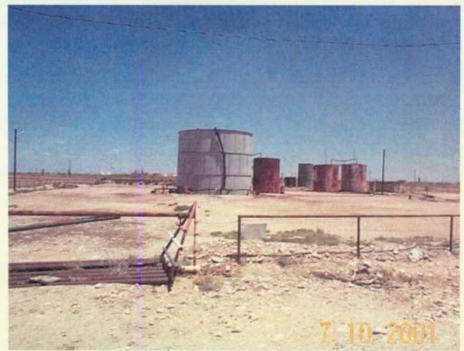
Subject: Arahoe Pit

### Martyne,

Checked our files for that project and found that two boreholes were completed as temporary monitor wells, one on the northwest corner and one on the southeast corner. W-1 on the NW corner had a TD of 83 ft. with the top of water at 74 ft. W-2 on the SE corner had a TD of 80 ft. also with the top of water at 74 ft. There was no log with this information, although notes indicated a bentonite and grout seal was placed following sampling of the ground water. Bob was in the area yesterday at the time we talked and went by the site; he confirms that there are no current monitor wells at the site.

I will be in the area this morning myself; let me know if you need any other info.

**Dave Boyer** 



Before surface cleanup.

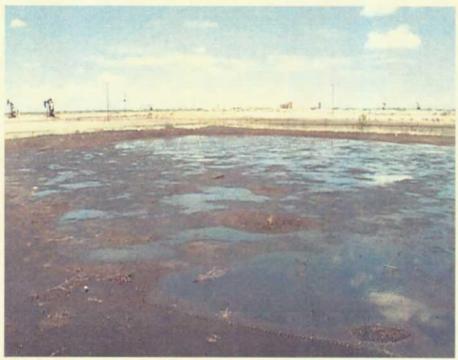


After surface cleanup, Pit Remains in upper left of photo.

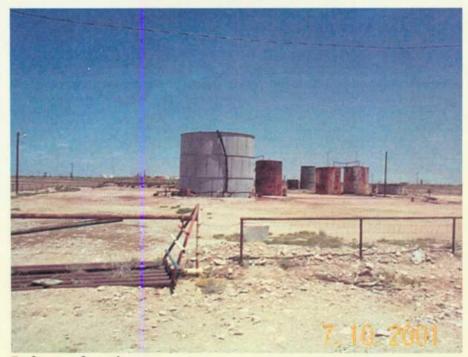
ARAHO INC. Sec 1, T 17 S Range 36 E NMPM, Lea County, NM



Air Photo



Lined pit



Before surface cleanup.



After surface cleanup, Pit Remains in upper left of photo.

ARAHO INC. Sec 1, T 17 S Range 36 E NMPM, Lea County, NM



Air Photo



Lined pit

RHINO ENVIRONMENT
SERVICES INC.
P.O.BOX 57180
ALBUQUERQUE, NM 87187-7180



Customer No.: INTERA INC.

Invoice No.: 6295

Bill To: INTERA INC- JOE TRACY

**SUITE 820** 

6501 AMERICAS PARKWAY NE ALBUQUERQUE, NM 87110 Ship To: ARAHO INC.

INJECTION WELL DISPOSAL FACILITY, LEA COUNTY,NM.

Date	j	Ship Via	F.O.B.	Terms	- · - ·
10/31/03				Net 30	
Purchase	Order Number	Order Date	Sales Person	Our Order	Number
		10/31/03		63	28
	antity	Item Number	Description	Unit Price	Amount
	hipped B.O. 13.000	0045	DISPOSAL OF WASTE MATERIAL- SAND MIXTURE ESTIMATES 443 CUYDS AT \$31.15/CUYD TOTAL: \$76,135.25	31.15	13799.45
			CHANGE ORDER ITEMS		
		"AT COST"	LOADER ON SITE GATHERING AND MIXING DRY ON SITE MATERIAL		200.00
		"AT COST"	VACUUM/JET TRUCK COST TO BE DETERMINED		
		0030	TRACKHOE/TANK DEMOLITIONS 1 DAY AT \$646.00 PER DAY		646.00
		0006	TRACKHOE/OPERATOR- \$35.00/HR. BASED ON 10 HOUR DAYS OR \$350.00 PER DAY		350.00
11	12.000	0006	LABOR- 112 HOURS AT \$20.00 PER HOUR	20.00	2240.00
		"AT COST"	DISPOSAL OF SCRAP METALS (INCLUDES TANKS) AND PIPING 1 LOAD AT \$195.00 PER LOAD		195.00
2	26.500	"AT COST"	HOT OIL TRUCK- 26.5 HOURS AT \$92.50 PER HOUR	92.50	2451.25
		"AT COST"	'TRANSPORT/OPERATOR BRINE AND FRESH WATER CRANE- NO CHARGE 4 CUYD LOADER- NO CHARGE SKY LIFT- NO CHARGE		3422.15
			TANK TRANSPORT- NO CHARGE		
			TOTAL CHANGE ORDERS- \$9,504.40		

Thank You

RHINO ENVIRONMENT SERVICES INC. P.O.BOX 57180 ALBUQUERQUE, NM 87187-7180



Customer No.: INTERA INC.

Invoice No.: 6295

Bill To: INTERA INC- JOE TRACY

**SUITE 820** 

6501 AMERICAS PARKWAY NE ALBUQUERQUE, NM 87110

Ship To: ARAHO INC.

INJECTION WELL DISPOSAL FACILITY, LEA COUNTY, NM.

Date	l SI	nip Via	F.O.B.	Terms	
10/31/03				Net 30	
Purchase O	rder Number	Order Date	Sales Person	Our O	rder Number
		10/31/03			6328
Qua Required Sh	ntity ipped B.O.	Item Number	Description	Unit Price	Amount

Invoice subtotal

85639.65

Invoice total

85639.65

STATE OF NEW MEXICO
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

## MEMORANDUM OF MEETING OR CONVERSATION

Telephone	Personal	Time 1:30	Date 10-1-03
		7:55 3:00	10/2/03 Called back
Originating Party	ford Fine	Other Pa	arties Martine Kielin
506 - 370	-2930		Recieved Voice ma
505 - 675	- 2488		messay
Subject Refend	by Pat wis	e city of Lo city Manag	yer lea
Discussion Calf	got into	Arabo Pit	and Died Last we
•	the Dum Acrost Feet to the East		Guard or along
Calfuns Co Died of Ha	wend in oil A Exaction	Could Not	get Cleen and
		,	
OCDNOT Res	possible For	Payment of	Tue 10-7-03
The Sorfe	ce owner.	eather the	Company Owner of
Distribution		Signed _	They we fell.

## Kieling, Martyne

From:

Johnson, Larry

Sent:

3

Tuesday, September 30, 2003 9:45 AM

To:

Kieling, Martyne

Subject:

Araho

Looked over the site yesterday - found some tracks in the paraffin in the small pit on east side - these are imbedded and there is no way to know how old they are - found no tracks leading up to the pit - actually searched the entire location for tracks of ANY kind and found none. The fence is in good shape except for a 15' to 20' span on the south side - even there it seems a calf would have difficulty getting through - when did the event allegedly occur?

DCP\_1172.JPG

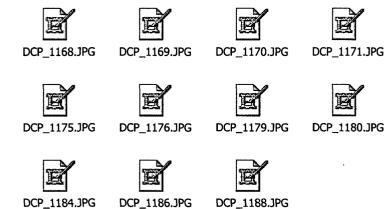
DCP\_1181.JPG

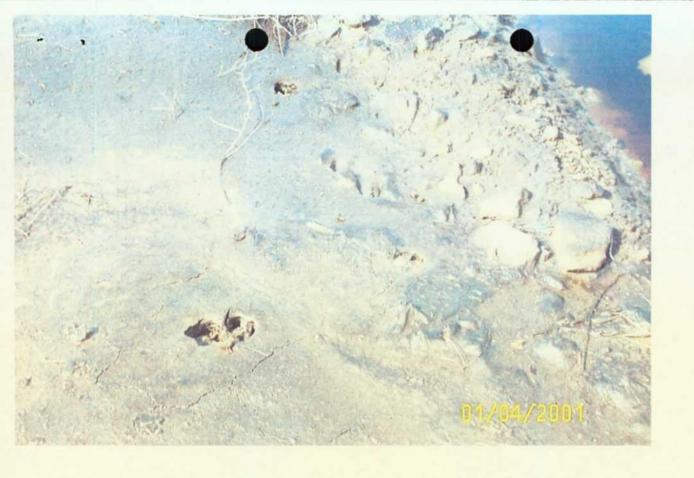
DCP\_1173.JPG

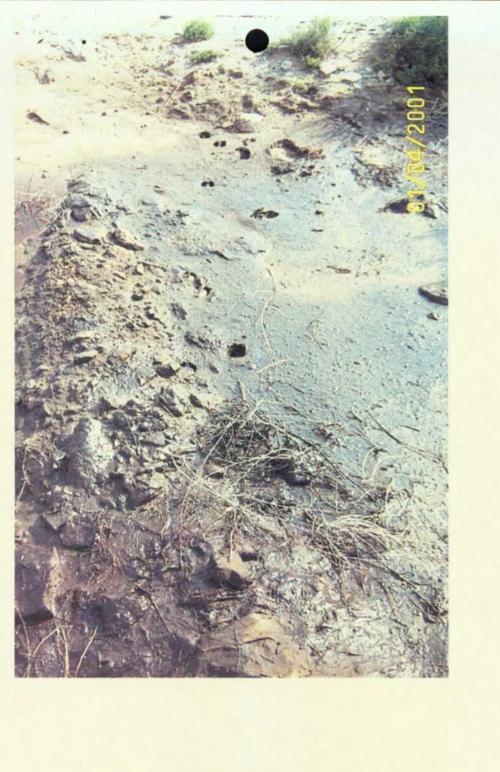
DCP\_1182.JPG

DCP\_1174.JPG

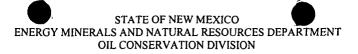
DCP\_1183.JPG











## MEMORANDUM OF MEETING OR CONVERSATION

	Time 7 : 55p Date 9 - 25-03
Originating Party  Patwise 39  City of Lovington  City Manager	Other Parties  Martyn Kicky  OCD
Subject Araho Pit  Rancher Lost colfin s	Box 42 Elida am 8 8114
	(No Plane #)
Discussion City took Picha	ens they will forward on to us.
Conclusions or Agreements	
Conclusions of Agreements	Α.
Distribution	Signed MA



### TRANSMITTAL COVER SHEET

OIL CONSERVATION DIVISION 1220 S. ST. FRANCIS DRIVE SANTA FE, NM 87505 (505) 476-3440 (505)476-3462 (Fax)

PLEASE DEL	IVER THIS FAX:	
TO:	Diamond Back Disposal Linsey Dyer	505392.937
FROM:	Martyne Kieling	
DATE:	10-28-03	
PAGES:		
SUBJECT:	Certificate of waste Status	

IF YOU HAVE TROUBLE RECEIVING THIS FAX, PLEASE CALL THE OFFICE NUMBER ABOVE.

DIAMONDBACK DISPOSAL & SERVICES, INC.

PO BOX 2491 HOBBS, NM 88241 PH: (505) 392-9996

FAX: (505) 392-9376

# **FAX**

FROM: Linsey Oyer
DATE: 10-27-03
CC:
NUMBER OF PAGES:(Including this page)

**DESCRIPTION:** 

# CERTIFICATE OF WASTE STATUS

1. Generator (Name)						
Address: New Mexico	3. Location (Street Address &/or ULSTR)					
Oil Conservation Division	(を)					
1220 South Saint Frances Dr.						
Santu Fe, NM 87505						
2. Originating Site (Name):						
And the Control of the Control	4. Destination Name:					
Arako facility SND NE/4 SE/4, Sec1, Ti75, R36E	CRI Faulity					
NEXY SELY, SELI, TITS, R36E						
5. Source and Description of Man.						
5. Source and Description of Waste: Bel trush From Pipe and tan	iow grade pipe and Asorted					
THE AND TAN	k removal					
I, Martyne Kieling	Woman and at it C.					
- SILLONSCYDANION DIVISIA	representative for do hereby certify					
that according to the Resource Conservation a	and Recovery Act (PCDA)					
Environmental Flotection Agency's July 108	8 regulatory determination the street					
described waste is: (Check appropriate classi	fication)					
	•					
X EXEMPT oilfield waste	NON-EXEMPT oilfield waste which					
	is non-hazardous by characteristic analysis					
	or by production identification.					
For Non-exempt waste only the following to						
For Non-exempt waste only the following doc (check appropriate item)	umentation is attached:					
( see the appropriate term)						
MSDS In	formation					
	CLP Analysis					
Chain of	Custody					
Other (De	escription)					
Name (Similar Mark						
Name: (Signature) Markym 2	<u>4</u>					
Printed Name: Martune Kieling						
Thatyne Kieling						
Title: Environmental Geologist						
- cologist						
Date: 10-28-03						
mach list of originating sites as appropriets.						



## State of New Mexico Oil Conservation Division Phase I investigation and Remediation Araho, Inc. Former Injection Well Disposal Facility, Lea County, New Mexico **Revised Cost Estimate** Revision III



FASKIN 915-683-1893

•	Revisio August 11				
That I Buck			oul: Duomana	da.	
Task 1. Projec	t Coordination	and rielawe	ork Prepara	non	T
rofessional Services	Item	Rate	Unit	# of Units	Total
rincipal	0001	100.00	hour	4	\$ 400.0
roject Scientist/Engineer/Manager	0003	67.90 52.00	hour	4 4	\$ 268.0 \$ 208.0
taff Scientist/Engineer ield Technician II	0004	50.00	hour	+ + + + - +	\$ 208.0
ubtotal Professional Labor	1 0005 1	50,00	1 1001	<u> </u>	\$ 1,276.0
	Charles College	100 C 100 C	والمعارض والمعارض	62 × 40 × 50	
UBTOTAL TASK 1: IMGRT @ 5.8125% FRAND TOTAL TASK 1:	u sa salah ing basa Kabupatèn Kalupatèn Bula	, T. GANKE W Unit san Braun	ti i ing Sanga Kabupat Sa Atsanang Sangan	iki ikiri leverik diriki diri Kana direka direka	\$ 74.1 \$ 1,350.1
Task 2. Map Buried Utilities (1-Call) and		illy Occurri	ng Radioact	ive Materials (	NORM) Survey
	Contract Line Item	Rate	Unit	# of Units	Total
rofessional Services taff Scientist/Engineer	0004	52.00	hour	2	\$ 104.0
ield Technician II - Mobilization	0005	50.00	hour	16	\$ 800,0
ield Technician II	0005	50.00	hour	8	\$ 400.0
raftsperson II (Utility Mapping)	0007	50.00	hour	8	\$ 400.0
ubtotal Professional Labor			<b>,</b>		\$ 1,704.6
	Contract Line	D-4-	¥7%	H - 637-24	T-4-1
Expenses FORM Survey	"At Cost"	Rate 1,300.00	Unit each	# of Units	Total 1,300.0
abtotal Expenses	At Cost	3,500.00	, value	1	\$ 1,300.0
UBTOTAL TASK 2	Tara ( )			15 - 16 H 49 - 17 - 17	2 004 0
MGRT @ 5.8125%	år (Vilosi)			W. 45%	S 174.6
GRAND TOTAL TASK 2:					\$ 3,178.6
Task 3. Field Investigation: Tank Removal/C	leaning/Disposa	l and Pipin	g Removal/I	Disposal and S	ampling/Trenching
	Contract Line				
rofessional Services	Item	Rate	Unit	# of Units	Total
roject Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.0
taff Scientist/Engineer	0004	52.00	hour	12	\$ 624.0
ield Technician II - Fieldwork*	0005	50.00	hour	90	\$ 4,500.0
ield Technician II - Foreman	0005	50.00	hour	60	\$ 3,000.0
ield Technician I - Equipment Operator Trackhoe ield Technician I - Equipment Operator Backhoe	0006	35.00 25.00	hour	60	\$ 2,100.0 \$ 1,500.0
ield Technician I - Equipment Operator Backhoe ield Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.0
ield Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.0
Jourly Secretary	0010	30.00	bour	4	\$ 120.0
ubtotal Professional Labor					\$ 14,780,0
	Contract Line		i		
xpenses	Item	Rate	Unit	# of Units	Total
Abbilization of Equipment Disposal of Contaminated Fluids (Product)	0047	1.75	mile barnel	2,600	\$ 1,102.5 \$ 28,080.0
Disposal of Contaminated Fluids (Product) Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	\$ 28,080.0
/acuum/Jet Truck	"At Cost"	750.00	day	6	\$ 4,500.0
rackboe Heavy Duty	0030	646.00	day	6_	\$ 3,876.0
ransportation and Disposal of Materials (Scrap Metals, Piping,			i -	1	
anks) below NORM allowable limits	"At Cost"	195.00	load	6	\$ 1,170.0
Disposal of Miscellaneous Trash Backhoe Medium Duty	"At Cost" 0026	40.00 157.00	ton day	12	\$ 480.0 \$ 942.0
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	6 2	\$ 942.0 \$ 600.0
Clean Sand	"At Cost"	4.00	yard	250	\$ 1,000,0
and-Farm of Solid Waste at Rhino's OCD Permitted Facility	0045	31.15	yard	470	\$ 14,640.5
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	\$ 300,0
resh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800.0
land-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.0
hotoionization Detector (PID)  Aileage	0021	10.00 0.25	day	800	\$ 60.0 \$ 200.0
er Diem	0042	65.00	mile day	800	\$ 200.0 \$ 520.0
ubtotal Expenses	0045	05.00	day	<u> </u>	\$ 70,086.0
UBTOTAL TASK 3:	<del>7.7.7.</del>	W. J. T. 54.	ব্যাস্থ্য কর্ম আর্থ	ARTONIA TORI	\$ 84,866.0
MGRT @ 5.8125%		1 - 5 - 6	사는 가 많이		\$ 4,932.8
RAND TOTAL TASK 3:				多い かいり	
Task 4	. Preparation o	f an Final l	Report		
	Contract Line		T	1	T
rofessional Services	Item	Rate	Unit	# of Units	Total
rincipal	0001	100.00	hour	8	\$ 800.0
roject Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.0
taff Scientist/Engineer ield Technician II	0004	52,00 50,00	hour	40 24	\$ 2,080.0 \$ 1,200.0
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 1,200.0 \$ 800.0
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.0
ubtotal Professional Labor					\$ 6,728.0
UBTOTAL TASK 4:				ในประชานัก สาร	S 6,728.00
MGRT @ 5.8125%					\$ 391.07
RAND TOTAL TASK 4:				<u> 1004 - 60 -</u>	\$ 7,119.0

PROJECT GRAND TOTAL:

\$ 101,446.68

Notes:
NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.





#### Intera Incorporated

One Park Square, Suite 820 6501 Americas Parkway NE Albuquerque, NM 87110 Telephone: 505 246 1600

Fax:

505 246 2600

# RECEIVED

APR 2 9 2003

Environmental Bureau

Oil Conservation Division

April 29, 2003

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, NM 87505

#### **RE:** Transmittal of Proposal:

• Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico

#### Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to provide you with the enclosed proposal. The proposal has been prepared for the investigation and remediation of the Araho, Inc. former injection well disposal facility located in Lea County, New Mexico. We have based our proposal on the scope of work that you provided. Attached to this letter are two copies of our proposal which include a scope of work describing how INTERA will complete the project, a cost estimate, and a photo log. All costs will be invoiced on a time and materials basis, a reduction in time and/or materials taken to complete the project result in a reduction in the final cost to complete the project.

INTERA will perform the proposed work under the terms of the contract between INTERA and the State of New Mexico General Services Department, Contract No. 30-805-09-18056.

Again, we thank you for the opportunity to bid on this project and hope that you will consider INTERA for future projects where the services of a responsive and quality consulting firm are needed. If you have any questions regarding the attached proposal, please do not hesitate to contact us at (505) 246-1600.

Regards,

INTERA Inc.

Joseph Tracy, PG Project Manager Ms. Stacy Sabol Sector Manager

## Enclosures:

• Scope of Work, Cost Proposal, and Photo Log – Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico

Joe Tracy. .

		ost 2700 Leo \$5 \$8700 \$555
ل	INTERA 2500	\$57,098.54 \$6.55 disposal co NORM \$1300 Scrap Methol \$ 7 m. sh T m. sh
	RESPEC 2500	\$57,405.00 \$3,336.6656 \$60,741.67 trucking water truck steam cleaner into disposal \$13 disposal cost NORM \$1400 \$1.00 70 76% \$1.00 70 76%
	AMEC 2500	\$50,628.50 \$2,658 \$58,286.50 did not use line items for track hoe and backhoe \$9 disposal cost NORM survey cost not listed

\$ 23 Ton Lealand Change

1 PO For \$ \$7,200."
1 P.C. For \$ 3,900."

## State of New Mexico Oil Conservation Division Phase I Investigation and Remediation Araho, Inc. Former Injection Well Disposal Facility,

Lea County, New Mexico **Cost Estimate** 

Task 1. Project C	Contract Line		T		1	-
Professional Services	Item	Rate	Unit	# of Units	T	otal
Principal	0001	100.00	hour	2	S	200.0
Project Scientist/Engineer/Manager	0003	67.00	hour	4	s	268.0
Staff Scientist/Engineer	0004	52.00	hour	4	\$	208.0
rield Technician II	0005	50.00	hour	8.	\$	400.0
Subtotal Professional Labor					5	1,076.00
SUBTOTAL TASK 1:					5	1,076.00
NMGRT @ 5.8125%					5	62.54
GRAND TOTAL TASK 1:					S	1,138.54
Task 2. Map Buried Utilities (1-Call) and Per	rform Natural	lly Occurri	ng Radioacti	ve Materials	(NORM) Surv	ey
	Contract Line					
Professional Services	Item	Rate	Unit	# of Units		otal
Staff Scientist/Engineer	0004	52.00	hour	2	\$	104.00
Field Technician II - Mobilization	0005	50.00	hour	16	S	800.00
Field Technician II	0005	50.00	hour	8	\$	400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	8	S	400.00
Subtotal Professional Labor	Charles at Land				\$	1,704.00
	Contract Line	D-4-	93014	# of Units	-	otal
Expenses NORM Survey	"At Cost"	Rate 1,300,00	Unit	# of Units	5	1,300.00
Subtotal Expenses	ALC:091	1,500.00	Cacii		5	1,300.00
SUBTOTAL TASK 2:					5	3,004.00
NMGRT @ 5,8125%					S	174.61
GRAND TOTAL TASK 2:					5	3,178.6
Task 3. Field Investigation: Tank Removal/Clea	ning/Diengen	and Pinin	a Damoval/E	isposal and S	ampling/Tren	THE RESERVE THE PARTY OF THE PA
rask 3. Field thvestigation: Tank Removal/Cita	Contract Line	anu ripin;	Kemovavi.	isposai anu 5	amping/11ch	ching
Professional Services	Item	Rate	Unit	# of Units	T	otal
	0003	67.00	hour	6	\$	402.00
Project Scientist/Engineer/Manager	0003	52.00	hour	8	\$	416.00
Staff Scientist/Engineer	0004	50.00	hour	54	S	2,700.00
Field Technician II - Fieldwork* Field Technician II - Foreman	0005	50.00	hour	54	2	2,700.00
	0006	35.00	hour	54	\$	1,890.00
Field Technician 1 - Equipment Operator Trackhoe	0006	25.00	hour	54	S	1,350.00
Field Technician I - Equipment Operator Backhoe Field Technician I - Laborer	0006	20.00	hour	54	\$	1,080.00
Field Technician I - Laborer	0006	20.00	hour	54	\$	1,080.00
Hourly Secretary	0010	30.00	hour	4	S	120.00
Subtotal Professional Labor	0010	30,00	nour	_	\$	11,738.00
Subtotal Professional Capor	Contract Line					1.147.00.00
Expenses	Item	Rate	Unit	# of Units	Te	stal
Disposal of Contaminated Fluids (Product)	0044	6.55	barrel	2,500	s	16,375.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	7.85	barrel	360	\$	2,826.00
Vacuum/Jet Truck	"At Cost"	750.00	day	4	S	3,000.00
Trackhoe Heavy Duty	0030	646.00	day	5	S	3,230.00
Disposal of Scrap Metals (Tanks) and Piping	"At Cost"	40.00	ton	12	S	480.00
Disposal of Miscellaneous Trash	"At Cost"	35.00	ton	48	S	1,680.00
Transportation of Materials (Scrap Metals, Piping, Trash) for Disposal	"At Cost"	19.50	ton	60	s	1,170.00
Backhoe Medium Duty	0026	157.00	day	5	\$	785.00
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	5	s	250.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	3	\$	900.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$	15.00
Photoionization Detector (PID)	0021	10.00	day	5	S	50.00
Mileage	0042	0.25	mile	800	\$	200.00
Per Diem	0043	65.00	day	7	\$	455.00
Subtotal Expenses					\$	31,416.00
SUBTOTAL TASK 3:					5	43,154.00
NMGRT @ 5.8125%					s	2,508.33
GRAND TOTAL TASK 3:					\$	45,662.33
Took 4	Preparation o	f an Final I	Report			
1 ask 4.	Contract Line					
1 ask 4.	7/30	Rate	Unit	# of Units	To	otal
Professional Services	Item		hour	8	\$	800.00
Professional Services	0001	100.00				
Professional Services Principal		67.00	hour	24	S	1,608.00
20 0 000 0	0001			24 40	\$	2,080.00
Professional Services Principal Project Scientist/Engineer/Manager	0001	67.00	hour			
Professional Services Principal Project Scientist/Engineer/Manager Staff Scientist/Engineer	0001 0003 0004	67:00 52:00	hour	40	\$	2,080.00 1,200.00
Professional Services Principal Project Scientist/Engineer/Manager Staff Scientist/Engineer Field Technician II	0001 0003 0004 0005	67.00 52.00 50.00	hour hour	40 24	\$	2,080.00 1,200.00 800.00
Professional Services Principal Project Scientist/Engineer/Manager Staff Scientist/Engineer Field Technician II Draftsperson II (Figures, Cross Sections) Administrator (Technical Editor)	0001 0003 0004 0005 0007	67.00 52.00 50.00 50.00	hour hour hour	40 24 16	\$ \$ \$	2,080.0
Professional Services Principal Project Scientist/Engineer/Manager Staff Scientist/Engineer Field Technician II Draftsperson II (Figures, Cross Sections)	0001 0003 0004 0005 0007	67.00 52.00 50.00 50.00	hour hour hour	40 24 16	\$ \$ \$	2,080.00 1,200.00 800.00 240.00
Professional Services Principal Project Scientist/Engineer/Manager Staff Scientist/Engineer Field Technician II Draftsperson II (Figures, Cross Sections) Administrator (Technical Editor) Subtotal Professional Labor	0001 0003 0004 0005 0007	67.00 52.00 50.00 50.00	hour hour hour	40 24 16	\$ \$ \$ \$	2,080.00 1,200.00 800.00 240.00 6,728.00
Professional Services  Principal  Project Scientist/Engineer/Manager  Staff Scientist/Engineer  Field Technician II  Draftsperson II (Figures, Cross Sections)  Administrator (Technical Editor)  Subtotal Professional Labor  SUBTOTAL TASK 4:	0001 0003 0004 0005 0007	67.00 52.00 50.00 50.00	hour hour hour	40 24 16	\$ \$ \$ \$ \$	2,080.0 1,200.0 800.0 240.0 6,728.0

NMGRT = New Mexico Gross Receipts Tax

The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 50 hours of fieldwork will be required to complete the tank and piping removal and disposal portion of the project. This time estimate also includes sample trenching and sample collection, however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.

# PRICE ESTIMATION - FINAL Araho, Inc. - OCD Proposal

Vendor No. 5187719

PA Number: 308050918056

RESPEC Inc.
Commodity Code:

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001	6	\$75.00	Hour	\$450.00	Principal
*0002	18	\$70.00	Hour	\$1,260.00	Senior Scientist
*0003	28	\$63.00	Hour	\$1,764.00	Project Manager/Certified Scientist
*0004	40	\$50.00	Hour	\$2,000.00	Staff Scientist
*0005	80	\$35.00	Hour	\$2,800.00	Field Technician II
*0006		\$30.00	Hour	\$0.00	Field Technician I
*0007	8	\$35.00	Hour	\$280.00	Draftsperson II
*0008		\$25.00	Hour	\$0.00	Draftsperson I
*0009	4	\$32.00	Hour	\$128.00	Administrator
*0010		\$30.00	Hour	\$0.00	Secretary
*0011		\$20.00	Hour	\$0.00	Clerk
*0021	5	\$5.00	Day	\$25.00	PID
*0025		\$120.00	Day	\$0.00	Backhoe 1
*0026	6	\$157.00	Day	\$942.00	Backhoe 2
*0030	3	\$600.00	Day	\$1,800.00	Trackhoe 3
*0042	2300	\$0.32	Mile	\$736.00	Personal Vehicle Mileage
*0043	12	\$65.00	Each	\$780.00	Per Diem/Overnight
*0044	2500	\$13.00	50 gal/bbl	\$32,500.00	Disposal/Recycling of Contaminated Fluids
*0046	18	\$80.00	Hour	\$1,440.00	Site Survey (NORM)
*0052		\$50.00	Day	\$0.00	Water Truck -
*0053	6	\$50.00	Day	\$300.00	Pick up Truck -
*0054	·	\$80.00	Day	\$0.00	Steam cleaner
	3	\$400.00	day	\$1,200.00	Shear - at cost
	70	\$100.00	ton	\$7,000.00	Tank & Pipe Disposal/Recycling - at cost
	20	\$100.00	ton	\$2,000.00	Trash Disposal - at cost

TOTAL =

\$57,405.00 (a) X 5.8125% (NMGRT)

\$60,741.67

NOTE: LABORATORY COSTS ARE NOT INCLUDED





APR 2 9 2003

Environmental Bureau

Oil Conservation Division

RSI (ALO)-P-2089

4775 Indian School Road NE, Suite 300 Albuquerque, New Mexico 87110-3927 **Phone**: 505.268.2661 **Fax**: 505.268.0040

http://www.respec.com

April 29, 2003

Martyne J. Kieling New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Work plan for Phase I Investigation and Remediation at the Araho Inc., Former Injection Well Disposal Facility located in Lea County, New Mexico

Dear Ms. Kieling:

RESPEC is pleased to submit the following work plan and cost estimate for the above referenced site. All work for will be conducted in accordance with all pertinent state and federal regulations. A Professional Geologist and NMED Certified Scientist will have direct supervisory control over the project. A minimum of 96 hours advance notice will be given to the Oil Conservation Division (OCD) Project Manager prior to starting work.

RESPEC personnel visited the site on April 14, 2003 in order to assess site conditions, estimate disposal tonnages, and collect paint from the above ground tanks (ASTs) for lead screening.

The scope of work is organized into the following tasks:

- Task 1 Work plan preparation;
- Task 2 Health and safety plan preparation;
- Task 3 Remove and dispose of tank contents;
- Task 4 Perform NORM survey
- Task 5 Demolish tanks with shear
- Task 6 Remove all piping, equipment, tanks, and trash for Off-site disposal or recycling;
- Task 7 Investigate extent of contamination beneath tank footprints;
- Task 8 Investigate extent of chloride contamination in surface soils;
- Task 9 Prepare and submit Phase I Investigation Report

#### TASK 1 - WORK PLAN PREPARATION

This task involves the preparation of the work plan, cost estimates, site reconnaissance, interaction with all subcontractors and the OCD Project Manager.

#### TASK 2 - HEALTH AND SAFETY PLAN PREPARATION

A site-specific health and safety plan (HASP) will be completed before fieldwork commences. The HASP will include, but not be limited to the following: a site information summary, a list of key personnel on-site and their responsibilities, site hazards, emergency information, job hazard assessment, decontamination and disposal, employee training, and emergency procedures.

The New Mexico One Call System will be contacted in order to locate, mark and map all buried pipelines and utilities at the site.

#### TASK 3 – REMOVE AND DISPOSE OF TANK CONTENTS

A vacuum truck and water truck (if necessary to pump hot water through the tanks) will be used to pump out an estimated 1600 barrels of exempt oil field waste for recycling. The fluids will be recycled at an OCD approved facility.

## TASK 4 - PERFORM NORM SURVEY

RESPEC will perform a naturally occurring radioactive materials (NORM) survey of all pipes, tanks and miscellaneous equipment prior to disposal/recycling. This task will be ongoing throughout the demolition and disposal activities at the site. All empty tanks will be inspected and surveyed internally prior to demolition and externally before disposal/recycling. A registered NORM surveyor will perform the survey in accordance to 19.15.9.714 NMAC and 20.3.14 NMAC.

### TASK 5 - DEMOLISH TANKS WITH SHEAR

After the fluids have been removed and NORM survey completed, the tanks (all eight as specified in the scope of work) will be cut apart using a track hoe with attached shear. It is estimated that it will take approximately three days to complete this task. It should be noted that all personnel, other than the track hoe operator, will not be permitted on-site during the shearing operation, with an exclusion zone established around the entire site. (details to be included in the site HASP).

# TASK 6 – REMOVE ALL PIPING, EQUIPMENT, TANKS AND TRASH FOR OFF-SITE DISPOSAL OR RECYCLING

Pursuant to the scope of work, all trash including: barrels, buckets, batteries, pipes, electrical meters, cut up ASTs, etc. will be removed from the site for either disposal or recycling.

Any testing that is required prior to disposal will be performed on a contingency basis, with all laboratory expenses billed to a separate purchase agreement with the OCD (Trace Analysis or Pinnacle Laboratory). It should also be noted that all piping and other miscellaneous items will be staged for the NORM survey prior to removal from the site.

# TASK 7 – INVESTIGATE THE EXTENT OF CONTAMINATION UNDER THE TANK FOOTPRINTS

The horizontal and vertical extent of soil contamination beneath the tank footprints will be determined by trenching with a back hoe. Field personnel will evaluate, describe and record lithology, odor, and all other observations pertinent to the geology of the site and contamination observed under and surrounding the ASTs. Grab samples will be field screened for total ionizable vapor concentrations using a Photo Ionization Detector (PID) unit in a manner consistent with the NMED Soil/Water Sampling and Disposal Guidelines (NMED, 2000). All results will be recorded in a field notebook.

Samples will be collected from each trench (both the sidewall and bottom). The soil samples will be submitted to the laboratory (Trace Analysis or Pinnacle) for analysis by EPA Method 8021 (BTEX), 418.1 (TPH) and 300 (chloride), utilizing extraction techniques consistent with the NMED Soil/Water Sampling and Disposal Guidelines (NMED, 2000). Due to the presence of lead paint on the ASTs, total lead will be quantified in the soil samples by EPA Method 6020. All proper chain-of-custody procedures will be followed.

All open trenches will be backfilled and compacted when the soil sampling has been completed.

# TASK 8 – INVESTIGATE THE EXTENT OF CHLORIDE CONTAMINATION IN SURFACE SOILS

In order to assess the extent of chloride contamination in surface soil at the site, a grid will be established at the site, which will result in the collection of 10, six inch composite samples. It is also recommended that one additional sample be collected near the site in order to establish a back ground level for chloride in the immediate vicinity. The samples will be collected from the surface to six inches below surface grade (BSG) with a hand auger and placed in 16 ounce glass jars. The samples will be shipped to the laboratory for analysis by EPA Method 300 (chloride). All proper chain-of-custody procedures will be followed.

## TASK 9 - PREPARE AND SUBMIT PHASE I INVESTIGATION REPORT

Following completion of fieldwork, a Phase I Investigation Report will be prepared and submitted to the OCD Project Manager. The report will include, but not be limited to the following:

- A site map showing all buried pipelines and electrical hazards;
- The NORM survey results;
- Volume of material removed from the tanks, manifests, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved;
- Tank reclamation or scrap iron facility used;
- Volume/weight of trash removed and the disposal/recycling company used;
- Tabulation of all analytical data gathered during the investigation;
- A map, or maps, with cross-sections showing the location, depth and concentrations of the remaining soil contamination;
- The Phase II remediation techniques and recommendations pursuant to the scope of work, section 7, parts a, b and c.

#### **ASSUMPTIONS**

- Excavation areas will be free of underground utilities;
- Excavated areas will be finished with backfill;
- Access will be during normal working hours;
- Trenching under tanks or overflow will be limited to one trench across the diameter of each tank/overflow to a depth of 2.5 feet, and will be completed in one working day. Additional trenching will be available on a contingency basis;
- All waste at the site is considered exempt oil field waste. If, during the course of the investigation, the waste becomes classified as non-exempt then additional testing (TCLP and RCI to acquire a C-138 Oil Commission Permit) and disposal fees will be required;
- All laboratory fees will be billed under a separate price agreement between the OCD and the laboratories

#### **INSURANCE**

RESPEC maintains at its own expense the following insurance plans that meet or exceed the services to be performed under the terms of this work plan:

- Workers' compensation insurance-statutory.
- Employer's liability insurance of \$500,000 per occurrence, \$1,000,000 aggregate.
- Comprehensive general liability insurance of \$1,000,000 per occurrence, \$1,000,000 aggregate.

- Vehicle liability insurance of \$500,000 per occurrence (property damage and bodily injury combined).
- RESPEC will provide the owner/operator (O/O), within twenty (20) working days of the contract signing, a certificate of insurance naming the O/O as the certificate holder.

Respectfully submitted by:

John R. Bunch, P.G.

**Project Geologist** 

C.S. No. 194

# **SCOPE OF WORK**

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

PHASE I INVESTIGATION AND REMEDIATION ARAHO INC.
FORMER INJECTION WELL DISPOSAL FACILITY LEA COUNTY, NEW MEXICO

**APRIL 3, 2003** 

## I. INTRODUCTION

#### A. PURPOSE

The State of New Mexico Oil Conservation Division of the Energy, Minerals and Natural Resources Department (OCD) is conducting a Phase I investigation and cleanup at the Araho, Inc. former injection well disposal facility. The New Mexico State Highway and Transportation Department, Site Maintenance & Monitoring, Purchase Agreement 30-805-09-18056 will be used on this job.

## B. **SUMMARY**

The contractor shall perform the work necessary to conduct a Phase I cleanup and investigation to include the removal of the tank fluids, tanks, equipment, pipe and trash; and determine the nature extent of subsurface soil contamination. The Contractor shall also compile volume and cost estimates with regards to the soil contamination and prepare a cost effective Phase II investigation and cleanup proposal that can be implemented at this location. This site is suitable for on site composting. Araho, Inc. is located in the NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico (see figure 1, and photos).

# C. PROCUREMENT MANAGER

The OCD has designated a Procurement Manager who is responsible for the conduct of this procurement whose name, address and telephone number are listed below.

Martyne J. Kieling New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505 Phone: 505-476-3488

Fax: 505-476-3462

e-mail: mkieling@state.nm.us

All deliveries via express carrier should be addressed as above. Any inquiries or requests regarding this procurement should be submitted to the Procurement Manager in writing. Other state employees do not have the authority to respond on behalf of the Agency.

# D. <u>BACK GROUND INFORMATION</u>

Araho Inc. operated from 1974 to 1993 as an injection well disposal facility. The Araho site is located in the NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico. The surface is owned by the city of Lovington. The OCD is in the process of obtaining an access agreement with the city of Lovington in order for contract work to be performed. The facility has a large lined waste holding pit. This pit is not included in the OCD Phase I investigation and cleanup. However, Navajo Refining and their contractor will be managing the cleanup of the pit portion of the facility. The two portions of the project may be occurring at the same time or they may be staggered.

Depth to ground water at the site is estimated to be approximately 80 feet. The local ground water gradient is estimated to be toward the southeast. The OCD recommends that the contract vendors visit the site prior to submitting an estimate. The following table lists the major items located at the site and the estimated volume.

ITEM	SIZE / VOLUME ESTIMATES
Facility Dimensions	293'x 410
Lined Pit 125' x 120' x 4' Outside Pit Berm 145' x 145' x 4'	Not included in this estimate  Not included in this estimate
3000 bbl tank	1000 bbls of material
210 bbl tank	50 bbls of material
750 bbl tank	250 bbls of material
500 bbl tank	empty
500 bbl tank	100 bbls of material
200 bbl tank open top fiberglass	200 bbls and overflowing
200 bbl tank	empty
750 bbl tank	empty
pipe	1000 feet
55 gal drum	15 drums
Assorted trash	volume not assessed

# II. TECHNICAL SPECIFICATIONS

## The contractor shall:

- 1. Perform a One-Call and map the buried pipelines and all electrical hazards on site.
- Perform a naturally occurring radioactive materials (NORM) survey of all pipes and equipment prior to disposal. A registered NORM surveyor must perform NORM surveys. The Regulations that pertain to NORM are 19.15.9.714 NMAC and 20.3.14 NMAC. The New Mexico Environment Department Radiation Control Bureau can be contacted for additional information regarding registration and licenses.

- 3. Remove material within the tanks for recycling, estimated to be 1600 bbls. Remove all tanks for recycling or disposal (see photos and table on the preceding page). The material and tanks must be sent to an OCD-approved facility and must be disposed/recycled in accordance with the rules of the OCD.
- 4. Remove trash at the site to include barrels, buckets, batteries, pipes (buried and surface), electrical meters, and other trash items. Perform any testing that may be necessary prior to disposal. All samples taken during Phase I of the investigation will be sent to one of the laboratories currently covered by a separate purchase agreement with the OCD (Trace Analysis or Pinnacle).
- 5. Investigate nature and extent of contamination below the tank footprints if there is visual evidence that the tank leaked or overflowed.
  - a. Investigate the extent of contamination beneath the tank footprints by trenching with a backhoe. Field photo ionization detector (PID) measurements will be used as a screening tool. Samples will be taken from each trench and will be sent for laboratory TPH, BTEX and chloride analysis. Back fill open trenches when finished.
- 6. Investigate the extent of chloride contamination in the surface soils at the site. A grid will be marked off on the site and 10, six (6)-inch compost samples will be taken.
- 7. Provide Estimates on the following Phase II remediation techniques.
  - a. Estimate the volume and cost to remove the contaminated material based on the trenching and sample analysis. Contaminated soil must be sent to an OCD-approved landfarm for reclamation. Estimate the cost for clean fill. Clean fill should be backhauled from the landfarm to help decrease trucking charges.
  - b. Estimate the volume and cost to excavate and construct compost piles on site. The contaminated material should be mixed 4:1 with manure and enough water should be added to keep the piles moist. The piles should be turned every four (4) weeks for at least four (4) turning events. Estimate the cost to backfill and compact the excavations and contour the site with the remediated composted material on site.

- c. Propose any additional remediation techniques that would be cost affective based on the data gathered during Phase I.
- 8. Prepare and deliver to the OCD a final report that contains:
  - a. A site map showing all buried pipelines and electrical hazards.
  - b. NORM survey results.
  - c. Volume of material removed from the tanks, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved.
  - d. Tank reclamation or scrap iron facility used.
  - e. Volume/weight of trash removed and the disposal/recycling company used
  - f. Results of all analytical data gathered.
  - g. A map/cross-sections showing the location, depth and concentrations of the remaining soil contamination.
  - h. Phase II remediation techniques/proposals with estimates as outlined in 7 a, b, and c above.

# III. SCHEDULE

# A. <u>INITIATION OF WORK</u>

The investigation and cleanup shall be scheduled to commence as soon as possible after OCD approval of a contractor and purchase document for the investigation.

## B. <u>REPORT SUBMISSION</u>

A report on the investigation and cleanup shall be submitted to the OCD within 60 days of completion of the field sampling activities.

# IV. MERGER

This Agreement, and attachments thereto, together with NMSHTD Price Agreement No. 30-805-09-18056, constitutes the entire agreement between the parties hereto and all previous agreements, conditions, promises, inducements and understandings shall be deemed to have merged in this Agreement.

# V. ESTIMATE

A. Provide information regarding how you plan to implement the scope of work along with a cost estimate by April 30, 2003. For each item in the estimate, reference the corresponding individual line item from the contract. If there are additional items that do not fall under any line item please list the item as "at cost". Any Items billed at cost must be supported with receipts at time of invoicing. Please note that the New Mexico Gross Receipts Tax is currently 5.25 % for Lea County and for the Lovington Industrial Park. The rates listed in the table below are those listed in the Purchase Agreement 30-805-09-18056 for Vendor 3) Respec, Inc.

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001	6	\$75.00	Hour	\$450.00	Principal
*0002	18	\$70.00	Hour	\$1,260.00	Senior Scientist
*0003	20	\$63.00	Hour	\$1,260.00	Project Manager/Certified Scientist
*0004	40	\$50.00	Hour	\$2,000.00	Staff Scientist
*0005	66	\$35.00	Hour	\$2,310.00	Field Technician II
*0006		\$30.00	Hour	\$0.00	Field Technician I
*0007	8	\$35.00	Hour	\$280.00	Draftsperson II
*0008		\$25.00	Hour	\$0.00	Draftsperson I
*0009	4	\$32.00	Hour	\$128.00	Administrator
*0010		\$30.00	Hour	\$0.00	Secretary
*0011		\$20.00	Hour	\$0.00	Clerk
*0021	5	\$5.00	Day	\$25.00	PID
*0025		\$120.00	Day	\$0.00	Backhoe 1
*0026	6	\$157.00	Day	\$942.00	Backhoe 2
*0030	3	\$600.00	Day	\$1,800.00	Trackhoe 3
*0042	2300	\$0.32	Mile	\$736.00	Personal Vehicle Mileage
*0043	12	\$65.00	Each	\$780.00	Per Diem/Overnight
*0044	1600	\$13.00	50 gal/bbl	\$20,800.00	Disposal of Contaminated Fluids
*0046	18	\$80.00	Hour	\$1,440.00	Site Survey (NORM)
*0052		\$50.00	Day	\$0.00	Water Truck -
*0053	6	\$50.00	Day	\$300.00	Pick up Truck -
*0054		\$80.00	Day	\$0.00	Steam cleaner
	3	\$400.00	day	\$1,200.00	Shear - at cost
	70	\$100.00	ton	\$7,000.00	Tank & Pipe Disposal/Recycling - at cost
	20	\$100.00	ton	\$2,000.00	Trash Disposal - at cost

TOTAL =

\$44,711.00 (a) X 5.25% (NMGRT)

NOTE: LABORATORY COSTS ARE NOT INCLUDED

The New Mexico State Highway and Transportation Department, Site Maintenance & Monitoring, Purchase Agreement 30-805-09-18056 Contract vendor 3) Respec, Inc., 4775 Indian School Rd. NE, Suite 300, Albuquerque, NM 87110, Telephone 1-505-268-2661.

Accepted: RESPEC, INC.

SIGNATURE John R De TITAL: Project Geologist DATE: 4.29.3

#### RECEIVED

APR 3 0 2003

Environmental Bureau
Oil Conservation Division



AMEC Proposal No. PF03-0401

April 29, 2003 Ms. Martyne Kieling New Mexico Oil Conservation Division 1220 S. Saint Frances Santa Fe, New Mexico 87505

RE: Cost Estimate for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico

Dear Ms. Kieling:

AMEC (AMEC Earth & Environmental) is pleased to submit this cost estimate for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico.

AMEC proposes to complete this project in accordance with purchase agreement number 308050918056 between the State of New Mexico and AMEC Earth and Environmental, Inc. This project will also be performed in accordance to the pricing and scope of work presented herein.

#### **SCOPE OF WORK**

On April 3, 2003, Ms. Martyne Kieling with the State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division (OCD) requested a cost estimate outlined in the Scope of Work for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico.

The Scope of Work will include the following:

- 1. Perform a One-Call to identify and mark buried utilities on the site.
- 2. Perform a Naturally Occurring Radioactive Materials (NORM) survey of all pipes and equipment prior to disposal to be completed by a registered NORM surveyor.
- 3. Remove solids and liquids from within each tank for recycling at an approved OCD facility. AMEC estimates that approximately 2,500 bbls of materials were located within the tanks at the time of our site visit on April 17, 2003.
- 4. Remove refuse that includes barrels, buckets, batteries, pipes, electrical meters and other refuse. Perform sampling and testing as required prior to disposal.
- 5. Investigate the nature and extent of contamination below tank footprints by trenching with a backhoe. AMEC will use a photo ionization detector (PID) to screen soils and will obtain soil samples for submittal to the OCD approved laboratory for analysis of TPH, BTEX and Chlorides. The trenches will be backfilled when this phase of the investigation is complete. AMEC will attempt to use a small backhoe (excavate up to 12 feet) to complete the trenching investigation. Site conditions (caliche) may require the use of a large trackhoe to

AMEC Earth & Environmental 2060 Afton Place Farmington, NM 87401 (505) 327-7928

www.amec.com

Phase I Investigation and Remediation – Araho Inc. AMEC Proposal No. PF03-0401 April 29, 2003 Page 2 of 4



penetrate into the subsurface to adequately define the extent of contamination. AMEC has provided pricing for each option.

- 6. Investigate the extent of Chloride contamination in the surface soils (up to six inches deep at the site). AMEC will mark the site into 10 grid areas. Within each of the 10 areas, a composite sample will be obtained from four, four-ounce aliquots. The composite sample will be mixed thoroughly in a plastic bag and one four-ounce composite sample will be obtained for submittal to the OCD approved laboratory for analysis of Chlorides.
- 7. AMEC will provide estimates for completing Phase II remediation of the site as follows:
  - a. Estimate volume and cost to remove the contaminated material based on the Phase I Investigation results, removal of soils to an approved OCD reclamation facility and backfilling excavations with clean soil.
  - b. Estimate the volume and cost to excavate and construct compost piles on site. The contaminated soils will be mixed in 4:1 ratio with manure, watered or moistened adequately and turned or aerated every four weeks, for four turning events. Cost will include backfilling excavations after approval from the OCD.
  - c. Provide alternative remediation techniques that would be cost effective based on the data gathered during the Phase I Investigation.
- 8. Prepare and deliver a report to the OCD that includes the following:
  - a. A site map showing buried pipelines and electrical hazards
  - b. NORM survey results
  - c. Volume of material removed from the tanks, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved.
  - d. Tank reclamation or scrap iron facility used.
  - e. Volume/weight of trash removed and the disposal company used.
  - f. Results of analytical data gathered.
  - g. A map/cross-sections showing the location, depth and concentrations of the remaining soil contamination
  - h. Phase II remediation techniques/proposals with estimates as outlined
  - i. Deliver the report to the OCD within 60 days of completion of field sampling activities.

AMEC will utilize key subcontractors to accomplish much of the on-site physical clean up and removal of materials from the site. An experienced AMEC project manager will be present during all site activities outlined for the Phase I Investigation. AMEC will perform aspects of the project involving site evaluations, characterization, and estimates and reporting.

Phase I Investigation and Remediation - Araho Inc. AMEC Proposal No. PF03-0401 April 29, 2003 Page 3 of 4



#### **COST ESTIMATE**

AMEC estimates costs to complete this project for the ODC on a turnkey basis listed as follows:

LN	QTY		RATE	UNIT	COST	DESCRIPTION
*0001	4	\$	100.00	Hour	\$400.00	Principal
*0002	50	\$	72.00	Hour	\$3,600.00	Senior Scientist
*0003	50	\$	59.00	Hour	\$2,950.00	Project Manager/Certified Scientist
*0004	100	\$	49.00	Hour	\$4,900.00	Staff Scientist
*0010	10	\$	22.00	Hour	\$220.00	Secretary
*0021	5	\$	10.00	Day	\$50.00	PID
*0042	1500	\$	0.25	Mile	\$375.00	Personal Vehicle Mileage
*0043	15	\$	68.00	Each	\$1,020.00	Per Diem/Overnight
*0053	15	\$	43.00	Day	\$645.00	Pick up Truck -
					\$0.00	Subcontracted Services - At Cost
	2500	\$	9.00	bbl	\$22,500.00	Clean Tanks, remove dispose solids/liquids
	1	\$5	,293.50	LS	\$5,293.50	Demo Tanks and recycle/dispose
	1	\$5	,900.00	LS	\$5,900.00	Surface Cleanup - piping, trash, etc.
	15	\$	125.00	Hour	\$1,875.00	Large Trackhoe/Operator \$125/Hour
	15	\$	60.00	Hour	\$900.00	Small Backhoe/Operator \$60/Hour

Subtotal (a) X 5.25% (NMGRT) =

\$50,628.50 \$ 2,658.00

Estimated Project Total: \$53,286.50

Project cost will vary pending options or combinations of options (backhoe vs. trackhoe) in addition to the total amount of time and effort to complete the project.

#### **ASSUMPTIONS AND CLARIFICATIONS**

- 1. AMEC assumes that the New Mexico "One Call" system will identify all active gas, electric and other utility lines located within the project area. AMEC will not be responsible for damage to any lines that are not properly identified or marked.
- 2. This proposal shall become part of the contract for services to be provided.
- 3. AMEC assumes that any and all of these materials associated with this project are RCRA exempt oilfield wastes that can be transported to an OCD approved facility for recycling or disposal. AMEC assumes no liability associated with the ultimate fate of any materials associated with this project.
- 4. The OCD will provide authorized access to the site for AMEC and AMEC's selected subcontractors.
- 5. NORM disposal pricing will be provided at cost upon determination of volumes that may be required for transport and disposal.
- 6. AMEC will not take ownership of special or hazardous waste that may be encountered during the course of this project.

Phase I Investigation and Remediation – Araho Inc. AMEC Proposal No. PF03-0401 April 29, 2003 Page 4 of 4



7. AMEC assumes all work can be performed in Level D personal protective equipment (i.e., hard hat, steel-toed boots, and safety glasses).

AMEC appreciates the opportunity to provide this cost estimate to the OCD for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico. Please call Don Fernald at (505) 327-7928 or Mark Ehrlich at (915) 686-1978 if you need additional information, or if we can be of further assistance.

Sincerely,

AMEC EARTH & ENVIRONMENTAL, INC.

Don Fernald

Program Manager



BRUCE KING

GOVERNOR

#### STATE OF NEW MEXICO

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT CONSERVE ON DIVISION

## OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

194 JUM 19 AM 8

NMOCD Inter-Correspondence

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

To:

Jerry Sexton-District I Supervisor

From:

Wayne Price-Environmental Engineer District I

Date:

June 8, 1994

Reference:

Request from Jerry Sexton for recommendations on meeting held June 7, 1994-(minutes attached)

Subject:

Araho Class I well site "pit closure"

Comments:

Per your request I am making a recommendation that Bill Olson of our NMOCD Environmental Bureau take lead project. on this recommendation on a telephone conversation with Roger Anderson our Environmental Bureau Chief.

Bill LeMay-NMOCD Director cc:

Roger Anderson-Environmental Bureau Chief

Attachments-1



#### INTER-OFFICE MEMO

To file:

Araho Inc.

Date:

June 7, 1994

Time:

9:30 am

Telephone call: \_\_\_ Meeting: XX\_ Other: \_\_\_

Person called or attending:

Wayne Price, Jerry Sexton- NMOCD Mrs. Dorothy Runnels-Owner of Araho Inc. Steve & Cindy Pearce-representing Lea Fishing Tools

REFERENCE:

Minutes of Meeting held in Jerry Sexton's office.

Subject:

Araho Pit Closure located at the "old" Araho class

I disposal well-

Comments:

Steve Pearce, a close friend of Mrs. Runnels is helping her as a friend to properly close the pit. His understanding of the oil business and apparently an association through another disposal well where he had worked on a well and became the operator of that well due to a possible default by Mrs. Runnels prompted him to assist her.

They presented a verbal plan of action where they want to remove the liquids from the pit and dispose of at the Araho SDW # 1. The remaining material would then be bioremediated. They apparently want to do all of this in house.

They ask me if this plan would be ok! I informed them that there would be a number of environmental hoops to jump through in order to make this determination. I told them that the exempt status of the pit would have to be investigated and maybe some analytical work such as "metals" might have to be run. Jerry indicated that this has already been done and it is in some file either here or Santa Fe.

Mrs. Runnels said that the NMED has already signed off on it. She gave me a copy of a letter April 26, 1991 to her from the NMED. (see attachments)

It was pointed out during the meeting that the pit is lined with a heavy liner and is still in good shape.

It was pointed out in the meeting that if they could do it this way then everyone would benefit, the site would be cleaned up at the expense of Mrs. Runnels. If large demands are placed on this project, Mrs. Runnels was afraid her creditors might force her out of business and the site would be left to the state to clean up. She sincerely wants to do the right thing and abide by the environmental rules and regulations.

The meeting was concluded by indicating that the Santa Fe NMOCD Environmental Group would have to be involved.

Wayne Price



State of New Mexico

#### ENVIRONMENT DEPARTMENT

Harold Runnels Building 1190 St. Francis Drive, P.O. Box 26110 Santa Fe, New Mexico 87502 (505) 827-2850

JUDITH M. ESPINOSA SECRETARY

> RON CURRY DEPUTY SECRETARY

BRUCE KING GOVERNOR

April 26, 1991

Mrs. Dorothy Runnels President Araho, Inc. 1621 S. Main Lovington, NM 88260



Dear Mrs. Runnels:

On February 15, 1990, the New Mexico Environmental Improvement Division, now the New Mexico Environment Department (NMED), conducted a hazardous waste inspection of your facility, Araho, Inc. This letter is NMED's notice that, based on our review of the information received, Araho has not violated the hazardous waste regulations.

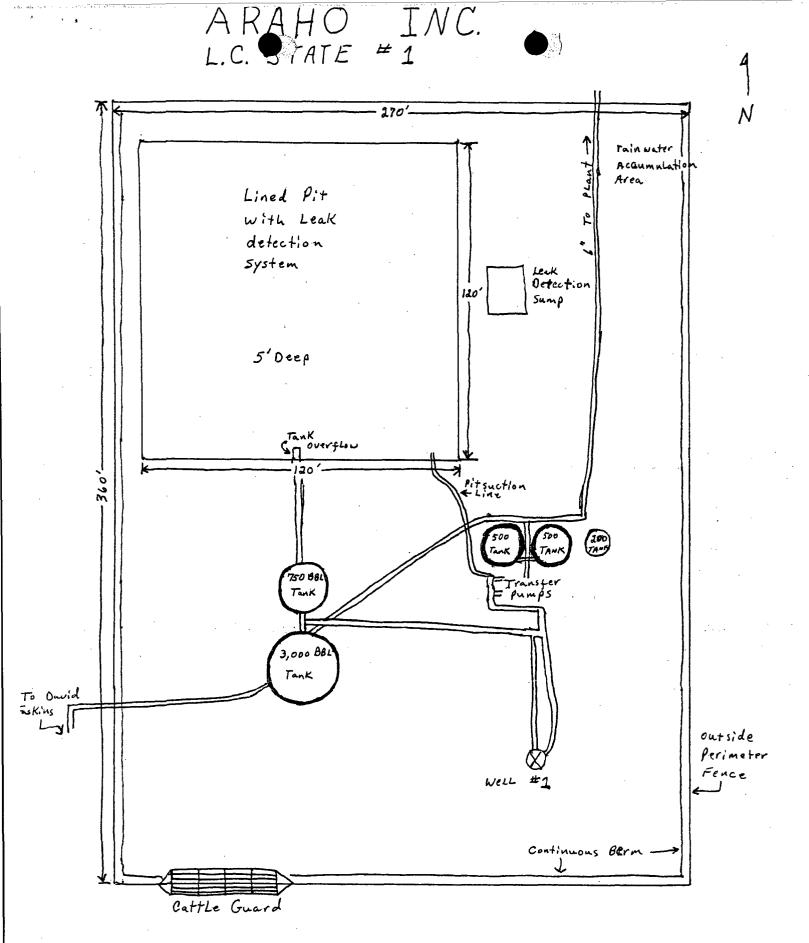
However, with new changes in the hazardous waste regulations, EID must inform you that you may not dispose of any refinery wastes (e.g. K049 and K051) in your wells. These wastes were prohibited from land disposal on August 8, 1990 (for wastewaters; for non-wastewaters the effective prohibition date is November 8, 1990).

If you have any questions concerning this information, please call me at 827-2928.

Sincerely,

Pate a. Ringenting

Patricia A. Ringgenberg Water Resource Specialist Hazardous and Radioactive Waste Bureau



Tanks and lines are in place. Pits are in place, but do not have leak detection system installed. Application for pit reconstruction will be forthcoming.

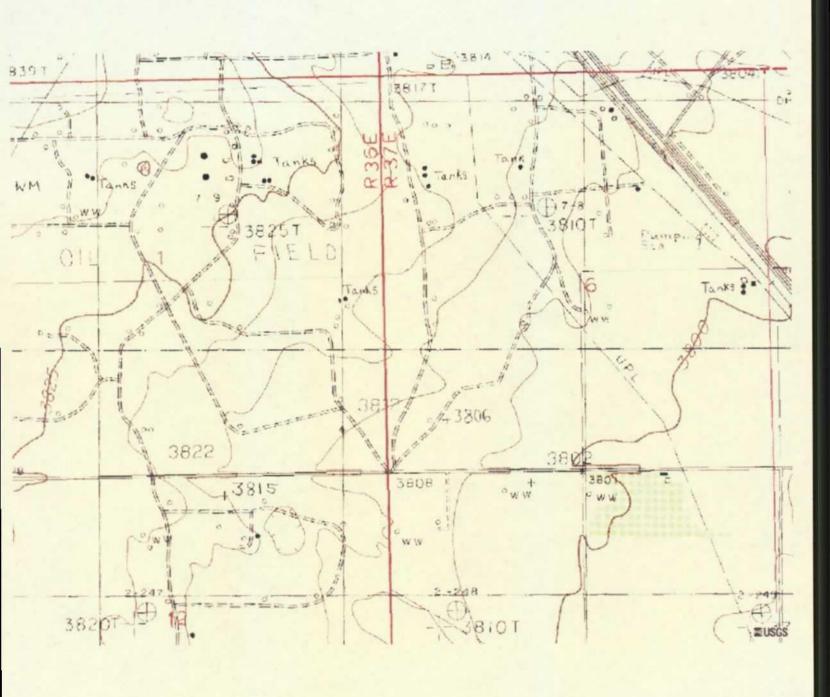
ARAHO INC. L.C. STATE #1 tain water Acaumulatio Area Lined Pit with Leak. detection System Leuk Octection 120' Sump 5'Deep Pitsuction Line 750 880 3,000 BBZ Tank To Owid outside Perimeter Fence Well #1 Continuous Berm Cattle Guard

Tanks and lines are in place. Pits are in place, but do not have leak detection system installed. Application for pit reconstruction will be forthcoming.

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L.C. STATE #1 270'rain water Accumulation Area Lined Pit with Leak detection System Leuk Detection 120' Sump 5'Deep Pit suction E Line 750 88 3,000 BBZ Tank To Owid outside Perimeter Fence Well #1 Continuous Berm. Cattle Guard

Tanks and lines are in place. Pits are in place, but do not have leak detection system installed. Application for pit reconstruction will be forthcoming.



# Kieling, Martyne

From:

Kieling, Martyne

Sent:

Tuesday, April 08, 2003 11:47 AM

To:

Johnson, Larry

Subject:

Araho

Larry,

FYI

Here is a copy of the scope of work that went out to each of the three companies listed on the Highway Dept contract.







SCOPE OF WORK1.doc

SCOPE OF WORK2.doc

SCOPE OF WORK3.doc

30

The bids are due by April 25, 2003. I have spoken with John Bunch with Respec. He is planning on visiting the site on Monday or Tuesday of next week. He has also offered to sample the paint chips from the tanks. The OCD will be paying for the analysis at Pinnacle Labs in Albuquerque. I have copied you on a letter to the City of Lovington Manager regarding an Access Agreement and will have him mail the signed originals to you.



LetLovington0408.d

ດຕ

Here are other letters that have gone out. You will get hard copies in the mail that are signed. So you do not have to print any of these.



Let040803.doc



Let0307.doc

Give me a call if you have any questions.

Martyne J. Kieling
Martyne J. Kieling

**Environmental Geologist** 

# **SCOPE OF WORK**

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

PHASE I INVESTIGATION AND REMEDIATION ARAHO INC.
FORMER INJECTION WELL DISPOSAL FACILITY LEA COUNTY, NEW MEXICO

APRIL 1, 2003

#### I. INTRODUCTION

#### A. PURPOSE

The State of New Mexico Oil Conservation Division of the Energy, Minerals and Natural Resources Department (OCD) is conducting a Phase I investigation and cleanup at the Araho, Inc. former injection well disposal facility. The New Mexico State Highway and Transportation Department, Site Maintenance & Monitoring, Purchase Agreement 30-805-09-18056 will be used on this job.

# B. SUMMARY

The contractor shall perform the work necessary to conduct a Phase I cleanup and investigation to include the removal of the tank fluids, tanks, equipment, pipe and trash; and determine the nature extent of subsurface soil contamination. The Contractor shall also compile volume and cost estimates with regards to the soil contamination and prepare a cost effective Phase II investigation and cleanup proposal that can be implemented at this location. This site is suitable for on site composting. Araho, Inc. is located in the NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico (see figure 1, and photos).

## C. PROCUREMENT MANAGER

The OCD has designated a Procurement Manager who is responsible for the conduct of this procurement whose name, address and telephone number are listed below.

Martyne J. Kieling New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505 Phone: 505-476-3488

Fax: 505-476-3462

e-mail: mkieling@state.nm.us

All deliveries via express carrier should be addressed as above. Any inquiries or requests regarding this procurement should be submitted to the Procurement Manager in writing. Other state employees do not have the authority to respond on behalf of the Agency.

## D. <u>BACK GROUND INFORMATION</u>

Araho Inc. operated from 1974 to 1993 as an injection well disposal facility. The Araho site is located in the NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico. The surface is owned by the city of Lovington. The OCD is in the process of obtaining an access agreement with the city of Lovington in order for contract work to be performed. The facility has a large lined waste holding pit. This pit is not included in the OCD Phase I investigation and cleanup. However, Navajo Refining and their contractor will be managing the cleanup of the pit portion of the facility. The two portions of the project may be occurring at the same time or they may be staggered.

Depth to ground water at the site is estimated to be approximately 80 feet. The local ground water gradient is estimated to be toward the southeast. The OCD recommends that the contract vendors visit the site prior to submitting an estimate. The following table lists the major items located at the site and the estimated volume.

ITEM	SIZE / VOLUME ESTIMATES
Facility Dimensions	293' x 410
Lined Pit 125' x 120' x 4'	Not included in this estimate
Outside Pit Berm 145' x 145' x 4'	Not included in this estimate
3000 bbl tank	1000 bbls of material
210 bbl tank	50 bbls of material
750 bbl tank	250 bbls of material
500 bbl tank	empty
500 bbl tank	100 bbls of material
200 bbl tank open top fiberglass	200 bbls and overflowing
200 bbl tank	empty
750 bbl tank	empty
pipe	1000 feet
55 gal drum	15 drums
Assorted trash	volume not assessed

# II. TECHNICAL SPECIFICATIONS

#### The contractor shall:

- 1. Perform a One-Call and map the buried pipelines and all electrical hazards on site.
- 2. Perform a naturally occurring radioactive materials (NORM) survey of all pipes and equipment prior to disposal. A registered NORM surveyor must perform NORM surveys. The Regulations that pertain to NORM are 19.15.9.714 NMAC and 20.3.14 NMAC. The New Mexico Environment Department Radiation Control Bureau can be contacted for additional information regarding registration and licenses.

- 3. Remove material within the tanks for recycling, estimated to be 1600 bbls. Remove all tanks for recycling or disposal (see photos and table on the preceding page). The material and tanks must be sent to an OCD-approved facility and must be disposed/recycled in accordance with the rules of the OCD.
- 4. Remove trash at the site to include barrels, buckets, batteries, pipes (buried and surface), electrical meters, and other trash items. Perform any testing that may be necessary prior to disposal. All samples taken during Phase I of the investigation will be sent to one of the laboratories currently covered by a separate purchase agreement with the OCD (Trace Analysis or Pinnacle).
- 5. Investigate nature and extent of contamination below the tank footprints if there is visual evidence that the tank leaked or overflowed.
  - a. Investigate the extent of contamination beneath the tank footprints by trenching with a backhoe. Field photo ionization detector (PID) measurements will be used as a screening tool. Samples will be taken from each trench and will be sent for laboratory TPH, BTEX and chloride analysis. Back fill open trenches when finished.
- 6. Investigate the extent of chloride contamination in the surface soils at the site. A grid will be marked off on the site and 10, six (6)-inch compost samples will be taken.
- 7. Provide Estimates on the following Phase II remediation techniques.
  - a. Estimate the volume and cost to remove the contaminated material based on the trenching and sample analysis. Contaminated soil must be sent to an OCD-approved landfarm for reclamation. Estimate the cost for clean fill. Clean fill should be backhauled from the landfarm to help decrease trucking charges.
  - b. Estimate the volume and cost to excavate and construct compost piles on site. The contaminated material should be mixed 4:1 with manure and enough water should be added to keep the piles moist. The piles should be turned every four (4) weeks for at least four (4) turning events. Estimate the cost to backfill and compact the excavations and contour the site with the remediated composted material on site.

- c. Propose any additional remediation techniques that would be cost affective based on the data gathered during Phase I.
- 8. Prepare and deliver to the OCD a final report that contains:
  - a. A site map showing all buried pipelines and electrical hazards.
  - b. NORM survey results.
  - c. Volume of material removed from the tanks, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved.
  - d. Tank reclamation or scrap iron facility used.
  - e. Volume/weight of trash removed and the disposal/recycling company used
  - f. Results of all analytical data gathered.
  - g. A map/cross-sections showing the location, depth and concentrations of the remaining soil contamination.
  - h. Phase II remediation techniques/proposals with estimates as outlined in 7 a, b, and c above.

### III. SCHEDULE

### A. INITIATION OF WORK

The investigation and cleanup shall be scheduled to commence as soon as possible after OCD approval of a contractor and purchase document for the investigation.

### B. <u>REPORT SUBMISSION</u>

A report on the investigation and cleanup shall be submitted to the OCD within 60 days of completion of the field sampling activities.

### IV. MERGER

This Agreement, and attachments thereto, together with NMSHTD Price Agreement No. 30-805-09-18056, constitutes the entire agreement between the parties hereto and all previous agreements, conditions, promises, inducements and understandings shall be deemed to have merged in this Agreement.

### V. <u>ESTIMATE</u>

A. Provide information regarding how you plan to implement the scope of work along with a cost estimate by April 30, 2003. For each item in the estimate, reference the corresponding individual line item from the contract. If there are additional items that do not fall under any line item please list the item as "at cost". Any Items billed at cost must be supported with receipts at time of invoicing. Please note that the New Mexico Gross Receipts Tax is currently 5.25 % for Lea County and for the Lovington Industrial Park.

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001		\$75.00	Hour		Principal
*0002		\$70.00	Hour		Senior Scientist
*0003		\$63.00	Hour		Project Manager/Certified Scientist
*0004		\$50.00	Hour		Staff Scientist
*0005		\$35.00	Hour		Field Technician II
*0006		\$30.00	Hour		Field Technician I
*0007		\$35.00	Hour		Draftsperson II
*0008		\$25.00	Hour		Draftsperson I
*0009		\$32.00	Hour		Administrator
*0010		\$30.00	Hour		Secretary
*0011		\$20.00	Hour		Clerk
*0021		\$5.00	Day		PID
*0025		\$120.00	Day		Backhoe 1
*0026		\$157.00	Day		Backhoe 2
*0027		\$180.00	Day		Backhoe 3
*0028		\$350.00	Day		Trackhoe 1
*0029		\$500.00	Day		Trackhoe 2
*0042		\$0.32	Mile		Personal Vehicle Mileage
*0043		\$65.00	Each		Per Diem/Overnight
*0044		\$140.00	50 gal/bbl		Disposal of Contaminated Fluids
*0052		\$50.00	Day		Water Truck -
*0053		\$50.00	Day		Pick up Truck -
*0054		\$80.00	Day		Steam cleaner
			Day		Shear - at cost
			Ton		Tank & Pipe Disposal/Recycling - at cost
			Ton		Trash Disposal - at cost
			Day		Vacuum truck - at cost
				<del>,</del> -	

TOTAL =

(a) X 5.25% (NMGRT) =

**NOTE: LABORATORY COSTS ARE NOT INCLUDED** 

Contract Vendor 3) Respec, Inc., 4775 Indian School Rd. NE, Suite 300, Albuquerque, N	M
87110, Telephone 1-505-268-2661. Original e-mailed to john.bunch@respec.com.	

SIGNATURE TITAL DATE:	Accepted:	RESPEC, INC.			
	SIGNATURE		TITAL:	DATE:	



Araho, Inc OCD Inspection

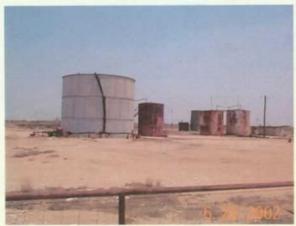


Photo 1: June 26, 2002



Photo 4: June 26, 2002



Photo 2: June 26, 2002



Photo5: August 2000



Photo 3: June 26, 2002



Photo 6: August 2000



Photo 7: August 2000



Photo 10: August 2000



Photo 8: August 2000



Photo 9: August 2000



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

### **BILL RICHARDSON**

Governor

Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

April 8, 2003

Pat Wise City Manager City of Lovington P.O. Box 1269 Lovington, NM 88260

Dear Mr. Wise:

Enclosed please find a Temporary Grant of Easement for the City's review. If it is acceptable please have it signed and notarized. The original should be returned to Larry Johnson of the OCD Hobbs Office so we may have it registered with the County Clerk. Larry Johnson's address follows:

Larry Johnson Oil Conservation Division 1625 N. French Dr. Hobbs, New Mexico 88240

Phone (505) 393-6161 extension 111

I would like to thank you for your letter dated April 1, 2003 and the copy of the Right of Way Agreement with Araho, Inc. It was very helpful in preparing the OCD document. The OCD has notified Araho, Inc. of its plans and has begun soliciting bids for the project. I will keep you informed on our progress and any anticipated start dates when they become available.

Sincerely,

Martyne J. Kieling

**Environmental Geologist** 

cc: OCD Hobbs



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

### BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

April 8, 2003

Lori Wrotenbery
Director
Oil Conservation Division

John Bunch Respec, Inc. 4775 Indian School Rd. NE, Suite 300 Albuquerque, NM 87110

Don Fernald AMEC 2060 Afton Place Farmington, NM 87401

Joe Tracy Intera, Inc. 6501 Americas Pkwy NE Albuquerque, NM 87110

RE: Araho Inc. Scope of Work and Bid Request.

Dear John, Don, and Joe

Enclosed please find additional information on the Araho Inc. facility I have located an old sketch map in the file that shows pipe that is most likely below grade at the facility. I hope this helps with your estimates. Please only consider the removal of pipe that is inside of the fence line.

The OCD will be having the paint on the tanks sampled and analyzed for lead. I will copy you all when the results are in.

Sincerely,

Martyne J. Kieling

**Environmental Geologist** 

cc: Hobbs OCD

Sec 1-TWP 175-Rge 36 E

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### GRANT OF RIGHT OF WAY AND EASEMENT

### KNOW ALL MEN BY THESE PRESENTS THAT:

In consideration of One (\$1.00) Dollar and other good and valuable consideration, the CITY OF LOVINGTON, Lea County, New Mexico, hereinafter called Grantor does herewith grant, bargain, sell and convey unto ARAHO, INC., a New Mexico Corporation, hereinafter called Grantee, a right of way and easement Thirty (30) feet in width, on, over, and through the lands of Grantor, hereinafter described, for the purpose of constructing, maintaining using and operating one or more underground pipelines, and in the case of Parcel Number 3, surface installations, for the purpose of conveying various liquid substances over, across, through and under the lands hereinafter described, together with the right to excavate and refill ditches for the location of such pipelines and surface installation. Said right of way and easement is more particularly described as follows:

PARCEL NO. 1: A strip of land 30 feet wide, being 15 feet right and 15 feet left of the following description survey of center line:

Beginning at Eng. Sta. 31+30, a point on the South boundary line of Section 36, Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, from which the Southeast corner of the said Section 36 bears North 89°51' East, a distance of 655 feet; thence North 19°30' West, crossing the City of Lovington, New Mexico land, a distance of 1526 feet to Eng. Sta. 46+56; thence North 53°10' East, a distance of 890 feet to Eng. Sta. 55+46, a point on the West boundary line of the Famariss Oil and Refining Company Plant Site, from which the East Quarter corner of the said Section 36 bears North 32°16' East, a distance of 792 feet. 146. 42 Rods

PARCEL NO. 2: A strip of land 30 feet wide, being 15 feet right and 15 feet left of the following described survey of center line:

Beginning at Eng. Sta. 1-04.5, a point on the North bound-

ary line of the Proposed Salt Water Disposal Plant Site, from which the East Quarter corner of Section 1, Township 17 South, Range 3 East, N. M. P. M., Lea County, New Mexico bears North 58°01' East, a distance of 661.6 feet; thence, North 2'30' East, crossing the City of Lovington, New Mexico land, a distance of 2395.5 feet to Eng. Sta. 25-00; thence, North 19°30' West, a distance of 630 feet to Eng. Sta. 31-30, a point on the North boundary line of the said Section 1, from which the Northeast corner of the said Section 1 bears North 89°51' East, a distance of 655 feet. 183.36 Rods

PARCEL NO. 3: A tract of land containing 1 acre, more or less, and being a certain part of the Southeast Quarter (SE/4) of Section 1, Township 17 South, Range 36 East, N.M.P.M., Lea County, New Mexico, and is more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

This grant shall carry with it the right to inspect, patrol, alter, remove, replace, reconstruct and repair the said pipelines, valves, and other appurtenances, the right to mark the location of said right of way by suitable markers set and maintained in the ground at locations which shall not interfere with such reasonable use as Grantor shall make of the land within limits of said right of way, the right to use such lands of the Grantor immediately adjacent to either side of the right of way as may reasonably be required by Grantee in connection with the construction, reconstruction, maintenance, replacement and removal of the pipelines, valves, and other appurtenances and the right of ingress to and egress from the said right of way across the lands of the Grantor for all purposes useful or convenient in connection with or incidental to the exercise and enjoyment of the rights herein granted.

TO HAVE AND TO HOLD the above described rights and right of way

unto the Grantee, its successors and assigns, for as long as Grantee desires to exercise the same, and Grantee may assign the rights and right of way herein granted, either in whole or in part, subject to the terms of this grant.

The pipes, valves and other appurtenances shall at all times remain the property of Grantee, notwithstanding the same may be annexed or affixed to the freehold, and shall at any time and from time to time be removable, in whole or in part, by Grantee, its successors or assigns.

In the event Grantee permanently abandons the pipelines, Grantee, at its option, may leave the pipe in place and shall execute and record a reconveyance and release of this grant.

Grantor reserves the right to full use and enjoyment of said premises, except for the purposes herein granted, provided that such use and enjoyment shall not hinder, conflict or interfere with the exercise of Grantee's right hereunder, and that no building, reservoir or structure shall be constructed on the said right of way without Grantee's written consent.

Grantee, insofar as it is practicable to do so, shall bury all pipe to a sufficient depth at time of construction so as not to interfere unreasonably with the ordinary cultivation of the right of way and shall restore the surface of the ground, so far as is practicable, to its condition prior to installation of the pipe.

Grantee shall pay Grantor the reasonable amount of actual damages to crops, livestock, fences, buildings, private roads, and other improvements caused by it on said lands in the construction or reconstruction of the pipeline or pipelines or in the exercise of the right of ingress or egress.

Grantor represents, covenants and warrants that such of the undersigned as are shown on record in said county as owners in fee simple of the lands hereinabove described are indeed the owners of such fee simple title, subject only to outstanding encumbrances, if any, now on record in said county.

The provisions hereof shall inure to the benefit of and be binding upon the parties hereto, their respective heirs, representatives, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, these presents are hereby signed this 22 day of May, 1974.

CITY OF LOVINGTON Lea County, New Mexico

By: Suran Blenton
Mayor

ATTEST:

City Clerk Dy Mann

STATE OF NEW MEXICO

SE:

COUNTY

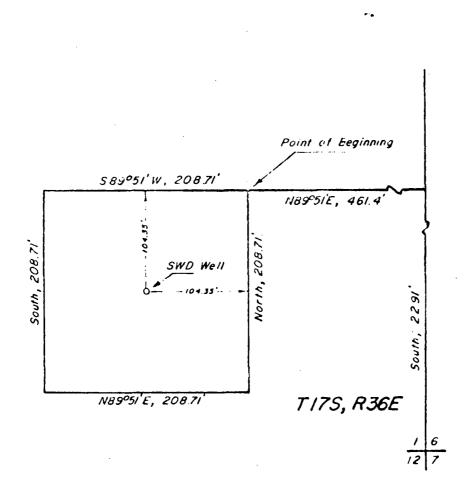
OF LEA

The above and foregoing Grant of Right of Way and Easement was acknowledged before me this day of May, 1974, by Harold Denton, Mayor of the City of Lovington, Lea County, New Mexico on behalf of said City.

MOTARY PUBLIC Robinson

My Commission Expires:

11-22-75



### DESCRIPTION

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter of Section 1, Township 17 South, Range 36 East, N. M. P. M., Lea County, New Mexico, and is more particularly described as follows:

Beginning at a point, the northeast corner of this tract, from which the southeast corner of the said Section 1 bears north 89°51' east, a distance of 461.4 feet, and south, a distance of 2291 feet; thence, south 89°51' west, a distance of 208.71 feet to the northwest corner of this tract; thence, south, a distance of 208.71 feet to the southwest corner of this tract; thence, north 89°51' east, a distance of 208.71 feet to the southeast corner of this tract; thence, north, a distance of 208.71 feet to the point of beginning.



I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W. WEST, N.M. PE & L.S. NO 676 TEXAS R.P.S. NO 1138

### ARAHO, INCORPORATED

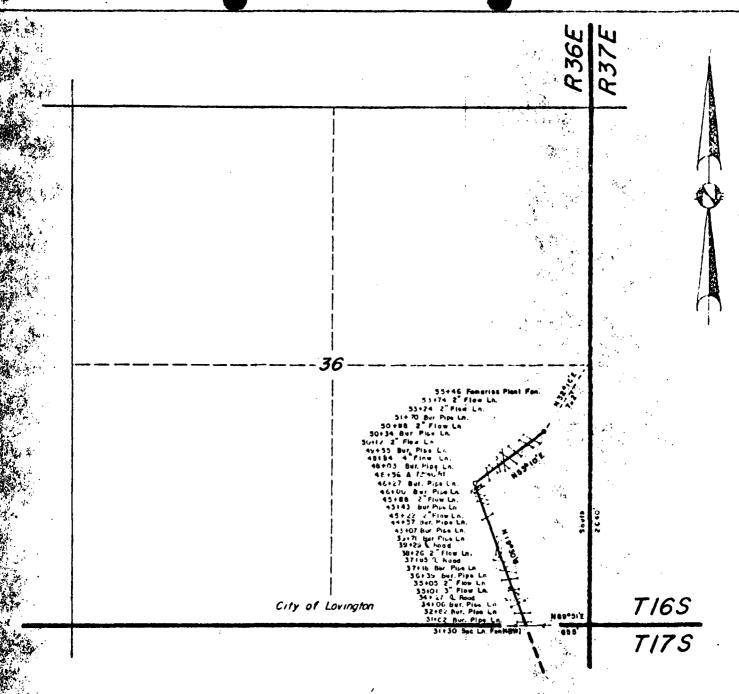
Proposed Salt Water Disposal Plant Site consisting of 1 acre of land in the southeast quarter of Section 1, Township 17 South, Range 36 East, NMPM., Lea County, New Mexico

JOHN W WEST ENGINEERING COMPANY
CONSULTING ENGINEERS HOBBS, NEW MEXICO

 Scale 1"=100"
 Drawn by chb

 Date April 20, 1974
 Sheet 1 of 1 Sheets

Percul #3



## DESCRIPTION

A strip of land 30 feet wide, being 15 feet right and 15 feet left of the following description survey of center line:

Beginning at Eng. Sta. 31+30, a point on the south boundary line of Section 36, Township 16 South, Range 36 East, N. M. P. M., Lea County, New Mexico, from which the southeast corner of the said Section 36 bears north 89°51' east, a distance of 655 feet; thence, north 19°30' west, crossing the City of Lovington, New Mexico land, a distance of 1526 feet to Eng. Sta. 46+56; thence, north 53°10' east, a distance of 890 feet to Eng. Sta. 55+46, a point on the west boundary line of the Famariss Oil and Refining Company Plant Site, from which the east quarter corner of the said Section 36 bears north 32°16' east, a distance of 792 feet.

676

IN MEXICO

146.42 Rods

I HEREBY CENTEY. THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPER-VISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE THO BELIEF.

JOHN W. WEST, N.M. PE. B L.S. NO.676

### ARAHO, INCORPORATED

Proposed salt water disposal pipe line crossing the City of Lovington, New Mexico land in Section 36, Township 16 South, Range 36 East, N. M. P. M., Lea County, New Mexico.

JOHN W WEST ENGINEERING COMPANY
CONSULTING ENGINEERS HOBBS NEW ME

Scale 1 = 1000 | Drawn by chb

Date April 19, 1974 | Sheet 1 of 1 Sheets

Parcel #1



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

April 7, 2003

Ms. Dorothy Runnels Araho, Inc. 8100 West Alabama Hobbs, NM 88242

Re: OCD Investigation and Cleanup

Araho, Inc. SE/4 of Section 1, Township 17 South, Range 36 East, NMPM Lea County, New Mexico

Dear Ms. Runnels:

The New Mexico Oil Conservation Division (OCD) hereby notifies you that the OCD is in the process of soliciting bids to begin an investigation and cleanup of the surface equipment and materials that are remaining at the Araho, Inc. former injection well facility at the above referenced location. The OCD has been in contact with the Lovington city manager, Pat Wise, to gain temporary access to the surface. In addition, Navajo Refining has proposed to cleanup the pit at the above location and has begun to solicit bids for that portion of the work.

The OCD has determined that this investigation and cleanup is necessary to protect public health and the environment. The Araho, Inc facility, including the lined pit, tanks, equipment, valve sumps and pipe will be removed, and contaminated soils will be removed or remediated on site. Salvageable equipment will be sold and any proceeds from such sales will be applied to the cost of clean-up. Please be advised that this OCD investigation and cleanup does not relieve Araho Inc. of responsibility. OCD reserves the right to seek reimbursement of costs it may incur from any existing or future assets of Araho, Inc. Furthermore, Araho, Inc is not relieved of any liability to any person who may be damaged should it be determined that Araho's operations have resulted in pollution of surface water, ground water, or the environment. In addition, this action does not relieve Araho, Inc. of responsibility for compliance with other federal, state or local laws or regulations.

If you have any questions regarding this action, please contact Martyne Kieling at (505) 476-3488.

Ms. Runnels April 7, 2003 Page 2

If Araho, Inc. objects to the proposed actions of OCD, you should file an application for a hearing with the Santa Fe office by April 21, 2003.

Sincerely,

Roger C. Anderson,

Environmental Bureau Chief

RCA/mk

xc: OCD Hobbs District

Mark Sanchez, Esq., Gary Regan P.A, P.O. Box 770, Hobbs, NM 88240

### Kieling, Martyne

From:

Kieling, Martyne

Sent:

Thursday, April 03, 2003 2:59 PM

To:

'john.bunch@respec.com'; 'ssabol@inter.com'; 'don.fernald@amec.com'

Subject:

Request for Bid

### Dear John, Stacy & Don:

Attached is a scope of work for an COD investigation and cleanup at the Araho Inc. former injection well facility. The site is between Lovington and Hobbs, New Mexico. If you wish to bid on this project, please provide a cost estimate, by April 25, 2003. The scope of work will be implemented under the State of New Mexico General Services Department Contract # 30-805-09-18056. For each item in the estimate, please reference the corresponding individual line item from the contract. If there are Items not covered please list them "At Cost" and provide the cost. I have also included and excel document that contains the table found within the Scope of Work. You may use the Excel table if you wish and re-insert it into the Scope of Work Document; Respec's table is listed on Tab 1, Amec's table is on Tab 2 and Intera's table is on Tab 3. I believe that I have entered all the correct bid prices but if I have made any errors please let me know. Also attached are photos and a map with directions.









SCOPE OF WORK3.doc

Estimat-scope.xls

Map & Directions.doc

Photos Scope of Work.doc

If you have any questions please contact me.

Sincerely,

Martyne J. Kieling

Martyne J. Kieling Environmental Geologist Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, NM 87505

Phone 505-476-3488 Fax 505-476-3462

# AND Pinnacle Laboratories Inc.

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2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413



PL I.D. 304120

May 1, 2003

NMOCD 1220 S. St. Francis Drive Santa Fe, NM 87505

RESPEC 4775 Indian School Rd NE Suite 300 Albuquerque, NM 87110

Project Name/Number: ARAHO SITE

Attention: Martyne Kieling/John Bunch

On **04/17/03**, Pinnacle Laboratories Inc., (ADHS License No. AZ0643 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.

General Manager

MR:jt

Enclosure

PINNACLE LABORATORIES 2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

**CLIENT** 

:NM OIL CONSERVATION DIVISION

DATE RECEIVED

:04/17/03

PROJECT#

: ARAHO SITE

PROJECT NAME

:(NONE)

REPORT DATE

:05/01/03

PL ID: 304120

PINNACLE	CLIENT		DATE
ID#	DESCRIPTION	MATRIX	COLLECTED
01 304120-01	PAINT CHIPS FROM SITE TANKS	AQUEOUS	04/14/03

---TOTALS---

MATRIX AQUEOUS **#SAMPLES** 

]



LOG NO: C3-04424

Received: 18 APR 03

Reported: 24 APR 03

Ms. Jacinta Tenorio Pinnacle Laboratories

2709-D Pan American Freeway Northeast

Albuquerque, NM 87107

Cl Project No: 304120

Project: 304120, NMOCD ARAHO SITE

Sampled By: Client

Code: 121530425

REPORT OF RESULTS

Page 1

04424-1 304120-01 04-14-03/16:05  PARAMETER 04424-1  Lead (6010B), mg/kg 210 Dilution Factor 2 Prep Date 04.21.03 Analysis Date 04.22.03 Batch ID PS065 Prep Method 3050B Analyst GSP	LOG NO SAMPLE DESCRIPTION ,	DATE/ SOLID OR SEMISOLID SAMPLES TIME SAMPLED
Lead (6010B), mg/kg       210         Dilution Factor       2         Prep Date       04.21.03         Analysis Date       04.22.03         Batch ID       PS065         Prep Method       3050B	04424-1 304120-01	04-14-03/16:05
Lead (6010B), mg/kg       210         Dilution Factor       2         Prep Date       04.21.03         Analysis Date       04.22.03         Batch ID       PS065         Prep Method       3050B		
·	Dilution Factor Prep Date Analysis Date Batch ID Prep Method	2 04.21.03 04.22.03 PS065 3050B



LOG NO: C3-04424 Received: 18 APR 03

Reported: 24 APR 03

Ms. Jacinta Tenorio Pinnacle Laboratories

2709-D Pan American Freeway Northeast

Albuquerque, NM 87107

Cl Project No: 304120

Project: 304120, NMOCD ARAHO SITE

Sampled By: Client

Code: 121530425

REPORT OF RESULTS

Page 2

			D	ATE/	
LOG NO	SAMPLE DESCRIPTION , QC RE	PORT FOR LIQUID	SAMPLES TI	ME SAMPLED	
04424-2 04424-3 04424-4 04424-5	Method Blank Lab Control Standard % Rec Matrix Spike % Recovery Matrix Spike Duplicate % R	•			
PARAMETER	<del></del>	04424-2	04424-3	04424-4	04424-5
Lead (6010	0B), mg/kg	<0.50	97 %	N/C	N/C
Dilution	Factor	1			
Prep Date	e	04.21.03			
Analysis	Date	04.22.03			
Batch ID		PS065	PS065	PS065	PS065
Prep Meth	nod	3050B			
Analvst		GSP			

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

See the Project Sample Inspection Form (PSIF) to determine if a sample was received that did not meet EPA requirements for sample collection, preservation, or holding time.

Final Page Of Report



### STL Pensacola Data Qualifiers for Final Report

The analyte was detected in the associated method blank and in the client's sample.

C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
Н	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may use this flag in place of negative numbers).

R1 Internal standard area exceeds the acceptance criteria R2 Calibration verification exceeds the acceptance criteria.

S1 The Method of Standard Additions (MSA) has been performed on this sample.

T Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound. TIC The compound is not included in the initial calibration curve. It is searched for qualitatively or as a

Tentatively Identified Compound.

U or < The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" or "<". W Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than

50% spike absorbance.

It is permissible to submit an Out-of-Control Events/Corrective Action form and/or Case Narrative in lieu of using above qualifiers.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

### **Abbreviations**

В

ND Not Detected at or above the STL Pensacola reporting limit (RL)

NS Not Submitted NA Not Applicable

MDL STL Pensacola Method Detection Limit RL STL Pensacola Reporting Limit

NoMS Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

### Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

### Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

### CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

# STL Pensacola PROJECT SAMPLE INSPECTION FORM



Lab	Order #: <u>C304424</u>	Da	te Received: 4/1863
1.	Was there a Chain of Custody? Yes No*	8.	Were samples checked for Yes No <sup>4</sup> N/A preservative? (Check pH of all H <sub>2</sub> O requiring preservative (STL-PN SOP 917) except VOA vials that
2.	Was Chain of Custody properly es No* filled out and relinquished?	9.	require zero headspace)* Is there sufficient volume for analysis requested?  No* N/A (Can)
3.	Were all samples properly Yes No* labeled and identified?	10.	Were samples received within Holding Time? (REFER TO STL-SOP 1040)
4.	Were samples received cold? Yes No* N/A (Criteria: 2° - 6°C: STL-SOP 1055)	11.	Is Headspace visible > ¼ " in Yes* No (N/A) diameter in VOA vials?*
5.	Did samples require splitting or Yes* No	12.	Were Trip Blanks Received? Yes No N/A
	compositing*?	13.	If sent, were matrix spike bottles returned?  N/A
6.	Were samples received in proper containers for analysis	14.	If sent, were T-Handles Yes No* N7A returned?
7.	requested? Were all sample containers received intact?  Yes No*	15.	If any issues, how was PM PSIF Verbal II
Out 1-3 4. II 5. S	of Control Events and Inspection Comments  COC/Sample ID/COC discrepancy:  They are Solid farm  Insufficient Ice  Delay in delivery  Other  Samples were Split  Composited Requestions  They are solid	(list s	of Shows the Matrix of AD but
7. E	Broken bottles/Test:	<del></del>	
	ncorrect pH:		
	Test/Matrix/Volume: Out of Holding Time/Test:		
11.	VOA headspace > 1/4" (list~size)		
LISI	additional comments by above number:		
jış	Decied By MHS Date: 4/18/8	Lo	gged By:  Date: 04/8/03  Date: 02-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8
	A companied mass (e.g., a) 2 (e.g.) (e.g.)	ement: Y	elatile semple velves may be compromised due to semple splitting icompositing!



### STL PENSACOLA Certifications, Memberships & Affiliations

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/03

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/04

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03

California Department of Health Services, ELAP Laboratory ID No. I-2510 (Hazardous Waste and Wastewater), expires 03/31/03

Connecticut Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03

Florida DOH, NELAP Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03

Florida DEP/DOH CompQAP # 980156

Iowa Department of Natural Resources, Laboratory ID No. 367 (UST), expires 08/01/04

Kansas Department of Health & Environment, NELAP Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/03

Kentucky NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/03.

Louisiana DEQ, LELAP, NELAP Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)

Maryland DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/03

Massachusetts DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03

Michigan Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/03

New Hampshire DES ELAP, NELAP Laboratory ID No. 250502 (Drinking Water & Wastewater), expires 08/16/03

New Jersey DEP&E, NELAP Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/03.

New York State Department of Health, NELAP Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 06/16/2003

North Carolina DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/03.

North Dakota DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/03

Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/03

Pennsylvania Department of Environmental Resources, NELAP Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/03

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/03

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.

Washington Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/03.

West Virginia DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.

AIHA (American Industrial Hygiene Association) Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds

EPA ICR (Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031

NFESC (Naval Facilities Engineering Services Center), expires April 18, 2004/

USACE (United States Army Corps. of Engineers), MRD, expires June 30, 2003.

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. Ş-37599

certlist|condcert.lst revised 2/25/03

Total Pages of Report

Date: 4/7/03 Page: 1 of 1 Interlab Chain of Custody

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Paint Chips From The

1304120-01

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISED BY: 1.	1. RELINQUISED BY:	2.
PROJECT #: 304/20	Total Number of Containers	PENSACOLA - STL-FL $X$	_	Signature: Time:	
PROJ. NAME: NAMOCD	Chain of Custody Seals	ESL - OR	AllMann Janno 1+00		
QC LEVEL: (STD) IV	Received Intact?	ATEL - AZ	Printed Name: Date: 1/17	Printed Name: Date:	
MS MSD	BLANK Received Good Cond./Cold	ATEL - MARION	thurste loving 417/18		
TAT: STANDARD (RUSHILL)	LAB NUMBER:	ATEL - MELMORE	Pinnacle Laboratories, Inc.	Company	
		EHL	RECEIVED BY: 1.	RECEIVED BY:	5.
DUE DATE: 424 or 4/25 COMMENTS:		GEL		Signature: Time:	
RUSH SURCHARGE: 25%		U OF MIAMI	Marchada 950		
CLIENT DISCOUNT:		WCAS	Printed Name: Date:	Printed Name: Date:	
SPECIAL CERTIFICATION		WOHL	4/(8 50)		
REQUIRED: YES NO			Company SAPM	Company	

and Pinnacle Laboratories Inc.

CHAIN OF CUSTODY PLI Accession #:

ssion #: 30H20

ANALYSIS REQUEST COLORS	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject (MOD.8015) Diesel/Direct (	4.143 4.05 WW OF OF		The second secon				N PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS RELINQUISHED BY: 1. RELINQUISHED BY: 2	(RUSH) -   24hr - 72hr	CERTIFICATION REQUIRED GINM SDWA DOTHER		COMMENTS: FIXED FEE Company: See reverse side (Force Maleure)	Direct Bill to OCD RECEIVED BY: (LAB) 2.	Send copy of results to: Signature: Time: Signature: Time: 1307	4775 /wdian	7110
	Division  Lieling  ancis Drive  LIK 8750S	4.05 NACE				335 44		PRIOR AUTHORIZATION IS	□24hr □ 48hr		METHANOL PRESERVATION [	COMMENTS: FIXED FEE	7	copy of re	3 6	NN
PROJECT MANAGER:	COMPANY: Oil Conserve ADDRESS; Attn. M. ADDRESS; (22.0 s. Sawte FAX: Sawte COMPANY: OC.D COMPANY: ADDRESS: ADDRESS: SAMPLE ID DATE	PAINT CHIPS FROM SITE	TANKS					PROJECT INFORMATION	PROJ. NO.: ARAHO SITE	1	P.O. NO:	SHIPPED VIA:	SAMPLE RECEIPT		GUSTODY SEALS  NOT THE SECRET SEALS	National Conference





2709-D Pan American Freeway NE



Bill N.M. Oil Conservation Division

To: 1220 South St. Francis Dr.

Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
4/30'03	84904

Project #: Araho Site

Original

BALANCE DUE:

42.00

PO Number	Terms	Project					
	Net 30	PIN ALB-810					

Quantity	Description	Rate	Amount	
1	Item-045 Lead: AA Method 742 Item-0083 7-Day Turn Around		28.00 50.00 %	28.00 14.00
	Remit to: Pinnacle Laborator 2709-D Pan America Albuquerque, NM 8	n Freeway N	E	
	on #: 304120 eed By: Martyne Kieling	TOTAL:	42.00	

### Kieling, Martyne

From:

Johnson, Larry

Sent:

Monday, October 06, 2003 11:11 AM

To:

Kieling, Martyne Araho Calf

Subject:

### Martyne,

I am curious as exactly when (date specific) and exactly where (site specific) the alleged event occurred. Who found the animal and where was it found. There are several things that are difficult to understand. As to the responsible party if the incident did occur on the Araho site is: Dorothy Runnels. 8100 W. Alabama in Hobbs 392-6223. Larry

### TEMPORARY GRANT OF EASEMENT

CITY OF LOVINGTON, P.O. Box 1269, Lovington, New Mexico, 88260 (hereinafter referred to as "City"), for consideration, grant to the NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES (hereinafter referred to as "EMNRD") and its OIL CONSERVATION DIVISION (hereinafter referred to as "Division"), their agents, employees and contractors, a temporary and limited easement in, to, upon and over all that portion of the following described real estate in Lea County, New Mexico, together with reasonable access thereto:

### **SURFACE ACCESS ONLY:**

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter (SE/4) of Section 1, Township 17 South (T. 17 S.), Range 36 East (R. 36 E.), N.M.P.M., Lea County, New Mexico, being more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

Subject to reservations, restrictions and easements appearing of record.

Access to said tract shall be by the route identified in Exhibit "A" attached here to and incorporated by reference.

Said easement is given for the purpose of conducting an investigation and remediation of contamination believed to exist at the site of the abandoned Araho, Inc. injection well facility located on the property described herein, which investigation may include drilling, constructing and maintaining upon the Property a monitor well or wells with which the Oil Conservation Division will use to assess and monitor contaminants believed to exist below the surface, routine visits to the Property, ingress and egress to the Property, sampling and inspecting the aforementioned monitor wells following initial construction, excavation of the property to investigate the nature and extent of contaminants believed to exist, excavation of the Property to remove any contamination found, and other activities inherent in the aforesaid investigation and remediation. Said easement shall terminate two years from the date signed unless terminated sooner by the Division's filing of a notice that it has concluded its investigation and remediation activities at the site. The City agrees not to unreasonably withhold an extension of this Easement if the Division files a notice that it has not concluded its investigation and remediation activities at the site.

This Easement is contingent upon the Division's acceptance of the terms and conditions set forth in the Addendum attached hereto as Exhibit "B" and incorporated by reference. Witness my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2003. CITY OF LOVINGTON Lea County, New Mexico By: Troy J. Harris, Mayor ATTEST: By: Rhonda Jones, City Clerk **ACKNOWLEDGEMENTS** STATE OF NEW MEXICO ) COUNTY OF LEA The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 2003, by CITY OF LOVINGTON Mayor\_\_\_\_\_\_. Notary Public My commission expires: STATE OF NEW MEXICO ) COUNTY OF LEA

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_\_\_, 2003, by CITY OF LOVINGTON Clerk \_\_\_\_\_\_\_.

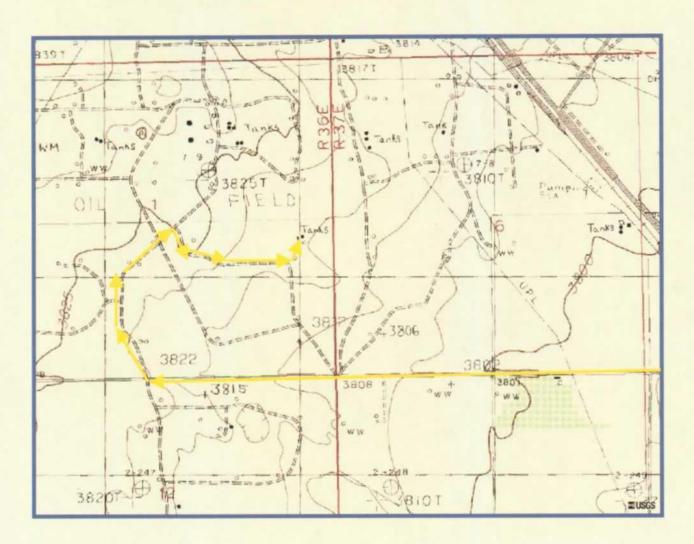
Notary Public

My commission expires:

### Exhibit A

Yellow arrows highlight the driving directions from the Hobbs –Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.

Map: 7.5 Topographic Lovington SE Quad.



### Exhibit B

### **ADDENDUM**

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

- 1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
- 2. The Division will not landfarm contaminated soil on the Property.
- 3. All activity undertaken by the Division will be at its own expense.
- 4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
- 5. Select City personnel and its agent(s) shall have unrestricted access to the Property, considering reasonable health and safety rules set forth by the Division.
- 6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
- 7. Any fill material brought onto the Property by Division shall be not unlike background soils.
- 8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
- 9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this 2 day of September, 2003.

By:

Lori/Wrotenbery, Oil Conservation Division Director

By:

Robert Castillo, Administrative Services Division Director

### Exhibit B

### **ADDENDUM**

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

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- 6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
- 7. Any fill material brought onto the Property by Division shall be not unlike background soils.
- 8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
- 9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITI	NESS my hand and seal this day of, 2003.
Ву:	Lori Wrotenbery, Oil Conservation Division Director
Ву:	Robert Castillo Administrative Services Division Director

LAW OFFICES

# HEIDEL, SAMBERSON, NEWELL, COX & McMAHON

C. GENE SAMBERSON MICHAEL T. NEWELL LEWIS C. COX, III PATRICK B. McMAHON 311 NORTH FIRST STREET POST OFFICE DRAWER 1599 LOVINGTON, NM 88260 TELEPHONE (505) 396-5303 FAX (505) 396-5305 F.L. HEIDEL (1913-1985)

RECEIVED

August 21, 2003

AUG 26 2003

Oil Conservation Division

David Brooks, Esq. 1220 So. St. Francis Drive Santa Fe, New Mexico 87505

Re: Araho, Inc. Scope of Work and Bid Request

Dear Mr. Brooks:

As per our conversation, please find enclosed a copy of the Temporary Grant of Easement and an original Addendum. The last sentence of the easement has been edited as you requested.

Please have Ms. Wrotenbery sign the Addendum and return to my office. Upon receipt, I will have Mayor Harris execute the Easement and then forward both originals to you.

If you have any questions, please do not hesitate to call.

Sincerely,

HEIDEL, SAMBERSON, NEWELL, COX & MCMAHON

By:

'atrick B. McMahon

PBM: hg Enclosures cc: Pat Wise

#### **ADDENDUM**

The following terms and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

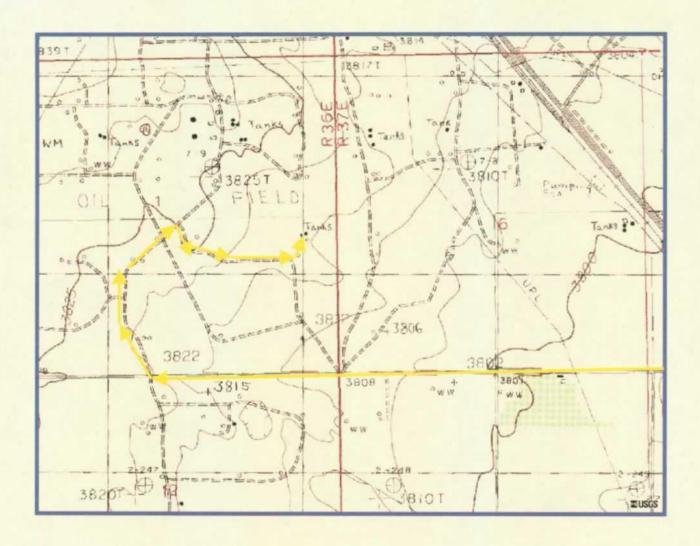
- 1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
- 2. The Division will not land farm contaminated soil on the Property.
- 3. All activity undertaken by the Division will be at its own expense.
- 4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
- 5. Select City personnel and its agent(s) shall have unrestricted access to the Property, subject to compliance with reasonable health and safety rules set forth by the Division.
- 6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
- 7. Any fill material brought onto the Property by Division shall be not unlike background soils
- 8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
- 9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this	_ day of, 2003.
By:	
	Lori Wrotenbery, Director

## Exhibit A

Yellow arrows highlight the driving directions from the Hobbs –Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.

Map: 7.5 Topographic Lovington SE Quad.



LAW OFFICES

# HEIDEL, SAMBERSON, NEWELL, COX & McMahon

C. GENE SAMBERSON MICHAEL T. NEWELL LEWIS C. COX, III PATRICK B. McMahon 311 NORTH FIRST STREET POST OFFICE DRAWER 1599 LOVINGTON, NM 88260 TELEPHONE (505) 396-5303 FAX (505) 396-5305 F.L. HEIDEL (1913-1985)

RECEIVED

August 5, 2003

AUG 0 7 2003

OIL CONSERVATION
DIVISION

Martyne J. Kieling The Energy, Minerals and Natural Resource Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Araho, Inc. Scope of Work and Bid Request

Dear Ms. Kieling,

As per the conversation between myself and you, Mr. Brooks and Mr. Anderson, I visited with the City Manager regarding the Addendum to the access agreement for the Araho site. It is my understanding that the OCD is not willing to agree to the Addendum given the language of paragraph seven. Paragraph seven states, "The Division and the City will mutually agree to the clean up standards of the soil and groundwater at or under the Property". According to Mr. Brooks, the OCD does not want to set a precedent of agreeing to clean up standards with surface owners. It is my understanding, based upon said conversation, that the OCD has not done so previously. If they have, please advise.

After discussion of this issue with my client, the City is willing to remove the objectionable language. Attached is an amended Addendum.

However, please be advised that by removing said language the City is in no way waiving any objection it may have to any and all clean up standards that the OCD proposes for the Araho site. The City reserves the right to review and comment upon any and all such clean up standards. The City fully intends to review clean up under the laws, ordinances and/or regulations that are in place at the time those standards are set.

In addition, to avoid confusion regarding the definition of "uncontaminated" fill material, as used in paragraph eight, and to be fair to the City and the OCD, I have changed that language. Paragraph eight now relates fill material to background soils. Please review this change as the new language was not discussed during our conversation.

Letter to Martyne J. Kieling OCD August 5, 2003 Page two.

Please contact me upon your review.

Sincerely,

Heidel, Samberson, Newell, Cox & McMahon

By:

Patrick B. McMahon

PBM:cd

pc:

Pat Wise, City Manager

CITY OF LOVINGTON

### **ADDENDUM**

The following terms and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

- 1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
- 2. The Division will not land farm contaminated soil on the Property.
- 3. All activity undertaken by the Division will be at its own expense.
- 4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
- 5. Select City personnel and its agent(s) shall have unrestricted access to the Property, subject to compliance with reasonable health and safety rules set forth by the Division.
- 6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
- 7. Any fill material brought onto the Property by Division shall be not unlike background soils
- 8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
- 9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this	day of, 2003.
D	
Ву:	Lori Wrotenberry Director

#### LAW OFFICES

### HEIDEL, SAMBERSON, NEWELL, COX & MCMAHON

C. GENE SAMBERSON MICHAEL T. NEWELL LEWIS C. COX, III PATRICK B. MCMAHON

311 NORTH FIRST STREET POST OFFICE DRAWER 1599 LOVINGTON, NEW MEXICO 88260 TELEPHONE (505) 396-5303 FAX (505) 396-5305

F.L. HEIDEL (1913-1985)

TELECOPY TRANSMITTAL SHEET

CONFIDENTIALITY NOTE

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ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS TELECOPY IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS TELECOPY IN ERROR, PLEASE
DAMEDIATELY NOTIFY US BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE ADDRESS SET FORTH ABOVE VIA THIS UNITED STATES 

DATE:	August 1, 2003	TIME: 4:000m
TO:	Martyne J. Kieling OCD	(505) 476-3462
Re:	Araho, Inc. Scope of Work and Bid Re	quest
YOU SHOULD IMMEDIATEL	RECEIVE PAGE(S) OF COPY, INCLUDING TY AT (505) 396-5303 IF NOT RECEIVED PROPERLY	HIS COVER PAGE. PLEASE NOTIFY US Y.
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If you	u have any questions, please do not hesitate	to call.
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THANK YO	ou,	
HEIDEL, S	AMBERSON, NEWELL, COX & MCM	MHON
By: Cheryl 1	Dudley, Secretary for,	

#### LAW OFFICES

## HEIDEL, SAMBERSON, NEWELL, COX & McMahon

C. GENE SAMBERSON MICHAEL T. NEWELL LEWIS C. COX, III PATRICK B. McMahon 311 NORTH FIRST STREET POST OFFICE DRAWER 1599 LOVINGTON, NM 88260 TELEPHONE (505) 396-5303 FAX (503) 396-5305 F.L. HEIDEL (1913-1985)

August 1, 2003

Martyne J. Kieling The Energy, Minerals and Natural Resource Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Araho, Inc. Scope of Work and Bid Request

Dear Ms. Keeling,

As per our conversation, please find attached the amended Addendum. Previously, the OCD had concerns regarding item numbers 1, 2, 5, 6, 7 and 8 of the Addendum. I have modified item numbers 1, 5 and 6 to suit your requests.

The City is not willing to amend item numbers 2, 7 and 8 for the following reasons. First, the City's grant to Araho does not give them the right to remediate soils on site. Whether its referred to as "land farming", "composting" or otherwise, the OCD has no right to undertake this activity on site. The protection of the public water source outweighs any additional costs for offsite remediation.

Second, on numerous of occasions, OCD has worked with oil companies to arrive at mutually acceptable cleanup standards. These cleanup standards, for various reasons, have deviated from OCD's Guidelines. The City is aware of instances where the OCD has implemented clean up standards that were below those set forth in the Guidelines, as well as, some that were above. If you would like specific examples of OCD and oil company cooperation, I will provide same. The City sees no reason why the OCD cannot undertake similar efforts in the Araho matter. In addition, under NMSA Section 3-27-3, the City has authority to regulate activities in its well field for the protection of the public water source.

Lastly, the City is not willing to allow contaminated dirt to be used as backfill. The term suggested by OCD, "commercially available clean fill", could include soils with THP levels above background. The City did not grant Araho the right to use contaminated soil to backfill excavations at the site.

Letter to Martyne Keeling OCD August 1, 2003 Page two.

Please consider that the City is not trying to increase any costs to OCD. In fact, the City has not asked for any monetary compensation for this Access Agreement. The City's primary concern is the protection of the public water source.

Sincerely,

HEIDEL, SAMBERSON, NEWELL, COX & MCMAHON

By:

Patrick B. McMahon

PBM:cd Enclosure

pc w/encl;

Pat Wise, City Manager CITY OF LOVINGTON

#### **ADDENDUM**

The following terms and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

- 1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
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- 6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
- The Division and the City will mutually agree to the clean up standards of the soil and groundwater at or under the Property.
- 8. Any fill material brought onto the Property by Division shall be uncontaminated.
  - 9. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
  - 10. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

NESS my hand and seal this day	of, 2003.
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#### LAW OFFICES

### HEIDEL, SAMBERSON, NEWELL, COX & MCMAHON

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DATE:	June 16, 2003	TIME: 9:23 AM
TO:	Martyne Kieling NMOCD	(505) 476-3462
Re:	City of Lovington, New M	
YOU SHOULD IMMEDIATEL	RECEIVE PAGE(S) OF COPY Y AT (505) 396-5303 IF NOT RECE	, including this cover page. Please notify us ived properly.
( ) <sup>1</sup> ( ) ( X)	FOR YOUR INFORMATION AS WAS DISCUSSED FOR YOUR REVIEW	/RECORDS () PER YOUR REQUEST () FOR YOUR COMMENTS () PLEASE CALL ABOUT THIS
Dear Ms. Ki	eling,	
The e	enclosed was also e-mailed to	you.
If yo	u have any questions and/or co	omments, please do not hesitate to call.
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THANK YO	,	
HEIDEL. S	AMBERSON, NEWELL, CO	OX & MCMAHON

By: Cheryl Dudley, Secretary for, Patrick B. McMahon

### TEMPORARY GRANT OF EASEMENT

505-396-5310

CITY OF LOVINGTON, P.O. Box 1269, Lovington New Mexico, 88260 (hereinafter referred to as "City"), for consideration, grants to the NEW MEXICO ENERGY, MINERAL AND NATURAL RESOURCES (hereinafter referred to as "EMNRD"), and its OIL CONSERVATION DIVISION (hereinafter referred to as "Divison"), their agents, employees and contractors, a tmeporary and limited easement in, to, upon and over all that portion of the following described real estate in Lea County, New Mexico (hereinafter referred to as "the Property"), together with reasonable access thereto:

#### SURFACE ACCESS ONLY:

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter (SE/4) of Section 1, Township 17 South (T. 17 S.), Range 36 East (R. 36 E.), N.M.P.M., Lea County, New Mexico, being more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

Subject to reservations, restrictions and easements appearing of record.

Access to said tract shall be by the route identified in Exhibit "A" attached hereto and incorporated by reference.

Said easement is given for the purpose of conducting an investigation and remediation of contamination believed to exist at the site of the abandoned Araho, Inc. injection well facility located on the Property described herein, which investigation may include drilling, constructing and maintaining upon the Property a monitor well or wells with which the Oil Conservation Division will use to assess and monitor contaminants believed to exist below the surface, routine visits to the Property, ingress and egress to the Property sampling and inspecting the aforementioned monitor wells following initial construction, excavation of the Property to investigate the nature and extent of contaminants believed to exist, excavation of the Property to remove any contamination found, and other activities inherent in the aforesaid investigation and remediation. Said easement shall terminate two years from the date signed unless terminated sooner by the Division's filing of a notice that it has concluded its investigation and remediation activities at the site. The City agrees not to unreasonably withhold an extension of this Easement when the Division files a notice that it has concluded its investigation and remediation activities at the site.

This Easement is contingent upon the Division's acceptance of the terms and conditions set forth in the Addendum attached hereto as Exhibit "B" and incorporated by reference.

WITNESS my hand and seal this day of	, 2003.
CITY OF LOVINGTON	
Lea County, New Mexico	
Ву:	
Troy J. Harris, Mayor	
ATTEST:	
Ву:	
Rhonda Jones, City Clerk	<del></del>

Yellow arrows highlight the driving directions from the Hobbs -Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.



#### **ADDENDUM**

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

- 7 1. The Division will conduct no activity off of the Property without the express written consent of City.
  - 2. The Division will not landfarm contaminated soil on the Property.

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- 3. All activity undertaken by the Division will be at its own expense.
- 4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
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  Commission and the City will mutually agree to the clean up standards of the soil and groundwater at or under the Property.

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  - 10. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

By:				
Lo	ri Wroter	berry, I	Director	



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	WITNESS	my hand	and seal	this	day of June,	2003.
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By:

Lori Wrotenberry, Director

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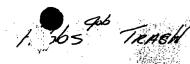
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P.O. Box 388 • Hobbs, New Mexico 88241-0388 (505) 393-1079

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BILL TO:

RHINO ENVIRONMENTAL

P.O.BOX 57180

ALBUQUERQUE

NM 87187

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P.O. DRAWER 1769 - WEST TEXAS AVE. OFFICE PHONE (505) 394-2545 HOBBS PHONE (505) 397-3044 JAL YARD (505) 395-2010 EUNICE, NEW MEXICO 88231 631-8126

BILL TO:

RHINO ENVIRONMENTAL

P.O.BOX 57180

ALBUQUÉRQUE

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FROM : CHAPARRAL SERVICE INC

PHONE NO. : 505 394 2426

28 2003 11:39AM P4

Chaparral



INVOICE

P.O. DRAWER 1769 • WEST TEXAS AVE. OFFICE PHONE (505) 394-2545 HOBBS PHONE (505) 397-3044 JAL YARD (805) 398-2010 EUNICE, NEW MEXICO 88237

RHINO ENVIRONMENTAL

P.O.BOX 57180

ALBUQUERQUE NM 87187

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FROM : CHAPARRAL SERVICE INC

Chaparral Service,

INVOICE

DRAWEH 1788 WEST TEXAS OFFICE PHONE (605) 394-2545 HOBBS PHONE (605) 397-3044 JAL YARD (505) 395-2010 EUNICE, NEW MEXICO 8823||

FRESH AIL SAFETY RAILER

AT COST

CONTRACT LINE

CONTRACT 0605

BILL TO:

RHINO ENVIRONMENTAL

P.O.BOX 57180

ALBUQUERQUE NM 87187

LEASE: ARAHO DISPOSAL FACILITY

Guanthy of Hrs./BBLS  1.00 FRESH-AIR TRAILER  1.00 SAFETY SUPERVISOR W/VE  1.00 THREE WAY MONITOR  1.00 FUEL SURCHARGE  1.017/03 #2549  5.00 SAFETY SUPERVISOR W/VE  1.00 THREE WAY MONITOR  1.00 FUEL SURCHARGE	tion		NET 30	Extended Price
1.00 FRESH AIR TRAILER  10/15/03 #2547  1.00 FRESH AIR TRAILER  10.00 SAFETY SUPERVISOR W/VE  1.00 THREE WAY MONITOR  1.00 FRESH AIR TRAILER  1.00 FUEL SURCHARGE  10/17/03 #2549  5.00 SAFETY SUPERVISOR W/VE  1.00 THREE WAY MONITOR  1.00 FRESH AIR TRAILER	tion		Unit Price	Extended Price
1.00 FRESH-AIR TRAILER  10/16/03 #2548  10.00 SAFETY SUPERVISOR W/VEI 1.00 THREE WAY MONITOR 1.00 FRESH AIR TRAILER 1.00 FUEL SURCHARGE  10/17/03 #2549 5.00 SAFETY SUPERVISOR W/VEI 1.00 THREE WAY MONITOR 1.00 FRESH AIR TRAILER		and Take Bases in the	was a contract to the contract of the contract	
10.00 SAFETY SUPERVISOR W/VEI 1.00 THREE WAY MONITOR 1.00 FRESH AIR TRAILER 1.00 FUEL SURCHARGE  10/17/03 #2549 5.00 SAFETY SUPERVISOR W/VEI 1.00 THREE WAY MONITOR 1.00 FRESH AIR TRAILER				
5.00 SAFETY SUPERVISOR W/VE 1.00 THREE WAY MONITOR 1.00 FRESH AIR TRAILER	HICLE			
1.00 FUEL SURCHARGE	HICLE			
10/20/03 #2551 1.00 FRESH AIR TRAILER				-
10.00 SAFETY SUPERVISOR W/VEI 1.00 THREE WAY MONITOR 1.00 FRESH AIR TRAILER 1.00 FUEL SURCHARGE	HICLE			
10/21/03 #11253 15.00 VACUUM TRUCK W/OPERATOR 1.00 FUEL SURCHARGE	R - 674 🗸			
10/21/03 #13231 12.00 VACUUM TRUCK W/OPERATOR	at sent are set out to a constitution			
	Vac 7-6 1984.		SUB TOTAL	5 days
		5		

4,500.00 6 days at 750 3,422,15 acoum Truck Det Fresh water Chaperral Invoice Chaparral 15<sup>th</sup> 41.15 1,105 16 th 260 125-25 17+5 T490.25 V 2.4 21st + mas Trucking 682.40 V Pak 28st Billed For 6 days only + Pate truckin 1249.50 V \$ 3422.15 \ Billacel on Rudintion Safety Norm

147.94

242-81

390.75 /01

41.5 charant 4.15 Days 15th 255
20 chaparel 2days 16th 1500.00
2lif chaparel 2.41 days 17th 1800.00
27 chaparel 2.41 days 21th 1800.00
8 Park? 2-7 days 21th 2025
8 Park? 8 days 20th 600
11 Park? 1.1 kays 20th 825
12 Park 4001 0.37
5 Jacon 0.5 10762.5

\$ 2451.25 26.5 HOUSE A+92.50 HO+ Oil Truck

\$.C.C. 354345 ICC MC # 259649 TRANSPORTS FRAC TANKS VAC TRUCKS

# PATE TRUCKING CO.

P.O. BOX 2739, HOBBS, N.M. 88241



PHONE (505) 397-6264

				CONTRACT		The state of the	PROPER NO	7939
Rh	ino Enviro	numenta	/	A F.F.		i de recore	0-20	<u>as</u>
				PURCHASE UNOU NUMBER		<u> </u>	<u>TEVE D</u> YE	<u>~</u>
DELIVERI D	nes cates	12	то	Unt	riles			
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100K OR 130	aho CAPACITY 130	AMOUNT HAULED	TINE OUT S.	30 FM TI	ME 4/30 AM	HOURS S	W A	ED BY EMP DOTA AMOUNT
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20 Bbls.	of fresh	unter	and	took .	alo Haerw	bls		916
o Locati	.Went	to To	LT For	a		CL		
recond	Coad:					Asp Ass		
•								
TOP GAUGE	BOTTOM GAUGE	SET DATE	RELEASE DA	ΙΤΕ	o _	ther :		
HIGHY	VAY MILES UNLOADED	TERMS:					TAX	
			AUTHO	ORIZEO BY:			TOTAL	
Bally	ale	X					Thank	IOU

PHONE (505) 397-6264 S C C. 35434 FRAC TANKS ICC MC # 259649 CONTRACT NUMBER 79741 A.F.E. FROM LOCATION DESCRIPTION O HA. O BBL Tarks w/Hor with Par Remains bbls #KCL ia on organa so conscol Disp Disp SET DATE TOP GAUGE HIGHWAY MILES TERMS: UNLOADED A NET TOTAL LOADED AUTHORIZED DY: Thank You OPENATOH OH DHIVEH

PHONE (505) 397-6264 ICC MC # 259649 79567 RHING ENIROMENTAL 10-21-03 STEVE DYEN too Pate unter forth sun Roncus HUCK OR Araho SWD Houled 130 BB15 OF B/W and unloaded 130500 bbls into unit #27 and stand-34 got 2 load of Solids and Havlet to sun Dances and wand-by to jet out there was 2 track on line to jet out ALT OUT TOP GAUGE TERMS: NET TOTAL Thank You Eliahan Vocatato X 6-1PM

Transport brine water.
For hot oiler

1-6PM Nacitruck transporting waste to Sundance

915 842 9933

11/04/03 04:17pm P. 003

797-4874

p. 1

PAGE 02

10/24/2003 11:53 2053920744 M:5

Invoice

# M and S Service, Inc. 14600 Knowles Rd. Lovington, NM 88260

369-5611 mike

BILL TO

Oct 28 03 10:21a

Rhino Enviormmental Services 4007 Lovington Hwy. Hobbs, NM 88240

BATE	INVOICE *
10/21/2003	3109913

			P.O. NO.	
DESCRIPTION	QTY	RATE	AMOUNT	
10/21/2003 Tck 40691, Trk #7J, Araho SWD 10/17/2003 Tck 40685, Trk #7J, Araho SWD 10/16/2003 Tck 40731, Trk #6L, Araho SWD number gallons chemical bbls fresh water Fuel Charge 10/16/2003 Tck 40684, Trk #7J, Araho SWD	3.5 3.5 15.5 25 75	11.00 0.40 182.40	30, <b>90</b> T 182,49T	}
North 10/16, 10/12/10/22	\$ 62.40 -	tnansport fr	esh water	V
Morry				
Thank you for your business.		Total	\$2,428.64	

Authorized By:	PHONE (505) 392-6785 HC 70-BQX 73 LOVINGTON, NEW MEXICO Date  Company  Comp
	Tresh Water C
	Bblls Hamile
Sub Total State Tax TOTAL	Truck No.  Purchase Order No.  RATE
	MOUNT DUCK S

Authorized By:	PHONE (505) 392-6785 HC 70 BOX 73 LOVINGTON, NEW MEXICO 88260  Date  Company  Company  Time Out  Time Out  Description of Work  Description of Work	
	88260 A.M. P.M.	
	Tume In Bbls: Hauled	
	Solution of the state of the st	amprimination of the face of the contract of t
Sub Total State Tax TOTAL	Truck No.  Purchase Order No.  Phours  RATE	man para di mandali di dimandali di di di mandali di
	AMOUNT 88	

PATE TRUCKING CO., INC. P.O. BOX 2739 ~ HOSBS, NM 88241-2739

TELEPHONE (505) 307-6264

INVOICE NUMBER

45609

INVOICE DATE.

10/28/03

WEDNIER: San:

FOO 1.57-9353 37005 - 1017 - 23507

ADDIO LES TRANSPORTES

RUINO ENVIRONMENTAL SERV. P O BOX 57180 AUBUQUERQUE, NM 87187-7180

PURCHASIONER TO STORY AND

81824

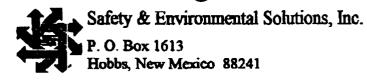
Net 30 Days

	0.2	WELL: ARAG: SWD		
	00	CO. MANISTEVE DIER		
	= nouns	WK TKT: 79567		
12.00	HIS - 5 hours	TRANS/VAC W/DRIVER #59	6£.00	816.00
130.00	1104	HADL BRINE WATER	0.75	97.50
1.00	3.10	JET OUT FEE	60,00	50 . Ou
	1	MR XXX: 19390		
8.00	506	TRANS-VAC W/DRIVER - #73	54.00	542.00
<b>2</b> 60.00	180	HAUL FRESH WATER	U. 90	104.00
	•	WK TKT: 79741		
(0.4)	604	HOT OIL UNIT W/DRIVER - #2/		

10/21 Transport 7ms @ 68: 476 10/20 Transport 8his @ 64: 512 Brine H20 97.50 60.00 Let Out Fee 66.761 Freshlicater 2,469.50 Subtotal 251.25 Sales Tax

\$2,620.76

Thank You For Your Business



# **Invoice**

DATE	INVOICE #
10/8/2003	6386

BILL TO	
Inter: Joe Tracey One Park Square 6501 Americas Parkway NE, Ste. 820 Albuquerque, NM 87110	

Horny Stracy

	PRQJECT	P.O. NO.	TERMS
	INTO3001 Norm Survey		Net 30
QUANTITY	DESCRIPTION	RATE	AMOUNT
1 1 24	Radiation Safety Officer NORM Meter Mileage	75.00 50.00 0.60	75,00 50,00 14,40
	Subtotal Hobbs Gross Receipts Tax	6.125%	139.40
	OK 7/1 7 7 NMO-ARA-01-02	Mirus TAX	

Total

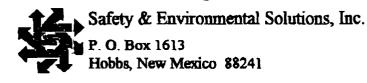
\$147.94

6501 Junezicas Parkway NE, Ste. 820

Albuquerque, NM 87110

BILL TO

Intera Joe Trucey One Purk Square



# **Invoice**

DATE	INVOICE #
10/22/2003	6389

Morn Prose

	PROJECT	P.O. NO.	TERMS
	INTO 3001 Norm Survey		Net 30
QUANTITY	DESCRIPTION	RATE	AMOUNT
]	Radiation Safety Officer Survey Meter Mileage	75.00 50.00 0.60	150.00 50.00 28.80
	Subtotal		228.80
	Hobbs Gross Receipts Tax	6.125%	14.0
	OK 717 7 M NHO-ARA-01-02	Ins Tax	

**Total** 

\$242.81

o<sup>K</sup>



# Invoice

	·
Date	Invoice #
10/27/2003	2003-05

Bill To

Intera

Attn.: Mr. Joseph Tracy 6501 Americas Parkway NE - Suite 820 Albuquerque, New Mexico 87110

(505) 246-1600 ext. 219





P.O. No.	Terms	Project		
	Net 30			

Quantity	Description		Rate		Am	ount
(	CGI GAS MONITOR RENTAL FOR THE NM OCD ARAHO FACILITY,					
	LOVINGTON, NEW MEXICO					
	Intera Project No.: NMO-ARA-01-03		,			
					-	
ć	Days Rental (Oct. 15th - 17th & Oct. 20th - 22nd)			50.00		300.0
			·		•	
					5	
	•					
	·					
	SK 7/7 7 11/5/0					
	NMO - ARA -01-03	?				
	NMO - ARA - 01 - 03					
•						
			•	`		
				,	-	
				•		
k you for you						

**Total** 

\$300.00

### INVOICE





INVOICE NO PAGE 00142693 INVOICE DATE 10/30/03

Apply To:

Geotech Environmental Equipment, Inc.

8035 East 40th Avenue Denver, Colorado 80207

Phone: (303)320-4764 \* Fax: (303)322-7242

## Bill To:

INTERA, INC.

ATTN: A.P. \* ONE PARK SQUARE

6501 AMERICAS PARKWAY N.E., SUITE 820

ALBUQUERQUE, NM 87110

PO# NMO-ARA-0101

## Ship To:

INTERA, INC.

ATTN: JOE TRACY \* ONE PARK SQUARE 6501 AMERICAS PARKWAY N.E., SUITE 8

ALBUQUERQUE, NM 87110

PO# NMO-ARA-0101

ORDER NO.	ORDER DATE	CUSTOMER NUMBER	LOC	SLSMN
181520	10/09/03	000000320097	CO	003

PURCHASE ORDER NO.	JOB NO.	SHIP VIA	COL/PPD
NMO-ARA-0101 * JOE TRAC	7	UPS NDA SAVER	Prepaid

QUANTITY ORDERED	QUANTITY TO SHIP QUANTITY RETURN/BO	UNIT PRICE	UOM DISC	NET PRICE
1.00	1.00	450.000	EA	450.00
T PID (RAE)				d.
CESSORY KIT				$ro^3$
FOR	10 DAYS * 10.1	0.03 THRU 10.27	.03	18x-01 03 (N)
,		الرا <sub>ب</sub> الدار	0 A	A-OI RAY
	002	Project #: Myr. approval: 4	A	billable
Corre		this is	no. Le 1	project.
	\$ 4	165. Of to 13	ILL	\$60.
·		Cay one con	THAIR	40'' A''I
	1.00 T PID (RAE) CESSORY KIT FOR	QUANTITY RETURN/BO  1.00 1.00 T PID (RAE) CESSORY KIT  FOR 10 DAYS * 10.1	QUANTITY RETURN/BO UNIT PRICE  1.00 1.00 450.000 T PID (RAE) CESSORY KIT  FOR 10 DAYS * 10.10.03 THRU 10.27   Correct Average	QUANTITY RETURN/BO UNIT PRICE DISC  1.00 1.00 450.000 EA  T PID (RAE) CESSORY KIT FOR 10 DAYS * 10.10.03 THRU 10.27.03

#### COMMENTS

!! THANK YOU FOR YOUR ORDER !! PLEASE REMIT TO THE ABOVE ADDRESS QUESTIONS CALL ~ 800-833-7958

#### **TERMS**

1%-10/NET30

SALE AMOUNT	450.00
HANDLING CHARGE	.00
FREIGHT	75.05
TOTAL TAX	.00
TOTAL AMOUNT	525.05
PAYMENT AMOUNT	.00
BALANCE DUE	525.05

						a war in					
	NON-HAZARDOUS WASTE MANIEEST				of	je 1					
3		N/A		<u> </u>	·   - ·				•		
	Ne 12	20 South St. Fre	ancis Drive	vision		NE/4, SE	/4,Sec	1,T17S,R3			
5.				NI/A		nsporter's F		-307-3044			
<del>-</del>						nonodor's l					
,· 	Transporter 2 Company Name				•	B. Transporter's Phone					
9.	Rhino Environmental Service		10. US EF	A ID Number	C. Fac	cility's Phone	8	٠.			
	8 miles south of Hobbs on hy	y 18		N/A		505-2	47-464	5			
11	. Waste Shipping Name and Description	<u> </u>		-		12. Con	tainers	13. Total		14. Unit	
_						No.	Туре	Quantity	<u> </u>	Vt/Vol	
a.	Nix bottom Soi	ls				1.	dum	,20	)	2.3/	
b.											
-				,	· 1	· ·	<u> </u>		.		
c.	<i>;</i>										
								·			
d.											
D.	Additional Descriptions for Materials Listed Above	· · · · · · · · · · · · · · · · · · ·			F. Har	dling Code	s for Was	tes Listed Ab	ove		
			<u>;</u>			g		. '			
	:						N//				
							14/2			1	
15	5. Special Handling Instructions and Additional Info	mation								Ĭ	
										\$	
										<i>y.</i>	
16	6. GENERATOR'S CERTIFICATION: I certify the m	aterials described abo	ve on this manifest ar	e not subject to federa	I regulations for	reporting pro	per dispos	al of Hazardou	us Waste	·.	
Г	Printed/Typed Name		Signature					Month	Day	Year	
-											
17		aterials	Signature	$\overline{}$		<del>,                                    </del>	<del>_</del>	Month	Dav	Year	
	flow Killen	10	Signal	K	11			VO	23	03	
18		aterials	7								
	Printed/Typed Name		Signature					Month	Day	Year	
+	9. Discrepancy Indication Space										
	#5 Address: PO Box 57180,	Albuquerque, N	i <b>M</b> 87187								
		•								1.00	
20	D. Facility Owner or Operator: Certification of receip	t of waste materials	covered by this ma	nifest except as not	ed in Item 19.		• • • • • • • • • • • • • • • • • • • •				
20	Printed Fyned Name	t of waste materials	covered by this ma	nifest except as note	ed in Item 19.			Month	Day	Year	
	4. 5. 7. 9. 111 a. d. 15	3. Generator's Name and Mailing Address Ne 12: 4. Generator's Plans ( 476-3488 Sa 5. Transporter 1 Company Name Rhino Environmental Service: Rhino Environmental Service: Goo-Yea South 8 miles south of Hobbs on hw 11. Waste Shipping Name and Description a. 1. Sa County 1. Coun	3. Generator's Name and Mailing Address New Mexico Oil C 1220 South St. Fr. 4. Generator's Plans ( 476-3488 Santa Fe, New Mexico 5. Transporter 1 Company Name Rhino Environmental Services, Inc. 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Rhino Environmental Services, Inc. OCD Goo-Yea South 8 miles south of Hobbs on hwy 18 11. Waste Shipping Name and Description a.  Wix bottom Soils b.  C.  d.  D. Additional Descriptions for Materials Listed Above  Non Hazardous 15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I certify the materials described abore Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Hansporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	3. Generator's Name and Mailing Address  New Mexico Oil Conservation Diversity Supply ( 476-3488	WASTE MANIFEST  3. Generator's Name and Mailing Address New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505  5. Transporter 1 Company Name Rhino Environmental Services, Inc.  7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Rhinino Environmental Services, Inc. OCD Goo-Yea South 8 miles south of Hobbs on hwy 18  11. Waste Shipping Name and Description a.  Wix bottom Soils b.  15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: 1 certify the materials described above on this manifest are not subject to federa Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials Pripted/Pyped Name  18. Enaporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name  19. Discrepancy Indication Space	WASTE MANIFEST  3. Generator's Name and Mailing Address  New Mexico Oil Conservation Division 1220 South St. Francis Drive 4. Generator's Pigne ( 476-3488 Santa Fe, New Mexico 87505  5. Transporter 1 Company Name Rhino Environmental Services, Inc.  7. Transporter 2 Company Name Rhino Environmental Services, Inc.  9. Designated Facility Name and Site Address Rhino Environmental Services, Inc. OCD Goo-Yea South 8 miles south of Hobbs on hwy 18  11. Waste Shipping Name and Description a.  N/A  D. Additional Descriptions for Materials Listed Above  Non Hazardous  15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: 1 centry the materials described above on this manifest are not subject to federal regulations for Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Eansporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  19. Discrepancy Indication Space	### WASTE MANIFEST N/A of Agenerator's Name and Mailing Address  New Mexico Oil Conservation Division 1220 South St. Francis Drive 1	WASTE MANIFEST  Now Mexico Oil Conservation Division  1220 South St. Francis Drive  4. Generator's Piggs ( 476-3458 Santa Fe, New Mexico 87505  S. Transporter 1 Company Name  Rhino Environmental Services, Inc.  7. Transporter 2 Company Name  9. Designated Facility Name and Site Address Rhino Environmental Services, Inc. OCD Goo-Yea South  8 miles south of Hobbs on hwy 18  10. US EPA ID Number Rhino Environmental Services, Inc. OCD Goo-Yea South  8 miles south of Hobbs on hwy 18  N/A  11. Waste Shipping Name and Description  a. Wix bottom Soils  b.  C. Facility's Phone  12. Containers No. Type  a. Wix bottom Soils  15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: Leartly the materials described above on his manifest are not subject to federal regulations for reporting proper disport PrintedTyped Name  17. Transporter 1 Acknowledgement of Receipt of Materials  PrintedTyped Name  Signature  Signature  19. Discrepancy Indication Space	S. Generator's Name and Mailing Address  New Mexico Oil Conservation Division 1220 South 5t Francis Drive 4. Generator's Piggs ( 476-3488 Santa Fe, New Mexico 87505 5. Transporter 1 Company Name Rhino Environmental Services, Inc. 6. US EPA ID Number N/A 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address Rhino Environmental Services, Inc. OCD GO-CYea South 8 miles south of Hobbs on Inwy 18 11. Waste Shipping Name and Description  a. Wix bottom Soils  D. Additional Descriptions for Materials Listed Above  I. Handling Codes for Wastes Listed Atove  Non Hazardous  15. Special Handling Instructions and Additional information  16. GENERATOR'S CERTIFICATION: 1 centity the materials described above on this munifiest are not subject to forderal regulations for reporting proper disposal of Hazardous  17. Transporter 1 Acknowledgement of Receipt of Materials PrincedTyped Name Signature  Non Non Non Non Non Non Non Non Non No	### WASTE MANIFEST  1. Generator's Name and Mailing Address  New Mexico Oil Conservation Division 1220 South 5t Francis Drive  4. Generator's Pigge (1476-3488 Santa Fe, New Mexico 87505  5. Transporter 1 Company Name Rhino Environmental Services, Inc.  6. US EPA ID Number Rhino Environmental Services, Inc.  7. Transporter 2 Company Name 8. US EPA ID Number Rhino Environmental Services, Inc.  9. Designated Facility Name and Site Address  10. US EPA ID Number Rhino Environmental Services, Inc. OCD GO-Tee South 8 miles south of Hobbs on Invy 18  11. Waste Shipfing Name and Description  9. Like Containers No. Type Government 10. US EPA ID Number 11. Waste Shipfing Name and Description  12. Containers No. Type Government 13. Transporter's Phone  14. Containers No. Type Government	

Primed by J. L. KELLER & ASSOCIATES, INC.
Negrah, Wr. 54857-0368

ORIGINAL - RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

	71	or years with the second of th	:	•						
		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA II	D No.	Manifest Doc. No.	2. Page 1 of	y construit and a straight	AUSO PERSONAL		
A	3.	Generator's Name and Mailing Address	17/21						AL T	
ľ		Ne	w Mexico Oil Conse	rvation Division	1	Ала	ho Dispos	al Facility		
ı		12	20 South St. Francis	Drive 🎂	,			,T17S,R31E	~ 🖫	
ı			nta Fe, New Mexico	87505		Lea County, NM				
	5.	Transporter 1 Company Name	6. _ I	US EPA ID N		A. Transporter				
1	<del>  _</del>	Rhino Environmental Service Transporter 2 Company Name	es, Inc	US EPA ID N		B. Transporter		397-3044		
	′′	Transporter 2 Company Name	8. 			b. Fransporter	s Phone			
	9.	Designated Facility Name and Site Address		US EPA ID N		C. Facility's Pt	опе			
Ì		Rhino Environmental Services		332.71.31					1.0	
ļ		Goo-Yea South	· <b>,</b> —			i.			Šą.	
		8 miles south of Hobbs on hw	y 18   .	N/.	<b>A</b>	<b>5</b> 05	-247-4646	:	3	
	11	. Waste Shipping Walle and Description				12. (	Containers	13. Total	14. Unit	
	_					No	. Type	Quantity	Wt/Vol	
	a.	Mx botten So	-/1				Dung	1441		
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G	b.					/		11 1		
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R	c.				······································			17		
GENERATOR	"						'     .   .	1401.	1 1	
	d.				· · · · · · · · · · · · · · · · · · ·			-11	1 3	
		·					.   .	1404		
Н	D.	. Additional Descriptions for Materials Listed Abov	e			E. Handling Co	des for Was	tes Listed Above		
Ш				*						
							•			
Ш		Non Hazardous					N/A			
	15	5. Special Handling Instructions and Additional Info	rmation							
П										
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Н		·								
П										
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	<u>_</u>			<del> </del>					***	
	16	6. GENERATOR'S CERTIFICATION: I certify the m	aterials described above on the		bject to federal regula	tions for reporting	proper dispos		188	
		Printed/Typed Name		Signature				Month Day	Year	
7	17	7. Transporter 1 Acknowledgement of Receipt of M	aterials	1				1 .   .		
Ř	Ë	Printed/Typed Name	aterials	Signature 2/	15			Month Day	Year	
TRAZSPORTER	L	Bygn Ellis		1501	ly			1/0 00	-103	
ğ	18	3. Transporter 2 Acknowledgement of Receipt of M	aterials							
Į	Г	Printed/Typed Name		Signature				Month Day	Year	
Ř								<u> </u>		
	19	9. Discrepancy Indication Space				`		.*	9-	
F		#5 Address: PO Box 57180, A	lbuquerque, NM 871	187						
A										
Ļ	20	D. Facility Owner or Operator: Certification of receip	t of waste materials covere	ed by this manifest e	except as noted in Ite	em 19.				
T Y									Voor	
Y	1	Printed/Typed Name	-	Signature				Month Day	Year	
		LINSON DURR		Dus	JUR			11012	203	
<b>V</b>		by J. J. KELLER & ASSOCIATES INC.		~ 7	) \		en e	3LS-C5 Rev.	10700	
`	day	WI 54967-0000	ORIGINAL - RE	TURN TO GE	NERATOR			JEG-UJ MeV.	12/30	

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70- L		NON-HAZARDOUS	Generator's US EPA ID No	Manifest Doc. No	. 2. Page 1	S S S S S S S S S S S S S S S S S S S		
		WASTE MANIFEST	N/A · · · · ·		of			
A	3.	Generator's Name and Mailing Address						
ł			New Mexico Oil Conservation D	ivision			posal Facility	
١	4.	Canadada Dhasa (	1220 South St. Francis Drive		NI		ec 1,T17S,R3	it.
	-	Generator's Phoso 476-3488  Transporter 1 Company Name	Santa Fe, New Mexico 87505  6. US EPA	ID Number	A. Transpo	Lea Count	ıy, inm	
١	3.	Rhino Environmental Ser	•	N/A	A. Hanspo		05-397-3044	
١	7.	Transporter 2 Company Name		ID Number	B. Transpo		05 257 2017	
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1					
l	9.	Designated Facility Name and Site Address		ID Number	C. Facility's	Phone		
l	ļ	Rhino Environmental Serv	ices, Inc. OCD					
١		Goo-Yea South		3.7/4		505 0 AT A	EAG	
Ì	<u> </u>	8 miles south of Hobbs on	hwy 18	Ņ/A	]	505-247-4	· · · · · · · · · · · · · · · · · · ·	
l	11	. Waste Shipping Rame and Description			i	. Containers	13. Total	14. Unit
۱	-					No. Type	Quantity	Wt/Vol
١	a.	Dry Mixed	Katha			1	20	
		Dry WXX	WILLOW?			1.		
6	b.							
E							120	
Ë						/ .   .		4/
GENERATOR	c.	1						
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R	-				<u>_</u>	• •		
	d.							
	<u></u>	Additional Descriptions for Materials Listed Abo			E. Handling	Codes for Wa	stes Listed Above	<b>-</b>
		<u> </u>	:					
$\ $					-	•		
		Non Hazardous				1	N/A	i sa
$\  \ $	15	5. Special Handling Instructions and Additional Infe	ormation					
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	16	6. GENERATOR'S CERTIFICATION: I certify the		not subject to federal regul	ations for report	ing proper dispo		
J		Printed/Typed Name	Signature	,			Month Da	ay Year
7	1	7 Transporter 1 Acknowledgement of Possint of N	Materials			· · · · · · · · · · · · · · · · · · ·		
R	<u> </u>	7. Transporter 1 Acknowledgement of Receipt of Management Printed/Typed Name	Signature	<del></del>		7	Month D	Year
N	(		ens Signature				/ ö ₹	9 13
P	18	3. Transporter 2 Acknowledgement of Receipt of N		/ 0				
TRANSPORTER		Printed/Typed Name	Signature				Month Da	ay Year
Ā								
	19	Discrepancy Indication Space						
F		#5 Address: PO Box 5718	30, Albuquerque, NM 87187					
A			, <b>1</b>					7 m
1	$\vdash$	D. Facility Owner or Operator: Certification of rece	int of waste materials covered by this man	fast aveant as noted in I	tem 19			
L	14	. I admity Owner or Operator, Certification of rece	ipi or waste materials covered by this mani	est except as noted in t	ын тэ.			
LIT	1							10: 10
L I T Y	-	Printed/Typed Name	Signature				Month D	ay Year
L T Y		Printed/Typed Name	Signature	CED X R	)		Month D	ay Year 23   03
~2.4 <u>1</u>		Miscy Dyer	Signature	SeDXA			11012	3/03
oro Prij	Ited	1	ORIGINAL – RETURN TO	SEDIE		12	Month D	3/03

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i.			NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	EPA ID No.	Manifest Doc. No.	2. Page 1 of					
<b>A</b>					l Conservation Divisi Francis Drive	on	NE/		oosal Facility c 1,T17S,R31I y, NM			
4	-		Fransporter 1 Company Name		6. US EPA ID N		A. Transporter	r's Phone	5-397-3044			
	7	7. 1	Rhino Environmental Ser Transporter 2 Company Name		8. US EPA ID N		B. Transporter					
	9	9. [	Designated Facility Name and Site Address Rhino Environmental Servic Goo-Yea South 8 miles south of Hobbs on I	ces, Inc. OCD		lumber	C. Facility's Ph	none 05-247-46	46	Marine St. A. A. Marine		
	1	11. \	Waste Shipping Name and Description	2117	<u> </u>			Containers	13. Total	14. Unit		
	L		A _	4			No	. Type	Quantity	Wt/Vol		
		a.	Dry Mired &	Butter	<u>^</u>				20	7		
GENE	b	b.		) )					2090	1		
GENERATOR.	C	c. <sub>,</sub>						.   .	206			
	0	d.		t t					20	-		
		D. /	Additional Descriptions for Materials Listed Abov	<b>e</b>			E. Handling Co	odes for Was	tes Listed Above			
			Non Hazardous				N/A					
Y TRAZ	1	15. :	Special Handling Instructions and Additional Info	rmation						ste.		
	1		GENERATOR'S CERTIFICATION: I certify the m	aterials described abo		bject to federal regula	tions for reporting	proper dispos		ste.		
V			Printed/Typed Name		Signature				Month Day	Year		
T R			Transporter 1 Acknowledgement of Receipt of M	aterials	G:							
ίχς P	L	_<	Jenny Klue	4.0	Signature		/_		Month Day			
RANSPORTER			Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	aterials	Signature				Month Day	Year		
FACILITY		19.	Discrepancy Indication Space #5 Address: PO Box 57180	, Albuquerque,	NM 87187							
LI	2	20. 1	Facility Owner or Operator: Certification of receip	ot of waste materials	covered by this manifest e	except as noted in Ite	em 19.					
	37.0	1	Printed/Typed Name		Signature	DX			Month Day	Year		
		Printed by U. C. RELLER (ASSOCIATES) INC. Seconds, WI 54857-0388  ORIGINAL — RETURN TO GENERATOR										

	Marie of the State							
	NON-HAZARDOUS	1. Generator's US EPA ID N	lo. Mar	nifest Doc. No.	•			
	WASTE MANIFEST	N/A			of			į
A	3. Generator's Name and Mailing Address				r			
Ţ		New Mexico Oil Cons	ervation Division		Aı	aho Dist	osal Facility	:
	·.	1220 South St. Francis	S Drive				c 1,T17S,R31	
	4. Generator's Phon <b>605 476-3488</b>	Santa Fe, New Mexico	87505			a Count		
	5. Transporter 1 Company Name	6.	US EPA ID Numbe		A. Transporter's			
	Rhino Environmental Se						)5-397-3044 	
	7. Transporter 2 Company Name	8. I	US EPA ID Number		B. Transporter's	Phone		
	Designated Facility Name and Site Address	10.	US EPA ID Numbe		C. Facility's Phon	e		
	Rhino Environmental Serv	ices, Inc. OCD						
	Goo-Yea South 8 miles south of Hobbs on	h 10						
		11Wy 18				<del>5 3 17 16</del>	46	
	Lea County 11. Waste Shipping Name and Description		19/2	1	12. G8f	tailers-46	Total	14. Unit Wt/Vol
		··· <u>·</u> ···	· · · · · · · · · · · · · · · · · · ·		No.	Туре	Quantity	Wt/Vol
	* Ony Mixed	Sotterm					20	ý
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R A T	C. ,							
. 0								
R	d.				· ·	<del>                                     </del>		
	<b>d.</b>		•					
	D. Additional Descriptions for Materials Listed Above	9			E. Handling Code	s for Waste	es Listed Above	
							•	
	Non Hazardous				,	3.7	/ A	
	15. Special Handling Instructions and Additional Info	rmation				N	71	
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								1
							,	
	16. GENERATOR'S CERTIFICATION: I certify the m	aterials described above on this	manifest are not subject	to federal regula	tions for reporting pro	per disposa	l of Hazardous Wa	ste.
	Printed/Typed Name		Signature				Month Day	Year
¥				· · · · · · · · · · · · · · · · · · ·			<u> </u>	
Ţ	17. Transporter 1 Acknowledgement of Receipt of M		N					
Ņ	A Minted/Typed Name	1	Signature	alin	rada		Month Day	21/27
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of M	aterials /	V TOWN	00	1000	· · · · · · · · · · · · · · · · · · ·	101	-   - /
Ř	Printed/Typed Name	<del></del>	Signature				Month Day	Year
ĖR	- Mac Maria		g.,				l · l ·	. 3
	19. Discrepancy Indication Space							
F								
Ā	#5 Address: PO Box 57180	), Albuquerque, NM 87	187				•	
FACILITY	20. Facility Owner or Operator: Certification of receip	ot of waste materials covered	by this manifest excep	t as noted in Ite	em 19.			
<b>y</b>	Printed/Typed Name	3	Signatule	$\mathcal{V}$			Month Day	Year
	LINSEN MER		Juse				110124	103
Par	med by J. J. RELLER & ASSOCIATES INC.			) /		7 40 B	LS-C5-Rév	1200
	men, WI 54957-0368	ORIGINAL – RETU	JRN TO GENE	RATOR		.,.12-E	FO-CO HeV	12198

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		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	S EPA ID No.	Manifest Doc. No.	2. Page 1 of					
	3.	Generator's Name and Mailing Address	N/A	•		ļ					
	4.	No. 12 Generator's Plaggs ( 476-3488 Sa	ew Mexico Oil 20 South St. F Inta Fe, New M	fexico 87505		NE/4, S Lea	E/4,Sec County	osal Facility 1,T17S,R31E NM	-		
Ħ	5.	Transporter 1 Company Name		6. US EPA ID		A. Transporter's					
		Rhino Environmental Servi	ces, Inc.	<u> </u>		505-397-3044					
		Transporter 2 Company Name		8. US EPA ID		B. Transporter's Phone					
	9.	Designated Facility Name and Site Address Rhino Environmental Service Goo-Yea South		10. US EPA ID		C. Facility's Phone 505-247-4646					
		8 miles south of Hobbs on hy	vy 18	<u>.</u>	1/,A		·				
	11	. Waste Shipping Name and Description					ntainers	13. Total	14. Unit		
						No.	Туре	Quantity	Wt/Vol		
	а.	LOAD OF Mixed	Soil	ory				1594			
GENERAT	b.	ce a	2/					154			
ATOR.	c.	6 le 21	11					454			
	d.	11 11	4					159			
	D.	Additional Descriptions for Materials Listed Above	<del>-</del>			E.<≓taneug Coe	ee for Wa	stes Listed Above			
		U U U  Non Hazardous	1	*			N/2	1 Smy			
	15	i. Special Handling Instructions and Additional Info	rmation					? 18 ey x4			
	16	. GENERATOR'S CERTIFICATION: I certify the m	aterials described ab	ove on this manifest are not s	subject to federal regula	itions for reporting p	oper dispo	sal of Hazardous Was	ste.		
$ \downarrow$		Printed/Typed Name		Signature				Month Day	Year		
Ī	17	7. Transporter 1 Acknowledgement of Receipt of M	aterials				·		£.		
RAZS		Printed/Typed Name		Signature				Month Day	U d. }		
Ö	18	Transporter 2 Acknowledgement of Receipt of M	aterials								
AZ%PORTER		Printato Typed Name  AUI  AUI  AUI  AUI  AUI  AUI  AUI  AU	1	Signature				Month Day	Year		
	19	Discrepancy Indication Space									
FAC		#5 Address: PO Box 57180, 2		<del></del>							
LITY	20	Facility Owner or Operator: Certification of receip	ot of waste material	·	except as noted in It	em 19.					
	117	Printe()/Typed Name	EN	Signature	Teur	4		Month Day	403		
		by J. T. RELEPIS ASSOCIATES, INC. VII 54957-0368	ORIGINAL	- RETURN TO G	ENERATOR		.12	BLS-C5 Rev.	12/98		

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ļ		NON-HAZARDOUS	1. Generator's US E	EPA ID No.	Manifest Doc. No.	1	1				
		WASTE MANIFEST	N/	A · · · ·	1	of					
A	3.	Generator's Name and Mailing Address		,							
			New Mexico O	il Conservation I	oivision		A	raho D	isposal Fa	cility	
			1220 South St.						Sec 1,T17		
ŀ	4.	Generator's Phone 505 476-3488	Santa Fe, New						nty, NM	•	
	5.	Transporter 1 Company Name	6		Number	A. Trans	sporter's P				
		Rhino Environmental S	ervices. Inc.		N/A				505-397-3	3044	ĺ
	7.	Transporter 2 Company Name	8				sporter's f	Phone			
			1			Ì	•				į
П	9.	Designated Facility Name and Site Address	1	0. US EPA II		C. Facili	ty's Phone				
		Rhino Environmental Ser	•		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,				
		Goo-Yea South									
		8 miles south of Hobbs o	n hwy 18		N/A		50	) <b>5-</b> 247-	-4646		
	-	. Waste Shipping Name and Description		<del> </del>			12. Cont	ainers	13.		14.
Ш	11	. Waste Shipping Name and Description				1			Total	.	Unit Wt/Vol
П	_						No.	Туре	Quantit	y	VVIVOI
	a.	11 1	5		$\bigcap$	1	1	201	17	$\neg$	CV
		Hydrocarbon	impac	ted Da	حوريد	1	9	BD	10	ノ	~ <i>y</i>
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П	D.	Additional Descriptions for Materials Listed Above	9			E Handi	lina Cadae	e for Ma	stes Listed A	hove	
	ı					L. Hand	ing codes	o ioi vva	stes Listed A	5040	¥
				2		L. Hand	ing codes	5 IOI ***a.	sies Listed A	5040	
				;		L. Hand	ing codes		sies Listed A	5040	
				,		L. Hallo	ing codes		sies Listed A	5040	
		Non Hazardous		;		L. Hallo	ang Codes		N/A		
	15	i. Special Handling instructions and Additional Info	rmation			L. Hand	mig Codes		N/A		
	15	s. Special Handling in structions and Additional Info	rmation			L. Hallo			N/A		
	15	i. Special Handling instructions and Additional Info	rmation			L. Hallo	mig Codes		N/A		
	15	s. Special Handling Instructions and Additional Info	rmation			L. Hallo			N/A		
	15	i. Special Handling instructions and Abditional Info	rmation	3		L. Fland	mig Codes		N/A		
	15	i. Special Handling in situctions and Abditional Info	rmation	3		L. Flanc	mig Codes		N/A		
	15	s. Special Handling in structions and Additional Info	rmation			L. Fland	ing Codes		N/A		
				on this manifest are no	subject to federal regula				N/A		
		i. GENERATOR'S CERTIFICATION: I certify the m			subject to federal regula				N/A Sal of Hazardo	ous Wast	
				e on this manifest are no Signature	subject to federal regula				N/A		te. Year
<b>Y</b>	16	i. GENERATOR'S CERTIFICATION: I certify the m Printed/Typed Name	aterials described abov		subject to federal regula				N/A Sal of Hazardo	ous Wast	
₩ TŖ	16	i. <b>GENERATOR'S CERTIFICATION:</b> I certify the m Printed/Typed Name 7. Transporter 1 Acknowledgement of Receipt of M	aterials described abov	Signature	subject to federal regula				N/A sal of Hazardo  Month	ous Wast	Year
→ TRAZ	16	GENERATOR'S CERTIFICATION: I certify the m Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name	aterials described abov aterials			ations for re-			N/A sal of Hazardo  Month	ous Wast	Year Year
→ TRAZOP	16	Frinted/Typed Name  7. Transporter 1 Acknowledgement of Receipt of Merinted/Typed Name  Printed/Typed Name  UAN Garci	aterials described abov aterials	Signature	subject to federal regula	ations for re-			N/A sal of Hazardo  Month	ous Wast	Year
→ TRAZ%POR	16	S. GENERATOR'S CERTIFICATION: I certify the moderate of Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of Moderate of Name  UAN Garti  B. Transporter 2 Acknowledgement of Receipt of Moderate of Moderate of Moderate of Name  aterials described abov aterials	Signature		ations for re-			N/A sal of Hazardo Month Month	Day	Year Year	
→ TRANSPORTE	16	Frinted/Typed Name  7. Transporter 1 Acknowledgement of Receipt of Merinted/Typed Name  Printed/Typed Name  UAN Garci	aterials described abov aterials	Signature		ations for re-			N/A sal of Hazardo  Month	ous Wast	Year Year
→ TRANSPORTER	16	Frinted/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M  Printed/Typed Name  CARCI  3. Transporter 2 Acknowledgement of Receipt of M  Printed/Typed Name	aterials described abov aterials	Signature		ations for re-			N/A sal of Hazardo Month Month	Day	Year Year
→ TRANSPORTER	16	S. GENERATOR'S CERTIFICATION: I certify the moderate of Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of Moderate of Name  UAN Garti  B. Transporter 2 Acknowledgement of Receipt of Moderate of Moderate of Moderate of Name  aterials described abov aterials	Signature		ations for re-			N/A sal of Hazardo Month Month	Day	Year Year	
	16	Frinted/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M  Printed/Typed Name  CARCI  3. Transporter 2 Acknowledgement of Receipt of M  Printed/Typed Name	aterials described abov aterials	Signature		ations for re-			N/A sal of Hazardo Month Month	Day	Year Year
F	16	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space	aterials described abov aterials Ar aterials	Signature Signature Signature		ations for re-			N/A sal of Hazardo Month Month	Day	Year Year
FACI	16	Frinted/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M  Printed/Typed Name  CARCI  3. Transporter 2 Acknowledgement of Receipt of M  Printed/Typed Name	aterials described abov aterials Ar aterials	Signature Signature Signature		ations for re-			N/A sal of Hazardo Month Month	Day	Year Year
FACIL	16	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space	aterials described above aterials  A aterials aterials	Signature Signature Signature	iam Ganci	ations for re-			N/A sal of Hazardo Month Month	Day	Year Year 03 Year
FACILIT	16	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space  #5 Address: PO Box 571	aterials described above aterials  A aterials aterials	Signature Signature Signature	iam Ganci	ations for re-			N/A sal of Hazardo Month Month	Day	Year Year 0.3 Year
FACILI	16	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space  #5 Address: PO Box 571	aterials described above aterials  A aterials aterials	Signature Signature Signature	iam Ganci	ations for re-			N/A sal of Hazardo Month Month	Day	Year Year 0.3 Year
FACILIT	16	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space  #5 Address: PO Box 571	aterials described above aterials  A aterials aterials	Signature Signature Signature Signature	iam Ganci	ations for re-			N/A sal of Hazardo Month Month Month Month	Day Day Day Day	Year Year Year
FACILITY	16	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space  #5 Address: PO Box 571  9. Facility Owner or Operator: Certification of receipt Printed/Typed Name	aterials described above aterials  A aterials aterials	Signature Signature Signature Signature	iam Ganci	ations for re-		per dispos	N/A  sal of Hazardo  Month  Month  Month  Month	Day Day Day Day Day Day	Year Vear Year Year Year Year
FACILITY	16 17 18	Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name  9. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name  9. Discrepancy Indication Space  #5 Address: PO Box 571	aterials described above aterials  A aterials  80, Albuquerque of of waste materials	Signature Signature Signature Signature	et except as noted in It	ations for re-		per dispos	N/A sal of Hazardo Month Month Month Month	Day Day Day Day Day Day	Year  Year  Year  Year  Year

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		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	***		
<b>^</b>		Generator's Name and Mailing Address  Generator's Phone 505 476-3488	New Mexico Oil Conservation I 1220 South St. Francis Drive Santa Fe, New Mexico 87505		WE/4, S1	E/4,Sec 1	isposal Facilit I,T17S,R31E nty, NM	y
	_	Transporter 1 Company Name Chaparral Services, Inc.	6. US EPA I	D Number N/A	A. Transporter's	Phone	505-397-3044	
	7.	Transporter 2 Company Name	8. US EPA I	D Number	B. Transporter's	Phone		
	9.	Designated Facility Name and Site Address	10. US EPA I	D Number	C. Facility's Pho	ne		
		Sundance Services 2 miles East on Hwy 18	1	N/A			505-394-2511	, s
	11.	Waste Shipping Name and Description			12. Co No.	ontainers Type	13. Total Quantity	14. Unit Wt/Vol
	a.	Produced Hall	TANK BOHOM	S	<i>l</i> .	TANK	130	BBL
G E N	b.							
GENERATO	c.	· ·				<u> </u>		
Ö R	<u></u>							
	d.							
	D.	Additional Descriptions for Materials Listed Above	9		E. Handling Cod	les for Was	ites Listed Above	
		Non Hazardous					N/A	
	15	#5 Address: PO Drawer	rmation : 1769, Eunice, NM 88231					
	16	GENERATOR'S CERTIFICATION: 1 certify the m		t subject to federal regula	tions for reporting p	roper dispos		
$\downarrow$	1	Protect/Typed Name	Signature				Month Day	
T R	17	Transporter 1 Acknowledgement of Receipt of M.	aterials		7			
ANS		Printed/Typed Name  Lene (e.c.) Nam T 5	Signature		_		Month Day	103
P O	18	Transporter 2 Acknowledgement of Receipt of M.	aterials		·			
TRANSPORTER		Printed/Typed Name	Signature				Month Day	Year
FACILI		Discrepancy Indication Space  Facility Owner or Operator: Certification of receipt	t of waste materials covered by this manife	st except as noted in Ite	em 19.			
Y		Printed/Typed Name  BELLE ROACK	Signature	ulle /	Doce		Month Day	Year
		VI. I KELER & ASSOCIATES, INC. WI 54957-0368	ORIGINAL – RETURN TO O	SENERATOR		12-	3LS-C5 Rev	12/98

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  (SIGNATURE)  (SIGNATURE)  White - Sundance Canary - Sundance Acct #1 Pink - Sundance Acct #2 Gold - Transporter Superior Printing Service, Inc.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY FACILITY FOR DISPOSAL.	Description:  VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]	(1) ter []	LEASE OPERATOR/SHIPPER/COMPANY:  LEASE NAME:  TRANSPORTER COMPANY:  DATE:  VEHICLE NO.:  DRIVER NO.:	Sundance Services, Inc. § 69923  P. O. Box 1737 * Eunice, New Mexico 88231  (505) 394-2511

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رماد آهي			,						
		NON-HAZARDOUS	1. Generator's US EPA II	D No.	Manifest Doc. No.	2. Page 1			
		WASTE MANIFEST	N/A		1.0	of	1		
_ A	3.	Generator's Name and Mailing Address	1		-1		·!	····	
▋↑		- · · · · · · · · · · · · · · · · · · ·	New Mexico Oil C	oncerration Di	zicion		Αταίο Π	isposal Facility	v .
					rision	\A/E/A		1,T17S,R31E	
	1	Generator's Phone 4	1220 South St. Fra		•	VVC/4,		nty, NM	
	ļ	Generator's Phone 505 476-3488	Santa Fe, New Me		·			uny, ww	
	5.	Transporter 1 Company Name	6.	US EPA ID 1		A. Transporte	er's Phone	505 305 3044	•
	L	Chaparral Services, Inc	. <u> </u>	<u> </u>	. N/A			505-397-3044	
	7.	. Transporter 2 Company Name	8.	US EPA ID I	Number	B. Transporte	er's Phone		
	1								
	9.	. Designated Facility Name and Site Address	10.	US EPA ID I	Number	C. Facility's F	Phone		
		Sundance Services						•	
		2 miles East on Hwy 18	1.		N/A	·		505-394-2511	
	1	Waste Shipping Name and Description			· · · · · · · · · · · · · · · · · · ·	12.	Containers	13.	14.
	1'	1. Waste Shipping Name and Description				,,	o.   Type	Total Quantity	Unit Wt/Vol
	$\vdash$						o. Type	· · · · · · · · · · · · · · · · · · ·	
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	-	Additional December of a Managing Listed Above				[ ]	2000 400 1040		
	-	Additional Descriptions for Materials Listed Abov	e e			E. Handling (	odes for wa	stes Listed Above	,
								*	
	İ	_						BT/A	
		Non Hazardous					•	N/A	1
	1	5. Special Handling Instructions and Additional Info	rmation			I			
		,							
		2	•						
	-							•	
		~~~							
		#5 Address: PO Drawer	1769, Eunice, NM 88	3231					
	1	-							
	1	6. GENERATOR'S CERTIFICATION: I certify the r	naterials described above on the	his manifest are not s	ubject to federal regula	tions for reportin	g proper dispo	sal of Hazardous Wa	ste.
	Γ	Printed/Typed Name		Signature				Month Day	
4	-	late of	1.	_				1/01/15	707
, i	1	7. Transporter 1 Acknowledgement of Receipt of M	Jaterials	<u> </u>				1. 0170	
9	  -	Printed/Typed Name/	/	Signature	///			Month Day	Year
Í		1 miles i ypos ivality	Lx	Jignature				I MOITHI Day	79 P
ì	1	THE COUNTY	Interviews		The the		<del></del>	10113	10
F A NOTE OF THE	-	8. Transporter 2 Acknowledgement of Receipt of N	асепаіз	To:			•	<del></del>	
		Printed/Typed Name		Signature				Month Day	Year
	-			<u> </u>					
	1	9. Discrepancy Indication Space							
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9 /	١.								
	`∟								· .
	2	0. Facility Owner or Operator: Certification of recei	ot of waste materials covere	ed by this manifest	except as noted in Ite	em 19.			ŝ
j		Sundanie	SUU.		1 1				
Y		Printed/Typed Name ; /		Signature 1	11/1 1	/ 77		Month Day	Year
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						(A) (A) (A)			
		by Treller Associated Mossilla Wespertable Treller				1.75	12-	BLS-C5 Rev	12/98
1100		AND THE STREET, ASSESSED.	ORIGINAL - RE	TURN TO GE	NERATOR				<b>15</b> (10)

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without ipendent,  DRIVER:  (SIGNATURE)  FACILITY REPRESENTATIVE:  (SIGNATURE)  (SIGNATURE)  (SIGNATURE)	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	TYPE OF MATERIAL  [ ] Production Water	)LE N	Sundance Services, Inc. 65314

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Revised 12/27/95

Superior Printing Service, Inc.

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	NON-HAZARDOUS	Generator's US EPA ID No.	Manifest Doc. No.	1 -				
	WASTE MANIFEST	· · · · · N/A · · · ·	· · · · · · · · · · · · · · · · · · ·	of	<u> </u>			
A	3. Generator's Name and Mailing Address			**				
T	`}	New Mexico Oil Conservation	n Division		Araho	Disposal I	acility	
		1220 South St. Francis Drive		WF/4 5		: 1,T17S,R		
П	1	Santa Fe, New Mexico 87505		***		unty, NM		
П			PA ID Number	A Tropped				
	5. Transporter 1 Company Name	<del>-</del>	N/A	A. Transport	ers Priori	505-397	ANA A	
	Chaparral Services, Inc.						-50-4-4	
	7. Transporter 2 Company Name	1	EPA ID Number	B. Transport	ers Phon	16		į.
			· · · · · · ·					
	Designated Facility Name and Site Address	10. US E	EPA ID Number	C. Facility's	Phone			
	Sundance Services							
Н	2 miles East on Hwy 18	1	N/A			505-394	L2511	
Ш				<u> </u>				
П	11. Waste Shipping Name and Description			12.	Containe	rs 1	13. otal	14. Unit
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11	D. Additional Descriptions for Managinal Listed About				200000	10/1	al Albania	1
П	D. Additional Descriptions for Materials Listed Above	•		E. Handling	codes for	wastes Liste	ed Above	
								Ţ,
Ш	1					N/A		
Н	Non Hazardous					N/A		
	15. Special Handling Instructions and Additional Info	mation		·				
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П								1
Н								
H	#5 Address BO Deserve 17	ZO Eumino NIM 99231						
H	#5 Address: PO Drawer 17	09, Ethice, INM 66231						
П								
							····	
	16. GENERATOR'S CERTIFICATION: I certify the m			tions for reporting	ng proper d	isposal of Haz	ardous Was	
	Primad Typed Name	Signature	•			Mo	A	Year
٧	/mg//2/					/	0 15	0.5
Ţ	17. Transporter 1 Acknowledgement of Receipt of Ma	aterials		2/2				
Ä	Printed/Typed Name	Signature			_		nth Day	Year
Š	here ferrant	75	Jul/X				0 15	103
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Ma	aterials	•					
Ĭ		Signature	9			Мо	nth Day	Year
	Printed/Typed Name					<b>i</b> .	.   .	1 . 1
ĮŘ	Printed/Typed Name							
Ř	Printed/Typed Name  19. Discrepancy Indication Space							
	19. Discrepancy Indication Space							
F	19. Discrepancy Indication Space						<u></u>	
F	19. Discrepancy Indication Space	<u> </u>	<u> </u>					
FACIL	19. Discrepancy Indication Space	t of waste materials covered by this w	panifest except as noted in It-	am 19		<b></b>		
FACILI	19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receip		nanifest except as noted in It	em 19.				
FACIL	19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receip	Sin.	2	em 19.	<i>-</i>		ooth Co-	Vaca
FACILIT	19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receip  Printed/Typed Name		2	əm 19.	l l	Mc	onth Day	Year To 2
FACILIT	19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receip	Sin.	2	em 19.	L	Mc	onth Day	Year

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  (SIGNATURE)  FACILITY REPRESENTATIVE:  (SIGNATURE)  White - Sundance Canary - Sundance Acct #1 Pink - Sundance Acct #2 Gold - Transporter Superior Printing Service, Inc.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	[ ] Production Water	Sundance Services, Inc. 12 69903  P. O. Box 1737 * Eunice, New Mexico 88231  LEASE OPERATOR/SHIPPER/COMPANY:  LEASE NAME:  TRANSPORTER COMPANY:  DATE:  OTHER COMPANY:  CHARGE TO:  CHARGE TO:  DRIVER NO.:  DRIVER NO.:

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Superior Printing Service, Inc.

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		NON-HAZARDOUS 1 WASTE MANIFEST	. Generator's US		, Ma	anifest Doc. No.	2. Page 1 of					
	3.	Generator's Name and Mailing Address		N/A · · ·		· · · · · ·		l		-		
	4.	Generator's Phone (505 476-3488	New Mexico 1220 South Santa Fe, No	St. Francis D	rive	ion	WE/4	, SE/4,Sec	Disposal Fac : 1,T17S,R31 ounty, NM			
	5.	Transporter 1 Company Name Chaparral Services, Inc.		1	S EPA ID Numi	ber N/A	A. Transporte	er's Phone	505-397-30	)44		
	7.	Transporter 2 Company Name	·	<u> </u>	S EPA ID Numl	ber	B. Transporte	er's Phone				
	9.	Designated Facility Name and Site Address			S EPA ID Numl		C. Facility's P	hone				
		Sundance Services										
		2 miles East on Hwy 18		<u> </u>		N/A			505-394-2	511		
	11	Lea County . Waste Shipping Name and Description		,				Containers	13. Total	14. Unit		
	a.		1				N-	o. Type	Quantity	Wt/Vol		
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	_	Additional Descriptions for Metarials Linted Above	<del></del>									
	U	Additional Descriptions for Materials Listed Above					E. Handling C	odes for wa	stes Listed Abov	e		
		Non Hazardous	<del></del>	,	:				N/A	N/A		
		i. Special Handling Instructions and Additional Inform #5 Address: PO Drawer 1		NM 88231								
	16	6. GENERATOR'S CERTIFICATION: I certify the mate	erials described abo	ove on this manife	st are not subjec	t to federal regula	tions for reporting	g proper dispo	sal of Hazardous	Naste.		
	-	Printed/Typed Name		Signatu	ure				1. 1.	ay Year		
Ţ	17	7. Transporter 1 Acknowledgement of Receipt of Mate	erials				,		101	S 03		
TRAZSPORTER		Printed/Typed/Name		Signatu	Ure Colo	2/	h.		1 , 1	ay Year		
OR	18	3. Transporter 2 Acknowledgement of Receipt of Mate	erials	·····						_		
T E R		Printed/Typed Name		Signatu	ure				Month D	ay Year		
	19	Discrepancy Indication Space						<del></del>				
FAC-												
- - -	20	D. Facility Owner or Operator: Certification of receipt o	of waste materials	s covered by this ز ر ر		pt as noted in It	em 19.	j‡				
Ý		Printed/Typed Name	1	Signatu		lles.	Rone	L	Month L	Pay Year		
Print		VI. J. RELIER & ASSOCIATES, INC. 1888 WI 5885/0086	ORIGINAL	– RETURN	TO GENE	RATOR		<b>ار</b> داد (	BLS-C5 Re	v. 12/98		

			п							
		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	EPA ID No.	Manifest Doc. No.	2. Page 1 of		`		
Ā	3.	Generator's Name and Mailing Address	J							
$ \uparrow $	1		New Mexico O	il Conservation Di	vision		Ara	ho Dist	osal Facilit	y
			1220 South St.			WE/4,			17S,R31E	
Н	4.	Generator's Phone (505 476-3488	Santa Fe, New			ļ			y, NM	
П	5.	Transporter 1 Company Name			D Number	A. Transpo	rter's P	hone		
Н		Chaparral Services, Inc.		. <u></u> .	N/A	<u> </u>		5(	5-397-3044	į.
П	7.	Transporter 2 Company Name		8. US EPA	D Number	B. Transpo	rter's F	hone		
		<i>:</i>			· · · · · · · · · · · · · · · · · · ·		_			
	9.	Designated Facility Name and Site Address		10. US EPA	D Number	C. Facility'	s Phone	•		
									•	
		Sundance Services								
Н		2 miles East on Hwy 18	<u> </u>	<u> </u>	N/A				)5-394-2511	
Ш	11.	. Waste Shipping Warne and Description				1	2. Cont	ainers	13. Total	14. Unit
Ш				,			No.	Туре	Quantity	Wt/Vol
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GENERATOR		<u> </u>				<u> </u>	<u>· ·                                    </u>			
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П	D.	Additional Descriptions for Materials Listed Above	/e	ž		E. Handlin	g Codes	for Was	tes Listed Abov	/e
	}									
П		Non Hazardous						N	/ <b>A</b>	
H	15.	. Special Handling Instructions and Additional Info	ormation			L				
Н									•	
		#5 Address: PO Drawer 1	760 Eunica NA	A 88231						
		#5 Addless. FO Litawel 1	/03, Ethico, 1414	1 00251						
H	1									
П	16.	. GENERATOR'S CERTIFICATION: I certify the I	naterials described abo	ove on this manifest are no	ot subject to federal regula	tions for repo	ting prop	er dispos	al of Hazardous	Waste.
		Printed/Typed Name		Signature		·		· · ·		ay Year
¥	L	The Its							101	503
Ī	17.	. Transporter Acknowledgement of Receipt of M	faterials							
TRANSPORTER		Printed/Typed Name		Signature	7	7			Month D	ay Year
S		Plustin dunkin		Ting	D //1	, 			10	1503
ğ	18.	. Transporter 2 Acknowledgement of Receipt of N	Materials			-				
Ï		Printed/Typed Name		Signature					Month E	ay Year
R										
	19.	Discrepancy Indication Space								
-										
F A C			<i>3</i>							o contraction
			<u></u>							
Ļ	20.	. Facility Owner or Operator: Certification of recei	pt of waste materials	covered by this manife	st except as noted in It	em 19.				والواد
ţ		Dun	elequel	Siw.	1					
Y		Printed/Typed Name	//	Signature	M	7			Month L	Day Year
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White - Sundance Canary Revised 12/27/95	THIS WILL CERTIFY tha Transporter Statement at the a shipper. This will certify that the was delivered without incident.  DRIVER: (SIGNATURE)  FACILITY REPRESENTATIVE:	ALSO AS A CONDITI JOB TICKET, TRANSPORT OPERATOR/SHIPPER TO T FACILITY FOR DISPOSAL	AS A CONDITION T JOB TICKET, OPERATOR MATERIAL EXEMPT FRO TO TIME, 40 U.S.C. § 6901 THERETO, BY VIRTUE O ASSOCIATED WITH THE GEOTHERMAL ENERGY.	VOLUME OF MATERIAL	[ ] Production Water [ ] Tank Bottoms [ ] Other Material:  Description:	CHARGE TO:	DATE:////// VEHIC	LEASE OPERATOR	
Canary - Sundance Acct #1 Pink - Sundance Acct #2	t the above Transporter lebove described location, on additional materials we (SIGNATURE)	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	ERIAL [ ] BBLS. / ) ( :	[ ] Drilling Fluids [ ] Contaminated Soil [ ] BS&W Content:	TYPE OF MATERIAL	OMPANY: MARCHE NO.: 6	OPERATOR/SHIPPER/COMPANY:	Sundance Services, In  P. O. Box 1737 ★ Eunice, New Mexico 88231  (505) 394-2511
Gold - Transporter Sup	and that it was tendered by the ere added to this load, and that	CCEPTANCE OF THE MATERIALS ( ONLY THE MATERIAL DELIVERE: TRANSPORTER TO SUNDANCE SER	ANCE OF THE MATERIALS SHIPPE THAT THE WASTE MATERIAL SHII PRECOVERY ACT OF 1976, AS AME § 361.001 et seq., AND REGULATI FLUIDS, PRODUCED WATERS, AND DUCTION OF CRUDE OIL OR NATURE.	[ ] YARD:	[ ] Completion Fluids	FERIAL	DRIVER NO.:	W. C. S. S. S. S. S. S. S. S. S. S. S. S. S.	Services, Inc. P. 13 Eunice, New Mexico 88231 5) 394-2511
Superior Printing Service, Inc.	sented by this by the above described nd that the material	SHIPPED WITH THIS D BY VICES, INC.'S	TE IME		Fluids		AM/PM		59917

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		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of			
	3.	Generator's Name and Mailing Address	1472		, . <del></del>	<u></u>		
lî		-	New Mexico Oil Conservation	Division			sposal Facility	7
			1220 South St. Francis Drive		WE/4,		,T17S,R31E	
	—	Generator's Phone 605 476-3488	Santa Fe, New Mexico 87505			Lea Cour	ity, NM	
	5.	Transporter 1 Company Name Chaparral Services, Inc.	6. US EPA	A. Transpo	rter's Phone	505-397 <b>-30</b> 44		
	7.	Transporter 2 Company Name		ID Number	B. Transpo	rter's Phone		
	9.	Designated Facility Name and Site Address			C. Facility's	Phone		
		Sundance Services	·					
		2 miles East on Hwy 18	1	N/A			505-394-2511	
	11	Lea County . Waste Shipping Name and Description				2. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
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	D.	. Additional Descriptions for Materials Listed Above	/e <u>;</u>		E. Handling	Codes for Was	tes Listed Above	1
		Non Hazardous	'				N/A	
		Noil Hazardous						
	15	5. Special Handling Instructions and Additional Info	ormation					9
		#5 Address: PO Drawer	1769, Eunice, NM 88231					
				,				
1	16	6. GENERATOR'S CERTIFICATION: I certify the r		not subject to federal regula	tions for report	ting proper dispos		
	,	Printed Typed Name	Signature				Month Day	_
<u>'</u>	17	7. Transport 1 Acknowledgement of Receipt of N	laterials		/			
R		Printed/Typed Name	Signature	1			Month Day	Year
S	4	lustin bunkin	Tu	se) Int	<u>~`                                    </u>	<del> </del>	<u> </u>	50
Ŕ	12	3. Transporter 2 Acknowledgement of Receipt of N	· · · · · · · · · · · · · · · · · · ·					
TRANSPORTER		Printed/Typed Name	Signature				Month Day	Year
	_	9. Discrepancy Indication Space	<u> </u>	· ·		· ····	<del></del>	
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A								
Ĺ	$\vdash$	Facility Owner or Operator: Certification of recei	pt of waste materials covered by this mani	fest except as noted in Ite	em 19.			
! T	1		indance S	are.		1		
Υ		Printed/Typed Name	Signature	/ 1/	()	//	Month Day	/ Year
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White - Sundance Canary - Sundance Acct #1 Pink - Sundance Acct #2 Gold - Transporter Superior Printing Service, Inc.	DRIVER: (SIGNATURE)  FACILITY REPRESENTATIVE: (SIGNATURE)	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.  THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described of this load, and that the material services will certify that no additional materials were added to this load, and that the material services were added to this load, and that the material services were added to this load.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [ ] BBLS. / C : [ ] YARD : [ ]	[ ] Production Water [ ] Drilling Fluids [ ] Completion Fluids [ ] Tank Bottoms [ ] Contaminated Soil [ ] C-117 No.:	TYPE OF MATERIAL	DATE: / / / / VEHICLE NO.: DRIVER NO.:	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 89926  P. O. Box 1737 * Eunice, New Mexico 88231  (505) 394-2511

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		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	EPA ID No.	Manifest Boc. No.	2. Page of	1				
$\overline{\Lambda}$	3	. Generator's Name and Mailing Address		7.2.5	<del></del>						
		. Generator's Phone <b>505 476-3488</b>	1220 South St	Dil Conservation D t. Francis Drive v Mexico 87505	rivision	Araho Disposal Facility WE/4, SE/4,Sec 1,T17S,R31E Lea County, NM					
	5	. Transporter 1 Company Name			) Number	A. Tran	sporter's F				
		Chaparral Services, Inc.		<u> </u>					505-397-3044	1	
	7	. Transporter 2 Company Name	1	8. US EPA II		B. Tran	sporter's l	Phone			
	9	Designated Facility Name and Site Address		10. US EPA II	O Number	C. Faci	lity's Phone	9			
		Sundance Services 2 miles East on Hwy 18		l	N/A			:	505-394-2511		
	1	1. Waste Shipping Name and Description				·	12. Con	tainers	13.	14.	
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	-	5. Additional Descriptions for Materials Listed Abov	<b>.</b>	•		E. mano	iling Codes	s for was	tes Listed Above	ì	
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	1	15. Special Handling Instructions and Additional Info #5 Address: PO Drawer 1		√1 88231						The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
(	1	16. GENERATOR'S CERTIFICATION: I certify the m	aterials described abo	ove on this manifest are no	t subject to federal regula	ations for re	eporting prop	per dispos	al of Hazardous W	/aste.	
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Ţ	1	7. Transporter Acknowledgement of Receipt of M	aterials		X//X						
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R	1	18. Transporter 2 Acknowledgement of Receipt of M	aterials						·		
TRANSPORTER		Printed/Typed Name		Signature					Month Da	y Year	
FAC		19. Discrepancy Indication Space									
FACILITY	2	20. Facility Owner or Operator: Certification of receip	<i></i>	covered by this manifes	st except as noted in It	em 19.					
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Prix	ited inal	by 1.1 KELLERA ASSOCIATES, INC. 1, WI 54957-0368	ORIGINAL -	- RETURN TO G	FNFRATOR			192 192		21933	

FACILITY REPRESENTATIVE:

White - Sundance Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

(SIGNATURE)

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THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  **DRIVER:**  **DRIVER:**	MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]  AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS TOR TICKET OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS	TYPE OF MATERIAL [ ] Drilling Fluids [ ] Contaminated Soil [ ] BS&W Content:	63 VEHICLE NO: 77 71	to Supared	Sundance Services, Inc. P. O. Box 1737 * Eunice, New Mexico 88231 (505) 394-2511
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ž.,		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E	PA ID No.	Manifest Doc. No.	2. Page 1 of						
<u> </u>		Generator's Name and Mailing Address  Generator's Phon 505 476-3488	New Mexico Oil 1220 South St. F Santa Fe, New M		vision	WE/4, S	Araho Disposal Facility WE/4, SE/4,Sec 1,T17S,R31E Lea County, NM					
	┝-	Transporter 1 Company Name Chaparral Services, Inc.	6.		Number N/A	A. Transport	er's Phone	05-397-3044				
1	7.	Transporter 2 Company Name	<u> </u>	N/A  8. US EPA ID Number			er's Phone	03-337-3044				
	-	Designated Facility Name and Site Address			Number	C. Facility's I	Phone					
	Sundance Services 2 miles East on Hwy 18 N/A 505-394-							05-394-2511				
	11	. Waste Shipping Name and Description	<del></del>			t	Containers	13. Total	14. Unit			
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	D.	. Additional Descriptions for Materials Listed Abo	ve			E. Handling	Codes for Was	stes Listed Above				
		Non Hazardous					1	<b>1/A</b> _				
	15	5. Special Handling Instructions and Additional Inf	ormation					1.				
		#5 Address: PO Drawer 1	769, Eunice, NM	88231								
	16	6. GENERATOR'S CERTIFICATION: I certify the	materials described above	e on this manifest are not	subject to federal regula	itions for reportin	ng proper dispo	sal of Hazardous Wa	ıste.			
V	,	Printed/Typed Name		Signature		_		Month Day	Year - 03			
Ţ	17	7. Transporter 1 Acknowledgement of Receipt of N	Materials									
AZV.	Ç	Printed/Typed Name  Printed/Typed Name  ARCIDS		Signature	WIND DE	(III)		Month Day	Year			
P	18	B. Transporter 2 Acknowledgement of Receipt of I	Materials	- Aller	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	···						
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1	20	D. Facility Owner or Operator: Certification of rece		<b>/</b> f	. 1 6				ii ii			
L-T-Y	20	Printed/Typed Name		nelanc Signature	. 1 6	ch		Month Day	/ Year			

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THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter. Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  (SIGNATURE)  White - Sundance Canary - Sundance Acct #1 Pink - Sundance Acct #2 Gold - Transporter Superior Priving Service Inc.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [ ] BBLS. : [ ] YARD : [ ]	TYPE OF MATERIAL  [ ] Production Water	LEASE OPERATOR/SHIPPER/COMPANY: 110 110 110 110 110 110 110 110 110 11	Sundance Services, Inc

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		NON-HAZARDOUS	Generator's US EPA ID No.	Manifest Doc. No.						
	<u> </u>	WASTE MANIFEST		<u>     .</u>	of					
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١		1	New Mexico Oil Conservation	Division	1	Araho !	Dispos	al Facility	• • •	
		· · · · · · · · · · · · · · · · · · ·	1220 South St. Francis Drive	W	WE/4, SI	2/4,Sec	1,Ť17	S,R31E		*
	4. (	Generator's Phone ( 476-3488 5	Santa Fe, New Mexico 87505			ea Co				
	5.	Fransporter 1 Company Name		EPA ID Number	A. Transpor					;
		Chaparral Services, Inc.		N/A	l		505-	397-3044		
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Ш	9. 1	Designated Facility Name and Site Address		EPA ID Number	C. Facility's	Phone				
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H	Ì	Sundance Services								
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	15.	Special Handling Instructions and Additional Inf	formation		<del></del>					
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[64] Other Material: FACILITY REPRESENTATIVE: shipper. This will certify that no additional materials were added to this load, and that the material FACILITY FOR DISPOSAL. OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC. 'S MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME DRIVER: JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY GEOTHERMAL ENERGY. ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS **VOLUME OF MATERIAL** [ ] BBLS. was delivered without incident Transporter Statement at the above described location, and that it was tendered by the above described THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE The Tank Bottoms [ ] Production Water CHARGE TO: DATE: LEASE NAME: LEASE OPERATOR/SHIPPER/COMPANY: TRANSPORTER COMPANY: ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS THIS WILL CERTIFY that the above Transporter loaded the material represented by this AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS Description: (SIGNATURE) > VEHICLE NO.: Sundance Services, Inc. [ ] Contaminated Soil [ ] Drilling Fluids P. O. Box 1737 ★ Eunice, New Mexico 88231 ] BS&W Content: TYPE OF MATERIAL (505) 394-2511 [ ] YARD **DRIVER NO.:** [ ] C-117 No.: Completion Fluids TIME 5992 AM/PM

White - Sundance Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

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	NON-HAZARDOUS	1. Generator's US EPA ID No.	Manifest	Doc. No.	2. Page 1						
	WASTE MANIFEST			5.1	of			4			
A	3. Generator's Name and Mailing Address	N/A									
<b>↑</b>   	N 12	ew Mexico Oil Conservat 220 South St. Francis Driv	<i>r</i> e		Araho Disposal Facility WE/4, SE/4,Sec 1,T17S,R31E						
Ш		anta Fe, New Mexico 875	05 US EPA ID Number		A. Transporte	a County,	NM				
	5. Transporter 1 Company Name	6. I			a. Fransporte		207 2044				
Ш	Chaparral Services, Inc.	· · · · · · · · · · · · · · · · · · ·	US EPA ID Number	· · · · · · .	<del></del>		-397-3044	·			
	7. Transporter 2 Company Name				3. Transporter			j.			
	Designated Facility Name and Site Address	10.	US EPA ID Number		C. Facility's Pl	none					
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	D. Additional Descriptions for Materials Listed Above	re	3		E. Handling Co	odes for Was	tes Listed Abo	ove			
	Non Hazardous					N/.	A				
	15. Special Handling Instructions and Additional Info #5 Address: PO Drawer 176										
	16. GENERATOR'S CERTIFICATION: 1 certify the r	naterials described above on this ma	nifest are not subject to fed	eral regulati	ons for reporting	proper dispos	al of Hazardous	s Waste.			
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Ĭ	17. Transporter 1 Acknowledgement of Receipt of M	laterials	مر		7						
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	19. Discrepancy Indication Space		- · · · · · · · · · · · · · · · · · · ·		-						
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(SIGNATURE)  FACILITY REPRESENTATIVE:  (White - Sundance Canary - Sundance Acct #1 Revised 12/27/95	THIS WILL CERTIFY that Transporter Statement at the austripper. This will certify that r was delivered without incident.  DRIVER:	ALSO AS A CONDITION T JOB TICKET, TRANSPORTER R OPERATOR/SHIPPER TO TRAN FACILITY FOR DISPOSAL.	AS A CONDITION TO SUND JOB TICKET, OPERATOR/SHIPPEI MATERIAL EXEMPT FROM THE I TO TIME, 40 U.S.C. § 6901, et seq., THERETO, BY VIRTUE OF THE E: ASSOCIATED WITH THE EXPLOR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL	[ ] Production Water [ ] Tank Bottoms [ ] Other Material:  Description:	CHARGE TO:	TRANSPORTER COMPANY:	LEASE OPERATOR/SHIPPER/COMPANY:	
(SIGNATURE) mce Acet #1 Pink - Sundance Acet #2	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above descrishipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:**  **DRIVER:*	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.		H BBLS. /32	[ ] Drilling Fluids [ ] Contaminated Soil [ ] BS&W Content:	TYPE OF MATERIAL	VEHICLE NO.:	HIPPER/COMPANY:	Sundance Services, In P. O. Box 1737 * Eunice, New Mexico 88231 (505) 394-2511
Gold - Transporter	oaded the material represen and that it was tendered by ere added to this load, and i	CCEPTANCE OF THE MATERIAL IT ONLY THE MATERIAL DELIVE TRANSPORTER TO SUNDANCE S	ANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWIT USOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM THE NM HEALTH AND SAF, CODE § 361.001 et seq., AND REGULATIONS RELATED KEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WAS ATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR	: []YARD:	[ ] Completion [ ] C-117 No.:	TERIAL	DRIVER NO.:	D	Services, Inc.
Superior Printing Service, Inc.	ssented by this by the above described md that the material	RIALS SHIPPED WITH THIS LIVERED BY VCE SERVICES, INC.'S	SHIPPED WITH THIS AL SHIPPED HEREWITH IS AS AMENDED FROM TIME GULATIONS RELATED ERS, AND OTHER WASTE R NATURAL GAS OR		pletion Fluids 7 No.:		AM/PM		69936

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No	o. 2. Page 1 of							
3. Generator's Name and Mailing Address	N/A									
1				L - D'	sal Facility					
	New Mexico Oil Conservation Division									
4. Generator's Prione (										
505 476-3488 Sa 5. Transporter 1 Company Name	nta Fe, New Mexico 87505	A ID Number	A. Transporter's Phone							
				397-3044						
7. Transporter 2 Company Name		N/A · · · · · · · · · · · · · · · · · · ·	B. Transporte		<del>19 /- 1044</del>					
7. Transportor 2 dompany realie	A ID Hamber	S. Transporter's Trising								
Designated Facility Name and Site Address	10. US EP/	A ID Number	C. Facility's Pl	none	· · · · · · · · · · · · · · · · · · ·					
5. Designated Facility Number and Oile Address	O. Tuomiy o T									
Sundance Services	1	505	204.0511							
2 miles East on Hwy 18	<u></u>	<u>N/A · · · · · · · · · · · · · · · · · · ·</u>	1 10	202- Containers	394-2511 13.	14.				
11. Waste Shipping (Nematry)d Description					Total	Unit				
			No	. Type	Quantity	Wt/Vol				
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D. Additional Besonptions for Waterland Elsted Abov	;		L. Handing C	0000 101 1140	NOS EIGIGG ADOVO	0.0				
			Ì							
Non Hazardous				N/A						
15. Special Handling Instructions and Additional Info	rmation									
	#5 Address: PO Drawer 1769, Eunice, NM 88231									
16. GENERATOR'S CERTIFICATION: I certify the re	<del></del>	not subject to federal regul	lations for reporting	proper dispos	sal of Hazardous W	aste.				
Printed/Typed Name	Signature				Month Day	/ Year				
I my Kong.					11.01	5703				
T 17. Transporte 1 Acknowledgement of Receipt of N	aterials									
A Printed/Typed Name/)	Signature	+ 11	/		Month Day					
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2 18. Transporter 2 Acknowledgement of Receipt of N	aterials									
T R A Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of N  Printed/Typed Name  Printed/Typed Name	Signature				Month Day	y Year				
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19. Discrepancy Indication Space										
E line 13: correct zu	eautity.									
c since is i willen	1 8									
L 20. Facility Owner or Operator: Certification of recei	ot of waste materials covered by this man	nifest except as noted in	Item 19.	· · · · ·						
20. Facility Owner or Operator: Certification of recei										
Printed/Typed Name	Signature	$\overline{}$			Month Da	v Year				
	June	1 2			10011	SV)				
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Printed by A.J. RELLER & ASSOCIATES, INC.	J			***	BLS-C5 Hev	DOG.				
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		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US Ef		Manifest Doc. No.	2. Page of				***		
<b>^</b>	3.	Generator's Name and Mailing Address 505 476-3488	New Mexico Oi 1220 South St. I Santa Fe, New I		ision	Araho Disposal Facility WE/4, SE/4, Sec 1, T17S, R31E Lea County, NM						
	<b>├</b>	Generator's Phone (Chaparral Services, Inc. Transporter 1 Company Name	6. I	US EPA ID N	N/A umber	A. Transporter's Phone 505 397 3044						
	7.	Transporter 2 Company Name	umber	B. Transporter's Phone								
	9.	Designated Facility Name and Site Address 2 miles East on Hwy 18 Lea County	. US EPA ID N	US EPA ID Number C. N/A			!	505-394-25	511			
	11	. Waste Shipping Name and Description		<u> </u>			12. Conta	ainers Type	13. Total Quantity	14. Unit Wt/Vol		
	a.	Product 40/ TA	nk Both	oms			<u>/.                                    </u>	lank	130	. BB)		
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A T O R	c.											
	d.			,			,					
	D.	. Additional Descriptions for Materials Listed Above	9			E. Hand	llina Codes	for Was	tes Listed Abo	ve .		
		Non Hazardous		3			<b>.</b>		N/A			
	15	5. Special Handling Instructions and Additional Infor	mation	·								
		#5 Address: PO Drawer 1	.769, Eunice, NM	88231								
	16	6. GENERATOR'S CERTIFICATION: I certify the m	aterials described above	T	bject to federal regula	tions for re	porting prop	er dispos				
V		Printed/Typed Name		Signature					Month 1	Day Year		
Ţ	17	7. Transporter 1 Acknowledgement of Receipt of Ma	aterials		1				., 17.1.			
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P O	18	3. Transporter 2 Acknowledgement of Receipt of Ma	aterials		us yeull				<u> </u>	JIU		
TRANSPORTER		Printed/Typed Name	·	Signature					Month I	Day Year		
FACIL	19	Discrepancy Indication Space		-								
+	20	). Facility Owner or Operator: Certification of receip	t of waste materials co	vered by this manifest e	xcept as noted in Ite	em 19.				231		
Υ		Printed/Typed Name A(I) RAMOS		Signature	10				Month	Day Year		
L				15-1		FREE	V 40 - 1 - 1 - 1 - 1	Section 1	1,01/	/3 -		

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1		1:	ew Mexico Oil Co 220 South St. Fran anta Fe, New Mex	Araho Disposal Facility WE/4, SE/4,Sec 1,T17S,R31E Lea County, NM						
l		Generator's Phone (						* .		
	_	Transporter 1 Company Name Vices, Inc.	6. 		<u></u>				-397-3044	
		Transporter 2 Company Name	8.	Number	B. Trans					
Ì	9.	Designated Facility Name and Site Address	· 10	US EPA ID I	Number	C. Facilit	y's Phone	)		
		Sundance Services 2 miles East on Hwy 18 Lea County	L	N/A				505-	-394-2511	
1	11.	. Waste Shipping Name and Description					12. Cont	ainers	13. Total	14. Unit
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	d.	<i>;</i>					/			
	D.	Additional Descriptions for Materials Listed Abo	ve			E. Handli	ng Codes	for Was	tes Listed Above	
		Non Hazardous		ı				N/A	<b>.</b>	
l	15	. Special Handling Instructions and Additional Inf	ormation			<u></u>	<del></del>	•		
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۱۱	16	. GENERATOR'S CERTIFICATION: I certify the							-1 -411	
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		Printed/Typed Name	materials described above	on this manifest are not s Signature	ubject to federal regula	tions for rep	orting prop	er dispos	Month Day	Year
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	18	Printed/Typed Name  Transporter 1 Acknowledgement of Receipt of Name  Transporter 2 Acknowledgement of Receipt of Name  Printed/Typed Name	Materials Materials	Signature Signature Signature	a Buu		orting prop	er dispos	Month Day      1.  Month Day	Year  Output  Description  Year  Output  Put  Put  Put  Put  Put  Put  Put
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(SIGNATURE)  FACILITY REPRESENTATIVE: (SIGNATURE)  White - Sundance Canary - Sundance Acct #1 Pink - Sundance Acct #2 Gold - Transporter Superior Printing Service, Inc.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. / 30 : [] YARD : []	[ ] Production Water	CHARGE TO: / // // // // TYPE OF MATERIAL	DATE: # 17/63 VEHICLE NO.: DRIVER NO.:	LEASE OPERATOR/SHIPPER/COMPANY: R	Sundance Services, Inc. 12 69973  P. O. Box 1737 * Eunice, New Mexico 88231  (505) 394-2511  7 2

Superior Printing Service, Inc.

				7						
		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US N/A	EPA ID No.	Manifest Doc.	No. 2. Pag of	e 1			
A	3.	Generator's Name and Mailing Address	New Mexico Oil (	Conservation Divis	ion		Arah	o Disno	osal Facility	
		-	ancis Drive		WE/4			7S,R31E		
		Generator's Phone ( 476-3488	Santa Fe, New Mo	exico 87505			Lea (	County	, NM	
		Transporter 1 Company Name Chaparral Services, Inc.		6. US EPA II	N/A.				5-397-3044	
		Transporter 2 Company Name		8. US EPA II			nsporter's			
	9.	Designated Facility Name and Site Address		10. US EPA IE	) Number	C. Fac	ility's Phon	e		
		Sundance Services 2 miles East on Hwy 18 Lea County			N/A 			505	5-394-2511	
	11.	Waste Shipping Name and Description	-				12. Cor	tainers	13. Total	14. Unit
					<u> </u>	·	No.	Туре	Quantity	Wt/Vol
	a.	Producted H20/	TANK	Bottoms			1.	TANK	130	BBI
G	b.		• • • • • • • • • • • • • • • • • • • •	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	n 37				1	
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	d.				*					
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	ט.	Additional Descriptions for Materials Listed Ab	ove	:		E. Han	idling Code	s for Wa	stes Listed Above	•
•		Non Hazardous					•	N/.	A	
	15.	Special Handling Instructions and Additional Ir	nformation	<del> </del>	<u>-</u>		<del></del>			
			,							
		#5 Address: PO Drawer 17	69, Eunice, NM 8	8231						
	16.	GENERATOR'S CERTIFICATION: I certify the	materials described abo	ove on this manifest are not	subject to federal re	gulations for	reporting pro	per dispo	sal of Hazardous W	/aste.
   		Printed/Typed Name		Signature			<del></del>	•	Month Da	
Ţ	17.	Transporter 1 Acknowledgement of Receipt of	Materials		10	/				
K.		Print /Typed Name		Signature					Month Da	
SP		hene cervantes		- Jeg					101	<u> 203</u>
日本女子の中の日子	18.	Transporter 2 Acknowledgement of Receipt of	Materials	Cienatius			·			, .i.,
Ė	-	Printed/Typed Name	•	Signature					Month Da	y Year
Ė	19.	Discrepancy Indication Space								
_										
FAC-								.==		
- L Y	20.	Facility Owner or Operator: Certification of rec	eipt of waste materials	covered by this manifes	st except as noted i	n Item 19.			·	
Y		Printed/Typed Name		Signature	1 //		-		Month Da	y Year
: 1		ZACKKAMOS			4 14				1010	1112

SUINGAINCE S. TVÎCES, ÎNC. Mº 69976  P. O. DAN 1737 * Eminic, New Medico 88221  LEASE OPERATOR/SHIPPER/COMPANY: ***  TRANSPORTER COMPANY: ***  TRANSPORTER COMPANY: ***  TYPE OF MATERIAL  [1 Production Water					
	the above Transporter loaded the material represented by this the above described location, and that it was tendered by the above described that no additional materials were added to this load, and that the material ident  (SIGNATURE)  (SIGNATURE)  (SIGNATURE)	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	[ ] Drilling Fluids [ ] Contaminated Soil [ ] BS&W Content: [ ]	TYPE OF MATERIAL	e Sarvices, Inc. No. 699  * Eunice, New Mexico 88231 (505) 394-2511  **  **  **  **  **  **  **  **  **

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,		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US N/A	S EPA ID N	0.		st Doc. No.	2. Page of	1							
Ā	3.	Generator's Name and Mailing Address	r Mariao Oil C	oncorre	tion Divisi				Ambo	Dieno	cal Escilita	,				
T	New Mexico Oil Conservation Division 1220 South St. Francis Drive								Araho Disposal Facility WE/4, SE/4, Sec 1,T17S,R31E							
	4. Generator's P707e ( 476-3488 Santa Fe, New Mexico 87505 *								Lea County, NM							
ŀ	5. Transporter 1 Company Name 6. US EPA ID Number A. Transporter's NA									hone 505-	397-3044					
	7. Transporter 2 Company Name 8. US EPA ID Number								sporter's P	hone						
9. Designated Facility Name and Site Address 10. US EPA ID							• •	C. Faci	lity's Phone							
1		Sundance Services										٠				
		2 miles East on Hwy 18	•	1	1	I/A				505-	394-2511		•			
	11.	Lea County Waste Shipping Name and Description		L <u>:</u> :	• • • •	· · ·	<u> </u>		12. Cont	ainers	13.		14.			
١									No.	Туре	Total Quantity		Unit Wt/Vol			
	a.	Producted Azo/1	nk Bi	Hom	· S				1	Mank	( No.	10)	Y83)			
Ģ	b.		,									/,				
N				- '												
GENERATOR	C.		· · · · · · · · · · · · · · · · · · ·				<del></del>	:								
O	,	(					•									
i	d.			· •						<u> </u>	• • • •	•				
	u.	·														
										<u> </u>	<u> </u>	•				
	D.	Additional Descriptions for Materials Listed Above	9				. *	E. Han	dling Codes	for Was	stes Listed At	oove				
		Non Hazardous								N/A						
	15	. Special Handling Instructions and Additional Info	rmation										•			
									•							
		#5 Address: PO Drawer 1769,	Eunice, NM 88	8231												
	16	. GENERATOR'S CERTIFICATION: I certify the m	aterials described abo	ove on this n	nanifest are no	t subject to f	ederal regula	tions for r	eoorting pror	er dispo	sel of Hazardo	us Was	le.			
	<u> </u>	Printed/Typed Name	atomato accombo acc		ignature	· oabjoor to r	odoraz rogano		op g p		Month	Day	Year			
¥	_												.			
R	17	. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name	aterials		ignature						Month	Day	Year			
S	_	Jeff Nannah			Leff	10-	ner				10	17	تحص			
TRAZSPORTER	18	. Transporter 2 Acknowledgement of Receipt of M							· .							
E	-	Printed/Typed Name	1.5	S	ignature						Month	Day	Year			
-	19	. Discrepancy Indication Space											1			
FAC																
LITY	20	. Facility Owner or Operator: Certification of receip	ot of waste materials	s covered b	y this manife	st except as	s noted in It	em 19.								
Y		Printed/Typed Name		S	ignature		P		_	<del></del>	Month	Day	Year			
		Anthony Pender		-	Unit	one	lane				10	17	كُنَّ			

White - Sundance Can Revised 12/27/95	DRIVER: (SIGNATURE)  FACILITY REPRESENTATIVE:	THIS WILL CERTIFY that I Transporter Statement at the a shipper. This will certify that I was delivered without incident	ALSO AS A CONDITION OPERATOR/SHIPPER TO TOTAL FACILITY FOR DISPOSAL	AS A CONDITION TO SUND JOB TICKET, OPERATOR/SHIPPEH MATERIAL EXEMPT FROM THE I TO TIME, 40 U.S.C. § 6901, et seq., THERETO, BY VIRTUE OF THE EX- ASSOCIATED WITH THE EXPLOR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL	[ ] Production Water [ ] Tank Bottoms [ ] Other Material:	GE TO:	RTEF	LEASE OPERATO		等。因为,是他们的一种,我们们们的一种,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们
Canary - Sundance Acet #1 Pink - Sundance Acet #2 Gold - Transporter:  Superior Printing Service, Inc.	TURE)  NTATIVE: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC. S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	TERIAL [2] BBLS. 400 . [ ] YARD [ ]	[ ] Drilling Fluids [ ] Completion Fluids [ ] C-117 No.: [ ] BS&W Content:	PE OF MATERIAL	COMPANY: Change   TIME AM/PM  TIME AM/PM  DRIVER NO.:	OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 89980 P. O. Box 1737 * Eunice, New Mexico 88231 (505) 394-2511	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US N/A	EPA ID No.	Manifest Doc. No	. 2. Page of	e 1					
<b>A</b>	l •	New Mexico Oil ( 1220 South St. Fr	Conservation Divisi	on	18/1-14			sal Facility			
		Santa Fe, New M			WE/4, SE/4,Sec 1,T17S,R31E Lea County, NM						
	5. Transporter 1@naparral and vices, Inc.		6. US EPA IQ	Number	A. Transporter's Phone 05-397-3044						
	7. Transporter 2 Company Name		8. US EPA ID	Number	B. Transporter's Phone						
	9. Designated Familia Nem Ser Riss Address  2 miles East on Hwy 18  Lea County				C. Faci	lity's Phone		-394-2511			
	11. Waste Shipping Name and Description		Li	<u> </u>	<u>                                     </u>	12. Cont	ainers Type	13. Total Quantity	14. Unit Wt/Vol		
	a. Produced Hoo	/TANK	Bottoms			<i>[</i> ].	Buk	130	BB1		
- GWZE	b.						•.		20		
ERATOR	c.,										
	d.	·									
П					T <del>-</del> u		<u> </u>	· · · · ·			
	D. Additional Descriptions for Materials Listed At	oove	. · ·	· ·	E. Han	aling Codes		tes Listed Above			
Ш	Non Hazardous				1 .		N/A	=			
									•.		
	15. Special Handling Instructions and Additional I	nformation									
	15. Special Handling Instructions and Additional I #5 Address: PO Drawer 17	v.	8231	· ·							
		v.	8231				11 - 1				
		69, Eunice, NM 8		subject to federal regul	ations for r	eporting prof		al of Hazardous Wa	ste.		
¥	#5 Address: PO Drawer 17	69, Eunice, NM 8		subject to federal regul	ations for r	eporting prop		al of Hazardous Wa Month Day	ste. Year		
¥ T(	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of	69, Eunice, NM 8	ove on this manifest are not	subject to federal regul	ations for r	eporting prop					
► TRAZSI	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of	69, Eunice, NM 8	ove on this manifest are not	subject to federal regul	ations for r	eporting prop					
→ TRAZSPOR	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of	69, Eunice, NM 8 e materials described abo	ove on this manifest are not Signature	subject to federal regul	ations for r	eporting prop		Month Day	Year		
→ TRAZSPORTER	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of	69, Eunice, NM 8 e materials described abo	ove on this manifest are not Signature	subject to federal regul	ations for r	eporting prop		Month Day	Year Year		
→ TRANSPORTER	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: 1 certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of	69, Eunice, NM 8 e materials described abo	Signature	subject to federal regul	ations for r	eporting prop		Month Day  Month Day	Year Year		
RAZSPORTER	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: I certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name  19. Discrepancy Indication Space	69, Eunice, NM 8 e materials described abo	Signature	subject to federal regul	ations for r	eporting prop		Month Day  Month Day	Year Year		
RANSPORTER FACIL	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: I certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name  19. Discrepancy Indication Space	e materials described above the materials described above the materials of Materials	Signature Signature Signature			eporting prop		Month Day  Month Day	Year Year		
RAZSPORTER	#5 Address: PO Drawer 17  16. GENERATOR'S CERTIFICATION: I certify the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name  19. Discrepancy Indication Space	e materials described above the materials described above the materials of Materials	Signature  Signature  Signature			eporting prop		Month Day  Month Day	Year Year Year		

#### Sundance Services, Inc. NO P. O. Box 1737 \* Eunice, New Mexico 88231 (505) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: TIME AM/PM DATE: **DRIVER NO.:** CHARGE TO: TYPE OF MATERIAL [ Production Water [ ] Drilling Fluids [ ] Completion Fluids LTank Bottoms [ ] Contaminated Soil [ ] C-117 No.: . [ ] Other Material: ] BS&W Content: Description: **VOLUME OF MATERIAL** [ ] BBLS. [ ] YARD AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

**FACILITY REPRESENTATIVE:** 

Canary - Sundance Acct #1

White - Sundance

Revised 12/27/95

			and the factor of the								
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US		Manifest Doc	No. 2	2. Page 1 of			;		
	Generator's Name and Mailing Address  Generator's Phone 605 476-3488	1220 South S	Oil Conservation St. Francis Drive W Mexico 87505	Division		Araho Disposal Facility WE/4, SE/4,Sec 1,T17S,R31E Lea County, NM					
5.	Transporter 1 Company Name			) Number	. A	. Transport	er's Phone				
7.	Transporter 2 Company Name Services, Inc.	-	8. US EPA I	Number A	В	. Transport	er's Phone	<del>- 505-397-30</del>	44		
9.	Designated Facility Name and Site Address		10. US EPA I	O Number	·	. Facility's	Phone		<u> </u>		
	Sundance Services 2 miles East on Hwy 18			N/A				505-394-25	11		
	1. Waste Shipping Name and Description		L		• .	12.	Containers	13. Teach	14.		
							lo. Type	Total Quantity	Unit Wt/Vol		
a.	Producted HOO/	TANK	. Bottoms			j	iAn	130	BBI		
GENER-			· · · · · · · · · · · · · · · · · · ·	,			.				
A C.											
R							· · ·				
d.					ē		. /				
	. Additional Descriptions for Materials Listed Abov	re			E	. Handling	Codes for Wa	astes Listed Abov	е		
	Non Hazardous							N/A			
15	5. Special Handling Instructions and Additional Info #5 Address: PO Drawer	•	NM 88231			•	·				
	6. GENERATOR'S CERTIFICATION: 1 certify the re	naterials described abo	ove on this manifest are or	t subject to federal r	emulatio	ons for reporti	on proper disp	osal of Hazardous \	Naste.		
	Printed/Typed Name	doscribed dix	Signature	. Judgoot to toodial I	Janani	or reporti	a broher dish		ay Year		
<b>∀</b> _											
TRANSPO	7. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name RCOORARC, A	laterials	Signature	was den	777	 P	· · · · · · · · · · · · · · · · · · ·	Menth D	ay Year		
P 18	8. Transporter 2 Acknowledgement of Receipt of M	laterials	(3)	vegin	w	4. 4.1		- Y - J -			
PT ER	Printed/Typed Name		Signature			3	· ·	Month D	ay Year		
F A C	9. Discrepancy Indication Space										
L 20	0. Facility Owner or Operator: Certification of receip	pt of waste materials	s covered by this manife	st except as noted	l in Iten	n 19.	_				
*	Printed/Typed Name		Signature	910 187		Jan	(22	Month (	ay Year		
		ORIGINAL	– RETURN TO	ENERATO	,			ial execting	y. (Z.e.)		

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Sundance Services, Inc. Nº 70034
P. O. Box 1737 ★ Eunice, New Mexico 88231
(505) 394-2511
LEASE OPERATOR/SHIPPER/COMPANY: Thinks the file
LEASE NAME: AVDHO MISPOSEL
TRANSPORTER COMPANY: CHADENIA TIME AM/PM
DATE: 0/2//03 VEHICLE NO.: The DRIVER NO.:
CHARGE TO: PHARAPHA CHIMANIAND BACK SWC
TYPE OF MATERIAL
[ ] Production Water [ ] Drilling Fluids [ ] Completion Fluids
[ ] Tank Bottoms [ ] Contaminated Soil [ ] C-117 No.:
[ ] Other Material:
Description; 1/1/3
VOLUME OF MATERIAL []BBLS. / 3/0 : []YARD : []
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS
JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  DRIVER:  (SIGNATURE)  FACILITY REPRESENTATIVE:  (SIGNATURE)
White - Sundance Canary - Sundance Acct #1 Pink - Sundance Acct #2 Gold - Transporter Revised 12/27/95 Superior Printing Service, Inc.

Superior Printing Service, Inc

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US N/A	S EPA ID No.	Manifest Doc. N	o. 2. Page 1 of					
<b>▲</b>	3. Generator's Name and Mailing Address	New Mexico Oil C	onservation Division	1	Ar	aho Disposa	al Facility			
		1220 South St. Fra	incis Drive		WE/4, SE/4	SE/4,Sec 1,T17S,R31E				
	4. Generator's 505ne ( 476-3488	Santa Fe, New Me	xico 87505		T.e.	a County, N	IM ·			
	5. Transporter 1 Company Name		6. US EPA ID	Number	A. Transport	orter's Phone				
	7. Transporter 2 Company Name		8. US EPA ID	Number	B. Transport	- 505 3 er's Phone	97 30++ /			
			<u> </u>							
	Designated Facility Name and Site Address	ess	10. US EPA ID	Number	C. Facility's	Phone	. 1			
	Sundance Services 2 miles East on Hwy 18	ŧ.,	, N/	Δ		505-3	94-2511			
	Lea County	·								
	11. Waste Shipping Name and Description					Containers lo. Type	13. Total Quantity	14. Unit Wt/Vol		
	a. 11 0 1									
	Aul Bitter	us -				( †	HO BA	4)		
G	b.			· · · · · · · · · · · · · · · · · · ·						
E N		<u>*</u>								
GENERATOR	<b>c.</b>	· · · · · · · · · · · · · · · · · · ·				61				
O					1	Sell				
ľ	d.					130	<del>)                                    </del>			
H				, ,		41	.,,			
	D. Additional Descriptions for Materials List	ad Abaya		<del></del>		· / ·	tes Listed Above	<u> </u>		
	Non Hazardous	ed Above	ż		E. Handling	N/A	les Listed Abovi			
						•				
				<del></del>	-					
	15. Special Handling Instructions and Addition	onal Information					į.			
	#5 Address: PO Drawer	1769, Eunice, NM 88	231							
	_			•	•					
			·							
	16. GENERATOR'S CERTIFICATION: 1 cer	tify the materials described ab		subject to federal regu	ulations for reporting	ng proper dispos				
V	Printed/Typed Name ;		Signature				Month Da	ay Year		
Ţ	17. Transporter 1 Acknowledgement of Reco	eipt of Materials								
ANG	Printed/Typed Name	note	Signature	sham	161	set to	Month Di	Y Your		
TRANSPORTER	18. Transporter 2 Acknowledgement of Reco	eipt of Materials	- ( Cape				200	(0)		
F	Printed/Typed Name		Signature				Month Da	ay Year		
H	19. Discrepancy Indication Space				<del></del>	<del> </del>				
F		<del>-1</del> 1	/. /							
ACI	line B: cor	recled quar	1713-					.,		
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.										
Y	Printed/Typed Name		Signature o	<i>1</i> .	1 1 1	/	Month D	ay Year		
	Fibia File	/m	Tal.	lan to			10/2	1103		

Sundance Services, Inc P. O. Box 1737 * Eunice, New Mexico 88231 (505) 394-2511	· NE	70036
LEASE OPERATOR/SHIPPER/COMPANY: Rhand	itak.	
LEASE NAME: Acado SWI)		
TRANSPORTER COMPANY:	TIME	AM/PM
DATE: VEHICLE NO.: 59 DRI	VER NO.:	
CHARGE TO: Pismond Back		
TYPE OF MATERIAL		
[ ] Production Water [ ] Drilling Fluids [ ] Tank Bottoms [ ] Contaminated Soil	[ ] Completion F	
[ ] Other Material: [ ] BS&W Content:		•
VOLUME OF MATERIAL [] BBLS : [] YAR	D:	[]
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MAJOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTI MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq. THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODU ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUGEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF T JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATIOPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO FACILITY FOR DISPOSAL.	E MATERIAL SHIP OF 1976, AS AME , AND REGULATIO ICED WATERS, AN JDE OIL OR NATU HE MATERIALS S ERIAL DELIVEREI	PED HEREWITH IS NDED FROM TIME ONS RELATED D OTHER WASTE RAL GAS OR SHIPPED WITH THIS
THIS WILL CERTIFY that the above Transporter loaded the mater Transporter Statement at the above described location, and that it was shipper. This will certify that no additional materials were added to the was delivered without incident.  DRIVER:  (SIGNATURE)	tendered by the	above described
FACILITY REPRESENTATIVE: (SIGNATURE)		

White - Sundance Revised 12/27/95 Superior Printing Service, Inc.

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1		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E	PA ID No. I/A	Manifest Doc. No.	2. Page of	1				
	3.	Generator's Name and Mailing Address	Now Marrian	Oil Conservation	Division			A-sho i	Diamagal I	Faaili	
Ш				on Conservation at. Francis Drive	. L/IVISIOII				Disposal I		
		505 A75 2A99			•	·			1,T17S,F		
	4.	Generator's Phone ( 505 476-3488	Santa Fe, Ne	w Mexico 87505				Lea Co	unty, NM	ļ	
11	5.	Transporter 1 Company Name	6.	US EPA I	D Number	A. Trans	sporter's P	hone			
		- Chaparral Services. Inc	. L		·_*'NI/'A				505-397	-304	À
	7.	Transporter 2 Company Name	8.	US EPA I	D Number	B. Trans	sporter's f	Phone	<del>- 202-224</del>	-24-1	: 1
Ш		•							,		
II	9.	Designated Facility Name and Site Address	10	). US EPA I	D Number	C. Facili	ty's Phone	9			
Ш		Sundance Services									
	٠	2 miles East on Hwy 1	R						•		
		Lea County	L	<u> </u>	N/A				505-394	-251	1
١ſ	11.	Waste Shipping Name and Description				,	12. Cont	tainers	13.		14. Unit
Ш							No.	Туре	Total Quantity	,	Wt/Vol
	a.	Produced H20 in	a Toruk	botom			1	TANK	130		brove
H					· · · · · · · · · · · · · · · · · · ·		<u> </u>	<del>                                     </del>	• • •	•	<del> </del>
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	D.	Additional Descriptions for Materials Listed Above	/e			E. Hand	ling Codes	s for Was	tes Listed Al	oove	
		Non Hazardous							N/A		
H											
	15.	. Special Handling Instructions and Additional Infe	ormation			,					
			•								
								,			
		#5 Address: PO Drawe	л 1769, Eunice, N	M 88231			•				
							*				
									•		
	16.	. GENERATOR'S CERTIFICATION: I certify the	naterials described above	on this manifest are no	t subject to federal regula	tions for re	porting pro	per dispos	al of Hazardo	us Was	ste.
		Printed/Typed Name		Signature	<u> </u>				Month	Day	Year
$ \downarrow $				-	•		-		.	.	1.
Ţ	17.	. Transporter 1 Acknowledgement of Receipt of N	/laterials	• • • • • • • • • • • • • • • • • • • •	10/				<del>-</del>		
<b>一年 4 7 の中 0 年 一 田 m</b>		Printed/Typed Name	• •	Signature	1/1/				Month	Day	Year
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ğ	18	Transporter 2 Acknowledgement of Receipt of M	/laterials		l					- 3	- ;
Ţ		Printed/Typed Name		Signature					Month	Day.	Year
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Ī	19.	. Discrepancy Indication Space									
F A										-	•••
ç											
	20	Facility Owner or Operator: Certification of recei	pt of waste materials c	overed by this manife	st except as noted in It	em 19.					
Ļ	0.										
			Sunday	ul Ser	7.						
AC-L-TY		Printed/Typed Name / , /	- Txindar	Signature	7. N	_/			Month	Day	Year
LITY		Printed/Typed Name	<u> Sundar</u> L		De Por	eh .			Month 1.A	Day	Year

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ll a	1º 70037								
P. O. Box 1737 ★ Eunice, New Mexico 88231 (505) 394-2511	90								
LEASE OPERATOR/SHIPPER/COMPANY: /hrns Enve	romatal								
LEASE NAME: HIAho, SWI)									
TRANSPORTER COMPANY: Chapanal TIM	E AM/PM								
DATE: N/2/103 VEHICLE NO.: 7/ DRIVER NO.:									
CHARGÉ TO: Drammed Back									
TYPE OF MATERIAL									
1	pletion Fluids								
[ ] Contaminated Soil [ ] C-11	7 No.:								
[ ] Other Material: [ ] BS&W Content:	•								
Description:	· .								
VOLUME OF MATERIAL []BBLS 130 []YARD	<u>:[]-</u>								
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERI MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, TO TIME, 40 U.S.C. § 6901, et seq., AND RECOVERY ACT OF THE NAME OF THE SEQUENCE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WAT ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OF GEOTHERMAL ENERGY.	AL SHIPPED HEREWITH IS AS AMENDED FROM TIME GULATIONS RELATED ERS, AND OTHER WASTE								
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATE JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELOPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDAN FACILITY FOR DISPOSAL.	LIVERED BY								
THIS WILL CERTIFY that the above Transporter loaded the material representations and that it was tendered shipper. This will certify that no additional materials were added to this load, a was delivered without incident.	by the above described								
DRIVER: (SIGNATURE)									
FACILITY REPRESENTATIVE: (SIGNATURE)									
White - Sundance									
Revised 12/27/95	Superior Printing Service, Inc.								

\$		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US FPA ID	O No.	Manifest Doc. No.	2. Page of	e 1			-	
<b>A</b>		1220 South St. Francis Drive WE/4, SE/4, Se							Disposal Facility cc 1,T17S,R31E county, NM		
		Transporter 1 Company Name	M45 1	US EPA ID		A. Trar	sporter's P				
ŀ	7.	- Chaparral Services, Inc. Transporter 2 Company Name	8.	US EPA ID	Number	B. Tran	nsporter's I	Phone	505-397-3044	1 :: 1	
	9.	Designated Facility Name and Site Address Sundance Services	10.	US EPA ID	Number	C. Faci	lity's Phone	)			
	'	2 miles East on Hwy 18 Lea County	 		N/A				505-394-2511	, ,	
	11.	Waste Shipping Name and Description			•		12. Cont	ainers Type	13. Total Quantity	14. Unit Wt/Vol	
	a.	Produced H20/Ba	Hom Tan	K,	·		.1.	Tiant	130	BOC	
- GWZW	b.										
ERATOR	C.	(	;				٠. ،				
	d.				3.						
	D.	Additional Descriptions for Materials Listed Abov Non Hazardous	re			E. Han	dling Codes	for Wa	stes Listed Above	•	
	15	Special Handling Instructions and Additional Info	ormation			<u> </u>					
		#5 Address: PO Drawer 1	769, Eunice, NM 882	31							
	16	GENERATOR'S CERTIFICATION: I certify the n	naterials described above on th	nis manifest are not	subject to federal regula	tions for r	eporting pro	per dispo	sal of Hazardous Wa	aste.	
V		Printed/Typed Name		Signature					Month Day	y Year	
TRANSPORTER	17	Printed/Typed Name		Signature	ffran	ia	2		Month Day	y Year	
PORTE	18	Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	laterials	Signature			÷ .	•	Month Day	y Year	
	19	Discrepancy Indication Space		<u></u>							
FACIL	20	Facility Owner or Operator: Certification of recei	ot of waste materials covere	ed by this manifes	t except as noted in It	em. 19.				<u></u>	
TY		Printed/Typed Name /	Sun	Signature L	g Se	)	- 0	-	Month Da	y Year	
	l	TElly KONE	<u>~</u>	1 F	VYYYYY 1	e	سيدر		1/:01~	1 1 4 5	

	buildance berv	· ***	10040
	P. O. Box 1737 ★ Eunice, Ne (505) 394-2511		71
			$=$ $\mathcal{U}_{t-z}$
LEASE OPERATOR/SHI	PPER/COMPANY:	mo Enve	tomenta!
LEASE NAME:	tho SWD		i
TRANSPORTER COMPA	INY: M+5	hapenal TIME	AM/PM
DATE: 10/21/03 V	EHICLE NO.: # 7	DRIVER NO.:	•
CHARGE TO:	lianned Eur	h	
	TYPE OF MAT	ERIAL	
[ ] Production Water	[ ] Drilling Fluids	[ ] Complet	ion Fluids
[-] Tank Bottoms	[ ] Contaminated Soil	[ ] C-117 N	o.:
[ ] Other Material:	[ ] BS&W Content:	<del></del>	
Description:	alix !	-Tela	1
	<del> </del>		
VOLUME OF MATERIAL	.[]BBLS. /30:	[]YARD	: []
VOLUME OF MALERIAL	[ [ ] BBEG:	[ ] IAND	·
JOB TICKET, OPERATOR/SHIPF MATERIAL EXEMPT FROM TH TO TIME, 40 U.S.C. § 6901, et se THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPL GEOTHERMAL ENERGY.  ALSO AS A CONDITION JOB TICKET, TRANSPORTER R OPERATOR/SHIPPER TO TRAN	NDANCE SERVICES, INC.'S ACCEPTAPER REPRESENTS AND WARRANTS TO E RESOURCE, CONSERVATION AND Q., THE NM HEALTH AND SAF. CODING EXEMPTION AFFORDED DRILLING ORATION, DEVELOPMENT OR PRODUCT OF SUNDANCE SERVICES, INC.'S ACEPRESENTS AND WARRANTS THAT SPORTER IS NOW DELIVERED BY TO	THAT THE WASTE MATERIAL RECOVERY ACT OF 1976, AS A E § 361.001 et seq., AND REGUI FLUIDS, PRODUCED WATERS DUCTION OF CRUDE OIL OR NOTE OF THE MATERIA ONLY THE MATERIAL DELIV	SHIPPED HEREWITH IS AMENDED FROM TIME ATIONS RELATED AND OTHER WASTE ATURAL GAS OR  LS SHIPPED WITH THIS ERED BY
Transporter Statement at i	Y that the above Transporter look the above described location, and that no additional materials we dent.	nd that it was tendered by	the above described
(SIGNATURE) FACILITY REPRESENTATIVE:	KiElly Coac (SIGNATURE)	Gold Transaction	
White - Sundance Canary - Sund Revised 12/27/95	ance Acct #1 Pink - Sundance Acct #2	Gold - Transporter	Superior Printing Service, In

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	-	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	EPA ID No. /A	Manifest Doc. No.	2. Page 1 of						
1	i	Generator's Name and Mailing Address	1220 South St	Dil Conservation Di	ivision	WE	Araho Disposal Facility WE/4, SE/4, Sec 1, T17S, R31E					
1	4.	505 476-3488 Generator's Phone (	Santa Fe, Nev	v Mexico 87505		Lea County, NM						
	5.	Transporter 1 Company Name	MJS	6. US EPA ID	Number	A. Trans	porter's P	hone	-			
1	ļ_	- Chaparral Services, Inc. Transporter 2 Company Name		8. US EPA ID	N/A · · ·	B. Trans	nortor's E	Shope 5	05-397-3044			
	, ·	Transporter 2 Company Name				D. Hans	porter s r	TOTIC				
	9.	Designated Facility Name and Site Address		10. US EPA ID	Number	C. Facilit	y's Phone	)				
		Sundance Services 2 miles East on Hwy 18										
	-	Lea County		<u> </u>	. N/A	l	12. Conta		05-394-2511 13.	14.		
$\  \ $	13	. Waste Shipping Name and Description					No.	Туре	Total Quantity	Unit Wt/Vol		
	a.	Produced Hall	TANK	Battoms			1	JANA	130	BBI		
GE	b.											
GWZWR										. :		
	C.	:				:						
A T O R							:					
Ιï	d.			•								
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	10	Additional Descriptions for Materials Listed Abo		· · · · · · · · · · · · · · · · · · ·		E Hondii	na Codos	for Most	on Listed Above			
	D.	Additional Descriptions for Materials Listed Abo	ve			E. Handli	ng Codes		es Listed Above	· ·		
	D.	Additional Descriptions for Materials Listed Abo Non Hazardous	ve	٤		E. Handli	ng Codes		es Listed Above			
		Non Hazardous		ż		E. Handli	ng Codes			•		
				ż		E. Handli	ng Codes					
		Non Hazardous	ormation	M 88231		E. Handli	ng Codes					
		Non Hazardous  5. Special Handling Instructions and Additional Inf	ormation	M 88231		E. Handli	ng Codes					
		Non Hazardous  5. Special Handling Instructions and Additional Inf	ormation	м 88231		E. Handli	ng Codes					
	15	Non Hazardous  5. Special Handling Instructions and Additional Inf	ormation 1769, Eunice, NI		subject to federal regula			N	N/A	aste.		
**************************************	15	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1	ormation 1769, Eunice, NI		subject to federal regula			N	N/A	Year		
<b>→</b>	15	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1	ormation 1769, Eunice, NA	ove on this manifest are not	subject to federal regula			N	I/A			
→ - RA2	15	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer I  5. GENERATOR'S CERTIFICATION: I certify the  Printed/Typed Name  Transporter Acknowledgement of Receipt of I  Printed/Typed Name	ormation 1769, Eunice, NA	ove on this manifest are not	subject to federal regula			N	al of Hazardous W.  Month Day  Month Day	Year		
<b>→</b> -R42%PC	15	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1  5. GENERATOR'S CERTIFICATION: I certify the  Printed/Typed Name  Transporter Acknowledgement of Receipt of No. 1	ormation 1769, Eumice, NI materials described abo	ove on this manifest are not Signature	subject to federal regula			N	al of Hazardous Windows Worth Day	Year		
→ TRANSPORT	15	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer I  5. GENERATOR'S CERTIFICATION: I certify the  Printed/Typed Name  Transporter Acknowledgement of Receipt of I  Printed/Typed Name	ormation 1769, Eumice, NI materials described abo	ove on this manifest are not Signature	subject to federal regula			N	al of Hazardous W.  Month Day  Month Day	Year Year Year Year		
→ TRANSPORTER	16	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1  6. GENERATOR'S CERTIFICATION: I certify the  Printed/Typed Name  Transporter Acknowledgement of Receipt of No. 1  Printed/Typed Name  Transporter 2 Acknowledgement of Receipt of No. 1  Printed/Typed Name	ormation 1769, Eumice, NI materials described abo	Signature Signature	subject to federal regula		orting prop	N	al of Hazardous W.  Month Day  Month Day  Month Day	Year Year Year Year		
▼ TRANSPORTER	16	Non Hazardous  S. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1  B. GENERATOR'S CERTIFICATION: I certify the Printed/Typed Name  Transporter Acknowledgement of Receipt of Name  Transporter 2 Acknowledgement of Receipt of Name	ormation 1769, Eumice, NI materials described abo	Signature Signature	subject to federal regula		orting prop	N	al of Hazardous W.  Month Day  Month Day  Month Day	Year Year Year Year		
	15	Non Hazardous  5. Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1  6. GENERATOR'S CERTIFICATION: I certify the  Printed/Typed Name  Transporter Acknowledgement of Receipt of No. 1  Printed/Typed Name  Transporter 2 Acknowledgement of Receipt of No. 1  Printed/Typed Name	ormation 1769, Eumice, NI materials described abo	Signature Signature	subject to federal regula		orting prop	N	al of Hazardous W.  Month Day  Month Day  Month Day	Year Year Year Year		
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FACIL	15	Non Hazardous  Special Handling Instructions and Additional Inf  #5 Address: PO Drawer 1  #5 Address: PO Drawer 1  #5 Address: PO Drawer 1  #5 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Address: PO Drawer 1  #6 Add	ormation 1769, Eunice, Ni materials described about	Signature  Signature  Signature	l Bans	utions for rep	orting prop	N	al of Hazardous W.  Month Day  Month Day  Month Day	Year Year Year Year		

e\. *	Sundance Servic	es, Inc. No	69957
	P. O. Box 1737 * Eunice, New M	exico 88231	40684
	(505) 394-2511	82	40009
LEASE OPERATOR/SHIPP	ER/COMPANY:	· .	
LEASE NAME: FICA A	disposal -		
TRANSPORTER COMPAN	Y: 11/3	TIME	AM/PM
DATE: 12/16/02 VEH	IICLE NO.#	DRIVER NO.:	
CHARGE TO:	nowall soft		
	TYPE OF MATER	RIAL	
[ ] Production Water	[ ] Drilling Fluids	[ ] Completion	on Fluids
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] C-117 No.	
[ ] Other Material:	[ ] BS&W Content:		•
Description: 1/0///	PASEWALER		
VOLUME OF MATERIAL P	ካ BBLS. <u>/</u> ያህ : : : :	[ ] YARD:	
JOB TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THE R TO TIME, 40 U.S.C. § 6901, et seq., THERETO, BY VIRTUE OF THE EX ASSOCIATED WITH THE EXPLOR. GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOURCE TO SOUR	ANCE SERVICES, INC.'S ACCEPTANC REPRESENTS AND WARRANTS THA ESOURCE, CONSERVATION AND REC THE NM HEALTH AND SAF. CODE § EMPTION AFFORDED DRILLING FLU ATION, DEVELOPMENT OR PRODUC SUNDANCE SERVICES, INC.'S ACCEPT RESENTS AND WARRANTS THAT ON DRITER IS NOW DELIVERED BY TRAN	T THE WASTE MATERIAL S COVERY ACT OF 1976, AS A 361.001 et seq., AND REGULA JIDS, PRODUCED WATERS, TION OF CRUDE OIL OR NA TANCE OF THE MATERIAL LY THE MATERIAL DELIVE	HIPPED HEREWITH IS MENDED FROM TIME ATIONS RELATED AND OTHER WASTE ATURAL GAS OR  LS SHIPPED WITH THIS RED BY
Transporter Statement at the shipper. This will certify that was delivered without incident	hat the above Transporter loade above described location, and t t no additional materials were d nt.	that it was tendered by	the above described
FACILITY REPRESENTATIVE:	(SIGNATURE)		
White - Sundance Canary - Sundance Revised 12/27/95	Acet #1 Pink - Sundance Acet #2	Gold - Transporter	Superior Printing Service, Inc.

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2.1												
	WASTE MANIFEST	1. Generator's L			Manifest Doc. No.	2. Page of	1					
	•	New Mexic 1220 South Santa Fe, N	St. Francis	Drive	rision		V	VE/4, S		sposal Facility /4,Sec 1,T17S,R31		
	4. Generator's Phone ( )	Januare, N							Titly, 14141			
	5. Transporter 1 Company Name 3488		6. ·	US EPA ID N	lumber	A. Tran	sporter's l	Phone				
	7. Transporter 2 Company Name			US EPA ID N	lumber	B. Trans	sporter's	Phone	<del>-505-397-30</del>	44		
	Designated Facility Name and Site Address		10.	US EPA ID N	umber	C. Facili	ity's Phon	e		<u> </u>		
Ì	Sundance Services 2 miles East on Hwy 18		1		· N/A· · ·				505-394-25			
ı	Lea County 11. Waste Shipping Name and Description				N/A		12. Con	tainers	13.	14.		
1	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						No.	Туре	Total Quantity	Unit Wt/Vol		
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G	b.	· • • • • • • • • • • • • • • • • • • •		**************************************								
NE						. 1	· (			.		
GENERATOR	<b>c.</b> .			2								
R		·					• •	<u> </u>		-		
ı	d.			•								
										.   '		
	D. Additional Descriptions for Materials Listed Above					E. Hand	lling Code	s for Wa	stes Listed Abo	/8		
	Non Hazardous			3					N/A	•		
	15. Special Handling Instructions and Additional Inform	nation										
	#5 Address: PO Drawer 1	769, Eunice,	NM 88231				·.					
	16. GENERATOR'S CERTIFICATION: I certify the ma	terials described a	bove on this ma	nifest are not su	biect to federal regula	tions for re	porting pro	per dispo	sal of Hazardous	Waste.		
V	Parties yper Name			nature				·		Day Year		
Ţ	17. Transporter 1 Acknowledgement of Receipt of Mat	terials										
TRAZOPORTER	Printed Typed Name  Jewa Hanna 4		Sig	nature	Hower					Day Year		
PO	18. Transporter 2 Acknowledgement of Receipt of Mar	terials	- 0									
TE	Printed/Typed Name		Sig	nature			:		Month L	Day Year		
	19. Discrepancy Indication Space			· · · · · · · · · · · · · · · · · · ·					<del></del>			
FACI										.•		
LIT	20. Facility Owner or Operator: Certification of receipt	of waste materia	als covered by	this manifest e	except as noted in It	em 19.						
Y	Printed/Typed t)ame ,		Sig	nature)	$\sim$	Λ			Month	Day Year		
	KEIL ROACH			Kell	La Kera-	سألمد	_		11.011	7103		

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	Sundance Servi	ces, Inc., 12	69971
· · · · · · · · · · · · · · · · · · ·	P. O. Box 1737 ★ Eunice, New		
<u> </u>	(505) 394-2511		· 4)
LEASE OPERATOR/SHIPP	PER/COMPANY:	ing Environ	ental
LEASE NAME: HIA	to sul,		
TRANSPORTER COMPAN	Y: 145 (Cha	panel) TIME	AM/PM
DATE: 6/17/03 VE	HICLE NO.:	DŘÍVER NO.:	
CHARGE TO: Dea	mond Back sul		
	TYPE OF MATI	ERIAL	
[ ] Production Water	[ ] Drilling Fluids	[ ] Completion	n Fluids
► Tank Bottoms	[ ] Contaminated Soil	[ ] C-117 No.:	
[ ] Other Material:	[ ] BS&W Content:		·
Description:	ids		:
VOLUME OF MATERIAL	[]BBLS. /30 :	[]YARD:	[]
JOB TICKET, OPERATOR/SHIPPER MATERIAL EXEMPT FROM THE ITO TIME, 40 U.S.C. § 6901, et seq., THERETO, BY VIRTUE OF THE EXASSOCIATED WITH THE EXPLORED GEOTHERMAL ENERGY.  ALSO AS A CONDITION TO JOB TICKET, TRANSPORTER REP	ANCE SERVICES, INC.'S ACCEPTA'S REPRESENTS AND WARRANTS TO RESOURCE, CONSERVATION AND FOR THE NM HEALTH AND SAF. CODE XEMPTION AFFORDED DRILLING TO RATION, DEVELOPMENT OR PRODUCTION OF THE SERVICES, INC.'S ACCEPTES AND WARRANTS THAT CORTER IS NOW DELIVERED BY THE	HAT THE WASTE MATERIAL SH RECOVERY ACT OF 1976, AS AM S § 361.001 et seq., AND REGULA' FLUIDS, PRODUCED WATERS, A UCTION OF CRUDE OIL OR NA' CEPTANCE OF THE MATERIAL ONLY THE MATERIAL DELIVER	HIPPED HEREWITH IS MENDED FROM TIME TIONS RELATED AND OTHER WASTE TURAL GAS OR S SHIPPED WITH THIS RED BY
Transporter Statement at the	that the above Transporter load above described location, and to additional materials werent.	nd that it was tendered by t	he above described
White - Sundance Canary - Sundance	te Acct #1 Pink - Sundance Acct #2	Gold - Transporter	

		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US N/A		Manifest Doc. No	2. Page 1					
<b>^</b>		Generator's Name and Mailing Address  Generator's Phone 5 476-3488	New Mexico Oil 1220 South St. I Santa Fe, New I	Francis Drive	ivision	WE/4	, SE/4,S		osal Facility 17S,R31E , NM		
		Transporter 1 Company Name Chaparral Services, Inc.			A ID Number N/A	A. Trans		•	5-397-3044	· ·	
		Transporter 2 Company Name		<u> </u>	\ ID Number	B. Trans					
		Sundance Services		<u> </u>	· · · · · · · · · · · · · · · · · · ·				· .		
	<b>у.</b>	Designated Facility Name and Site Address Tea County		10. US EP/	AID Nymper	C. Facility	•		5-394-2511		
	11.	. Waste Shipping Name and Description				,	12. Conta	ainers Type	13. Total Quantity	14. Unit Wt/Vol	
	a.	TANK Bottoms/	Product	d Hel	-)		<u> </u>	Tout	130	88/	
GEZER	b. :	·			- <del> </del>			·			
A T O R	C.										
	d.									ŧ	
		Additional Descriptions for Materials Listed About Non Hazardous						N/	tes Listed Abov		
	15.	Special Handling Instructions and Additional In	N.	88231							
	16	. GENERATOR'S CERTIFICATION: I certify the	materials described abo	ove on this manifest are	not subject to federal regu	lations for rep	orting prop	er dispos	al of Hazardous \	Naste.	
		Physical/Typed Name		Signature						ay Year	
T R	17	Transporter Acknowledgement of Receipt of Princed Typed Name	Materials	Signature					Month D	ay Year	
(ZS)P	<u> </u>	Sizrigio Garcia		Signature	XIII BA	W_			10 1	6 03	
TRANSPORTER	18	Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials .	Signature	<u> </u>				Month D	ay Year	
	19	. Discrepancy Indication Space					* ***		· · · · · · · · · · · · · · · · · · ·	-	
FACI									•	÷	
44-6-	20	. Facility Owner or Operator: Certification of rec	eipt of waste materials	s covered by this man	ifest except as noted in	Item 19.					
Y		Printed/Typed (lame)		Signature	4/4	D. Art of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control	Photograph <b>2 3</b> 64 Feb.	1130 S. 1	Month L	bay Year	
			ORIGINAL	- RETURN TO	GENERATOR			227	:135, (6/- 17/-		

#### Sundance Services, Inc. P. O. Box 1737 ★ Eunice, New Mexico 88231 (505) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: TIME AM/PM **DRIVER NO.: CHARGE TO:** TYPE OF MATERIAL [ ] Production Water [ ] Drilling Fluids [ ] Completion Fluids [ ] Contaminated Soil Tank Bottoms [ ] C-117 No.: \_ [ ] Other Material: [ ] BS&W Content: **Description: VOLUME OF MATERIAL** [ ] BBLS. [ ] YARD AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

DRIVER:

White - Sundance Revised 12/27/95 (SIGNATURE)

Canary - Sundance Acct #1

**FACILITY REPRESENTATIVE:** 

NON-HAZARDOUS WASTE MANIFEST	1. Genera	ator's US EPA ID No.	Manifest Doc. No.	2. Pag	e 1			•
3. Generator's Name and Mailing Address		N/A	1.00.	$\vdash$				
4. Generator's Phone (		xico Oil Conservation Di uth St. Francis Drive	vision	WE			posal Facility F17S,R31E	
4. Generator's Phone ( )	Santa Fa	e, New Mexico 87505		-	nsporter's i	Coun	ty, NM	
5. Transporter 1 Company Name - 3488		J, TON 6. THE TOS EPA II	Number	A. Trai	nsporter's l		05-397-3044	
7. Transporter 2 Company Name Service		8. US EPA II	Number	B. Trai	nsporter's	Phone	∩7≈33 \=304€	
Designated Facility Name and Site Add	iress ·	10. · US EPA II	) Number	C. Fac	ility's Phon	е		
Sundance Services  2 miles East on Hw	nz 19	1	N/A			` <u>\$</u>	05-394-2511	*
11. Waste Shipping Name and Description	y 10	-			12. Con		13. Total	14. Unit
The Canality					No.	Туре	Quantity	Wt/Vol
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D. Additional Descriptions for Materials Lis	sted Above			E. Han	dlina Code	s for Was	stes Listed Above	ــــــــــــــــــــــــــــــــــــــ
Non Hazardous  15. Special Handling Instructions and Addit	tional Information	<u>.</u>		<u>.</u>	4.T		N/A	
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#5 Address: PO D	rawer 1769, Eur	nice, NM 88231	:	. f.				
16. GENERATOR'S CERTIFICATION: 1 ce	ertify the materials desc		subject to federal regula	ations for r	eporting pro	per dispos	sal of Hazardous W	aste.
Printed/Typed Name		Signature				,	Month Da	y Year <b>S</b> b. 3
17. Transporter 1 Acknowledgement of Red	ceipt of Materials							
A Priored Pyped Name  R S P S G ARC I A		Signature					Month Da	y Year
0 18. Transporter 2 Acknowledgement of Rec	ceipt of Materials		TX					
T 17. Transporter 1 Acknowledgement of Red PrintedPyped Name  18. Transporter 2 Acknowledgement of Red Printed/Typed Name	:	Signature	11/4/61	11100	!		Month Da	y Year
19. Discrepancy Indication Space		- Ju	<u> </u>	110	:		1/0 1/6	,  0
A C				٠				••
20. Facility Owner or Operator: Certification	n of receipt of waste i	materials covered by this manife	st except as noted in I	tem 19.				•
Printed/Typed Name AcA AM	25	Signature	h				Month Da	by Yea
		INAL – RETURN TO C	ENERATOR				3123 : 6-11:5	

	Sundance Service P. O. Box 1737 * Eunice, New M		69966
	(505) 394-2511		7
LEASE OPERATOR/SHI	PPER/COMPANY:		
EASE NAME:			
TRANSPORTER COMPA	711	TIME	AM/PN
DATE: 10/16/0 3 V	EHICLE NO.	DRIVER NO.:	
CHARGE TO:	In all Red		
	TYPE OF MATER	RIAL	
] Production Water	[ ] Drilling Fluids	[ ] Completio	n Fluids
] Tank Bottoms	[ ] Contaminated Soil	[ ] C-117 No.:	
] Other Material:	[ ] BS&W Content:	• •	
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OPERATOR/SHIPPER TO TRAN FACILITY FOR DISPOSAL.	SPORTER IS NOW DELIVERED BY TRAN	SPORTER TO SUNDANCE S	ERVICES, INC.'S
Transporter Statement at i	I that the above Transporter loaded he above described location, and t hat no additional materials were a dent.	hat it was tendered by t	he above describ
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FACILITY REPRESENTATIVE:	(SIGNATURE)	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
White - Sundance Canary - Sund Revised 12/27/95	ance Acct #1 Pink - Sundance Acct #2 C	iold - Transporter	Superior Printing Service,

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US		Manifest Doc. No.	2. Pag of	e 1					
<b>▲</b> 3.	. Generator's Name and Mailing Address	N/A	ゼ			· · · · · ·					
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Ш.	1.44		Conservation Divis	ion -	W/E/			178,R311		ēr.	
		220 South St. F								·	
5	. Transporter 1 Company Name 3488	oania re, ivew iv	exico 87505 EPA ID I	Number -	A. Tran	nsporter's f	hone	7, 14141	in in Id	>	
$\parallel$	Chanarral Services Inc		· · · · · · · · · · · · · · · · · · ·	√/A · · · ·		<u> </u>	50	5-397-30	44		
	Transporter 2 Company Name ervices, Inc.	· · · · · · · · · · · · · · · · · · ·	8. US EPA ID	Númber	B. Tran	nsporter's	Phone				
9	. Designated Facility Name and Site Address		10. US EPA ID	Number	C. Fac	ility's Phon	е				
1					1						
	Sundance Services										
$\perp$	2 miles East on Hwy 18			N/A:			5(	15-394-25			
1	1. Waste Shipping Name and Description					12. Con	tainers		13. 14. Total Unit		
11						No.	Туре	Quant	ty	Wt/Vol	
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	Additional Descriptions for Materials Listed Above				E Han	dling Code	s for Wa	stes Listed /	hove	1	
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	Non Hazardous			····	<u> </u>	- <del></del>	N	/A	_		
	5. Special Handling Instructions and Additional Info	ormation		•							
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	# J Addiess. 1 O Lidwel 1/	Constitution and a	screenstal &								
1	C OFNEDATORIO OFDETTION			<u> </u>							
11	6. GENERATOR'S CERTIFICATION: I certify the m	naterials described abo		ubject to federal regula	ations for r	eporting pro	per dispo	•			
J	Printed Typed Name		Signature					- Month	Day	Year	
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产	8. Transporter 2 Acknowledgement of Receipt of N	fateriale		<u> </u>				r O	<u>مما بو</u>		
ŘΗ	8. Transporter 2 Acknowledgement of Receipt of N Printed/Typed Name	taterials	Signature		· · · · · · · · · · · · · · · · · · ·			Month	Dav	Year	
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	9. Discrepancy Indication Space		<u> </u>								
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1   "	20. Facility Owner or Operator: Certification of recei	pt of waste materials	covered by this manifest	except as noted in It	em 19.						
₹  -	Printed/Typed Name		Cianatura	1 1	<del>7 —</del>			144	Dar	, Vaa-	
	Printed/Typed Name		Signature					Month ( O		1	
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**ORIGINAL - RETURN TO GENERATOR** 

The second second	Sundance Service	res Inc	RIO	60064
	P. O. Box 1737 * Eunice, New 1	•	Ma	69961
	(505) 394-2511	NORICO GODO I		26
LEASE OPERATOR/SHIP	PER/COMPANY:	<u> </u>		
LEASE NAME:	La Disposal		. *	
TRANSPORTER COMPAI	VY: Onnowal		TIME	AM/PM
DATE: 10/16/03 VE	HICLE NO!: 11 nd	DRIVER	NO.:	,
CHARGE TO:	I MONT Park			
	TYPE OF MATE	RIAL		
[ ] Production Water	[ ] Drilling Fluids	[]	Completion	n Fluids
[ ] Tank Bottoms	[ ] Contaminated Soil	[]	C-117 No.:	
[ ] Other Material:	[ ] BS&W Content:			•
Description:	15			:
, ,	•			· · · · · · · · · · · · · · · · · · ·
VOLUME OF MATERIAL	1 BBLS. /3/) :	[ ] YARD	:	[]
JOB TICKET, OPERATOR/SHIPPE MATERIAL EXEMPT FROM THE TO TIME, 40 U.S.C. § 6901, et seq. THERETO, BY VIRTUE OF THE F	DANCE SERVICES, INC.'S ACCEPTANCE REPRESENTS AND WARRANTS THE RESOURCE, CONSERVATION AND RE, THE NM HEALTH AND SAF. CODE § EXEMPTION AFFORDED DRILLING FLE RATION, DEVELOPMENT OR PRODUCTION.	AT THE WASTE MAT COVERY ACT OF 19 361.001 et seq., AND JUIDS, PRODUCED	FERIAL SH 976, AS AM PREGULAT WATERS, A	IPPED HEREWITH IS IENDED FROM TIME ITONS RELATED AND OTHER WASTE
JOB TICKET, TRANSPORTER RE	O SUNDANCE SERVICES, INC.'S ACCE PRESENTS AND WARRANTS THAT ON PORTER IS NOW DELIVERED BY TRA	ILY THE MATERIAL	DELIVER	ED BY
Transporter Statement at th	that the above Transporter load te above described location, and at no additional materials were lent.	that it was tende	ered by th	he above described
FACILITY REPRESENTATIVE:	(SIGNATURE)		•	· · · · · · · · · · · · · · · · · · ·
White - Sundance Canary - Sundan Revised 12/27/95	•	Gold - Transporter	s	uperior Printing Service, Inc.

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		NON-HAZARDOUS WASTE MANIFEST	Generator's US EF     N/A		Manifest Doc. No	2. Page of	1					
$\overline{\Lambda}$	3.	Generator's Name and Mailing Address	] 19/21		<u> </u>							
		N 12	ew Mexico Oil Co 220 South St. Fran anta Fe, New Mexi	cis Drive 🕠	on	WE/4,	Araho SE/4,Sec Lea Co	: 1,T17		· · · · · · · · · · · · · · · · · · ·		
		Transporter 1 Company Name	6.	US EPA I	) Number	A Tran		orter's Phone				
	"	Chaparral Services, Inc.	. i			7	oponor o r r		-397-3044			
	7	Transporter 2 Company Name	L	US EPA IC	·	B Tran	sporter's P					
			<u> </u>		· · · ·					•		
	9.	Designated Facility Name and Site Address	10.	US EPA I	Number	C. Facil	lity's Phone					
		Sundance Services 2 miles East on Hwy 18			N/A			505	-394-2511			
	11.	Waste Shipping Name and Description					12. Conta		13. Total Quantity	14. Unit		
	a.	Taull BoH	m				No.	Type Tuu)	130	BB2		
GENERATOR	b.			a September 1997								
A	C-	<i>(</i>					:			1.77		
O R				:	1	-						
	d.	:· ·			,	- A	**************************************					
	D.	Additional Descriptions for Materials Listed Abor				E. Hand	dina Codes	for Was	tes Listed Abov	ve :		
	-			4			· .	101 1140		å		
		Non Hazardous			· .	:		N/A	<b>A</b>			
	·15.	Special Handling Instructions and Additional Info	ormation			·						
		#5 Address: PO Drawer 176	59, Eunice, NM 882	231								
Ш	16	CENEDATODIS CEDTIFICATION							-1 -611	· · · · · · · · · · · · · · · · · · ·		
Ш	16.	GENERATOR'S CERTIFICATION: I certify the Printed/Typed Name	materials described above		subject to federal regu	lations for re	eporting prop	er aispos				
<b>₩</b>		Finited Typed Name		Signature	_				Month L	Day Year 		
Ţ	17.	Transporter 1 Acknowledgement of Receipt of M	Materials	$\sim$	7 >							
		Transporter Tyterere meagement of Troodipt of the										
KAN	<u>_</u>	Printed/Typed Name		Signatur	nul desar	D			Month L	Day Year		
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E AZMOORTHIC	18.	Printed/Typed Name  Printed/Typed Name  Transporter 2 Acknowledgement of Receipt of N  Printed/Typed Name	<b>N</b> aterials	Signature	rul <u>(Sa</u>	D	:	· · · · · ·	VO K	_ 1 _		
HEAZ HORFER	-	Printed/Typed Name  Printed/Typed Name  An Cha  Transporter 2 Acknowledgement of Receipt of Name	Materials		ruldza		2		VO K	7/ B3		
F	19.	Printed/Typed Name  Transporter 2 Acknowledgement of Receipt of M  Printed/Typed Name	Aaterials ়		ruldza		· · · · · · · · · · · · · · · · · · ·		VO K	7/ B3		
	19.	Printed/Typed Name  Transporter 2 Acknowledgement of Receipt of M  Printed/Typed Name		Signature	at except as noted in	Item 19.			VO K	7/ B3		

#### Sundance Services, Inc. P. O. Box 1737 ★ Eunice, New Mexico 88231 (505) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: TIME AM/PM DRIVER NO.: **CHARGE TO:** TYPE OF MATERIAL [ ] Production Water [ ] Drilling Fluids [ ] Completion Fluids [\_]∕Tank Bottoms [ ] Contaminated Soil [ ] Other Material: ] BS&W Content: **Description: VOLUME OF MATERIAL [] BBLS.** [ ] YARD [ ] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **FACILITY REPRESENTATIVE:** (SIGNATURE)

Pink - Sundance Acct #2

A CONTRACTOR

Gold - Transporter

Superior Printing Service, Inc.

White - Sundance

Revised 12/27/95

Canary - Sundance Acct #1

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ام	· .: '	NON-HAZARDOUS WASTE MANIFEST	Generator's US EP		Manifest Doc No.	2. Pag	91			•
$\exists$	2	Generator's Name and Mailing Address	N/A	e e de e	1	-		<del></del>	·	
		Generator's Phone ( 505 476-3488	New Mexico Oil 1220 South St. F Santa Fe, New M	rancis Drive	vision	w	E/4, SE/	4,Sec 1	isposal Facil ,T17S,R31E nty, NM	
П		Transporter 1 Company Name	6.	US EPA ID	Number	A. Tran	nsporter's l			
$\  \ $		Chaparral Services, Inc.	.	·	· N/A · · ·		•		505-397-304	14
	7.	Transporter 2 Company Name	8.	US EPA ID	Number	B. Tran	nsporter's	Phone		
	9.	Designated Facility Name and Site Address	10.	US EPA ID	Number	C. Fac	lity's Phon	е		,
		Sundance Services 2 miles East on Hwy 18	<u> </u>	· · · · · · ·	. N/A				505-394-251	11
	11.	Waste Shipping Name and the scription		٠.			12. Con		13. Total	14. Unit
11		· · · · · · · · · · · · · · · · · · ·					No.	Туре	Quantity	Wt/Vol
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		•						. ,		
		Non Hazardous							N/A	
	15.	Special Handling Instructions and Additional Info	rmation			<u> </u>				<u> </u>
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		#5 Address: PO Drawer	769 Eunice NM	88231					S. 4.	
1	<u> </u>			<del></del>		· · · · · · · · · · · · · · · · · · ·				
l	16.	GENERATOR'S CERTIFICATION: I certify the m Printed/Typed Name	aterials described above of	Signature	subject to federal regula	itions for r	eporting pro	per dispos		Waste. Pay Year
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Ţ	17.	Transporter 1 Acknowledgement of Receipt of M	aterials	1					<u> </u>	
TRANSPORTER	5	Printed/Typed Name	-,	Signature	Val.	1	. ,		Menth D	ay, Year
Ŝ	ota	Horakam Navar	restr	1370)	b\Clipati	W		ack		1 193
R	18.	Transporter 2 Acknowledgement of Receipt of M	aterials		<u>.</u>					
Ë		Printed/Typed Name		Signature	:				Month D	ay Year
	19.	Discrepancy Indication Space							<u></u>	
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ACILI	20.	Facility Owner or Operator: Certification of receip			except as noted in It	em 19.		, <u>, , , , , , , , , , , , , , , , , , </u>		
A C	20.			vered by this manifest	except as noted in It	em 19.	A		Month	Day V
ACILI	20.	Facility Owner or Operator: Certification of receip			except as noted in It	em 19.	لم		Month E	Day Year

ORIGINAL – RETURN TO GENERATOR

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	Sundance Servic  P. O. Box 1737 ★ Eunice, New M  (505) 394-2511	*****	70045 8
LEASE OPERATOR/SHIP	PPER/COMPANY: Ahr	o Enveronata	7
LEASE NAME: ///	tho soul		
TRANSPORTER COMPA	NY: Pate	TIME	AM/PM
DATE: 10/21/03 V	EHICLE NO.: ± 59	DRIVER NO.:	
CHARGE TO:	hammal Back		
;	TYPE OF MATE	RIAL	
[ ] Production Water [-1-Tank Bottoms [ ] Other Material:	[ ] Drilling Fluids [ ] Contaminated Soil [ ] BS&W Content:	[ ] Completion Flu [ ] C-117 No.:	ids
Description:	lid	Telow	
JOB TICKET, OPERATOR/SHIPP MATERIAL EXEMPT FROM THI TO TIME, 40 U.S.C. § 6901, et see THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPLORED THE EXPLORED ALSO AS A CONDITION TO JOB TICKET, TRANSPORTER ROPERATOR/SHIPPER TO TRANSFACILITY FOR DISPOSAL.  THIS WILL CERTIFY	DANCE SERVICES, INC.'S ACCEPTANCER REPRESENTS AND WARRANTS THAT THE RESOURCE, CONSERVATION AND REGION THE NM HEALTH AND SAF. CODE SEXEMPTION AFFORDED DRILLING FLUCK ORATION, DEVELOPMENT OR PRODUCTOR SUNDANCE SERVICES, INC.'S ACCES EPRESENTS AND WARRANTS THAT ON SPORTER IS NOW DELIVERED BY TRAIN THAT THE CONSERVATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY	IT THE WASTE MATERIAL SHIPPE COVERY ACT OF 1976, AS AMEND 361.001 et seq., AND REGULATION UIDS, PRODUCED WATERS, AND TION OF CRUDE OIL OR NATURAL PTANCE OF THE MATERIALS SHILY THE MATERIAL DELIVERED ENSPORTER TO SUNDANCE SERVING the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented by the material represented	WITH THIS D HEREWITH IS DED FROM TIME S RELATED OTHER WASTE AL GAS OR PPED WITH THIS BY CES, INC.'S
	Selly Koad (SIGNATURE)	Gold - Transporter	

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		NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA II	O No.	Manifest Doc. No.	2. Page of	1				
Å	3.	Generator's Name and Mailing Address	N/A			4					٠,
	L	Generator's Phone ( )	New Mexico Oil Con 1220 South St. Franc	is Drive			/4, SE/4,	Sec 1,7	posal Faci 178,R311		
	5.	Transporter 1 Company Name-3488	Santa Fe, New Mexic	20 8/99/2PA ID	Number	A. Tran	sporter \$7	Houghing	y, NM	4 · 4	
	7.	Transporter 2 Company Name Services, Inc.	8.	US EPA ID	Number	B. Tran	sporter's F	hone 50	<del>)5-397-30</del>	44	
	9.	Designated Facility Name and Site Address	10.	US EPA ID	Number	C. Faci	lity's Phone	1		24	
		Sundance Services	1			1		٠.			•
	11	2 miles East on Hwy 18 Waste Shipping Name and Description			N/A	-	12. Cont	ainers	)5-394-25  3.	11	14.
		rea County					No.	Туре	Total Quantity	,	Unit Wt/Vol
	a.	Hydro carbon	impacted	Soc	Q	- 1	1	Faur BOD	130	)	BEL
GEZER	b.	<b>y</b>								,	
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ATOR:	C.	<u>(</u>								•	
	d.	41	,			,	· · · · · · · · · · · · · · · · · · ·	:	·.		
П	D.	Additional Descriptions for Materials Listed Abor				E. Hand	l dina Codes	for Was	tes Listed Al	oove .	
				ż							
Ш	15	Non Hazardous  Special Handling Instructions and Additional Infe	ormation	·		L		·	I/A		·
Ш		·			5				,	-	
Ш											
Ш				•							•
		#5 Address: PO Drawer 1	769, Eunice, NM 8823	i ,	<del>.</del>				•		
	16	. GENERATOR'S CERTIFICATION: I certify the	materials described above on th	nis manifest are not s	subject to federal regula	tions for r	eporting prop	er dispos	al of Hazardo	us Was	te.
¥		Printed/Typed Name		Signature			<del></del>		Month	Day	Year
Ě	17	. Transporter 1 Acknowledgement of Receipt of M Printer Typed Name	Materials	Signatura					14-mth	0	
Ñ		Bend Cerraniles	•	Signature					Month	Day Zi	Year D · Z
P	.18	. Transporter 2 Acknowledgement of Receipt of N	Materials	01		<u> </u>					
TRANSPORTER		Printed/Typed Name		Signature					Month	Day	Year
ĺ	19	. Discrepancy Indication Space									
FACILITY			<u>\$</u> 52.								44
Ļ	20	. Facility Owner or Operator: Certification of recei		-	except as noted in It	em 19.		-			
Ý	-	Printed/Typed Name	ane to	Signature C	//				Month	Day	Year
		Februar Files	·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7		-	10	121	103
1			-								

### Sundance Services, Inc. P. O. Box 1737 \* Eunice, New Mexico 88231 (505) 394-2511

70051

LEASE OPERATOR/SHIP	PPER/COMPANY:	,		
LEASE NAME: Arch	Disperal			
TRANSPORTER COMPA	NY: Theomas		ПМЕ	AM/PM
DATE: 10/2/103 V	EHICLE NO.: #74/	DRIVER	NO.:	
CHARGE TO	is nort Bock			
(	TYPE OF MATE	RIAL		
[ ] Production Water [ ] Tank Bottoms [ ] Other Material:	[ ] Drilling Fluids [ ] Contaminated Soil [ ] BS&W Content:		completion Fl -117 No.:	uids
Description:	Tolids			
VOLUME OF MATERIAL	L}BBLS. /30 :	[]YARD	: (	 : ]
JOB TICKET, OPERATOR/SHIPPI MATERIAL EXEMPT FROM THE TO TIME, 40 U.S.C. § 6901, et seq THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPLO GEOTHERMAL ENERGY.  ALSO AS A CONDITION T JOB TICKET, TRANSPORTER RE	IDANCE SERVICES, INC.'S ACCEPTANER REPRESENTS AND WARRANTS THE RESOURCE, CONSERVATION AND RESOURCE, CONSERVATION AND RESOURCE, CONSERVATION AND RESOURCE OF THE NM HEALTH AND SAF. CODE EXEMPTION AFFORDED DRILLING FORATION, DEVELOPMENT OR PRODUCE OF SUNDANCE SERVICES, INC.'S ACCEPTESENTS AND WARRANTS THAT OF SPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DELIVER DEL	IAT THE WASTE MATECOVERY ACT OF 19 § 361.001 et seq., AND LUIDS, PRODUCED OF CRUDE OF THE MATERIAL	TERIAL SHIPP 176, AS AMEN REGULATIO WATERS, AND IL OR NATUR MATERIALS SH DELIVERED	ED HEREWITH IS DED FROM TIME NS RELATED OTHER WASTE AL GAS OR HIPPED WITH THIS BY
Transporter Statement at the shipper. This will certify the was delivered without incidents.	that the above Transporter load he above described location, and hat no additional materials were	d that it was tende	red by the a	above described
DDN/FD.				
DRIVER: (SIGNATURE)				
		11		

*		er en en en en en en en en en en en en en						
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page of	<b>1</b> .	:		
3.	Generator's Name and Mailing Address	N/A						
4	Generator's Phone (	New Mexico Oil Conservation D 1220 South St. Francis Drive	ivision	W			sposal Facility T17S,R31E	y office
1	Transporter 1 Config Nath 6-3488	Santa Fe, New Mexico 8 (30 PA)	D. Niverbaa		sporter s			
<b>)</b> 5.	Transporter I Company Nameo-5-106	Contact of Months and a 02-Eby	D Number	A. Irar	isponers P	none		- <b>*</b>
7.	Transporter 2 Companyagral Services, Inc.	8. US EPA I	D Number	B. Tran	sporter's 1	Phone	5 <del>05-397-304</del> 4	
9.	Designated Facility Name and Site Address	10. US EPA I	D Number	C. Faci	lity's Phone	)		
	Sundance Services  2 miles East on Hwy 18	<u> </u>	N/A · · · ·	ű			505-394-2511	
11.	Waste Shipping Name and Description		• .*		12. Cont	. 1	13. Total	14. Unit
a.					No.	Туре	Quantity 130	&BL
G b.	PRODUCED /	TANK Bottoms			<i>]</i> .	IANE	./	<u> </u>
G b. E N E R								
A C.								
R	·,				. · ·	•	<u> </u>	
d.	•				,			
D.	Additional Descriptions for Materials Listed Above	е		E. Han	dling Codes	for Was	tes Listed Above	. I
	•						NT/A	
15.	Non Hazardous Special Handling Instructions and Additional Info	rmation		L			N/A	
							<i>;</i>	
	#5 Address: PO Drawer	1769, Eunice, NM 88231						-
16.	GENERATOR'S CERTIFICATION: I certify the r	naterials described above on this manifest are no	ot subject to federal regula	itions for r	eporting pro	per dispos	al of Hazardous W	aste.
$\downarrow$	Printed Med Name	Signature					Month Da	
Ĭ   17.	Transporter 1 Acknowledgement of Receipt of M						\$ # t	
Ñ	Printed Typed Name	Signature	1/2	<b>—</b>			Month Da	y Year 6 a3
P 18.	Transporter 2 Acknowledgement of Receipt of M	laterials		-	***			
T 17. R AN SP 18. T ER	Printed/Typed Name	Signature					Month Da	y Year
19.	Discrepancy Indication Space							
FAC								. •
! ├	Facility Owner or Operator: Certification of recei	ot of waste materials covered by this manife	st except as noted in It	em-19.	p elitaria.			
Y	Printed Typed Name  ACN KANOS	Signature					Month Da	y Year
		ORIGINAL – RETURN TO	CENEDATOR			1/2	His Garage	,

#### 69949 P. O. Box 1737 \* Eunice, New Mexico 88231 (505) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY TIME AM/PM VEHICLE NO **DRIVER NO.: CHARGE TO:** TYPE OF MATERIAL [ ] Drilling Fluids [ ] Production Water [ ] Completion Fluids Tank Bottoms [ ] Contaminated Soil [ ] C-117 No.: \_ [ ] Other Material: [ ] BS&W Content: Description: []YARD [] **VOLUME OF MATERIAL** [ ] BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident **FACILITY REPRESENTATIVE:** (SIGNATURE)

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

White - Sundance

Revised 12/27/95

Canary - Sundance Acct #1

**Sundance Services, Inc.** 

Mo



#### Safety & Environmental Solutions, Inc.

P. O. Box 1613 Hobbs, New Mexico 88241

#### **Invoice**

DATE	INVOICE #
10/8/2003	6386

BILL TO	
Intera Joe Tracey One Park Square 6501 Americas Parkway NE, Ste. 820 Albuquerque, NM 87110	

QUANTITY  DESCRIPTION  Radiation Safety Officer NORM Meter Mileage Subtotal	75.00 50.00 0.60	Net 30  AMOUNT  75.00
1 Radiation Safety Officer 1 NORM Meter 24 Mileage	75.00 50.00	75.00
1 NORM Meter 24 Mileage	50.00	75.00
Hobbs Gross Receipts Tax  Project Mgr. approval:	6.125% 77 70 - NRI-01 - 02	50.00 14.44 139.44 8.54



#### Safety & Environmental Solutions, Inc.

P. O. Box 1613 Hobbs, New Mexico 88241

#### Invoice

DATE	INVOICE#
10/22/2003	6389

BILL TO	
Intern Joe Tracey One Park Square 6501 Americas Parkway NE, Stc. 820 Albuquerque, NM 87110	

	PRQJECT'		P.O. NO.	TERMS
	INTO3001 Norm Survey			Net 30
QUANTITY	DESCRIPTION		RATE	AMOUNT
1	Radiation Safety Officer Survey Meter Mileage Subtotal		75.00 50.00 0.60	150,00 50.00 28.80 228.80
	Hobbs Gross Receipts Tax	·	6.125%	14.01
	d d	N40 - A	1 - 7 RA - 01 - 02	hay
^^			Total	\$242.8



One Park Square 6501 Americas Parkway NE Suite 820 Albuquerque, New Mexico 87110 Tel: 505 246 1600

Fax: 505 246 2600

Fax

TO: MANTYNE KIEGING	From: Jos. TRACY
Company:	
Face (505) 467-3462	Pages:* 3
Phone:	Date:
Re:	ccı
*Includes cover sheet	
Comments:	· ;
MARTYNE,	
ATTACHED ARE XGRH	STANGYOL INVOICES, TOTAL
-/ Tax = \$ 390.	75. PREASE (ALL ME WITH
QUESTIONS. THANKS!	
	<del></del>
	190

This fax may contain confidential information or material protected by the attorney-client privilege. If you not the intended recipient, please inform Cristya Abrams immediately by telephone at (505) 246-1600.

## STATE OF NEW MEXICO PURCHASE DOCUMENT

	04-199-000382			
	DOCUMENT 04-19 NUMBER	BUDGET FY	04	
, 5	MCY 521	E	10/30/03	

Gency Sode 521	DOCUMENT 04-199-000382
лте 10/30/03	BUDGET FY 04
SUDOR	0000005086
ENDOR NAME AND ORDER ADDRESS INTERA INCORPORATED 9111 A RESEARCH BLVD	ADDRESS ORPORATED ARCH BLVD

**AUSTIN, TX 78758** 

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## DO NOT STAPLE BAR CODES

AGENCY CALTEXTACE TO THE PHONE	L 0	B OIL CONSERVATION DIVISION 1 1220 SO. ST. FRANCES DRIVE 1 SANTA FE, NM 87505 0	ST. FRANCIS DRIVE FE, NM 87505	OIL CON 1220 SO. SANTA F
		MINABER	VAX AX	TO VITA CT
L 0		L SANTA FE, NM 87505	FE, NM 87505	SANTA F
SANTA FE, NM 87505		1 1220 SO. ST. FRANCES DRIVE	ST. FRANCIS DRIVE	1220 SO.
DRIVE L	DRIVE	B OIL CONSERVATION DIVISION	OIL CONSERVATION DIVISION	OIL CON

F 0	PHONE NUMBER	

LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT	PURCHASE REQUISITION BUYER:
0.1	661	521	988d	300	0200	3532	121280 49	(BIDS MUST BE REQUESTED FOR ITEMS OVER \$1,500.00)
	`		)	2	)	1		RECOMMENDED SOURCE & SPECIAL REMARKS:
	,		-					
								ESTABLISH RENEWALNO:
							•	
Maxi	imum of si	ix account	Maximum of six accounting lines per purchase document	purchase do	cument	TOTAL	121,280.49	CONTRACT, PRICE AGREEMENT, PURCHASE ORDER  X OTHER THAN PROFESSIONAL SERVICE CONTRACTS:
								(APPROVED VENDORS MUST BE USED FOR ITEMS UNDER CONTRACT)
OR A(	OR AGENCY USE:	SE:	:					CPA/PO# 308050918056 EXPIRES: 110703

(APPROVED VEN	C/PA /PO#	
]		
	FOR AGENCY USE:	

56 EXPIRES:		
308050918056	ASE ORDER	HASES \$1,500.00 AND UNDER)
C/PA /PO#	DIRECT PURCHASE ORDER	ONLY VALID FOR PURCHASES \$1,500.00 AI
	AMOUNT	
	OBJECT	
	DIVISION	
	APPR	UNIT
	ORG/PRG	
SE.	AGCY	
A AGENCI US	FUND	
'UK A	Z	

AMOUNT DIRECT PURCHASE ORDER	(ONLY VALID FOR PURCHASES \$1,500.00 AND	121280.49 EXEMPT FROM THE NM PROC	PURSUANT TO SECTION	
OBJECT		3532		
DIVISION		0200		
APPR	CINIT	301		
ORG/PRG		0750		
AGCY		521		
FUND		199		
Z		_		

DIRECT PURCHASE ORDER (OMLY VALID FOR PURCHASES \$1,500 00 AND UNDER)	EXEMPT FROM THE NM PROCUREMENT CODE  PURSUANT TO SECTION  EXCLUDED FROM PROCUREMENT THROUGH STATE PURCHASING  PURSUANT TO SECTION  REASON:  REASON:	
AMOUNT	121280.49	121,280.49
OBJECT	3532	TOTAL
DIVISION	0200	
APPR UNIT	301	
AGCY ORG/PRG	0750	
	521	
FUND	199	
-, I		I

NMSA, 1978.

AGENCY APPROVAL - I certify that the proposed purchase represented by this document is authorized by and is made in accordanc	this document is authorized by and is made in accordance
with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget	ner certify that adequate unencumbered cash and budget
expenditure authority exists for this proposed purchase and all other outstanding purchas	purchase commitments and accounts payable.
AGENCY AUTHORIZED SIGNATURE:	DATE:

DATE

APPROVAL 2

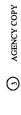
DATE

APPROVAL 1

Generated by : New Mexico Energy, Minerals and Natural Resources. Advantage Web System Version 2.49 06/18/02











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	04-199-000382		04
	DOCUMENT NUMBER	BUDGET FY	
	Agency Code Syr (521	DATE	10/30/03
1			₹ } ∀

## STATE OF NEW MEXICO PURCHASE DOCUMENT CONTINUATION SHEET

1	TERMS	DELIVERY 10/30/03 FOB D	BUDGET VERIFIED BY:			
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ENERGY, MINERALS & NAT RES AGENCY NAME

Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   Choose   C			
ON AND CLEANUP AT ARAHO, INC.  O 2001 State of New Mexico	TOTAL COST	121280.49	121,280.49
ON AND CLEANUP AT ARAHO, INC.  © 2001 State of New Mexico	UNIT COST	121280.4900	TAL
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State of New Mexico
Oil Conservation Division
Phase I Investigation and Remediation
Araho, Inc.
Former Injection Well Disposal Facility,
Lea County, New Mexico
Costs to Oct. 30, 2003 and Report Budget

1 11 2 11 2 10	Contract Line				
ufessional Services	Item	Rate	Unit	# of Units	Total
incipal	0001	100.00	hour	3	5 300.0
sject Scientist/Engineer/Manager	0003	67.00	bour	4	\$ 268.0
ject Scientist/Engineer/Manager (INTERA J. Tracy)	0003	67.00	hour	38	\$ 2,546.0
ff Scientist/Engineer	0004	52.00	hour	4	\$ 208.0 \$ 400.0
ht Technicum II biotal Professional Labor	0005	50,00	hour	8	5 400.0 5 3,722.0
BTOTAL TASK 1:		-		A PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART	\$ 3,722.0
MGRT # 53/125%					5 216.3
RAND TOTAL TASK II					5 3,938.3
Task 2. Map Buried Utilities (1-Call) an	d Perform Natur	rally Occurr	ing Radioact	tive Materials	
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ofessional Services	Item	Rate	Unit	# of Units	Tetal
off Scientist/Engineer	0004	52.00	hour	2	\$ 104.0
dd Technician II - Mobilization	0005	50.00	hour	16	\$ 800.0
dd Technician II.	0005	50.00	hour		5 400.0
aftsperson II (Utility Mapping)	0007	50.00	hour	0	5
btotal Professional Labor	I Constituted I				\$ 1,304.0
O. C. C. C. C. C. C. C. C. C. C. C. C. C.	Contract Line Item	Rate	Unit	# of Units	Total
penses JRM Survey	"At Cost"	1,300.00	each	w or Crairs	\$ 1,300.0
htotal Expenses	731 5.000	Factorizer.	COLU.		\$ 1,300.0
BIOTAL TASK 2:					3 2,004.0
MGRT 96 5.8125%					3 1513
RAND TOTAL TASK 2:					3 2,785.3
Task 3. Field Investigation: Tank Remova		sal and Pipi	ng Removal/	Disposal and	Sampling/Trenching
12 B. 182 W.	Contract Line	18/11	1,000	0.000000	(BOYAL)
ofessional Services	Item	Rate	Unit	# of Units	Total
sject Scientist/Engineer/Manager	0003	67.00	hour	8	5 536.0
off Scientist Engineer	0004	52.00	hour	11	\$ 572.6
dd Technician II - Fieldwork	0005	50.00	hour	90	\$ 4,500.0 \$ 675.0
dd Technician II - Fieldwork (INTERA K. Clark) dd Technician II - Foreman	0005	50.00	bour .	70	5 3,500.0
eld Technician I - Foreman	0006	35.00	hour	60	\$ 2,100.0
eld Technician I - Equipment Operator Trackhoe	0006	35.00	hour	10	\$ 350.0
old Technician I - Equipment Operator Backhoe	0006	25.00	hour	70	5 1,750.0
eld Technician I - Laborer	0006	20.00	hour	120	5 2,400.0
eld Technician I - Laborer (Sub. Rhino)	0006	29.00	Front	112	5 2,240.0
surly Secretary	0010	30.00	hour	0	3
htotal Professional Labor					5 18,623.0
	Contract Line		** **		
penses	Item	Rate	Unit	# of Units	Total 1,100.7
obilization of Equipment	0047	1.75	mile barrel	2,600	\$ 1,100.7 \$ 28.080.0
sposal of Contaminated Fluids (Product) sposal of Contaminated Fluids (Cleaning Water)	0044	10.80	bornel	965	\$ 10,422.0
icum/let Truck	"At Cost"	750.00	day	10	\$ 7,500.0
icuum Jet Truck	*At Cost*	750.00	day	7.25	5 5,437.5
e Oil Track	"At Cost"	925.00	day	3.65	5 3,376.2
ackhoe Heavy Duty	0030	646.00	diry	6	5 3,876.0
sckhoe Henvy Duty	0030	646,00	day	1	5 646.0
assportation and Disposal of Materials (Scrap Metals, Piping,	MATCHES IN	111111111111111111111111111111111111111			
nka) below NORM allowable limits	"At Cost"	195.00	lond	6	\$ 1,170.0
insportation and Disposal of Materials (Scrap Metals, Piping, nks) below NORM allowable limits	"At Cost"	195.00	load	1	\$ 195.0
sposal of Miscellaneous Trash	"At Cost"	40.00	ton	12:	\$ 480.0
apenal of Miscellaneous Trash	"At Cost"	40.00	ton	3	\$ 120.0
ckhoe Medium Duty	0026	157.00	day	6	\$ 942.0
ckhoe Medium Duty	9026	157,00	day	2.3	\$ 361,1
Hivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600.0
eun Sand	"At Cost"	4.00	yard	200	\$ 800.0
nd-Farm of Solid Waste at Rhino's OCD Permitted Facility	0045	31.15	yard	443	\$ 13,799.4
ish Water Transport and Use	"At Cost" 9012	1,490.25 50.00	project	1	S 1,490.3 S 300.0
esh Air/Safety Trailer/Personal Air/Samplers	'At Cost'	300.00	day	6	\$ 300.0
and-Held GPS Unit	"At Cost"	5.00	day	6	\$ 30.0
otononization Detector (PID)	0021	10.00	day	6	5 60.0
leage	0042	0.25	mile	800	5 200.6
r Diem	0043	65.00	day	6	\$ 390.0
Dien	0043	65.00	day	1	\$ 65.0
htotal Expenses					\$ 82,941.3
BTOTAL TASK3:			THE REAL PROPERTY.		5 101,564.3
MGRT # 5,8125%					\$ 5000.0
RAND TOTAL TASK 3:	k A Drawners	of an Physic	Depost		\$ 107,467.3
Tas	k 4. Preparation	of an Pinal	Report		
ofessional Services	Contract Line Item	Rate	Unit	# of Units	Total
ncipal	0001	100.00	hour	# of Units	\$ 800.0
oject Scientist/Engineer/Manager	0001	67.00	bour	24	5 1,608.0
off Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.0
rld Techniciun II	0005	50.00	hour	24	\$ 1,200.0
raftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.0
Iministrator (Technical Editor)	0009	40,00	bour	- 6	\$ 240.0
btotal Professional Labor					5 6,728.0
RTOTAL TASK 4:	COLUMN TO SERVICE	A STATE OF	H-TIME	- 27 THE R	\$ 6,728.1
MGRET IN S.RE25%					371
					5 2,119,1
RAND TOTAL TASK 4:					
RAND TOTAL TASK 4:					
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Authorized Amount Total Costs plus Report Budget Change Order Amount

### STATE OF NEW MEXICO PURCHASE DOCUMENT

04-199-000308

DOCUMENT NUMBER BUDGET FY

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resented by this document is authorized by and is made in accordance ions. I further certify that adequate unencumbered cash and budget outstanding purchase commitments and accounts payable.	DATE:
AGENCY APPROVAL - I certify that the proposed purchase re with all State (and if applicable Federal) legislation, rules and regul expenditure authority exists for this proposed purchase and all other.	AGENCY AUTHORIZED SIGNATURE:
DATE	-
APPROVAL 2	

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TOTAL

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# STATE OF NEW MEXICO PURCHASE DOCUMENT CONTINUATION SHEET

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UNIT COST	44350.0000						
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	03-199-000799		03		980500000	
	DOCUMENT NUMBER	BUDGET FY			8	ADDRESS
4,	521		05/16/03			VENDOR NAME AND ORDER ADDRESS
	AGENCY	DATE	05/	VIEW TOOL	CODE	VENDOR NA

ode 521	DOCUMENT 03-	03-199-000799
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NUCR NAME AND ORDER ADDRESS INTERA INCORPO 9111 A RESEARCH	POR NAME AND ORDER ADDRESS INTERA INCORPORATED 9111 A RESEARCH BLVD	
AUSTIN, TX 78758	78758	

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	2.20

# B OIL CONSERVATION DIVISION DO NOT STAPLE BAR CODES

1220 SO. ST. FRANCES DRIVE

**SANTA FE, NM 87505** 

OIL CONSERVATION DIVISION	1220 SO. ST. FRANCIS DRIVE	SANTA FE, NM 87505			AGENCY CONTACT SALLY MARTINEZ
S	<b>I</b> –	Δ.	T	0	ACE CON

PHONE	NUMBER

CONTRACT, PRICE AGREEMENT, PURCHASE ORDER  X OTHER THAN PROFESSIONAL SERVICE CONTRACTS: APPROVED VERDORS MIST BE USED FOR ITEMS UNDER CONTRACT	57,100.00	TOTAL	cument	purchase de	Maximum of six accounting lines per purchase document	six account	Maximum of six a	Ĭ.
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	DFA APPROVED							
RECOMMENDED SOURCE & SPECIAL REMARKS:			<u> </u>	) )	 			
S OVER \$1,500 00)	57100.00	3532	0200	300	P586	521	199	01
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FOR AGENCY USE:			_

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OK AUEINO I USE:	FUND	3	199	
LOLA	Z.		_	

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(ONLY VALID FOR PURCHASES \$1,500.00 AND UNDER)	EXEMPT FROM THE NM PROCUREMENT CODE	PURSUANT TO SECTION	EXCLUDED FROM PROCUREMENT THROUGH STATE PURCHASING	PURSUANT TO SECTION NAISA, 1978.	FOR ENCUMBERING PURPOSES ONLY	REASON	
	57100.00						
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	ī						

AGENCY APPROVAL - I certify that the proposed nurchase represented by this document is authorized by and is made in accordance	with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget expenditure authority exists for this proposed purchase and all other outstanding purchase commitments and accounts payable.	AGENCY AUTHORIZED SIGNATURE:	(1010)
	DATE		monated by Marylon Branch, Missaels and Missael Bossesson Admissaels Commerce 1771
	APPROVAL 2		The Possing Administra
	DATE		ico Enemer Minemis and M
	APPROVAL 1		Man Man Man

57,100.00

TOTAL

Generated by: New Mexico Energy, Minerals and Natural Resources. Advantage Web System Version 2.49 06/18/02



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(c) 2001 State of New Mexico

	ros D		
TERMS	DATE 05/16/03	BUDGET VERIFIED BY:	
STATE OF NEW MEXICO	CONTINUATION SHEET		ENERGY, MINERALS & NAT RES
03-199-000799		03	AGENCY NAME
NUMBER	BUDGET FY		
_  cope 521 .	DATE	50/01/60	

	TERMS				l 
	DATE	05/16/03	ĩ. G	D	
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IAT RES					

1	8.	8	
TOTAL COST	57100.00	57,100.00	)
UNIT COST	57100.0000	TOTAL	-  -  -
ARTICLE AND DESCRIPTION	PHASE I SURFACE INVESTIGATION AND CLEANUP AT ARAHO, INC.	Generated by : New Mexico Energy, Minerals and Natural Resources. Advantage Web System Version 2.49 06/18/02 (C) 2001 State of New Mexico	3 AGENCY COPY ( ) AGENCY COPY
ACCT		ources.	
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UNIT	БАСН	inergy, Mine	
QUANTITY	1.0000	by: New Mexico E	() VENDO( PRONLY)
COMM	<b>}</b>	merated	Θ



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

Bill N.M. Oil Conservation Division

To: 1220 South St. Francis Dr.

Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
11/17′03	85783

Project

Project # & Name: Araho

Terms

Original

BALANCE DUE:

2,445.00

			Ne	t 30	PIN	I ALB-810
Quantity	Description			Rate	€	Amount
23 23 35	Item 005 Method 8021 (BTEX) Item 032 Total Pet. Hydrocar Item 052 Chloride only		5-C28		.00 .00 .00	920.00 1,035.00 490.00
	Remit to: Pinnacle Laborator 2709-D Pan America Albuquerque, NM 8	n Freeway N 7107	IE .			
	n #: 310136 ed By: Martyne Kieling			TC	TAL:	2,445.00

PO Number

# STATE OF NEW MEXICO

DO NOT STAPLE BAR CODES  B OIL CONSERVATION DIVISION 1 1220 SO. ST. FRANCES DRIVE L SANTA FE, NM 87505  T	PHONE NUMBER
PURCHASE DOCUMENT OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505	CONTACT SALLY MARTINEZ
NH HO	AGENCY
DOCUMENT   DOCUMENT   199-000811   INTARBER   05/23/03   BUDGET FY   03   05/23/03   BUDGET FY   03   05/23/03   05/23/03   850454519   000R NAME AND ORDER ADDRESS   PINNACLE LABORATORIES INC   2709-D PAN AMERICAN FWY NE	87107
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Ma	ximum of :	six accoun	Maximum of six accounting lines per purchase document	purchase do	cument	TOTAL	4,000.00	CONTRACT, PRICE AGREEMENT, PURCHASE ORDER  X OTHER THAN PROFESSIONAL SERVICE CONTRACTS:
JR.	OR AGENCY USE:	JSE:						CPA PO# 2052107702497 EXPIRES: 011304

FOR ENCUMBERING PURPOSES ONLY REASON:	4,000.00	TOTAL					
	4000.00	3532	0700	301 301	0750 0750		3 -
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			AGENCY APPROVAL - I certify that the proposed purchase represented by this document is authorized by and is made in accordance	y and is made in accordance
APPROVAL 1 DATE	APPROVAL 2	DATE	with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget expenditure authority exists for this proposed purchase and all other outstanding purchase commitments and accounts payable.	cumbered cash and budget ccounts payable.
			AGENCY AUTHORIZED SIGNATURE:	
enerated by . New Mexico Energy, Min	nerated by . New Mexico Energy, Minerals and Natural Resources. Advantage Web System	ge Web System Version 2 49 06/18/02	06/18/02 C 2001 State of New Mexico	

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STATE OF NEW MEXICO PURCHASE DOCUMENT CONTINUATION SHEET 03-199-000811 03 BUDGET FY NUMBER .521 05/23/03 3753

ENERGY, MINERALS & NAT RES

AGENCY NAME

	TERMS			
	DATB	05/23/03	FÜB	Q
	BUDGET VERIMED BY:	IPIED BY:		

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RAHO INC. INVESTIGATION AND CLEANUP  RAHO INC. INVESTIGATION AND CLEANUP  resion 2.49 06/18/02 © 2001 State of New Mexico	TOTAL COST	4000.00	4,000,000
ARTICLE AND DESCRIPTION  AMD CLEANUP  CRAHO INC. INVESTIGATION AND CLEANUP  AMD CLEANUP  CRAM 249 06/18/02 © 2001 State of New Mexico	UNIT COST	4000.0000	TAL
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#### ARAHO Phase I Costs

Pi

\$ 100,400.34 3,356.90 9,982.88

Total \$113,740.13

+ Lab

2445.00 - Pinnical Lub

\$ 116185,13 Grand Total Phuse I

#### Kieling, Martyne

From: Joseph J. Tracy [jtracy@intera.com]

Sent: Tuesday, January 13, 2004 5:38 PM

To: Kieling, Martyne

Subject: INTERA invoice No. 11-03-39

#### Martyne,

I have reviewed the outstanding invoice and called Rhino for clarification. Based on the back-up provided I determined that the Disposal of Miscellaneous Trash line item should equal \$350.00 and the Transportation and Disposal of Materials should equal \$1,192.50. You have the back-up for these amounts let me know if you need any clarification. The total amount due on the outstanding invoice (INTERA No. 11-03-39) with tax should be: \$3356.90.

Please call me with questions or if you do not agree. Thanks,

#### Joe

Joseph J. Tracy, R.G. Geologist INTERA Inc. One Park Square 6501 Americas Parkway NE Suite 820 Albuquerque, NM 87110 (505) 246-1600 ext. 219 Fax (505) 246-2600

This e-mail may contain confidential information or material protected by the attorney-client privilege. If you are not the intended recipient, please inform immediately to Joseph Tracy by return e-mail at <a href="mailto:jtracy@intera.com">jtracy@intera.com</a> or by telephone at (505) 246-1600 ext. 219



Norm Survey
BillNot Included...
Billed Full amount on Invoice
was actually Less

November 11, 2003

Ms. Martyne J. Kieling Environmental Geologist New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, NM 87505

• RE: Invoice No. 11-03-39

Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to work with the New Mexico Oil Conservation Division. Enclosed you will find INTERA Invoice No. 11-03-39, submitted to you for the work conducted through the end of October 2003 at the Araho, Inc. Facility in Lovington, New Mexico. The costs on the enclosed invoice reflect those charges associated with the project management, NORM survey, and field work portion of the project (Tasks 1, 2, and 3).

A final report is currently being prepared by INTERA for your review (Task 4). If you have any questions regarding the enclosed invoice, please do not hesitate to contact me at (505) 246-1600 ext. 219. Thank you very much.

Sincerely, **INTERA Inc.** 

Joseph Tracy, PG Project Manager

Enclosure: Invoice No. 11-03-39 with back-up

#### Kieling, Martyne

From:

Joseph J. Tracy [jtracy@intera.com]

Sent:

Thursday, October 30, 2003 1:14 PM

To:

Kieling, Martyne

Cc:

Stacy A. Sabol

Subject: ARAHO Change Order

artyne,

ere is the change order. Tasks 1, 2, and 3 are complete for the project. Task 4 (the report) is the only Task which remains ifinished.

**suthorized** Amount

101,446.68 \$

otal Costs plus Report Budget (Task 4)

121,280.49

**Change Order Amount** 

19,833.81

is obvious that we are going to have to work on the Rhino costs, what they have submitted and what Konrad has in his notes are o different things. I will be working on that today and tomorrow so we can get you an invoice by Monday. That means that this nange order is the maximum amount or worst-case scenario. We need clarification from Rhino on line items 44, 45, 49, and 57 in e attached spreadsheet. We will either get more back-up and/or clarification from them or a reduction in their costs. I apologize r the delay in getting this to you. Thanks and please call me with questions,

seph J. Tracy, R.G. eologist ITERA Inc. ne Park Square 501 Americas Parkway NE **Jite 820** buquerque, NM 87110 05) 246-1600 ext. 219 эх (505) 246-2600

is e-mail may contain confidential information or material protected by the attorney-client privilege. If you are not the intended cipient, please inform immediately to Joseph Tracy by return e-mail at itracy@intera.com or by telephone at (505) 246-1600 ext. State of New Mexico
Oii Conservation Division
Phase I Investigation and Remediation
Araho, Inc.
Former Injection Well Disposal Facility,
Lea County, New Mexico
Costs to Oct. 30, 2003 and Report Budget

Task I. Proj	ect Coordination	and Freidw	ork r repara	T. Com	
Audientical Services	Contract Line Item	Rate	Unit	# of Units	Total
rofessional Services	0001	100.00	hour	3 an United	\$ 300.0
rincipal	0003	67.00	hour	4	\$ 268.0
roject Scientist/Engineer/Manager	0003	67.00	hour	38	\$ 2,546.0
roject Scientist/Lagineer/Manager (INTERA J. Trucy) toff Scientist/Engineer	0004	52.00	hour	A	\$ 208.0
adt Scannist Engineer ield Technician II	0005	50.00	hour	9.	\$ 400.0
ubtotal Professional Labor	1 0003	30.00	2000		\$ 3,722.6
UBTOTAL TASK I:					3 3,722.0
NMGRT # 5.8125%					8 216.3
GRAND TOTAL TASK I:					\$ 3,938.1
Task 2. Map Buried Utilities (I-Call) ar	d Perform Natur	rally Occur	ine Radioac	tive Materials	THE RESERVE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA
task 2. Hap buried cuities (1-Can) at	Contract Line	any Ocean	ing resident	T CONTRACTOR	(troating time try
Professional Services	Item	Rate	Unit	# of Units	Total
itaff Scientia/Engineer	0004	52.00	hour	2	\$ 104.0
icid Tochnician II - Mobilization	0005	50.00	hour	16	\$ 800.0
icid Technician II	0005	50.00	hour	8	\$ 400.0
Praftsperson II (Utility Mapping)	0007	50.00	hour	0	5
Subtotal Professional Labor					\$ 1,304.0
Applicat F (virtue) and a party	Contract Line		1		
Expenses	Item	Rate	Unit	# of Units	Total
VORM Survey	"At Cost"	1,300.00	cach	1	\$ 1,300.0
ubtotal Expenses					\$ 1,306.0
SUBTOTAL TASK 2:					\$ 2,604.0
NMGRT @ 5.8125%					5 151.3
GRAND TOTAL TASK 2:					\$ 2,758.3
Task 3. Field Investigation: Tank Remova	/Cleaning/Disno	sal and Pini	ng Removal	Disposal and	Sampling/Trenching
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Professional Services	Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	boar	P of Chits	\$ 336.0
Staff Scientist/Engineer	0004	52.00	hour:	11	\$ 572.0
ield Technician II - Fieldwork	0005	50.00	hour	90	\$ 4,500.0
ield Technicum II - Fieldwork (INTERA K. Clark)	0005	\$0.00	hour	13.5	\$ 675.0
	0005	50.00		70	\$ 3,500.0
ield Technician II - Foreman	0006	35.00	hour	60	
ield Technicism I - Equipment Operator Trackhoe		35.00	hour		\$ 2,100.0
held Technician I - Equipment Operator Trackhoe	0006		hour	10	\$ 350.0
seld Technician I - Equipment Operator Backhoe	0006	25.00	hour	70	\$ 1,750.0
Seld Technician I - Laborer	0006	20.00	hour	120	\$ 2,400.0
Field Technician I - Laborer (Sub. Rhino)	0006	30.00	hour	112	5 2,240.0
Awarty Secretary	0010	30.00	hour	0	
Subtotal Professional Labor	100000000000000000000000000000000000000				\$ 18,623.0
AND THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	Contract Line	Sec. 150	447.447	W 1880 W.	W. C. E.
Expenses	Item	Rate	Unit	# of Units	Total
Mobilization of Equipment	0047	1.75	mile	629	\$ 1,100.7
Disposal of Contaminated Flinds (Product)	0044	10.80	barret	2,600	\$ 28,080.0
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	965	\$ 10,422.0
Vacuum/Jet Truck	"At Cost"	750.00	clay	10	\$ 7,500.0
Vacuum/Jet Truck	"At Cost"	750.00	day	7.25	\$ 5,437.5
Hot Oil Truck	"At Cost"	925.00	day	3.65	\$ 3,376.2
Frackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876.0
Frackhoe Honey Duty	0030	646.00	day	_	\$ 646.0
Transportation and Disposal of Materials (Scrap Metals, Piping.	**************************************	1000000	14-030	TORK!	4 100
Tanks) below NORM allowable limits	"At Cost"	195:00	load	6	5 1,170.0
Transportation and Disposal of Materials (Scrap Metals, Piping,	44.0000	Transac.	-		
Emiks) below NORM allowable limits	"At Cest"	195,00	load	-	\$ 195.0
Disposal of Miscellaneous Trash	"At Cost"	40.00	.ton	12	\$ 480.0
Disposal of Miscellineous Trash	"At Cost"	40.00	ton	3	\$ 120.0
Sackbox Medium Duty	0026	157.00	day	6	\$ 942.0
Sackhoe Modrum Duty	0026	157,00	day	2.3	5 361.1
Defivery of Two 20 Yard Roll-Off Containers	"At Cost"	300:00	each	2	5 600.0
Clean Send	"At Cost"	4.00	yard	200	\$ 800.0
and-Farm of Solid Waste at Rhine's OCD Permitted Facility	0045	31.15	yard	443	\$ 13,799.4
Fresh Water Transport and Use	"At Cost"	1,490.25 50.00	project	1	\$ 1,490.2
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012		day	6	5 300.0
Fresh Air/Seliety Trailer/Personal Air Sumplers	"At Cost"	300.00	dey	5	\$ 1,500.0
Hand-Held OPS Unit	"At Cost"	5.00	dev	6	\$ 30.0
Photosomization Detector (PID)	0021	10.00	day	6	\$ 60.0
Mileage	0042	0.25	tride.	800	\$ 200.0
Per Diem	0043	65,00	day	6	\$ 390.0
The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	0043	65.00	day		65.0
Subtotal Expenses					5 82,941.3
SUBTOTAL TASK Je					3 101,564.3
NMGRT @ 5.8125%					5 5,963.4
GRAND TOTAL TASK 3:			-		5 107,467.7
Tas	k 4. Preparation	of an Final	Report		
	Contract Line				
	Item	Rate	Unit	# of Units	Total
Professional Services	1000	100.00	hour	. 8	\$ 800.0
		67.00	hour	24	\$ 1,608.0
Principal Project Scientist/Engineer/Manager	0003			40	\$ 2,080.0
Professional Services  Triocpal  Troyect Scientist Lagineer Manager Staff Scientist Engineer		52.00	bour.		
Trincipal Troject Scientist-Ungineer/Manager Staff Scientist/Engineer	0003	52.00			\$ 1,200.0
*rincipal *roject Scientist*Engineer/Manager *Raff Scientist*Engineer *ield Technician II	0003 0004	52.00 50.00 50.00	bour	24	\$ 1,200.0
*Trinciped **Trinciped Tringineer/Manager **Baff Scientist/Engineer **Ind Technolon II **Traflapmon II (Figures, Cross Sections)	0003 0004 0005	50.00	bour bour	24 16	\$ 1,200.0 \$ 800.0
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'rincipal 'rosec Scientist'Engineer/Manager Said Scientist/Engineer sidd Technician II 'raflagemon II (Figures, Cross Sections) Ulministrator (Technical Editor) ulototal Profussional Labor	0003 0004 0005 0007	50.00	bour bour	24 16	\$ 1,200.0 \$ 800.0 \$ 240.0 \$ 6,728.4
Vincipal Vincipal Vincipal Agricultural Manager  ladf Scientist/Engineer/Manager  ladf Scientist/Engineer  ladf Scientist/Engineer  ladf Scientist/Engineer  ladf Scientist/Engineer  Justification II (Figures, Cross Sections)  Justification II (Figures, Labor  100 TOTAL TASK 4:	0003 0004 0005 0007	50.00	bour bour	24 16	\$ 1,200 ( \$ 800 ( \$ 240 ( \$ 6,728 (
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 Authorized Amount
 \$ 101,446,68

 Total Costs plan Report Pladget
 \$ 121,280,49

 Change Order Assount
 \$ (19,833,85)





GSD/PD 003-D2 (Rev. 12/91)

# STATE OF NEW MEXICO GENERAL SERVICES DEPARTMENT PURCHASING DIVISION

AWARDED VENDOR 3 VENDORS	PRICE AGREEMENT AMENDMENT
	PRICE AGREEMENT NUMBER: 30-805-09-18056
	PRICE AGREEMENT AMENDMENT NO.:_1
Telephone No	TERM: OCTOBER 8, 2002 - OCTOBER 7, 2003
	J
SHIP TO: NMSHTD AS SPECIFIED LOCATION AS DESCRIBED DESCRIBED IN BID SANTA FE NM 87504-1149	
INVOICE: NMSHTD AS SPECIFIED LOCATION AS DESCRIBED DESCRIBED IN BID SANTA FE NM 87504-1149	Procurement Specialist: FLIZABETH OLONA & & D  Telephone No.: 505-827 - 0480
CONTRACT ORDERS WILL INDICATE AGENCY CONTACT PERSON	
COMMODITY: SITE MAINTENANCE & MONITO	<u>ORING</u>
THIS PRICE AGREEMENT AMENDMENT IS TO BE ATTACHED TO TH	E RESPECTIVE PRICE AGREEMENT AND BECOME A PART THERE OF.

THIS AMENDMENT IS ISSUED TO REFLECT THE FOLLOWING EFFECTIVE OCTOBER 7, 2003.

EXTEND PRICE AGREEMENT FROM: OCTOBER 7, 2003 TO: NOVEMBER 7, 2003

EXTENSION IS TO ALLOW FOR BID PROCESS.

EXCEPT AS MODIFIED BY THIS AMENDMENT, THE PROVISIONS OF THE PRICE AGREEMENT SHALL REMAIN IN FULL FORCE AND EFFECT.

ACCEPTED FOR THE STATE OF NEW MEXICO

NEW MEXICO STATE PURCHASING AGENT

DATE: 11/03/03

PURCHASING DIVISION 100 ST. FRANCIS DRIVE 87505 /, PO BOX 26110, SANTA FE, NM 87502-0110 (505) 827-0472



One Park Square 6501 Americas Parkway NE Suite 820 Albuquerque, New Mexico 87110 Tol: 505 245 1500

Tel: 505 246 1600 Fax: 505 246 2600 Fax

To: MANTYNE KICEME	From: loc hacy
Company: OCD	
Fax (505)476-3462	Pages: 2
Phones	Date: 10 /8 /03
Re:	cc
*Includes cover sheet	
Comments:	
MARTYNE,	
Homeger 15 A Coo	y' or our Arenouna Cerrer
	or our Nov. 7, 2003. THANKS,
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	er Chore Nov. 7, 2003. THANKS,

This fax may contain confidential information or material protected by the attorney-client privilege. If you need the intended recipient, please inform Cristya Abrams immediately by telephone at (505) 246-1600.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

October 7, 2003

Lori Wrotenbery
Director
Oil Conservation Division

Joseph Tracy Intera, Inc. 6501 Americas Pkwy NE Albuquerque, NM 87110

RE: Revised Cost Estimate Based on Preliminary Field Findings

And Revised Work Plan, June 26, 2003

Modified on August 11, 2003

#### Dear Joseph:

The New Mexico Oil Conservation Division (OCD) hereby approves the revised work plan submitted on June 26, 2003 and modified on August 11, 2003. Based on the fact that the material in the tanks is not liquid as original thought to be by the OCD and as bid by Intera, the revised work plan is approved to include additional costs for the solidification of sludge, the increase in volume to be trucked and the increased volume to be landfarmed. Enclosed please find copies of the two purchase documents that will cover this job. One is for \$57,100 and the other is for \$44,350.

The start of this job is dependant upon the extension of the State Highway Department Site Maintenance & Monitoring Contract 30-805-09-18056. If you have any questions please call me at 505-476-3488.

Sincerely,

Martyne J. Kieling

**Environmental Geologist** 

Enclosures: Purchase Documents 03-199-000799 and 04-199-000308 and Access Agreement.

cc:

**Hobbs OCD** 

Pat Wise, Lovington City Manager, P.O. Box 1269, Lovington, NM 88260



# CITY OF LOVINGTON

214 South Love ~ Post Office Box 1269 Lovington, New Mexico 88260 BUSINESS 505.396.2884

FACSIMILE 505.396.6328

<u>E~MAIL</u> admin@lovington-nm.org

**ADMINISTRATION** 

PAT WISE City Manager

CHARLES KELLEY
Asst. City Manager

RHONDA JONES Clerk/Treasurer

September 29, 2003

RECEIVED

OCT 0 2 2003

OIL CONSERVATION
DIVISION

COMMISSIONERS

TROY J. HARRIS
Mayor

BILL SHIPP Mayor Pro-Tem

ANNA TRUJILLO Commissioner

DIXIE DRUMOND Commissioner

ARTHUR SANCHEZ
Commissioner

New Mexico Energy, Minerals and Natural Resources Dept. Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Araho Investigation and Remediation Project

Attn: Martyne J. Kieling

**Environmental Geologist** 

Dear Ms. Kieling:

Enclosed for your files is an executed and filed copy of the Temporary Grant of Easement and Exhibits A & B for your Araho Project just south of Lovington. It is my hope that this dangerous and long neglected incursion over our municipal water supply may be remediated as soon as possible. Please advise of a firm start up date, once that is established.

Sincerely,

CITY OF LOVINGTON

Pat Wise

City Manager

xc: Secretary Ron Curry, Department of Environment Secretary Joanna Prukop, ENMR Department Patrick McMahon, Heidel, Samberson, Newell, Cox and McMahon

#### TEMPORARY GRANT OF EASEMENT

CITY OF LOVINGTON, P.O. Box 1269, Lovington, New Mexico, 88260 (hereinafter referred to as "City"), for consideration, grant to the NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES (hereinafter referred to as "EMNRD") and its OIL CONSERVATION DIVISION (hereinafter referred to as "Division"), their agents, employees and contractors, a temporary and limited easement in, to, upon and over all that portion of the following described real estate in Lea County, New Mexico, together with reasonable access thereto:

#### **SURFACE ACCESS ONLY:**

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter (SE/4) of Section 1, Township 17 South (T. 17 S.), Range 36 East (R. 36 E.), N.M.P.M., Lea County, New Mexico, being more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

Subject to reservations, restrictions and easements appearing of record.

Access to said tract shall be by the route identified in Exhibit "A" attached here to and incorporated by reference.

Said easement is given for the purpose of conducting an investigation and remediation of contamination believed to exist at the site of the abandoned Araho, Inc. injection well facility located on the property described herein, which investigation may include drilling, constructing and maintaining upon the Property a monitor well or wells with which the Oil Conservation Division will use to assess and monitor contaminants believed to exist below the surface, routine visits to the Property, ingress and egress to the Property, sampling and inspecting the aforementioned monitor wells following initial construction, excavation of the property to investigate the nature and extent of contaminants believed to exist, excavation of the Property to remove any contamination found, and other activities inherent in the aforesaid investigation and remediation. Said easement shall terminate two years from the date signed unless terminated sooner by the Division's filing of a notice that it has concluded its investigation and remediation activities at the site. The City agrees not to unreasonably withhold an extension of this Easement if the Division files a notice that it has not concluded its investigation and remediation activities at the site.

This Easement is contingent upon the Division's acceptance of the terms and conditions set forth in the Addendum attached hereto as Exhibit "B" and incorporated by reference. Witness my hand and seal this 20 day of Jylen, 2003. CITY OF LOVINGTON Lea County, New Mexico Troy Lataris, Mayor **FEST** Rhonda Jones, City Clerk **ACKNOWLEDGEMENTS** STATE OF NEW MEXICO ) COUNTY OF LEA The foregoing instrument was acknowledged before me this day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of day of d CITY OF LOVINGTON Mayor July & Ylarye My commission expires: STATE OF NEW MEXICO ) COUNTY OF LEA The foregoing instrument was acknowledged before me this 2004 day of Lightente, 2003, by CITY OF LOVINGTON Clerk Rhonds Que

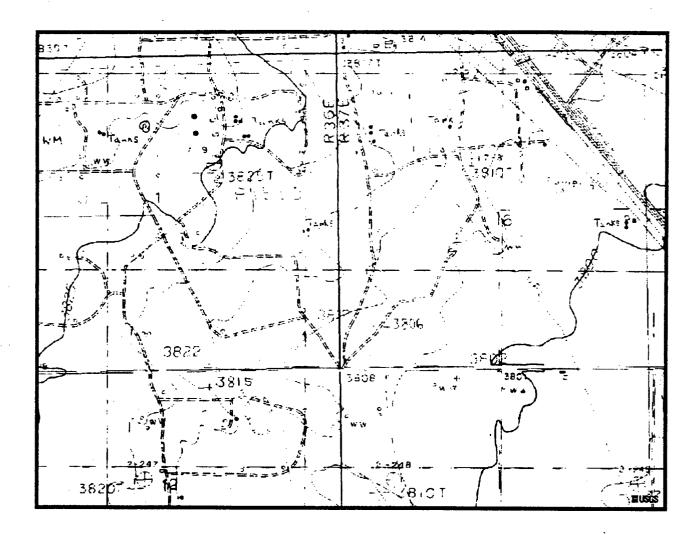
commission expires:

Notary Public

#### Exhibit A

Yellow arrows highlight the driving directions from the Hobbs –Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.

Map: 7.5 Topographic Lovington SE Quad.



#### Exhibit B

#### ADDENDUM

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

- 1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
- 2. The Division will not landfarm contaminated soil on the Property.
- 3. All activity undertaken by the Division will be at its own expense.
- 4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
- 5. Select City personnel and its agent(s) shall have unrestricted access to the Property, considering reasonable health and safety rules set forth by the Division.
- 6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
- 7. Any fill material brought onto the Property by Division shall be not unlike background soils.
- 8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
- 9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this 2 day of September, 2003.

By:

ori Wrotenbery, Oil Conservation Division Director

By:

Robert Castillo, Administrative Services Division Director

State of New Mexico Oil Conservation Division Phase I Investigation and Remediation Araho, Inc. Former Injection Well Disposal Facility, Lea County, New Mexico **Revised Cost Estimate** Revision III August 11, 2003

Task I. Project	Coordination a	ind Fieldwo	rk Preparat	ion	_	
	Contract Line	Down	Finds.	N of Holes		Total
Professional Services	0001	Rate 100.00	Unit	# of Units		Total 400.00
Principal Principal	0003	67.00	hour	4	5	268.00
Project Scientist/Engineer/Manager	0004	52.00	hour	4	\$	208.00
staff Scientist/Engineer	0005	50.00	hour	8	5	400.00
Field Technician II Subtotal Professional Labor	1 1000	-117.50%	10,000		5	1,276,00
						1,276,00
SURTOTAL TASK 1:						74.17
NMGRT @ 5.8125% GRAND TOTAL TASK 1:					*	1,350,17
Task 2. Map Buried Utilities (I-Call) and I	Perform Natura	illy Occurri	ne Radioact	ive Materials	NORM) Su	
rask 2. Map buried Cumies (1-Can) and i	Contract Line	my Occurri	ng rentriones	THE PROPERTY AND P	(THORESTE) SH	1117
		Date	Unit	# of Units		Total
Professional Services	0004	52.00	hour	2	5	104,00
Staff Scientint/Engineer	0005	50.00	hour	16	2	800.00
Field Technician II - Mobilization	0005	50.00	hour	8	S	400.00
Field Technician II Draftsperson II (Utility Mapping)	0007	50.00	hour	8	5	400.00
Subtotal Professional Labor	1007	50.00	10001		5	1,704.00
Subtotal Froiestional Labor	Contract Line					11111111111
Expenses	Item	Rate	Unit	# of Units		Total
NORM Survey	"At Cost"	1,300.00	cach	1	5	1,300.00
Subtotal Expenses		7.00		-	5	1,300.00
SUBTOTAL TASK 2:					S	3,004,00
NMGRT @ 5.8125%					8	174.61
GRAND TOTAL TASK 2:					5	3,178.61
Task 3. Field Investigation: Tank Removal/Cl	eaning/Disnosa	and Pining	g Removal/F	Disposal and S	ampline/Tr	
Task 5. Field Investigation. Tank Removabe.	Contract Line	and riping	K reconstraint	Toposar and O	ampung rr	memma.
Professional Services	Item:	Rate	Unit	# of Units		Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	S	536.00
Staff Scientist/Engineer Manager	0003	52.00	hour	12	\$	624.00
Field Technician II - Fieldwork*	0005	50.00	hour	90	5	4,500.00
Field Technician II - Foreman	0005	50.00	hour	60	S	3,000.00
Field Technician 1 - Equipment Operator Trackhoe	0006	35.00	hour	60	\$	2,100.00
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	60	\$	1,500.00
Field Technician I - Laborer	0006	20.00	hour	60	5	1,200.00
Field Technician I - Laborer	0006	20.00	hour	60	5	1,200.00
Hourly Secretary	0010	30.00	hour	-4	\$	120.00
Subtotal Professional Labor					S	14,780.00
	Contract Line					
Expenses	Item	Rate	Unit	# of Units	C	Total
Mobilization of Equipment	0047	1.75	mile	630	\$	1,102.50
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$	28,080.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	5	10,800.00
Vacuum/Jet Truck	"At Cost"	750.00	day	6	S	4,500.00
Trackhoe Heavy Duty	0030	646.00	day	6	5	3,876.00
Transportation and Disposal of Materials (Scrap Metals, Piping,						
Tanks) below NORM allowable limits	"At Cost"	195.00	load	6	5	1,170.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	12	\$	480.00
Backhoe Medium Duty	0026	157.00	day	6	5	942.00
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	cach	2	5	600.00
Clean Sand	"At Cost"	4.00	yard	250	5	1,000.00
Land-Farm of Solid Waste at Rhino's OCD Permitted Facility	0045	31.15	yard	470	5	14,640.50
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	S	300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$	1,800.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	5	15.00
Photoionization Detector (PID)	0021	10.00	day	6	5	60.00
Mileage Per Diem	0042	0.25	mile	800	5	200,00 520,00
	9043	65.00	day	8	\$	
Subtotal Expenses					5	70,086.00
SUBTOTAL TASK 3:					5	84,866,00
NMGRT @ 5.8125% GRAND TOTAL TASK 3:					5	4,932.84 89,798.84
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Task 4	. Preparation o	of an Final l	Report	,		
2 2 2 2 2 2 2	Contract Line	Millions	12000	Ca. 70005-200		Manager
Professional Services	Item	Rate	Unit	# of Units		Total
Principal	0001	100.00	hour	8	5	800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	5	1,608.00
Staff Scientist/Engineer	0004	52.00	bour	40	\$	2,080.00
Field Technician II	0005	50.00	hour	24	5	1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	5	800,00
Administrator (Technical Editor) Subtotal Professional Labor	0009	40.00	hour	6	5	240.00
					\$	6,728.00
SUBTOTAL TASK 4:					5	6,728,00
SUBTOTAL TASK 4: NMGRT @ 5.8125%					5	391.07
SUBTOTAL TASK 4:						

PROJECT GRAND TOTAL:

S 101,446.68

Notes:
NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection, however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis, therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.

#### Kieling, Martyne

Joseph J. Tracy [jtracy@intera.com] From:

Sent: Monday, August 11, 2003 5:15 PM

To: Kieling, Martyne Cc: Stacy A. Sabol

Subject: Cost Estimate - Araho Facility

Martyne,

As you requested, here are the revised costs again for the Araho Facility, with the following changes:

Hot Oil Truck Removed

2) Cost for solids to be land farmed rather than disposed of

A new mobilization charge for equipment because now it is being moved out of Hobbs and we'll be charged to move it back when the job does begin. This charge resulted from the postponement of the work.

No new disposal rate for disposal of liquids. Rhino said the \$10.80/barrel was the best they could do.

Please call me if you have any questions. Thank you very much,

Joe

Joseph J. Tracy, R.G. Geologist INTERA Inc. One Park Square 6501 Americas Parkway NE Suite 820 Albuquerque, NM 87110 (505) 246-1600 ext. 219 Fax (505) 246-2600

This e-mail may contain confidential information or material protected by the attorney-client privilege. If you are not the intended recipient, please inform immediately to Joseph Tracy by return e-mail at itracy@intera.com or by telephone at (505) 246-1600 ext. 219

#### **■ Telnet - 164.64.103.12** Connect Edit Terminal Help ACTION: R SCREEN: EXP2 USERID: fach



09/03/03 03:47:03 PM

#### EXPENSE BUDGET INQUIRY

BUDGET FY= 04 ORGANIZATION= 0750 FUND= 199

AGENCY= 521

ACTIVITY=

FUNCTION=

**OBJECT= 3532** 

DESCRIPTION: REPORTABLE OTHER SERVICES

SUB-OBJECT OPTION:

BUDGETED POSITIONS: SPENDING CONTROL IND:

**REV SOURCE REF 1: REV SOURCE REF 2:** 

STATUS IND: A

APPROPRIATION UNIT: 301

**REV SOURCE REF 3:** 

SERIES NUM:

**CURRENT AMOUNTS** 

BEGIN DAY AMOUNTS

0.00

APPROVED BUDGET:

750,000.00

CURRENT MODIFIED BUDGET:

750,000.00 239,588.00

750,000.00 239,588.00

PRE-ENCUMBERED: **ENCUMBERED:** 

76,682.15

76,682.15

**EXPENDED:** 

0.00

0.00

UNOBLIGATED:

673,317.85

UNCOMMITTED:

433,729.85

0750

0750

.15 59,051.34	\$1071267.15						Grand Total:	Gra
ŏ.	\$4,000.00	PINNACLE LABORATORIES INC 01	PINNACLE LAB	850454519	03 05/23/2003	03199000811 (	0750 3532	0750
4.	\$17,424.00	SERVICE INC 01	A-PLUS WELL SERVICE INC	850403057	03 06/05/2003	03199000803	3532	0750
Ō	\$57,100.00	PORATED 01	INTERA INCORPORATED	0000005086	13 05/16/2003	03199000799	3532	2750
Ñ	\$25,852.40	SERVICE INC 01	A-PLUS WELL SERVICE INC	850403057	)3 04/23/2003	03199000715 (	3532	0750
9.	\$55,999.00	SERVICE INC 01	A-PLUS WELL SERVICE INC	850403057	)3 04/16/2003	03199000694 (	3532	0750
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.7	\$31,377.50	MAYO MARRS CASING PULLING INCOI	MAYO MARRS	751498487	)3 04/02/2003	03199000533	3532	0750
.7	\$35,717.00	MAYO MARRS CASING PULLING INCOI	MAYO MARRS	751498487	)3 04/02/2003	03199000479 (		0750
9	\$44,929.50	MAYO MARRS CASING PULLING INCOI	MAYO MARRS	751498487	)3 04/02/2003	03199000476	3532	0750
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Ċ	\$50,935.50	MAYO MARRS CASING PULLING INCOI	MAYO MARRS	751498487	)4 07/15/2003	04199000141 (	3532	0750
0.	\$19,200.00	SERVICE INC 01	A-PLUS WELL SERVICE INC	850403057	)4 07/03/2003	04199000057	3532	0750
46.	\$6,546.65	RPORATION 01	BENTERRA CORPORATION	0000009904	07/02/2003	04199000046	3532	
ä	\$60,000.00	AMEC EARTH & ENVIRONMENTAL INC	AMEC EARTH &	911641772	03 02/21/2003	03199000607	3522	0750
ŏ	\$15,000.00	PORATED 01	INTERA INCORPORATED	0000005086	D3 02/21/2003	03199000606	3522	0750
ĕ	\$9,200.00	SIS INC 01	TRACE ANALYSIS INC	752439743	03 02/21/2003	03199000605		0750
Ö.	\$4,400.00	ORATORIES INC 01	PINNACLE LABORATORIES	850454519	03 02/21/2003	03199000604 (	3522	0750
I≥	Line No. Purchase Amt.	<u>Li</u>	Vendor Name	Vendor No.	FY PO Date	PO Number	Object	$\underline{\text{Org}}$
		9/3/2003	)02 to	7/1/2002				

9/3/2003

Report Run Date:

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## RECEIVED

AUG 1 4 2003

## OIL CONSERVATION DIVISION

Intera Incorporated

9111A Research Boulevard Austin, Texas 78758 Telephone: 512 425 2000

Fax: 512 425 2099

New Mexico Oil Conservation Division

Attn: Sally Martinez

1220 South Saint Francis Drive

Santa Fe, NM 87505

August 10, 2003 Invoice No:07-03-40

PROJECT NO: NMO-ARA

To Invoice-for-services-rendered.

RE: Phase I Surface Investigation and Clean-up at ARAHO, Inc

Contract#308050918056 PO#03-199-000799

Billing Period: 7-1-2003/7-31-2003 Project Manager: Joseph Tracy

**Professional Services** 

Task 1-Project Coordination & Fieldwork Preparation

**Project Geologist** 

J. Tracy 5.50 hrs at \$67.00 \$368.50

**Staff Engineer** 

J. Marez 9.00 hrs at \$52.00 468.00

 Subtotal
 14.50
 \$836.50

 Total Charges
 836.50

 NMGRT 5.8125%
 48.62

Total Invoice \$885.12

Approved by:

Please remit payment to:

**INTERA Inc** 

9111A Research Blvd.

Austin, TX 78758

PLEASE REFERENCE INVOICE NUMBER ON ALL PAYMENTS



## RECEIVED

JUL 1 4 2003

#### **OIL CONSERVATION** DIVISION

Intera Incorporated

9111A Research Boulevard Austin, Texas 78758 Telephone: 512 425 2000

512 425 2099 Fax:

New Mexico Oil Conservation Division

Attn: Sally Martinez

1220 South Saint Francis Drive

Santa Fe, NM 87505

July 15, 2003

Invoice No:06-03-34

PROJECT NO: NMO-ARA

To Invoice for services rendered.

RE: Phase I Surface Investigation and Clean-up at ARAHO, Inc

Contract#308050918056 PO#03-199-000799

Billing Period: 6-1-2003/6-30-2003 Project Manager: Joseph Tracy

**Professional Services** 

Task 1-Project Coordination & Fieldwork Preparation

Principal

S. Sabol 3.00 hrs at \$100.00 \$300.00

**Project Geologist** 

J. Tracy 12.00 hrs at \$67.00 804.00

**Staff Engineer** 

J. Marez 4.00 hrs at \$52.00 208.00

19.00 Subtotal 1,312.00 **Total Charges** 

NMGRT 5.8125%

**Total Invoice** 

1,312.00

76.26

\$1,388.26

Approved by:

Please remit payment to:

**INTERA** Inc

9111A Research Blvd.

Austin, TX 78758

PLEASE REFERENCE INVOICE NUMBER ON ALL PAYMENTS



### RECEIVED

JUN 2 0 2003

## OIL CONSERVATION DIVISION

ATTOMORPH COMME

June 26, 2003

Ms. Martyne J. Kieling Environmental Geologist New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, NM 87505

**RE:** Request for Change Order

 Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico

#### Ms. Kieling:

Upon your approval of our proposal and issuance of a purchase order (Document No. 03-199-000799) INTERA, Inc. (INTERA) began preliminary work at the Araho, Inc. Facility (Site) in Lea County, New Mexico. INTERA's subcontractor, Rhino Environmental Services, Inc. (Rhino) of El Paso, Texas, sent representatives to the Site to collect samples of the materials in the aboveground storage tanks (ASTs) in order to profile the waste stream prior to disposal. Upon opening tanks and attempting to retrieve samples, it was determined that most of the waste in the ASTs, originally assumed to be readily viscous liquid, was in a semi-solid state. Additionally, further inspection by Rhino determined that less than 1% of the total waste material is recyclable (the original cost assumed that the waste material could be recycled rather than disposed of).

INTERA requests that the New Mexico Oil Conservation Division (OCD) issue a change order for the project in the amount of \$46,122.40. The estimated total project costs, including the additional costs, are outlined on the attached spreadsheet. The summary of additional costs is:

- 1. The costs for the disposal of waste material liquids has increased to \$10.80 barrel;
- 2. INTERA included costs for a hot oil truck;
- 3. INTERA included costs for mixing semi-solid waste material with sand and disposing of it as solid waste;
- 4. The amount of time Rhino workers on site will increase by 10 hours:
- 5. INTERA oversite time, field work time, and project management time has increased.

All costs will be invoiced on a time and materials basis. It should be noted that if heating the waste material with a hot oil truck will allow the waste material to become viscous enough to be pumped from each AST, then the line items outlining the costs to mix the semi-solid waste material with sand and to dispose of the waste material/sand mixture as solid waste can be eliminated.



One Park Square, Suite 820 6501 Americas Parkway NE Albuquerque, NM 87110 Telephone: 505 246 1600

Fax: 505 246 2600

Page 2 New Mexico Oil Conservation Division Ms. Martyne J. Kieling June 26, 2003

#### INTERA assumes the following:

- 1. All field work related to the tank removal and soil sampling can be completed in a period of 60 hours;
- 2. All materials (either metal or waste material) are below Naturally Occurring Radioactive Materials (NORM) allowable limits for transportation and disposal. Any material requiring disposal that exceeds NORM allowable limits may result in an increase in costs;
- 3. At least 60% of the waste material will be sufficiently viscous to be vacuumed from each AST after high-pressure water jetting. The remaining 40% of the waste material will be removed either by high-pressure water jetting and vacuuming, heating with a hot oil truck and then high pressure jetting and vacuuming, or by mechanically opening each ASTs by removing fasteners holding the ASTs together and mixing the waste material with clean sand.
- 4. All other applicable assumptions as stated in the original Scope of Work (SOW) dated April 30, 2003 are still in effect.

Please call us with any questions or comments regarding this change order. Thank you very much.

Sincerely,

INTERA Inc.

Joseph Tracy, RG

Project Manager

Stacy Sabol Sector Manager

#### Enclosure:

• Revised Cost Estimate, Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico



#### State of New Mexico Oil Conservation Division Phase I Investigation and Remediation Araho, Inc. Former Injection Well Disposal Facility,

Lea County, New Mexico Revised Cost Estimate

Task I. Froject C	Contract Line	ing rieluwo	a r reparat	Total Control		
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rofessional Services	Item	Rate		And the second second second second		400.0
rincipal	0001	100.00	hour	4	S	
roject Scientist/Engineer/Manager	0003	67.00	hour	4	S	268.0
taff Scientist/Engineer	0004	52.00	hour	4	\$	208.0
ield Technician II	0005	50.00	hour	8	\$	400.0
ubtotal Professional Labor					\$	1,276.0
UBTOTAL TASK 1:					\$	1,276:0
NMGRT @ 5.8125%					5	74.1
GRAND TOTAL TASK 1:						1,350.1
					NORMA	
Task 2. Map Buried Utilities (1-Call) and Pe		lly Occurri	ig Radioacti	ve Materials	NORM) Sur	vey
	Contract Line					
rofessional Services	Item	Rate	Unit	# of Units	T	otal
staff Scientist/Engineer	0004	52.00	hour	2	5	104.0
ield Technician II - Mobilization	0005	50.00	hour	16	S	800.0
ield Technician II	0005	50.00	hour	8	5	400.0
Oraftsperson II (Utility Mapping)	0007	50.00	hour	- 8	S	400.0
Subtotal Professional Labor	0007	20,00	tions.	-	\$	1,704.0
Subtotal Professional Labor	120				3	1,704.0
	Contract Line					
Expenses	Item	Rate	Unit	# of Units		otal
NORM Survey	"At Cost"	1,300.00	each	I	\$	1,300.0
Subtotal Expenses		-			\$	1,300.0
UBTOTAL TASK 2:					5	3,004.0
NMGRT @ 5.8125%					\$	174.6
						3,178.6
GRAND TOTAL TASK 2:					3	
Task 3. Field Investigation: Tank Removal/Clea	aning/Disposa	I and Piping	Removal/D	isposal and S	ampling/Tren	iching
	Contract Line					
Professional Services	Item	Rate	Unit	# of Units	т	otal
A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH	0003	67.00	hour	8	5	536.0
Project Scientist/Engineer/Manager	0003			12	\$	624.0
staff Scientist/Engineer		52.00	hour			
ield Technician II - Fieldwork*	0005	50.00	hour	90	5	4,500.0
Field Technician II - Foreman	0005	50.00	hour	60	\$	3,000.0
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$	2,100.0
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	60	5	1,500.0
Field Technician I - Laborer	0006	20.00	hour	60	S	1,200.0
Field Technician 1 - Laborer	0006	20.00	hour	60	S	1,200.0
	0010	30.00		4	\$	120.0
Hourly Secretary	0010	30.00	hour	4		
Subtotal Professional Labor					\$	14,780.0
	Contract Line		170.0411	DISTRIBUTION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH		
Expenses	Item	Rate	Unit	# of Units	T	otal
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$	28,080.0
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	\$	10,800.0
Vacuum/Jet Truck	"At Cost"	750.00	day	6	\$	4,500.0
Trackhoe Heavy Duty	0030	646.00	day	6	\$	3,876.0
Fransportation and Disposal of Materials (Scrap Metals, Piping,						
	SALP CONT	195.00	Total C	E.	s	1,170.0
Tanks) below NORM allowable limits	"At Cost"		load	6		
Disposal of Miscellaneous Trash	"At Cost"	40,00	ton	12	\$	480.0
Backhoe Medium Duty	0026	157.00	day	6	5	942.0
Hot Oil Truck	"At Cost"	925.00	day	3	\$	2,775.0
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	5	600.0
Clean Sand	"At Cost"	4.00	yard	250	5	1,000.0
Disposal of Solid Waste Material (sand mixed with non-pumpable semi			7.77.17	-		140.000
solid waste material)	0045	6.48	barrel	2260	\$	14,644.8
		50.00				300.0
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012		day	6	S	
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	5	1,800.0
Hand-Heid GPS Unit	"At Cost"	5.00	day	3	5	15.0
Photoionization Detector (PID)	0021	10.00	day	6	\$	60.0
Mileage	0042	0.25	mile	800	5	200.0
Per Diem	0043	65.00	day	8	S	520.0
Subtotal Expenses	1010				S	71,762.8
					S	86,542.8
SUBTOTAL TASK 3:					3	
NMGRT @ 5.8125%					3	5,030.3
GRAND TOTAL TASK 3:					5	91,573.
Task 4.	Preparation of	of an Final I	Report			
	Contract Line					
Professional Services	Item	Rate	Unit	# of Units	7	otal
Principal	0001	100.00	hour	8	\$	800.0
Project Scientist/Engineer/Manager	0003	67.00	hour	24	S	1,608
Staff Scientist/Engineer	0004	52.00	hour	40	S	2,080
Field Technician II	0005	50.00	hour	24	\$	1,200.
Oraftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$	800.
Administrator (Technical Editor)	0009	40.00	hour	6	5	240.
			-	-	S	6,728.
Subtotal Professional Labor						
Subtotal Professional Labor SUBTOTAL TASK 4:	- 20 m 20	07/17		SAN PAR	S	6,728.
ubtotal Professional Labor JUBTOTAL TASK 4: SMGRT @ 5.8125%		KLA	(SLEE)	V S	S	6,728. 391.
Subtotal Professional Labor SUBTOTAL TASK 4: NMGRT @ 5.8125% SRAND TOTAL TASK 4:		EG.			S	6,728

Notes:
NMGRT = New Mexico Gross Receipts Tax
NMGRT = New Mexico Gross Receipts Tax
The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.

#### State of New Mexico Oil Conservation Division Phase I Investigation and Remediation Araho, Inc. Former Injection Well Disposal Facility, Lea County, New Mexico **Revised Cost Estimate**

Task I. Project C	oordination :	and Fieldwo	k Preparati	on	
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Professional Services	Item	Rate	Unit	# of Units	Total
rincipal	0001	100,00	hour	4	\$ 400
roject Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268
taff Scientist/Engineer	0004	52.00	hour	4	\$ 208
ield Technician II	0005	50.00	hour	8	\$ 400
ubtotal Professional Labor					\$ 1,276
UBTOTAL TASK I:					\$ 1,276
MGRT (#: 5.8125%					74
RAND TOTAL TASK I:			-		\$ 1,350
Task 2. Map Buried Utilities (1-Call) and Pe	rform Natura	ally Occurrin	g Radioactiv	ve Materials (	NORM) Survey
	Contract Line				
rofessional Services	Item	Rate	Unit	# of Units	Total
itaff Scientist/Engineer	0004	52.00	hour	2	\$ 104
ield Technician II - Mobilization	0005	50.00	hour	16	\$ 800
	0005	50.00		8	\$ 400
ield Technician II	0007	50.00	hour	8	\$ 400
Praftsperson II (Utility Mapping)	0007	50,00	hour	. 8	
Subtotal Professional Labor					5 1,704
	Contract Line		1100000011	The second state	
Expenses	Item	Rate	Unit	# of Units	Total
VORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300
Subtotal Expenses					\$ 1,300
EBTOTAL TASK 2:	THE REAL PROPERTY.	No state of	LIOTAGE ST		\$ 3,004
MGRT or 5.8125%					3 174
GRAND TOTAL TASK 2:					\$ 3,178
			D 100		
Task 3. Field Investigation: Tank Removal/Cle		d and Piping	Removal/D	isposal and Sa	mpling/Trenching
	Contract Line				
Professional Services	Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536
Staff Scientist/Engineer	0004	52.00	hour	12	5 624
ield Technician II - Fieldwork*	0005	50.00	hour	90	\$ 4,500
ield Technician II - Forenan	0005	50.00	bour	60	\$ 3,000
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$ 2,100
		25.00		60	\$ 1,500
ield Technician I - Equipment Operator Backhoe	0006		hour		
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200
Field Technician I - Laborer	0006	20,00	hour	60	\$ 1,200
Hourly Secretary	0010	30,00	hour	4	\$ 120
Subtotal Professional Labor					5 14,780
	Contract Line				
Expenses	1tem	Rate	Unit	# of Units	Total
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	\$ 10,800
Vacuum/Jet Truck	"At Cost"	750.00	day	6	\$ 4,500
Frackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks)	CHARLET.	OHUGHE	ting.	-	- Species
	"At Cost"	195.00	load	6	\$ 1,170
selow NORM allowable limits		40.00			
Disposal of Miscellaneous Trash	"At Cost"		ton	12	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Backhoe Medium Duty	0026	157.00	day	6	\$ 942
Hot Oil Truck	"At Cost"	925.00	day	3	\$ 2,775
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600
Tean Sand	"At Cost"	4,00	yard	250	\$ 1,000
Disposal of Solid Waste Material (sand mixed with non-pumpable semi-					
olid waste material)	0045	6.48	barrel	2260	\$ 14,644
ombustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50,00	day	6	\$ 300
resh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800
fand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15
		10.00		6	
Photoionization Detector (PID)	0021		day		
dileage	0042	0.25	mile	800	\$ 200
Per Diem	0043	65,00	day	- 8	\$ 520
Subtotal Expenses					\$ 71,762
UBTOTAL TASK 3:		to the same	I THE	1000	\$ 86,512
VMGRT in: 5.8125%					\$ 5,000
					\$ 91,573
RAND TOTAL TASK 3:	Preparation of	of an Final E	lenort		
		or an Pinal P	eport		
Task 4.	Contract Line	14000	1600000	THE CONTRACTOR OF	
Task 4.  Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Task 4.  Professional Services  Principal	Contract Line Item 0001	100,00	hour	8	\$ 800
Task 4.  Professional Services  Principal	Contract Line Item	100,00 67,00		# of Units 8 24	\$ 800 \$ 1,608
Task 4.  Professional Services  Principal Project Scientist/Engineer/Manager	Contract Line Item 0001	100,00	hour	8	\$ 800 \$ 1,608 \$ 2,080
Task 4.  Professional Services  Principal  Project Scientist/Engineer/Manager  Staff Scientist/Engineer	Contract Line Item 0001 0003	100,00 67,00	hour hour	8 24	\$ 800 \$ 1,608
Task 4.  Professional Services  Principal  Project Scientist/Engineer/Manager  Islaff Scientist/Engineer  Field Technician II	Contract Line Item 0001 0003 0004 0005	100,00 67,00 52,00 50,00	hour hour hour	8 24 40 24	\$ 800 \$ 1,608 \$ 2,080 \$ 1,200
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Professional Services  Principal Project Scientist/Engineer/Manager Staff Scientist/Engineer ield Technician II Draftsperson II (Figures, Cross Sections) Administrator (Technical Editor) Subtotal Professional Labor	Contract Line Item 0001 0003 0004 0005 0007	100,00 67,00 52,00 50,00 50,00	hour hour hour hour	8 24 40 24 16	\$ 800 \$ 1,608 \$ 2,080 \$ 1,200 \$ 800 \$ 240 \$ 6,728
Task 4.  Professional Services  Principal  Project Scientist/Engineer/Manager  Staff Scientist/Engineer  icid Technician II  Draftsperson II (Figures, Cross Sections)  Administrator (Technical Editor)  Subtotal Professional Labor  SUBTOTAL TASK 4:	Contract Line Item 0001 0003 0004 0005 0007	100,00 67,00 52,00 50,00 50,00	hour hour hour hour	8 24 40 24 16	\$ 800 \$ 1,608 \$ 2,980 \$ 1,200 \$ 800 \$ 240 \$ 6,728 \$ 6,728
Task 4,  Professional Services  Principal  Project Scientist/Engineer/Manager  staff Scientist/Engineer  Field Technician II  Draftsperson II (Figures, Cross Sections)  Administrator (Technical Editor)  subtotal Professional Labor  subtrotal Task 4:  NMCRT or S8125%	Contract Line Item 0001 0003 0004 0005 0007	100,00 67,00 52,00 50,00 50,00	hour hour hour hour	8 24 40 24 16	\$ 800 \$ 1,608 \$ 2,080 \$ 1,200 \$ 800 \$ 240 \$ 6,728 \$ 6,728 \$ 391
Task 4.  Professional Services  Principal  Project Scientist/Engineer/Manager  staff Scientist/Engineer  ield Technican II  Praftsperson II (Figures, Cross Sections)  Individual Scientist (Technical Editor)  Scientist (Technical Editor)  Scientist (Technical Editor)  Scientist (Technical Editor)  Scientist (Technical Editor)	Contract Line Item 0001 0003 0004 0005 0007	100,00 67,00 52,00 50,00 50,00	hour hour hour hour	8 24 40 24 16	\$ 800 \$ 1,608 \$ 2,980 \$ 1,200 \$ 800 \$ 240 \$ 6,728 \$ 6,728

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.



One Park Square 6501 Americas Parkway NE Suite 820 Albuquerque, New Mexico 87110

Tel: 505 246 1600 Fax: 505 246 2600 Fax

TO MARTYNE KOLLING	From: Joe Tracy
Company: OCD	
Fax (505) 476 - 346	2_ Pages:* 4
Phone:	Date: 6/27/03
Hes CHANGE OFFICE	cc
*Includes cover sheet	
Comments:	
MARTYNE,	
ATTREMED NO	our CHANGE OLDER REQUEST LETTER
	COST ESTINATE STREAD SMEET. PREMSE
•	are Me W ANY CLOSTIONS. THANK
Yon!	
	79-

This fax may contain confidential information or material protected by the attorney-client privilege. If you are not the intended recipient, please inform Cristya Abrams immediately by telephone at (505) 246-1600.



Intera Incorporated

One Park Square, Suite 820 6501 Americas Parkway NE Albuquerque, NM 87110 Telephone: 505 246 1600

505 246 2600 Fax:

\* August 11th. Start Date

G 10 Hows Pay So.

June 26, 2003

Ms. Martyne J. Kicling **Environmental Geologist** New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, NM 87505

Request for Change Order RE:

> Phase I Investigation and Remediati Facility, Lea County, New Mexico

sal

Ms. Kieling:

Upon your approval of our proposal and issuance of a purchase order (Document No. U3-199-000799) INTERA, Inc. (INTERA) began preliminary work at the Araho, Inc. Facility (Site) in Lea County, New Mexico. INTERA's subcontractor, Rhino Environmental Services, Inc. (Rhino) of El Paso, Texas, sent representatives to the Site to collect samples of the materials in the aboveground storage tanks (ASTs) in order to profile the waste stream prior to disposal. Upon opening tanks and attempting to retrieve samples, it was determined that most of the waste in the ASTs, originally assumed to be readily viscous liquid, was in a semi-solid state. Additionally, further inspection by Rhino determined that less than 1% of the total waste material is recyclable (the original cost assumed that the waste material could be recycled rather than disposed of).

INTERA requests that the New Mexico Oil Conservation Division (OCD) issue a change order for the project in the amount of \$46,122.40. The estimated total project costs, including the additional costs, are outlined on the attached spreadsheet. The summary of additional costs is:

- 1. The costs for the disposal of waste material liquids has increased to \$10.80 barrel;
- 2. INTERA included costs for a hot oil truck;
- 3. INTERA included costs for mixing semi-solid waste material with sand and disposing of it as solid waste:
- 4. The amount of time Rhino workers on site will increase by 10 hours;
- 5. INTERA oversite time, field work time, and project management time has increased.

All costs will be invoiced on a time and materials basis. It should be noted that if heating the waste material with a hot oil truck will allow the waste material to become viscous enough to be pumped from each AST, then the line items outlining the costs to mix the semi-solid waste material with sand and to dispose of the waste material/sand mixture as solid waste can be climinated.

Page 2 New Mexico Oil Conservation Division Ms. Martyne J. Kieling June 26, 2003

#### INTERA assumes the following:

- 1. All field work related to the tank removal and soil sampling can be completed in a period of 60 hours;
- 2. All materials (either metal or waste material) are below Naturally Occurring Radioactive Materials (NORM) allowable limits for transportation and disposal. Any material requiring disposal that exceeds NORM allowable limits may result in an increase in costs:
- 3. At least 60% of the waste material will be sufficiently viscous to be vacuumed from each AST after high-pressure water jetting. The remaining 40% of the waste material will be removed either by high-pressure water jetting and vacuuming, heating with a hot oil truck and then high pressure jetting and vacuuming, or by mechanically opening each ASTs by removing fasteners holding the ASTs together and mixing the waste material with clean sand.
- 4. All other applicable assumptions as stated in the original Scope of Work (SOW) dated April 30, 2003 are still in effect.

Please call us with any questions or comments regarding this change order. Thank you very much.

Sincerely, INTERA Inc.

Joseph Tracy, RG

Project Manager

Stacy Sabol Sector Manager

#### Enclosure:

 Revised Cost Estimate, Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico



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State of New Mexico Olf Conservation Division Phase I Investigation and Remodiation Arabe, Inc.

Arabe, Inc.

Former injection Well Disposal Facility,
Lea County, New Mexico
Revised Cost Estimate

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ld Technician II - Forensen	0001	50 00	ligar	60	\$ 3,000
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M Technician 1 - Laborer	0006	20,00	hour	60	\$ 1,200
old Technician I - Laborer	0006	20.00	hout	60	\$ 1,200,0
outly Sociolary	0010	30 00	hour	4	\$ 120.
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sporal of Contaminated Physics (Cleaning Water)	0044	08.01	barrel	1,000	\$ 10,200
chartel Truck	"At Cost"	750 00	dav	6	\$ 4,500
nekhos Henry Duty	0030	646 00	day	6	\$ 3,876
antportation and Disposal of Matorials (Scrap Metals, Paping,			ļ ——	Τ΄ .	
mks) below NORM allowable times	"At Cost"	195 00	iced	6	1,170
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of Chil Truck	"At Cost"	924 00	- Asy	2	600.
Savory of Two 20 Yard Roll-Off Contamers	"At Cost"	300.00 4.00	vaci.	250	\$ 1,000
oon Sand		+~~~ <u>~~~</u>	- surg	100	1
special of Solid Waste Material (sand mixed with non-pumpable	0045	64R	barrel	2260	5 14,644
lid waste transition) combustible Com Indicator (CGI) with 02, 1425, CQ2	0012	30 00	- βriλ	6	\$ 300
an Air/Rafety Trailer/Personal Air Samplers	"AI CON"	300,00	day	. 6	1,400
and-Held GPS Unit	"At Cost"	5,00	day	3	5 12
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NORT = New Market Gress Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 incurs of IN LEAA fieldwork and propen management time will be defined to complete the tank and pulping removal and dripposed particul of the project (subscenarior fieldwork time 60 hours total). This time culmute site includes amulti recording and sample collection, however, xample analytical costs are not included in this cost estimates. All INTERA cross will be invoiced on a time and muterials basis; therefore a rodu flon of time or materials taken to complete the project results in a reduction of the final costs of the project.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor
Joanna Prukop
Cabinet Secretary

September 2, 2003

Lori Wrotenbery
Director
Oil Conservation Division

Patrick B. McMahon 311 North First Street Post Office Drawer 1599 Lovington, NM 88260

RE: Araho Investigation and Remediation Project

SE/4 Section, Township 17 South, Range 36 East, NMPM, Lea county NM

Mr. McMahon:

Enclosed please find the Temporary Grant of Easement and Exhibits A and B for the Araho project on the City of Lovington property. The New Mexico Energy Minerals and Natural Resources Department, Oil Conservation Division and Administrative Services Division Directors have signed Exhibit B. Please review the enclosed documents and if they meet with the City of Lovington's approval please have them sign and notarize the easement. The easement will then need to be registered with the county.

The OCD will require a copy from the County upon registration. A start date for the project will be set upon receipt of a copy of the registration. The OCD will notify Mr. Wise as to the start date as soon as it is known. Please call me if there is anything additional that is required 505-476-3488.

Sincerely,

Martyne J. Kieling

**Environmental Geologist** 

Attachments: Original Temporary Grant of Easement, Exhibit A and singed Exhibit B

xc: Pat Wise, City Manager, City of Lovington, PO Box 1269, Lovington NM 88260

File GW-037





**Intera Incorporated** 

One Park Square, Suite 820 6501 Americas Parkway NE Albuquerque, NM 87110 Telephone: 505 246 1600

Fax:

505 246 2600

#### RECEIVED

APR 2 9 2003

Environmental Bureau
Oil Conservation Division

April 29, 2003

Ms. Martyne J. Kieling
Environmental Geologist
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, NM 87505

**RE:** Transmittal of Proposal:

• Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico

Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to provide you with the enclosed proposal. The proposal has been prepared for the investigation and remediation of the Araho, Inc. former injection well disposal facility located in Lea County, New Mexico. We have based our proposal on the scope of work that you provided. Attached to this letter are two copies of our proposal which include a scope of work describing how INTERA will complete the project, a cost estimate, and a photo log. All costs will be invoiced on a time and materials basis, a reduction in time and/or materials taken to complete the project result in a reduction in the final cost to complete the project.

INTERA will perform the proposed work under the terms of the contract between INTERA and the State of New Mexico General Services Department, Contract No. 30-805-09-18056.

Again, we thank you for the opportunity to bid on this project and hope that you will consider INTERA for future projects where the services of a responsive and quality consulting firm are needed. If you have any questions regarding the attached proposal, please do not hesitate to contact us at (505) 246-1600.

Regards, INTERA Inc.

Joseph Tracy, PG Project Manager Ms. Stacy Sabol Sector Manager

#### Enclosures:

Scope of Work, Cost Proposal, and Photo Log – Phase I Investigation and Remediation, Araho, Inc.,
 Former Injection Well Disposal Facility, Lea County, New Mexico

20 Araho, Inc

(File GW-037)

Order:

Case No.:

Date:

1974-1993 Injection well facility

Name:

Araho, Inc.

Address:

(As of May 1998) 8100 N. Alabama, Hobbs, NM 88240

Location:

NW/4 of Section 1, T 17 S, R 36 E, NMPM, Lea County, NM

NMPRC name:

Araho, Inc.

Mailing address:

8100 N. Alabama, Hobbs, NM 88240

Principal Address:

8100 N. Alabama, Hobbs, NM 88240

Incorporators:

Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Director:

Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Bond:

None/ well plugged the surface equipment is remaining.

Surface Owner:

City of Lovington, 214 South Love Street, Lovington, NM 88260

(505) 396-2884

20 Araho, Inc

(File GW-037)

Order:

Case No.:

Date:

1974-1993 Injection well facility

Name:

Araho, Inc.

Address:

(As of May 1998) 8100 N. Alabama, Hobbs, NM 88240

Location:

NW/4 of Section 1, T 17 S, R 36 E, NMPM, Lea County, NM

NMPRC name:

Araho, Inc.

Mailing address:

8100 N. Alabama, Hobbs, NM 88240 8100 N. Alabama, Hobbs, NM 88240

Principal Address:

Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Director:

Incorporators:

Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Bond:

None

Surface Owner:

City of Lovington, 214 South Love Street, Lovington, NM 88260

(505) 396-2884

Score:

20

Name:

Araho, Inc.

File:

GW-037

Location:

5 miles south of Lovington.

NW/4 of Section 1, Township 17 South, Range 36 East, NMPM,

Lea County, New Mexico.

**Status:** 

Araho, Inc. was an injection well facility from 1974 to 1993. The last owner of record was Dorothy Runnels. The facility received waste from the Navajo

Refinery via pipeline when it was operated by Southern Union.

There is no bond on file for Araho, Inc.

Plan:

The OCD has begun drafting a scope of work to include:

Remove fluid/sludge from tanks and pit. Dismantle tanks and recycle/dispose of tanks, pipe, drums and pit liner. Excavate and transport 1000 cubic yards of visually known contaminated soil. Collect soil samples for analysis. Excavate, transport and dispose of 6,453 cubic yards of contaminated soil from leaks below

the pit, tanks and underground pipes.

Est. Cost:

\$434,000

Date:

January 8, 2003

# NMPRC Corporation Information Inquiry

### **Public Regulation Commission**

1/7/2003

• Follow this link to start a new search.

## ARAHO, INC.

SCC Number:

0789362

Tax & Revenue Number: 01797247007

Incorporation Date:

**DECEMBER 12, 1973, in NEW MEXICO** 

Corporation Type:

IS A DOMESTIC PROFIT

**Corporation Status:** 

IS INACTIVE DUE TO REVOKED & BEYOND APPEAL PERIOD

Good Standing:

Purpose:

**OILFIELD SERVICES** 

#### **CORPORATION DATES**

Taxable Year End Date: 12/31/98

Filing Date:

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**Expiration Date:** 

#### SUPPLEMENTAL POST MARK DATES

Supplemental:

Name Change:

Purpose Change:

#### **MAILING ADDRESS**

8100 N. ALABAMA HOBBS, NEW MEXICO 88240

#### PRINCIPAL ADDRESS

8100 N. ALABAMA HOBBS NEW MEXICO 88240

#### PRINCIPAL ADDRESS (Outside New Mexico)

#### **REGISTERED AGENT**

**DOROTHY RUNNELS** 

8100 N. ALABAMA HOBBS NEW MEXICO 88240

#### **COOP LICENSE INFORMATION**

Number:

Type:

Expiration Year:

#### **INCORPORATORS**

RUNNELS, DOROTHY NONE RUNNELS, DOROTHY RUNNELS, DOROTHY

#### **DIRECTORS**

Date Election of Directors: 01/02/97

RUNNELS, DOROTHY 8100 W. ALABAMA HOBBS, NM 88240

New Program Initiatives – non-recurring expenditures.

#### **SUMMARY**

From 1974 to 1993 Araho Inc. operated an oilfield treating plant facility and injection well, located 5 miles south of Lovington, New Mexico, (Section 1, Township 17 south, Range 36 East, NMPM, Lea County). The facility is located above the Ogallala Formation, which is the primary source of drinking water for the city of Lovington. Groundwater is estimated to be approximately 50 feet below ground surface.

The facility contains: (see attached photos)

- 1. One 150 ft. by 150 ft. lined pit containing approximately 3333 cubic yards of water, sludge and oil that overflows on to the ground surface with each precipitation event;
- 2. Eight above ground storage tanks containing approximately 1,600 barrels of fluids and sludge;
- 3. Approximately 1000 feet of buried pipe; and
- 4. Surface trash including 15 barrels.

During a preliminary investigation in October 2000, four boreholes were drilled through the subsurface to ground water. The investigation revealed that the liner beneath the pit appears to be still intact and groundwater has not been impacted. However, when it rains the pond and an open-top tank overflow onto the ground surface. The New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division is concerned that if the facility is left in its present condition, ground water and the water supply for the city of Lovington could be impacted in the future.

#### **PERFORMANCE GOALS**

This investigation, cleanup, and restoration project would be protective of ground water supplies and therefore would advance the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division performance goal of Protection of Healthy Ecosystems. "The purpose of the healthy ecosystem program is to protect ecosystems throughout the state by identifying at-risk areas; preventing additional damage; and restoring damaged areas."

#### **COST**

The total cost for this project is estimated to be \$434,000. The cost break down is as follows:

Remove fluid/sludge from tanks and pit. Dismantle tanks and recycle/dispose of tanks, pipe, drums and pit liner. Excavate and transport 1000 cubic yards of visually known contaminated soil. Collect soil samples for analysis. \$196,000.

Excavate, transport and dispose of 6,453 cubic yards of contaminated soil from leaks below the pit, tanks and underground pipes. \$233,000.

Analysis of soil samples \$5,000.

Araho, Inc OCD Inspection



Photo 1: June 26, 2002



Photo 4: June 26, 2002



Photo 2: June 26, 2002



Photo5: August 2000



Photo 3: June 26, 2002



Photo 6: August 2000



Photo 7:

August 2000



Photo 10:



Photo 8:

August 2000



Photo 9:

August 2000

#### **PRICE ESTIMATE -**

ARAHO Property - Lovington, NM

#### **SCOPE OF WORK -**

1) Pumping and disposal of sludge/liquid from 8 above ground storage tanks

2) Cleaning, dismantling and disposal of tanks (including approx. 1000 ft of piping and 15- 55 gallon drums)

Pumping and disposal of sludge/liquid from sludge pit (approx. .55 acres)
 Excavation, transportation and disposal of 1000 cu. Yds of contaminated soil

Excavation, transportation and disposal of 1000 cu. Yds of contaminated s
 Collection of 25 soil samples for analysis (to be determined by OCD)

6) Report detailing all on-site activities

Vendor No. 5187719

PA Number: 008050917658

RESPEC Inc.

Commodity Code: 72002 66074

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0002	24	\$75.00	Hour	\$1,800.00	Senior Scientist
*0003	40	\$60.00	Hour	\$2,400.00	Project Manager/Certified Scientist
*0004	40	\$50.00	Hour	\$2,000.00	Staff Scientist
*0005	40	\$35.00	Hour	\$1,400.00	Field Technician II
*0006		\$30.00	Hour	\$0.00	Field Technician I
*0010		\$30.00	Hour	\$0.00	Secretary
*0021		\$50.00	Day	\$0.00	PID
*0025	5	\$150.00	Day	\$750.00	Backhoe 1
*0026		\$200.00	Day	\$0.00	Backhoe 2
*0027		\$300.00	Day	\$0.00	Backhoe 3
*0028		\$350.00	Day	\$0.00	Trackhoe 1
*0029		\$500.00	Day	\$0.00	Trackhoe 2
*0031		\$1.50	Foot	\$0.00	2" blank PVC, !0 ft sections
*0033		\$2.80	Foot	\$0.00	2" screen, 10 ft sections
*0035		\$8.29	Each	\$0.00	Filter Pack Sand per 100# sack
*0036		\$46.75	Each	\$0.00	Bentonite pellets per 50# sack
*0037		\$8.50	Each	\$0.00	Bentonite Chips per 50# sack
*0038		\$50.00	Each	\$0.00	8" Manhole (well vault)
*0042	1200	\$0.30	Mile	\$360.00	Personal Vehicle Mileage
*0043	12	\$60.00	Each	\$720.00	Per Diem/Overnight
*0047		\$1.00	Mile	\$0.00	Mobe/Demobe: Drill Rig (Medium duty)
*0048		\$13.00	Foot	\$0.00	Hollow-Stem Auger Drilling Services (S-M)
*0049		\$19.00	Foot	\$0.00	Hollow-Stem Auger Drilling Services (L)
*0050		\$170.00	Hour	\$0.00	Air Rotary Drill Rig
*0051		\$12.00	Foot	\$0.00	Coring
*0052		\$100.00	Day	\$0.00	Water Truck -
*0053		\$50.00	Day	\$0.00	Pick up Truck -
*0054		\$50.00	Day	\$0.00	Steam cleaner
N/A	600	\$68.00	Hour		Vacuum Truck
N/A	17000	\$4.00	Barrel		Sludge/Liquid Disposal
N/A	1000	\$7.00	Yd	\$7,000.00	Excavation & Loading of Contaminated Soil
N/A	1000	\$9.00	Yd	\$9,000.00	Transportation of Contaminated Soil
N/A	1000	\$16.00	Yd		Disposal of Contaminated Soil
N/A	1500	\$4.00	Yd	\$6,000.00	Clean Backfill (including transportation)
				\$29,000.00	Tank and Piping Disposal

TOTAL

\$185,230.00 (a) +

0.058125 (NMGRT): \$195,996.49

NOTE: LABORATORY COSTS ARE NOT INCLUDED

Contingency -

Excavate, transport and dispose of 6,453 cu yds. of contaminated soil (top two feet of two acres) - \$ 232,308.00

Araho, Inc June 26, 2002 OCD Inspection



Photo 1: Entrance Sign

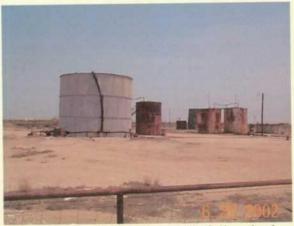


Photo 2: One 3000bbl tank 1/3 full and other assorted tanks. Surface soil very spongy and loose no vegetation. Looking North



Photo 3: Floor of old office and trash drums. Looking Northwest



Photo 4: Pit overflow into unlined bermed area approximately 10x11 feet



Photo 5: Lined pit approximately 150x150 feet and 4 feet deep. Looking Southwest